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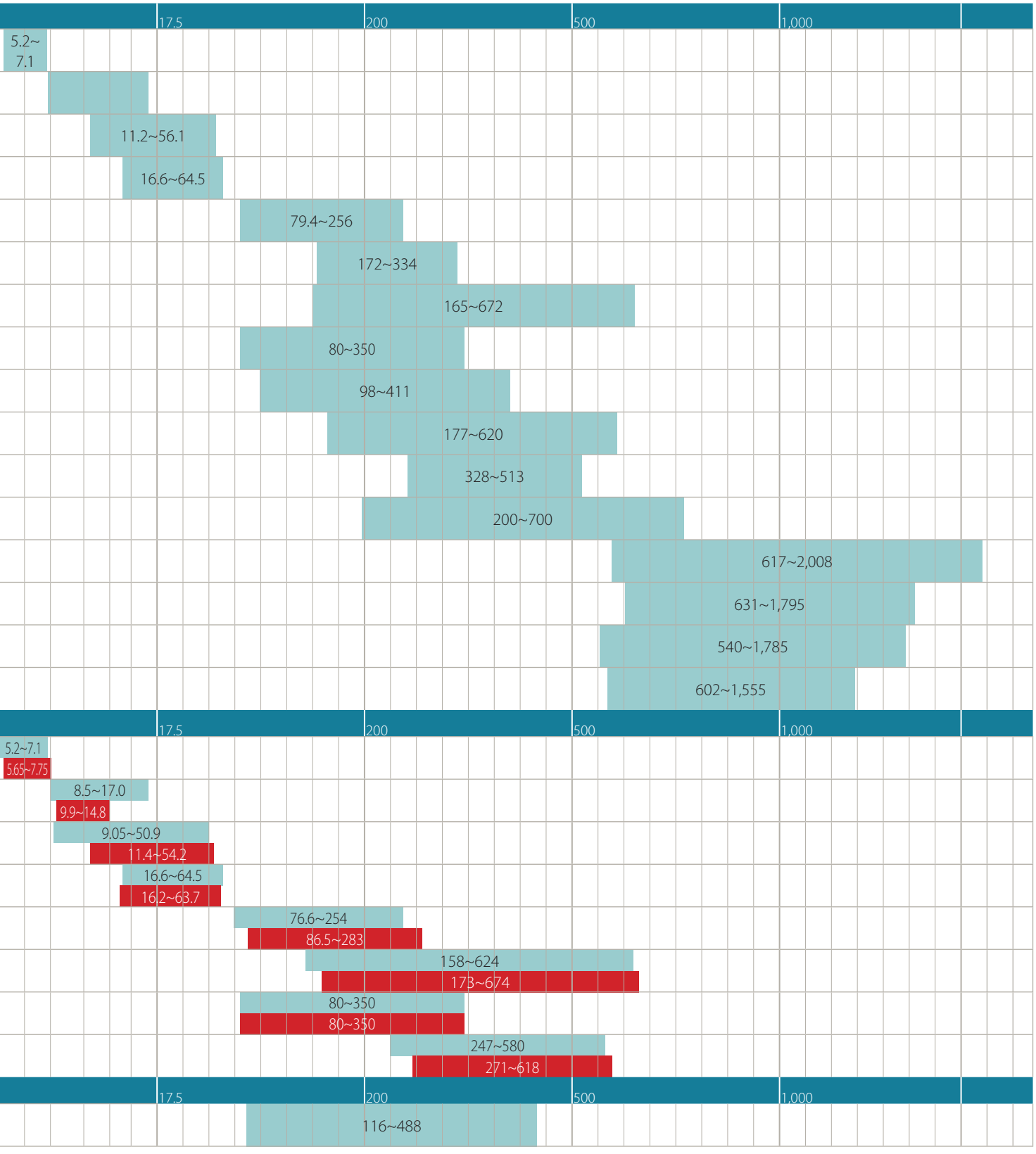
For more information on Options & Accessories, please refer to page 356 of this catalogue.

Products overview - air cooled units

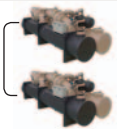
	Refrigerant	Inverter	Free cooling	Compressor			Efficiency version				Sound version				
				Swing	Scroll	Screw	Standard	High	Premium	High ambient	Standard	Low	Reduced	Extra low	
Cooling only															0
EWAQ~ADVP	R-410A	✓		✓			✓				✓				
EWAQ~ACV3/ACW1	R-410A	✓			✓		✓				✓				
EUWA*~KBZW1	R-407C				✓		✓				✓				
EWAQ~BA*	R-410A	✓			✓		✓				✓				
EWAQ~DAYN	R-410A				✓		✓				✓				
EWAQ~E-	R-410A				✓			✓			✓	✓	✓		
EWAQ~F-	R-410A				✓		✓	✓			✓	✓	✓		
EWAQ~GZ NEW	R-410A	✓			✓			✓			✓		✓		
EWAD~E-	R-134a					✓	✓				✓	✓			
EWAD~D-	R-134a					✓	✓	✓		✓	✓	✓	✓	✓	
EWAD~BZ	R-134a	✓				✓	✓	✓			✓	✓	✓		
EWAD~TZ NEW *	R-134a	✓				✓	✓	✓			✓		✓		
EWAD~C-	R-134a					✓	✓	✓	✓		✓	✓	✓		
EWAD~CZ	R-134a	✓				✓		✓			✓	✓	✓		
EWAD~DZ NEW *	R-134a	✓				✓		✓			✓	✓		✓	
EWAD~CF	R-134a		✓			✓		✓			✓	✓	✓		
Heat pump															0
EWYQ~ADVP	R-410A	✓		✓			✓				✓				
EWYQ~ACV3/ACW1	R-410A	✓			✓		✓				✓				
EUWY*~KBZW1	R-407C				✓		✓				✓				
EWYQ~BA*	R-410A	✓			✓		✓				✓				
EWYQ~DAYN	R-410A				✓		✓				✓				
EWYQ~F NEW	R-410A				✓			✓			✓	✓	✓		
EWYQ~GZ NEW	R-410A	✓			✓			✓			✓		✓		
EWYD~BZ	R-134a	✓				✓	✓				✓	✓			
Condensing unit															0
ERAD~E-	R-134a					✓	✓				✓	✓			

* : preliminary

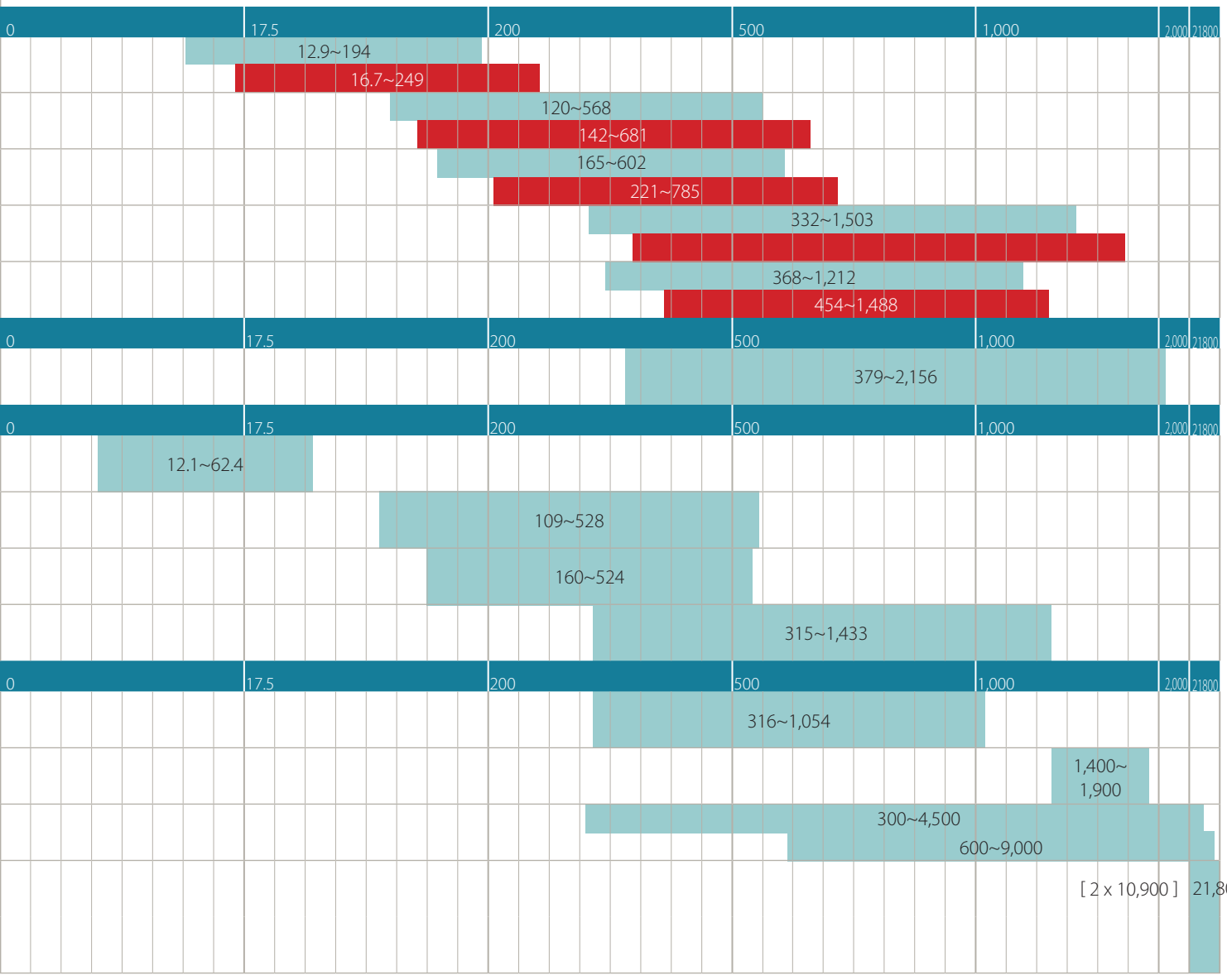
Capacity classes (kW)



Products overview - water cooled and condenserless units

	Refrigerant	Inverter	Compressor			Efficiency version		Sound version
			Scroll	Screw	Centrifugal	Standard	High	Standard
Water cooled chillers (Cooling only & Heating only)								
EWWP~KBW1N 	R-407C		✓			✓		✓
EWWD~J- 	R-134a			✓		✓		✓
EWWD~G- 	R-134a			✓		✓	✓	✓
EWWD~I- 	R-134a			✓		✓	✓	✓
EWWD~H- 	R-134a			✓			✓	✓
Water cooled chillers (Cooling only)								
EWWQ~B- 	R-410A			✓		✓	✓	✓
Condenserless chillers								
EWLP~KBW1N 	R-407C		✓			✓		✓
EWLD~J- 	R-134a			✓		✓		✓
EWLD~G- 	R-134a			✓		✓		✓
EWLD~I- 	R-134a			✓		✓		✓
Water cooled centrifugal chillers								
EWWD~FZ 	R-134a	✓			✓		✓	✓
DWME 	R-134a	✓			✓		✓	✓
DWSC DWDC 	R-134a	optional			✓		✓	✓
6,000 RT NEW CENTRIFUGAL 	R-134a				✓		✓	✓

Capacity classes (kW)



EWAQ-ADVP/ACV3/ACW1

Air cooled mini inverter chiller

EWAQ-ADVP/ACV3/ACW1

Digital controller

INVERTER

- **High efficiency with leader-of-class ESEER**
- Low operating sound level
- Integrated hydronics
- Easy 'plug and play' installation
- Wide operating range
- Main switch accessible without removing panels (009-013)

Cooling only

EWAQ-ADVP/ACV3/ACW1					EWAQ005ADVP	EWAQ006ADVP	EWAQ007ADVP	EWAQ009ACV3	EWAQ010ACV3	EWAQ011ACV3	EWAQ009ACW1	EWAQ011ACW1	EWAQ013ACW1
Cooling capacity	Nom.			kW	5.2 (2)	6.0 (2)	7.1 (2)	12.2 (1) / 8.6 (2)	13.6 (1) / 9.6 (2)	15.7 (1) / 11.1 (2)	12.9 (1) / 9.1 (2)	15.7 (1) / 11.1 (2)	17.0 (1) / 13.3 (2)
Power input	Cooling	Nom.		kW	1.89 (2)	2.35 (2)	2.95 (2)	2.85 (1) / 2.83 (2)	3.41 (1) / 3.28 (2)	4.13 (1) / 3.90 (2)	3.08 (1) / 3.05 (2)	4.13 (1) / 3.90 (2)	5.52 (1) / 5.18 (2)
Capacity control	Method				Inverter controlled								
EER					2.75 (2)	2.55 (2)	2.41 (2)	4.27 (1) / 3.05 (2)	4.00 (1) / 2.93 (2)	3.79 (1) / 2.85 (2)	4.19 (1) / 2.99 (2)	3.79 (1) / 2.85 (2)	3.08 (1) / 2.57 (2)
ESEER					-			4.31	4.30	4.33	4.43	4.44	4.36
Dimensions	Unit	HeightxWidthxDepth		mm	805x1,190x360			1,435x1,418x382					
Weight	Unit			kg	100			180					
	Operation weight			kg	104			-					
Water heat exchanger	Type				Brazed plate								
	Water volume			l	-			1.01					
	Nominal water flow	Cooling		l/min	14.9	17.2	20.4	24.7 (2)	27.6 (2)	31.9 (2)	26.1 (2)	31.9 (2)	38.2 (2)
Air heat exchanger	Type				Tube type			Hi-XSS					
Pump	Nominal ESP unit	Cooling		kPa	49.4	45.1	38.3	58.0	54.6	49.1	56.4	49.1	40.9
Hydraulic components	Expansion vessel	Volume		l	6			10					
Compressor	Type				Hermetically sealed swing compressor			Hermetically sealed scroll compressor					
	Quantity				1								
Fan	Type				Propeller fan								
	Quantity				1			2					
	Air flow rate	Cooling	Nom.	m^3/min	-			96	100	97	-		
Fan motor	Speed	Cooling	Nom.	rpm	-			780					
		Steps			-			8					
Sound power level	Cooling	Nom.		dBA	62		63	64 (2)					66 (2)
Sound pressure level	Cooling	Nom.		dBA	48		50	51 (2)					52 (2)
	Night quiet mode	Cooling		dBA	-			45					46
Operation range	Water side	Cooling	Min.~Max.	°CDB	5~20			5~22					
	Air side	Cooling	Min.~Max.	°CDB	10~43			10~46					
Refrigerant	Type				R-410A								
	Charge			kg	1.7			2.95					
	Control				Inverter			Electronic expansion valve					
	Circuits	Quantity			1								
Piping connections	Water heat exchanger inlet / outlet				1" MBSP			G 5/4" (female)					
	Water heat exchanger drain				5/16 SAE flare			5/4"					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230						3N~/50/400		

(1) Underfloor program: cooling Ta 35°C - LWE 18°C (Dt: 5°C) (2) Fan coil program: cooling Ta 35°C - LWE 7°C (Dt: 5°C)

EUWA(N-P-B)-KBZW1

μC²SE

- Daikin scroll compressor
- Reduced installation time thanks to integrated pump and/or buffer tank
- Possibility for a 200l buffer tank
- Low operating sound level
- Easy maintenance
- Main switch
- Water flow switch
- 3 different design options available:
  - EUWAN chiller without integrated hydraulic module;
  - EUWAP chiller with integrated hydraulic module (pump, expansion vessel, hydraulic components);
  - EUWAB chiller with integrated hydraulic module (buffer tank, pump, expansion vessel, hydraulic components)

Cooling only

EUWA-KBZW1					N5	P5	B5	N8	P8	B8	N10	P10	B10	N12	P12	B12	N16	P16	B16	N20	P20	B20	N24	P24	B24
Cooling capacity	Nom.			kW	11.2	11.7		17.7	18.2		22.3	22.9		26.2	26.8		34.4	35.4		46.4	47.5		55.0	56.1	
Power input	Cooling	Nom.		kW	4.56	4.59		7.44	7.39		8.87	8.88		11.7			14.90	15.1		18.1	18.2		24.1	24.2	
Capacity steps				%	0-100												0-50-100								
EER					2.46	2.55		2.38	2.46		2.51	2.58		2.24	2.29		2.31	2.34		2.56	2.61		2.28	2.32	
Dimensions	Unit	HeightxWidthxDepth		mm	1,230x1,290x734						1,450x1,290x734						1,321x2,580x734			1,541x2,580x734					
Weight	Unit			kg	150	168	180	215	229	241	245	259	271	248	262	274	430	448	460	490	508	520	496	514	526
	Operation weight			kg	152	171	239	218	232	300	248	262	330	251	265	335	436	457	525	496	518	545	503	524	592
Water heat exchanger	Type				Brazed plate																				
	Water volume			l	1.14			1.615			1.9			2.375			2.964			3.9			4.524		
	Nominal water flow	Cooling		l/min	32			51			64			76			99			134			158		
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	24			38			43			37			22								
Air heat exchanger	Type				Cross fin coil/Hi-X tubes and PE coated waffle louvre fins																				
Hydraulic components	Expansion vessel	Volume		l	-	12		-	12		-	12		-	12		-	12		-	12		-	12	
Pump	Nominal ESP unit	Cooling		kPa	-	209		-	128		-	138		-	105		-	240		-	195			158	
Compressor	Type				Hermetically sealed scroll compressor																				
	Quantity				1												2								
Fan	Type				Axial																				
	Quantity				2												4								
Fan group	Air flow rate	Cooling	Nom.	m^3/min	160 (per 2 fans)			170 (per 2 fans)																	
Sound power level	Cooling	Nom.		dBA	67			76			78						79			81					
Operation range	Water side	Cooling	Min.~Max.	°CDB	-10~25																				
	Air side	Cooling	Min.~Max.	°CDB	-15~43																				
Refrigerant	Type				R-407C																				
	Control				Thermostatic expansion valve																				
	Circuits	Quantity			1												2								
Refrigerant circuit	Charge			kg	3.9			4.6			5.9			6.0			4.6			5.9			6.0		
Water circuit	Piping connections diameter			inch	G 1"1/4 (male)												2" male								
	Piping			inch	1-1/4"												2"								
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400																				

EWAQ-BAWN/BAWP

Air cooled scroll inverter chiller

EWAQ-BAWN/BAWP

BRC21A52

INVERTER

- High efficiency with leader-of-class ESEER
- Minimal starting currents and short payback times
- No buffer tank required for standard applications
- Daikin scroll compressor
- Large operation range (ambient temperature up to 43°C)
- EWAQ-BAWN: naked version
- EWAQ-BAWP: version with pump

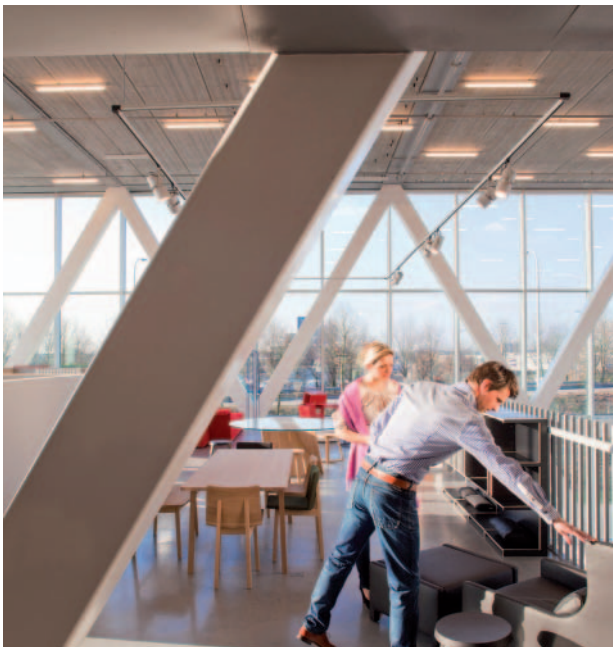
Cooling only

EWAQ-BAWN/BAWP					016		021		025		032		040		050		064	
Cooling capacity	Nom.			kW	17.4 (1)	16.6 (2)	21.7 (1)	20.7 (2)	25.8 (1)	24.7 (2)	32.3 (1)	30.9 (2)	43.4 (1)	41.5 (2)	51.8 (1)	49.7 (2)	64.5 (1)	62.3 (2)
Power input	Cooling	Nom.		kW	5.60 (1)	5.80 (2)	7.25 (1)	7.59 (2)	9.29 (1)	9.74 (2)	13.0 (1)	13.5 (2)	14.7 (1)	15.4 (2)	18.8 (1)	19.7 (2)	26.4 (1)	27.4 (2)
Capacity control	Method				Inverter controlled													
	Minimum capacity			%	25													
EER					3.11 (1)	2.86 (2)	2.99 (1)	2.73 (2)	2.78 (1)	2.54 (2)	2.48 (1)	2.29 (2)	2.95 (1)	2.69 (2)	2.76 (1)	2.52 (2)	2.44 (1)	2.27 (2)
ESEER					4.33 (1)	4.21 (2)	4.08 (1)	4.18 (2)	3.85 (1)	4.04 (2)	3.39 (1)	3.62 (2)	4.19 (1)	4.24 (2)	3.96 (1)	4.12 (2)	3.64 (1)	3.78 (2)
Dimensions	Unit	HeightxWidthxDepth		mm	1,684x1,371x774						1,684x1,684x774		1,684x2,358x780				1,684x2,980x780	
Weight	Unit			kg	264		317				397		571				730	
	Operation weight			kg	267		320				401		577				738	
Water heat exchanger	Type				Brazed plate													
	Water volume			l	1.9						2.9		3.8				5.7	
	Nominal water flow	Cooling		l/min	50		62		74		93		124		148		185	
	Nominal water pressure drop	Cooling	Total	kPa	20		30		42		30				42		30	
Air heat exchanger	Type				Hi-XSS													
Compressor	Type				Hermetically sealed scroll compressor													
	Quantity				1		2				3		4				6	
Fan	Type				Axial													
	Quantity				1						2						4	
	Air flow rate	Cooling	Nom.	m^3/min	171		185				233		370				466	
Sound power level	Cooling	Nom.		dBA	78						80		81				83	
Operation range	Water side	Cooling	Min.~Max.	°CDB	5~20													
	Air side	Cooling	Min.~Max.	°CDB	-5~43													
Refrigerant	Type				R-410A													
	Charge			kg	7.6						9.6		15.2				19.2	
	Control				Electronic expansion valve													
	Circuits	Quantity			1													
Water circuit	Piping connections diameter			inch	1-1/4" (female)								2" (female)					
	Piping			inch	1-1/4"								1-1/2"					
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400													

(1) EWAQ-BAWN: Naked version (2) EWAQ-BAWP: Version with pump

EWAQ-DAYN

PCASO



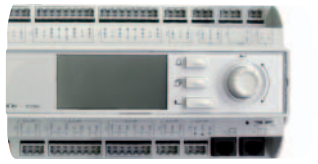
- Optimised for use with R-410A
- Reliable and efficient scroll compressors with high EER values
- Anti-corrosion treated aluminium coils
- Low operating sound level
- Easy 'plug and play' installation
- Unit dimensions allow easy transportation
- Fans protected against abnormal operation
- Safety valves in each circuit
- Electronic circuit breakers
- Electronic expansion valve
- True dual plate brazed plate heat exchanger
- Sight glass
- All hydronics can be accessed easily from 3 sides (no surrounding cabinet)
- Separate switchbox for easy access
- Compressors and controls at unit side
- Increased reliability via 2 independent refrigerant circuits
- Double circuit heat exchanger (from 100kW onwards)
- Non hermetic filter/dryer
- Daikin Pcaso controller with user friendly interface

Cooling only

EWAQ-DAYN					080	100	130	150	180	210	240	260
Cooling capacity	Nom.			kW	79.4 (1) / 81.0 (2)	104 (1) / 106 (2)	130 (1) / 133 (2)	151 (1) / 154 (2)	181 (1) / 184 (2)	208 (1) / 211 (2)	234 (1) / 238 (2)	252 (1) / 256 (2)
Power input	Cooling	Nom.		kW	27.0 (1) / 27.6 (2)	36.9 (1) / 37.2 (2)	47.4 (1) / 48.1 (2)	57.2 (1) / 57.8 (2)	65.6 (1) / 66.5 (2)	75.9 (1) / 76.6 (2)	84.4 (1) / 84.5 (2)	95.8 (1) / 95.8 (2)
Capacity steps				%	0-50-100		0-25-50-75-100		21/29-43/50/57-71/79-100	0-25-50-75-100	22/28-40/50/56-72/78-100	0-25-50-75-100
EER					2.94 (1) / 2.93 (2)	2.82 (1) / 2.85 (2)	2.74 (1) / 2.77 (2)	2.64 (1) / 2.66 (2)	2.76 (1) / 2.77 (2)	2.74 (1) / 2.75 (2)	2.77 (1) / 2.82 (2)	2.63 (1) / 2.67 (2)
ESEER					3.88 (1) / 3.82 (2)	3.79 (1) / 3.83 (2)	4.03 (1) / 3.97 (2)	3.95 (1) / 3.96 (2)	4.04 (1) / 4.02 (2)	4.00 (1) / 4.02 (2)	3.89 (1) / 4.00 (2)	3.73 (1) / 3.84 (2)
Dimensions	Unit	HeightxWidthxDepth		mm	2,311x2,000x2,566		2,311x2,000x2,631		2,311x2,000x3,081		2,311x2,000x4,850	
Weight	Unit			kg	1,350	1,400	1,500	1,550	1,800	1,850	3,150	3,250
	Operation weight			kg	1,365	1,415	1,517	1,569	1,825	1,877	3,189	3,292
Water heat exchanger	Type				Brazed plate							
	Nominal water flow	Cooling		l/min	229	301	377	436	522	599	677	728
	Nominal water pressure drop	Cooling	Total	kPa	59	58	52	49	52	53	51	47
Air heat exchanger	Type				Cross fin coil/Hi-Xss tubes and poly ethylene coated waffle fins							
Compressor	Type				Scroll compressor							
	Quantity				2		4		2	4	2	4
Compressor 2	Quantity				-				2	-	2	-
Fan	Quantity				4				6		8	
	Air flow rate	Nom.		m^3/min	780		800	860	1,290		1,600	
	Speed			rpm	880		900		970		900	
Sound power level	Cooling	Nom.		dBA	86		88	89	90		91	
Operation range	Water side	Cooling	Min.~Max.	°CDB	-10~25							
	Air side	Cooling	Min.~Max.	°CDB	-15~43							
Refrigerant	Type				R-410A							
	Control				Electronic expansion valve							
	Circuits	Quantity			1		2					
Refrigerant circuit	Charge			kg	33		19	23	31	30	40	39
Refrigerant circuit 2	Charge			kg	-		19	23	31	30	40	39
Piping connections	Water heat exchanger inlet / outlet				3" OD						3"	
	Water heat exchanger drain				1/2"G							
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400							

(1) For -N models (standard) (2) For -P models (with optional pump / + OPSP) and for -B models (with optional pump and buffertank / + OPSP + OPBT)

EWAQ-E-



MicroTech III

- Reliable and efficient scroll compressors with high EER values
- A series of advantages thanks to the use of large-capacity scroll compressors: increased competitiveness, reduced weight, clearances around the unit
- Reduced footprint thanks to the V-shaped frame
- Large operation range: ambient temperatures up to 52°C and down to -18°C
- Ideal solution for a broad range of comfort and process applications
- The unit can be equipped with a hydraulic module optimizing installation time, space and cost
- MicroTech III controller with superior control logic and easy interface

Cooling only

High efficiency
Standard/low sound

EWAQ-E-XS/XL					180	200	230	260	320	340
Cooling capacity	Nom.			kW	178	200	226	263	315	334
Power input	Cooling	Nom.		kW	58.0	65.3	73.8	86.2	103	110
Capacity control	Method				Step					
	Minimum capacity			%	50	43	50	33	27	33
EER					3.06			3.05		
ESEER					3.99	4.06	3.87	4.09		4.04
Dimensions	Unit	HeightxWidthxDepth		mm	2,271x1,224x4,413		2,271x1,224x5,313		2,271x1,224x6,213	
Weight (XS)	Unit			kg	1,722	1,807	1,871	2,173	2,304	2,492
	Operation weight			kg	1,734	1,819	1,885	2,188	2,318	2,507
Weight (XL)	Unit			kg	1,876	1,965	2,032	2,370	2,507	2,705
	Operation weight			kg	1,889	1,978	2,047	2,385	2,522	2,719
Water heat exchanger	Type				Plate heat exchanger					
	Water volume			l	12		14			
	Nominal water flow	Cooling		l/s	8.5	9.6	10.8	12.6	15.1	16.0
	Nominal water pressure drop	Cooling	Total	kPa	27	34	35	47		54
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler					
Compressor	Type				Scroll compressor					
	Quantity				2			3		
Fan	Type				Direct propeller					
	Quantity				4		5		6	
	Air flow rate	Nom.		l/s	21,845	21,148	26,874	25,884	32,953	32,065
	Speed			rpm	900					
Sound power level (XS)	Cooling	Nom.		dBA	93	94	96	95	96	97
Sound power level (XL)	Cooling	Nom.		dBA	91	92	93	92	93	94
Sound pressure level (XS)	Cooling	Nom.		dBA	75	76			77	
Sound pressure level (XL)	Cooling	Nom.		dBA	73				74	
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~18					
	Air side	Cooling	Min.~Max.	°CDB	-18~52					
Refrigerant	Type				R-410A					
	Circuits	Quantity			1					
Refrigerant circuit	Charge			kg	15	18	16	21		26
Piping connections	Evaporator water inlet/outlet (OD)				3"					
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAQ-E-XR

Cooling only

High efficiency
Reduced sound

EWAQ-E-XR					170	190	220	260	300	320
Cooling capacity	Nom.			kW	172	193	219	254	302	321
Power input	Cooling	Nom.		kW	56.5	64.4	71.8	85.4	102	109
Capacity control	Method				Step					
	Minimum capacity			%	50	43	50	33	27	33
EER					3.05	3.00	3.05	2.97	2.96	2.95
ESEER					4.41	4.48	4.27	4.54	4.52	4.43
Dimensions	Unit	HeightxWidthxDepth		mm	2,271x1,224x4,413		2,271x1,224x5,313		2,271x1,224x6,213	
Weight	Unit			kg	1,970	2,064	2,134	2,489	2,632	2,840
	Operation weight			kg	1,982	2,076	2,148	2,503	2,647	2,855
Water heat exchanger	Type				Plate heat exchanger					
	Water volume			l	12		14			
	Nominal water flow	Cooling		l/s	8.2	9.2	10.5	12.1	14.5	15.4
	Nominal water pressure drop	Cooling	Total	kPa	26	32	33	44	43	50
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler					
Compressor	Type				Scroll compressor					
	Quantity				2			3		
Fan	Type				Direct propeller					
	Quantity				4		5		6	
	Air flow rate	Nom.		l/s	16,743	16,285	20,618	20,056	25,243	24,604
	Speed			rpm	705					
Sound power level	Cooling	Nom.		dBA	85	86	87	86	88	89
Sound pressure level	Cooling	Nom.		dBA	66	67	68	67	68	69
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~18					
	Air side	Cooling	Min.~Max.	°CDB	-18~52					
Refrigerant	Type				R-410A					
	Circuits	Quantity			1					
Refrigerant circuit	Charge			kg	15	18	16	21		26
Piping connections	Evaporator water inlet/outlet (OD)				3"					
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAQ-F-SS/SL

Air cooled multi-scroll chiller

V-shape

EWAQ-F-SS/SL
EWAQ-F-SR

W-shape

EWAQ-F-SS/SL
EWAQ-F-SR

MicroTech III

- Reliable and efficient scroll compressors with high EER values
- A series of advantages thanks to the use of large-capacity scroll compressors: increased competitiveness, reduced weight, clearances around the unit
- 1-2 truly independent refrigerant circuits
- Reduced footprint thanks to the V-shaped frame
- Large operation range: ambient temperatures up to 52°C and down to -18°C
- The unit can be equipped with a hydraulic module optimizing installation time, space and cost
- Ideal solution for a broad range of comfort and process applications
- MicroTech III controller with superior control logic and easy interface

Cooling only

Standard efficiency
Standard/low sound

EWAQ-F-SS/SL					210	230	250	280	320	350	360	400	410	480	550	610
Cooling capacity	Nom.			kW	206	224	247	283	313	359		407		480	551	609
Power input	Cooling	Nom.		kW	73.3	84.9	93.6	109	122	141		154		187	207	229
Capacity control	Method				Step											
	Minimum capacity			%	25	22	25	23	25	21		25		17	14	17
EER					2.81	2.64		2.60	2.58	2.55		2.64		2.57	2.67	2.66
ESEER					3.75	3.72	3.74	3.66	3.67	3.74	4.00	3.78	4.01	4.10	4.00	3.99
Dimensions	Unit	HeightxWidthxDepth		mm	2,271x1,224x4,413			2,271x1,224x5,313		2,271x1,224x6,213	2,221x2,258x3,210	2,447x1,224x6,213	2,397x2,258x3,210	2,221x2,258x4,110	2,221x2,258x5,010	
Weight (SS)	Unit			kg	2,058	2,130		2,202	2,284	2,409	2,509	2,659	2,759	2,990	3,336	3,558
	Operation weight			kg	2,070	2,142		2,216	2,298	2,424	2,524	2,699	2,799	3,036	3,382	3,604
Weight (SL)	Unit			kg	2,297	2,373		2,449	2,535	2,666	2,766	2,968	3,068	3,315	3,679	3,912
	Operation weight			kg	2,309	2,385		2,463	2,549	2,681	2,781	3,008	3,108	3,362	3,725	3,958
Water heat exchanger	Type				Plate heat exchanger											
	Water volume			l	12			14				40		46		
	Nominal water flow	Cooling		l/s	9.9	10.7	11.8	13.6	15.0	17.2		19.5		23.0	26.4	29.2
	Nominal water pressure drop	Cooling	Total	kPa	37	43	53	56	69	30		32		35	46	56
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler											
Compressor	Type				Scroll compressor											
	Quantity				4									6		
Fan	Type				Direct propeller											
	Quantity				4			5		6				8	10	
	Air flow rate	Nom.		l/s	21,845		21,148	27,306	26,435	32,767		32,513		43,690	54,612	52,870
	Speed			rpm	900											
Sound power level (SS)	Cooling	Nom.		dBA	93	94		95		97					99	
Sound power level (SL)	Cooling	Nom.		dBA	91	92		93		94				95	96	
Sound pressure level (SS)	Cooling	Nom.		dBA	75		76			77	78				79	
Sound pressure level (SL)	Cooling	Nom.		dBA	73					74	75	74	75		76	
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~18											
	Air side	Cooling	Min.~Max.	°CDB	-18~52											
Refrigerant	Type				R-410A											
	Circuits	Quantity			2											
Refrigerant circuit	Charge			kg	18				21	24				34	40	46
Piping connections	Evaporator water inlet/outlet (OD)				3"											
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

EWAQ-F-SR

Standard efficiency
Reduced sound

Cooling only

EWAQ-F-SR					200	220	240	270	300	330	340	370	380	460	530	580
Cooling capacity	Nom.			kW	198	214	235	270	298	341		383		456	527	580
Power input	Cooling	Nom.		kW	73.4	86.0	95.6	110	125	144		159		191	208	233
Capacity control	Method				Step											
	Minimum capacity			%	25	22	25	23	25	21		25		17	14	17
EER					2.70	2.49	2.46	2.45	2.38	2.37		2.41		2.39	2.53	2.49
ESEER					4.20	4.12	4.04	4.06	3.95	4.09	4.25	4.02	4.15	4.49	4.42	4.33
Dimensions	Unit	HeightxWidthxDepth		mm	2,271x1,224x4,413			2,271x1,224x5,313		2,271x1,224x6,213	2,221x2,258x3,210	2,447x1,224x6,213	2,397x2,258x3,210	2,221x2,258x4,110	2,221x2,258x5,010	
Weight	Unit			kg	2,412		2,491	2,571	2,661	2,799	2,899	3,116	3,216	3,481	3,863	4,108
	Operation weight			kg	2,424		2,504	2,585	2,676	2,814	2,914	3,156	3,256	3,527	3,909	4,154
Water heat exchanger	Type				Plate heat exchanger											
	Water volume			l	12			14				40		46		
	Nominal water flow	Cooling		l/s	9.5	10.2	11.3	13.0	14.3	16.3		18.3		21.8	25.2	27.8
	Nominal water pressure drop	Cooling	Total	kPa	34	40	48	51	63	27		29		31	42	51
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler											
Compressor	Type				Scroll compressor											
	Quantity				4									6		
Fan	Type				Direct propeller											
	Quantity				4			5		6				8	10	
	Air flow rate	Nom.		l/s	16,743		16,285	20,929	20,356	25,115		24,922		33,487	41,858	40,713
	Speed			rpm	705											
Sound power level	Cooling	Nom.		dBA	85	86		87		89		90		89	91	92
Sound pressure level	Cooling	Nom.		dBA	66	67		68		69	70		71	70	71	72
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~18											
	Air side	Cooling	Min.~Max.	°CDB	-18~52											
Refrigerant	Type				R-410A											
	Circuits	Quantity			2											
Refrigerant circuit	Charge			kg	18				21	24				34	40	46
Piping connections	Evaporator water inlet/outlet (OD)				3"											
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

EWAQ-F-XS/XL

Air cooled multi-scroll chiller

V-shape

EWAQ-F-XS/XL
EWAQ-F-XR

W-shape

EWAQ-F-XS/XL
EWAQ-F-XR

MicroTech III

- Reliable and efficient scroll compressors with high EER values
- A series of advantages thanks to the use of large-capacity scroll compressors: increased competitiveness, reduced weight, clearances around the unit
- 1-2 truly independent refrigerant circuits
- Reduced footprint thanks to the V-shaped frame
- Large operation range: ambient temperatures up to 52°C and down to -18°C
- The unit can be equipped with a hydraulic module optimizing installation time, space and cost
- Ideal solution for a broad range of comfort and process applications
- MicroTech III controller with superior control logic and easy interface

Cooling only

High efficiency
Standard/low sound

EWAQ-F-XS/XL					170	200	220	250	310	320	350	360	400	430	450	520	610	680
Cooling capacity	Nom.			kW	170	194	220	244	316		356		403	428	457	528	607	672
Power input	Cooling	Nom.		kW	54.8	62.2	70.6	78.3	102		115		130	137	146	170	198	219
Capacity control	Method				Step													
	Minimum capacity			%	25	21	25	22	23		25		21	20	25	17	14	17
EER					3.11	3.13	3.12		3.09				3.10	3.12		3.10	3.07	
ESEER					3.89	4.08	3.91	4.03	4.05	4.30	4.06	4.33	4.22	4.26	4.22	4.29	4.24	4.14
Dimensions	Unit	HeightxWidthxDepth		mm	2,271x1,224x4,413		2,271x1,224x5,313		2,271x1,224x6,213	2,221x2,258x3,210	2,271x1,224x6,213	2,221x2,258x3,210	2,221x2,258x4,110			2,221x2,258x5,010		2,221x2,258x5,910
Weight (XS)	Unit			kg	1,688	1,958	2,210	2,339	2,500	2,600	2,632	2,732	2,744	2,845	2,861	3,569	3,667	4,054
	Operation weight			kg	1,700	1,973	2,225	2,353	2,514		2,672	2,772	2,784	2,891	2,907	3,615	3,727	4,115
Weight (XL)	Unit			kg	1,909	2,193	2,457	2,592	2,761	2,861	2,900	3,000	3,017	3,124	3,141	3,923	4,026	4,434
	Operation weigh			kg	1,921	2,207	2,472	2,607	2,776	2,876	2,940	3,040	3,057	3,170	3,187	3,970	4,087	4,494
Water heat exchanger	Type				Plate heat exchanger													
	Water volume			l	12			14			40			46			60	
	Nominal water flow	Cooling		l/s	8.2	9.3	10.5	11.7	15.1		17.0		19.3	20.5	21.8	25.3	29.0	32.2
	Nominal water pressure drop	Cooling	Total	kPa	25	27	34	42	22		23		31	29	30	41	44	55
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler													
Compressor	Type				Scroll compressor													
	Quantity				4											6		
Fan	Type				Direct propeller													
	Quantity				4		5		6				8			10		12
	Air flow rate	Nom.		l/s	21,845	21,148	26,874	25,204	31,722		30,245	30,245	42,296	40,326		50,408		60,489
	Speed			rpm	900													
Sound power level (XS)	Cooling	Nom.		dBA	91	93	94	95	96				97	98		99	100	
Sound power level (XL)	Cooling	Nom.		dBA	90	91	92		93				95			96	97	
Sound pressure level (XS)	Cooling	Nom.		dBA	72	74	75	76	77		76	77	78	79		78	79	
Sound pressure level (XL)	Cooling	Nom.		dBA	71	73			74				75			76		
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~18													
	Air side	Cooling	Min.~Max.	°CDB	-18~52													
Refrigerant	Type				R-410A													
	Circuits	Quantity			2													
Refrigerant circuit	Charge			kg	14	18		21	24				35			40		46
Piping connections	Evaporator water inlet/outlet (OD)				3"													
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

EWAQ-F-XR

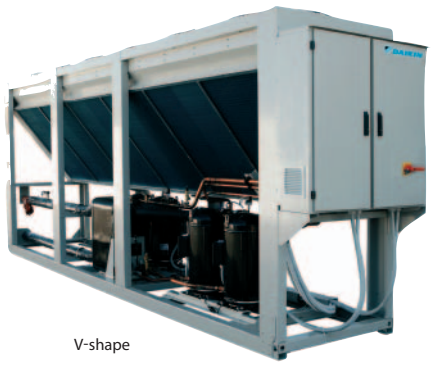
Cooling only

High efficiency
Reduced sound

EWAQ-F-XR					170	190	210	240	300	310	330	340	390	410	430	500	580	650
Cooling capacity	Nom.			kW	165	188	211	236	304		340		385	407	433	502	579	645
Power input	Cooling	Nom.		kW	53.0	61.2	68.7	77.3	101		117		128	136	146	170	200	219
Capacity control	Method				Step													
	Minimum capacity			%	25	21	25	22	23		25		21	20	25	17	14	17
EER					3.12	3.07	3.08	3.05	3.00		2.92		3.01	2.99	2.96		2.90	2.95
ESEER					4.49	4.59	4.45	4.51	4.53	4.67	4.45	4.62	4.65	4.62	4.53	4.75	4.63	4.54
Dimensions	Unit	HeightxWidthxDepth		mm	2,271x1,224x4,413		2,271x1,224x5,313		2,271x1,224x6,213	2,221x2,258x3,210	2,271x1,224x6,213	2,221x2,258x3,210	2,221x2,258x4,110			2,221x2,258x5,010		2,221x2,258x5,910
Weight	Unit			kg	2,004	2,303	2,580	2,722	2,900	3,000	3,045	3,145	3,168	3,280	3,298	4,120	4,228	4,655
	Operation weight			kg	2,017	2,317	2,594	2,736	2,914	3,014	3,085	3,185	3,208	3,326	3,344	4,166	4,288	4,716
Water heat exchanger	Type				Plate heat exchanger													
	Water volume			l	12	14					40			46			60	
	Nominal water flow	Cooling		l/s	7.9	9.0	10.1	11.3	14.5		16.3		18.4	19.5	20.7	24.0	27.7	30.9
	Nominal water pressure drop	Cooling	Total	kPa	24	25	31	39	21				28	26	27	38	40	51
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler													
Compressor	Type				Scroll compressor													
	Quantity				4											6		
Fan	Type				Direct propeller													
	Quantity				4		5		6				8			10		12
	Air flow rate	Nom.		l/s	16,743	16,285	20,618	19,522	24,428		23,426		32,570	31,235		39,044		46,852
	Speed			rpm	705													
Sound power level	Cooling	Nom.		dBA	83	84	85	86	87				89		90	89	90	92
Sound pressure level	Cooling	Nom.		dBA	64	65	66	67		68	67	68	69	70		69	70	71
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~18													
	Air side	Cooling	Min.~Max.	°CDB	-18~52													
Refrigerant	Type				R-410A													
	Circuits	Quantity			2													
Refrigerant circuit	Charge			kg	14	18		21	24				35			40		46
Piping connections	Evaporator water inlet/outlet (OD)				3"													
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

EWAQ-GZXS

Air cooled multi-scroll inverter chiller



V-shape

EWAQ-GZ

W-shape

EWAQ-GZ

MicroTech III

- In-house designed DC-inverter scroll compressor, unique in the market and based on the latest Daikin technology development
- Built-in redundancy (up to 12 compressors)
- Highest ESEER in its class (up to 5)
- Low inrush current
- Seasonal quietness

INVERTER

Cooling only

High efficiency
Standard sound

EWAQ-GZXS					210	270	320	340	400
Cooling capacity	Nom.			kW	201	270	323	340	395
Power input	Cooling	Nom.		kW	72.5	94.0	122	117	144
Capacity control	Method				Stepless				
	Minimum capacity			%	14.4	14.3	14.9	14.3	14.8
EER					2.77	2.87	2.64	2.92	2.75
ESEER					4.79	4.89	4.90	4.77	4.78
Dimensions	Unit	HeightxWidthxDepth		mm	2,270x1,290x4,450	2,223x2,234x3,560		2,223x2,234x4,460	
Weight	Unit			kg	1,600	2,100	2,150	2,400	2,500
	Operation weight			kg	1,677	2,233	2,297	2,575	2,688
Water heat exchanger	Type				Plate heat exchanger				
	Water volume			l	29	61	75	79	92
	Nominal water flow	Cooling		l/s	9.6	12.9	15.4	16.3	18.9
	Nominal water pressure drop	Cooling	Total	kPa	27	14	15	16	18
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler				
Compressor	Type				DC Inverter Scroll				
	Quantity				6	8	10		12
Fan	Type				Direct propeller				
	Quantity				4	6		8	
	Air flow rate	Nom.		l/s	17,473	26,209		34,946	
	Speed			rpm	920				
Sound power level	Cooling	Nom.		dBA	92	94		96	
Sound pressure level	Cooling	Nom.		dBA	75	78			79
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~20				
	Air side	Cooling	Min.~Max.	°CDB	-18~43				
Refrigerant	Type				R-410A				
	Circuits	Quantity			1	2			
Refrigerant circuit	Charge			kg	48	72		96	
Piping connections	Evaporator water inlet/outlet (OD)				2.5"	4.5"			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				

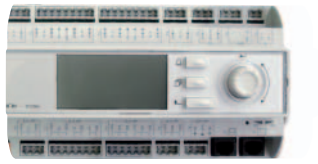
EWAQ-GZXR

Cooling only

High efficiency
Reduced sound

EWAQ-GZXR					190	270	320	340	390
Cooling capacity	Nom.			kW	196	264	315	334	386
Power input	Cooling	Nom.		kW	73.3	94.8	124	117	145
Capacity control	Method				Stepless				
	Minimum capacity			%	14.4	14.3	14.9	14.3	14.8
EER					2.68	2.79	2.53	2.86	2.65
ESEER					4.88	4.95	5.05	5.07	
Dimensions	Unit	HeightxWidthxDepth		mm	2,270x1,290x4,450	2,223x2,234x3,560		2,223x2,234x4,460	2,223x2,241x4,460
Weight	Unit			kg	1,618	2,124	2,180	2,430	2,536
	Operation weight			kg	1,695	2,257	2,327	2,605	2,724
Water heat exchanger	Type				Plate heat exchanger				
	Water volume			l	29	61	75	79	92
	Nominal water flow	Cooling		l/s	9.4	12.6	15.0	16.0	18.5
	Nominal water pressure drop	Cooling	Total	kPa	26	14	15		17
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler				
Compressor	Type				DC Inverter Scroll				
	Quantity				6	8	10		12
Fan	Type				Direct propeller				
	Quantity				4	6		8	
	Air flow rate	Nom.		l/s	15,131	22,697		30,263	
	Speed			rpm	715				
Sound power level	Cooling	Nom.		dBA	89	91		92	
Sound pressure level	Cooling	Nom.		dBA	72	74		75	
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~20				
	Air side	Cooling	Min.~Max.	°CDB	-18~43				
Refrigerant	Type				R-410A				
	Circuits	Quantity			1	2			
Refrigerant circuit	Charge			kg	48	72		96	
Piping connections	Evaporator water inlet/outlet (OD)				2.5″	4.5″			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				

EWAD140,160E-SS
EWAD130,160E-SL



MicroTech III

- One refrigerant circuit with single screw compressor
- Compact design with brazed plate heat exchanger
- Large operation range (ambient temperature down to -18°C)
- Water supply down to -15°C

Cooling only

Standard efficiency
Standard sound

EWAD-E-SS					100	120	140	160	180	210	260	310	360	410
Cooling capacity	Nom.			kW	101	121	138	163	183	213	255	306	359	411
Power input	Cooling	Nom.		kW	39.0	47.5	53.9	60.9	69.0	72.4	87.8	112.1	134.3	147
Capacity control	Method				Stepless									
	Minimum capacity			%	25									
EER					2.58	2.54	2.55	2.67	2.64	2.95	2.90	2.73	2.67	2.80
ESEER					2.84		2.67	2.86	2.75	2.96	3.07	2.94	3.11	3.22
Dimensions	Unit	HeightxWidthxDepth		mm	2,273x1,292x2,165		2,273x1,292x3,065		2,273x1,292x3,965		2,223x2,236x3,070			
Weight	Unit			kg	1,684		1,861		2,086		2,919			
	Operation weight			kg	1,699		1,881		2,116		2,963			
Water heat exchanger	Type				Plate heat exchanger									
	Water volume			l	12	15	17	20	24	30	25	30	36	44
	Nominal water flow	Cooling		l/s	4.8	5.8	6.6	7.8	8.7	10.2	12.2	14.6	17.2	19.7
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	24	25	23	24	22	21	47	48		45
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler									
Compressor	Type				Semi-hermetic single screw compressor						asymmetric single screw compressor			
	Quantity				1									
Fan	Type				Direct propeller									
	Quantity				2		3		4		6			
	Air flow rate	Nom.		l/s	10,924	10,576	16,386	15,865	21,848	21,153	32,772		31,729	
	Speed			rpm	900									
Sound power level	Cooling	Nom.		dBA	92				93		94			95
Sound pressure level	Cooling	Nom.		dBA	74						75			76
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~15									
	Air side	Cooling	Min.~Max.	°CDB	-18~48									
Refrigerant	Type				R-134a									
	Charge			kg	18	21	23	28	30	33	46		56	60
	Circuits	Quantity			1									
Piping connections	Evaporator water inlet/outlet (OD)				3"									
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

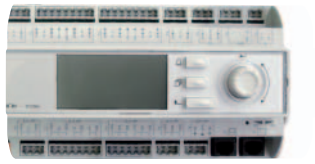
EWAD-E-SL

Standard efficiency
Low sound

Cooling only

EWAD-E-SL					100	120	130	160	180	210	250	300	350	400
Cooling capacity	Nom.			kW	98	116	134	157	177	208	248	295	344	397
Power input	Cooling	Nom.		kW	39.2	48.3	53.4	60.8	68.3	72.8	85.4	111.2	135.0	152
Capacity control	Method				Stepless									
	Minimum capacity			%	25									
EER					2.49	2.39	2.50	2.57	2.59	2.86	2.90	2.65	2.55	2.62
ESEER					2.92	2.89	2.78	2.92	3.00	3.24	3.41	3.28	3.22	3.33
Dimensions	Unit	HeightxWidthxDepth		mm	2,273x1,292x2,165		2,273x1,292x3,065		2,273x1,292x3,965		2,223x2,236x3,070			
Weight	Unit			kg	1,784		1,961		2,186		3,029			
	Operation weight			kg	1,799		1,981		2,216		3,073			
Water heat exchanger	Type				Plate heat exchanger									
	Water volume			l	12	15	17	20	24	30	25	30	36	44
	Nominal water flow	Cooling		l/s	4.7	5.5	6.4	7.5	8.4	10.0	11.9	14.1	16.5	19.0
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	23		22	23	21	20	45		44	42
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler									
Compressor	Type				Semi-hermetic single screw compressor						asymmetric single screw compressor			
	Quantity				1									
Fan	Type				Direct propeller									
	Quantity				2		3		4		6			
	Air flow rate	Nom.		l/s	8,373	8,144	12,560	12,216	16,747	16,288	25,120		24,432	
	Speed			rpm	700									
Sound power level	Cooling	Nom.		dBA	89		90				92			93
Sound pressure level	Cooling	Nom.		dBA	71					73				74
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~15									
	Air side	Cooling	Min.~Max.	°CDB	-18~48									
Refrigerant	Type				R-134a									
	Charge			kg	18	21	23	28	30	33	46		56	60
	Circuits	Quantity			1									
Piping connections	Evaporator water inlet/outlet (OD)				3"									
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

EWAD-D-SS



MicroTech III

- Dual refrigerant circuit with stepless single-screw compressor
- **Standard sound level configuration:** condenser fan rotating at 890 rpm, rubber antivibration under compressor
- **Low sound level configuration:** condenser fan rotating at 900 rpm (EWAD180-370D-SL) and 705 rpm (EWAD400-530D-SL), rubber anti-vibration under compressor
- Stepless single-screw compressor
- Optimised for use with R-134a
- Large operation range (ambient temperature down to -18°C)
- MicroTech III controller with superior control logic and easy interface

Cooling only

Standard efficiency
Standard sound

EWAD-D-SS					390	440	470	510	530	560	580
Cooling capacity	Nom.			kW	388	435	463	500	529	553	575
Power input	Cooling	Nom.		kW	154	165	169	186	196	207	199
Capacity control	Method				Stepless						
	Minimum capacity			%	13						
EER					2.52	2.63	2.74	2.70		2.67	2.89
ESEER					3.24	3.42	3.36	3.38	3.37	3.40	3.26
Dimensions	Unit	HeightxWidthxDepth		mm	2,223x2,234x3,139	2,223x2,234x4,040					
Weight	Unit			kg	2,960	4,030	4,220	4,230			4,235
	Operation weight			kg	3,090	4,195	4,395				
Water heat exchanger	Type				Single pass shell & tube						
	Water volume			l	130	165	175	165			160
	Nominal water flow	Cooling		l/s	18.6	20.8	22.2	24.0	25.4	26.5	27.6
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	46	38	67	47	52	57	51
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler						
Compressor	Type				Semi-hermetic single screw compressor	asymmetric single screw compressor					
	Quantity				2						
Fan	Type				Direct propeller						
	Quantity				6		8				
	Air flow rate	Nom.		l/s	32,772	31,729	43,696				42,306
	Speed			rpm	890						
Sound power level	Cooling	Nom.		dBA	96	97			98	99	
Sound pressure level	Cooling	Nom.		dBA	77				79		
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~15						
	Air side	Cooling	Min.~Max.	°CDB	-18~48						
Refrigerant	Type				R-134a						
	Circuits	Quantity			2						
Refrigerant circuit	Charge			kg	56	60	70	76	82	87	92
Piping connections	Evaporator water inlet/outlet (OD)				5.5"						
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

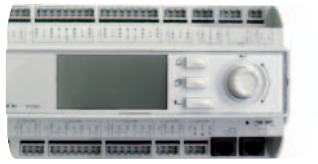
EWAD-D-SL

Standard efficiency
Low sound

Cooling only

EWAD-D-SL					180	200	230	250	260	280	300	320	370	400	440	480	510	530
Cooling capacity	Nom.			kW	183	197	224	244	260	274	297	320	368	402	438	475	503	531
Power input	Cooling	Nom.		kW	82.0	80.2	85.6	94.4	102	109	121	125	135	171	172	188	205	197
Capacity control	Method				Stepless													
	Minimum capacity			%	13													
EER					2.24	2.46	2.62	2.58	2.54	2.50	2.46	2.56	2.72	2.36	2.55	2.53	2.46	2.70
ESEER					2.91	3.04	3.15	3.08	3.12	3.08	3.05	3.10	3.23	3.49	3.48	3.41	3.51	3.62
Dimensions	Unit	HeightxWidthxDepth		mm	2,355x2,234x2,239		2,355x2,234x3,139					2,355x2,234x4,040		2,223x2,234x4,040				
Weight	Unit			kg	2,475	2,470	2,860					3,187		4,030	4,220	4,230		4,235
	Operation weight			kg	2,500		2,960					3,300		4,195	4,395			
Water heat exchanger	Type				Plate heat exchanger		Single pass shell & tube											
	Water volume			l	25	30	100					130		165	170		165	160
	Nominal water flow	Cooling		l/s	8.8	9.4	10.7	11.7	12.5	13.1	14.2	15.3	17.7	19.3	21.0	22.8	24.1	25.4
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	29	22	58	49	54	59	60	55	67	48	62	54	48	43
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler													
Compressor	Type				Semi-hermetic single screw compressor									asymmetric single screw compressor				
	Quantity				2													
Fan	Type				Direct propeller													
	Quantity				4		6					8		6	8			
	Air flow rate	Nom.		l/s	15,295	14,868	22,943		22,623	22,302		30,591		24,432	33,494			32,576
	Speed			rpm	900									705				
Sound power level	Cooling	Nom.		dBA	94							95	97	94			96	
Sound pressure level	Cooling	Nom.		dBA	75								78	75			76	77
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~15													
	Air side	Cooling	Min.~Max.	°CDB	-18~48													
Refrigerant	Type				R-134a													
	Circuits	Quantity			2													
Refrigerant circuit	Charge			kg	36	42	48	50	54	58			66	70	76	82	84	86
Piping connections	Evaporator water inlet/outlet (OD)				3"		4"					5"						
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

EWAD-D-SR



MicroTech III

- Dual refrigerant circuit with stepless single-screw compressor
- **Reduced sound level configuration:** condenser fan rotating at 680 rpm (EWAD180-370D-SR) and 705 rpm (EWAD400-530D-SR), rubber anti-vibration under compressor, compressor sound enclosure.
- **Extra low sound level configuration:** condenser fan rotating at 500 rpm, rubber anti-vibration under compressor, compressor and evaporator sound enclosure
- Stepless single-screw compressor
- Optimised for use with R-134a
- Large operation range (ambient temperature down to -18°C)
- MicroTech III controller with superior control logic and easy interface

Standard efficiency
Reduced sound
Cooling only

EWAD-D-SR					180	190	220	240	250	270	280	310	370	400	440	480	510	530
Cooling capacity	Nom.			kW	177	190	218	237	251	263	277	310	364	402	438	475	503	531
Power input	Cooling	Nom.		kW	84.5	83.1	86.2	95.6	104	112	123	127	140	171	172	188	205	197
Capacity control	Method				Stepless													
	Minimum capacity			%	13													
EER					2.09	2.28	2.53	2.48	2.41	2.34	2.25	2.45	2.60	2.36	2.55	2.53	2.46	2.70
ESEER					2.81	2.93	3.18	3.08	3.09	3.02	2.99	3.11	3.25	3.49	3.48	3.41	3.51	3.62
Dimensions	Unit	HeightxWidthxDepth		mm	2,355x2,234x2,239		2,355x2,234x3,139					2,355x2,234x4,040		2,223x2,234x4,040				
Weight	Unit			kg	2,620		2,890					3,335		4,040	4,240			
	Operation weight			kg	2,650		3,100					3,450		4,342	4,542			
Water heat exchanger	Type				Plate heat exchanger		Single pass shell & tube											
	Water volume			l	25	30	100					130		165	170		165	160
	Nominal water flow	Cooling		l/s	8.5	9.1	10.4	11.3	12.0	12.6	13.3	14.9	17.4	19.3	21.0	22.8	24.1	25.4
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	27	20	55	47	51	55		53	65	48	62	54	48	43
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler													
Compressor	Type				Semi-hermetic single screw compressor									asymmetric single screw compressor				
	Quantity				2													
Fan	Type				Direct propeller													
	Quantity				4		6					8		6	8			
	Air flow rate	Nom.		l/s	12,389	11,928	18,583		18,237	17,892		24,777		24,432	33,494			32,576
	Speed			rpm	680									705				
Sound power level	Cooling	Nom.		dBA	89							90	92	91			92	93
Sound pressure level	Cooling	Nom.		dBA	70								73	71			73	
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~15													
	Air side	Cooling	Min.~Max.	°CDB	-18~48													
Refrigerant	Type				R-134a													
	Charge			kg	36	42	48	50	54	58			66	70	76	82	84	86
	Circuits	Quantity			2													
Piping connections	Evaporator water inlet/outlet (OD)				3"		4"					5"						
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

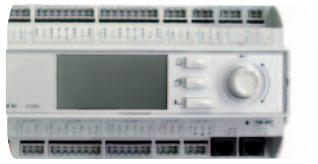
EWAD-D-SX

Standard efficiency
Extra low sound

Cooling only

EWAD-D-SX					210	230	250	270	290	300	310	370	410	450	490
Cooling capacity	Nom.			kW	202	230	252	270	285	298	308	369	412	449	490
Power input	Cooling	Nom.		kW	80.8	86.0	94.4	105	115	127	137	150	171	175	189
Capacity control	Method				Stepless										
	Minimum capacity			%	13										
EER					2.50	2.68	2.67	2.56	2.47	2.35	2.25	2.46	2.41	2.56	2.60
ESEER					3.24	3.50	3.39	3.42	3.32	3.27	3.14	3.12	3.35	3.45	3.44
Dimensions	Unit	HeightxWidthxDepth		mm	2,420x2,234x3,139	2,420x2,234x4,040								2,420x2,234x4,940	
Weight	Unit			kg	3,110	3,475		3,425	3,430			3,560	4,302	4,506	4,581
	Operation weight			kg	3,200	3,590						3,735	4,472	4,676	4,746
Water heat exchanger	Type				Single pass shell & tube										
	Water volume			l	90	115		165	160			175	170		165
	Nominal water flow	Cooling		l/s	9.7	11.0	12.1	12.9	13.7	14.3	14.7	17.7	19.7	21.5	23.5
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	45	34	38		35	38	41	45	44	50	45
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										
Compressor	Type				Semi-hermetic single screw compressor							asymmetric single screw compressor			
	Quantity				2										
Fan	Type				Direct propeller										
	Quantity				6	8								9	10
	Air flow rate	Nom.		l/s	12,876	17,893	17,169					26,496		28,981	33,120
	Speed			rpm	500										
Sound power level	Cooling	Nom.		dBA	84	85								86	
Sound pressure level	Cooling	Nom.		dBA	65									66	
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~15										
	Air side	Cooling	Min.~Max.	°CDB	-18~48										
Refrigerant	Type				R-134a										
	Circuits	Quantity			2										
Refrigerant circuit	Charge			kg	56		60					65	70	76	82
Piping connections	Evaporator water inlet/outlet (OD)				4"							5"			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

EWAD-D-



MicroTech III

- High efficiency
- **Standard sound level configuration:** condenser fan rotating at 900 rpm (EWAD250-350D-XS) and 890 rpm (EWAD380-620D-XS), rubber anti-vibration under compressor
- **Reduced sound level configuration:** condenser fan rotating at 680 rpm (EWAD240-350D-XR) and 705 rpm (EWAD370-600D-XR), rubber antivibration under compressor, compressor sound enclosure.
- Dual refrigerant circuit with stepless single-screw compressor
- Optimised for use with R-134a
- Large operation range (ambient temperature down to -18°C)
- MicroTech III controller with superior control logic and easy interface

Cooling only

High efficiency
Standard sound

EWAD-D-XS					250	280	300	330	350	380	400	470	520	580	620
Cooling capacity	Nom.			kW	246	274	300	326	350	374	399	467	522	573	620
Power input	Cooling	Nom.		kW	80.1	88.2	95.4	105	114	121	129	152	169	183	196
Capacity control	Method				Stepless										
	Minimum capacity			%	13										
EER					3.07	3.11	3.15	3.10	3.06	3.08	3.10	3.07	3.09	3.12	3.16
ESEER					3.41	3.45	3.47	3.69	3.51	3.42	3.41	3.68	3.79	3.82	3.75
Dimensions	Unit	HeightxWidthxDepth		mm	2,355x2,234x3,138	2,355x2,234x4,040						2,223x2,234x4,040	2,223x2,234x4,940		
Weight	Unit			kg	2,905	3,285		3,235	3,240			3,510	4,670	4,685	
	Operation weight			kg	3,000	3,400						3,780	4,940		
Water heat exchanger	Type				Single pass shell & tube										
	Water volume			l	95	115		165	160			270	255		
	Nominal water flow	Cooling		l/s	11.8	13.1	14.4	15.6	16.7	17.9	19.1	22.4	25.0	27.4	29.7
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	48	45	49	46	51	58	64	47	63	56	38
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										
Compressor	Type				Semi-hermetic single screw compressor								asymmetric single screw compressor		
	Quantity				2										
Fan	Type				Direct propeller										
	Quantity				6	8							10		
	Air flow rate	Nom.		l/s	22,302	30,591	29,736			43,001	42,306	43,696	54,620		
	Speed			rpm	900					890					
Sound power level	Cooling	Nom.		dBA	97					99					
Sound pressure level	Cooling	Nom.		dBA	78					79					
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~15										
	Air side	Cooling	Min.~Max.	°CDB	-18~48										
Refrigerant	Type				R-134a										
	Circuits	Quantity			2										
Refrigerant circuit	Charge			kg	58	66	76			73	76	86	100		
Piping connections	Evaporator water inlet/outlet (OD)				4"							6"			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

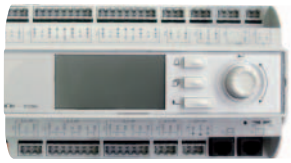
EWAD-D-XR

Cooling only

High efficiency
Reduced sound

EWAD-D-XR					240	270	300	320	350	370	390	460	510	560	600
Cooling capacity	Nom.			kW	242	271	294	321	343	369	393	453	510	559	598
Power input	Cooling	Nom.		kW	81.6	88.0	96.3	107	117	121	129	154	169	185	200
Capacity control	Method				Stepless										
	Minimum capacity			%	13										
EER					2.96	3.07	3.06	3.00	2.94	3.06	3.05	2.95	3.01	3.02	2.99
ESEER					3.47	3.55	3.53	3.66	3.55	3.81	3.64	3.73	3.89	3.91	3.80
Dimensions	Unit	HeightxWidthxDepth		mm	2,355x2,234x3,138	2,355x2,234x4,040						2,223x2,234x4,040	2,223x2,234x4,940		
Weight	Unit			kg	3,005	3,385		3,335	3,340			3,610	4,770	4,785	
	Operation weight			kg	3,100	3,500						3,880	5,040		
Water heat exchanger	Type				Single pass shell & tube										
	Water volume			l	95	115		165	160			270	255		
	Nominal water flow	Cooling		l/s	11.6	13.0	14.1	15.4	16.4	17.7	18.8	21.7	24.4	26.8	28.6
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	47	44	48	45	49	56		45	60	54	36
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										
Compressor	Type				Semi-hermetic single screw compressor								asymmetric single screw compressor		
	Quantity				2										
Fan	Type				Direct propeller										
	Quantity				6	8							10		
	Air flow rate	Nom.		l/s	17,892	24,777	23,856			33,035	32,576	33,494	41,867		
	Speed			rpm	680					705					
Sound power level	Cooling	Nom.		dBA	92					93			94		
Sound pressure level	Cooling	Nom.		dBA	73					74					
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~15										
	Air side	Cooling	Min.~Max.	°CDB	-18~48										
Refrigerant	Type				R-134a										
	Circuits	Quantity			2										
Refrigerant circuit	Charge			kg	60	68	80						104		
Piping connections	Evaporator water inlet/outlet (OD)				4"							6"			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

EWAD-D-



MicroTech III

- High ambient
- Standard sound level configuration: condenser fan rotating at 890 rpm, rubber antivibration under compressor
- Stepless single-screw compressor
- Optimised for use with R-134a
- Large operation range (ambient temperature down to -18°C)
- MicroTech III controller with superior control logic and easy interface

Cooling only

High ambient
Standard sound

EWAD-D-HS					200	210	230	260	270	290	310	340	380	420	450	480	510	550	590
Cooling capacity	Nom.			kW	194	208	233	255	272	288	305	334	379	413	446	476	512	545	585
Power input	Cooling	Nom.		kW	77.9	76.0	83.9	92.1	98.9	105	114	122	129	143	152	164	177	185	194
Capacity control	Method				Stepless														
	Minimum capacity			%	13														
EER					2.49	2.73	2.77		2.75	2.73	2.68	2.75	2.93	2.90	2.93	2.90	2.89	2.95	3.02
ESEER					3.01	3.17	3.21	3.08	3.16	3.13	3.11		3.38	3.47	3.52	3.51		3.54	3.63
Dimensions	Unit	HeightxWidthxDepth		mm	2,223x2,234x2,239		2,223x2,234x3,339					2,223x2,234x4,040				2,223x2,234x4,940			
Weight	Unit			kg	2,475	2,470	2,865		2,870			3,185		3,277	3,942	4,356	4,361		4,366
	Operation weight			kg	2,500		2,960					3,300		3,447	4,112	4,526			
Water heat exchanger	Type				Plate heat exchanger		Single pass shell & tube												
	Water volume			l	25	30	95		90			115		170			165		160
	Nominal water flow	Cooling		l/s	9.3	9.9	11.1	12.2	13.1	13.8	14.6	16.0	18.2	19.8	21.4	22.8	24.5	26.1	28.0
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	32	24	46	52	54	59	64	58	70	46	53	58	51	56	53
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler														
Compressor	Type				Semi-hermetic single screw compressor										asymmetric single screw compressor				
	Quantity				2														
Fan	Type				Direct propeller														
	Quantity				4		6					8				10			
	Air flow rate	Nom.		l/s	21,848	21,153	32,772		32,250	31,729		43,696			42,306	54,620			
Fan motor	Speed	Cooling	Nom.	rpm	890														
Sound power level	Cooling	Nom.		dBA	96							97	99	97	98			99	100
Sound pressure level	Cooling	Nom.		dBA	77								79	77	78			79	80
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~15														
	Air side	Cooling	Min.~Max.	°CDB	-18~48														
Refrigerant	Type				R-134a														
	Circuits	Quantity			2														
Refrigerant circuit	Charge			kg	36	42	44		55	56		58	66	70	90	95	100		
Piping connections	Evaporator water inlet/outlet (OD)				3"		4"							5"					
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400														

EWAD-BZSS/SL

Air cooled screw inverter chiller

EWAD-BZ

PCO²

INVERTER

- All models are PED pressure vessel approved
- Inverter stepless single-screw compressor
- High seasonal efficiency
- 2 truly independent refrigerant circuits
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Achieving building comfort conditions much faster at start-up
- Standard electronic expansion valve
- Partial and total heat recovery option available
- Power factor over 0.95
- Optimised for use with R-134a
- Standard operation range down to -12°C

Cooling only

Standard efficiency
Standard/low sound

EWAD-BZSS/SL					330	360	400	420	460	490	520
Cooling capacity	Nom.			kW	328	357	394	422	458	486	513
Power input	Cooling	Nom.		kW	121.1	137.1	148.4	160.4	169.4	182.7	195
Capacity control	Method				Stepless						
	Minimum capacity			%	14						
EER					2.71	2.60	2.65	2.63	2.70	2.66	2.63
ESEER					4.37	4.40	4.32	4.38	4.37	4.47	4.36
Dimensions	Unit	HeightxWidthxDepth		mm	2,355x2,234x4,381		2,355x2,234x5,281		2,355x2,234x6,181		
Weight (SS)	Unit			kg	4,190		4,590		4,990		
	Operation weight			kg	4,440		4,840		5,240		
Weight (SL)	Unit			kg	4,340		4,740		5,140		
	Operation weight			kg	4,590		4,990		5,390		
Water heat exchanger	Type				Single pass shell & tube						
	Water volume			l	271	264		256		248	
	Nominal water flow	Cooling		l/s	15.7	17.1	18.8	20.2	21.9	23.3	24.6
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	40	37	44	40	38	43	47
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler						
Compressor	Type				Semi-hermetic single screw compressor						
	Quantity				2						
Fan	Type				Direct propeller						
	Quantity				8		10		12		
	Air flow rate	Nom.		l/s	32,700		42,899	41,887	51,478	50,264	49,050
	Speed			rpm	705						
Sound power level (SS)	Cooling	Nom.		dBA	103				104		
Sound power level (SL)	Cooling	Nom.		dBA	97				98		
Sound pressure level (SS)	Cooling	Nom.		dBA	83				84		
Sound pressure level (SL)	Cooling	Nom.		dBA	77				78		
Operation range	Water side	Cooling	Min.~Max.	°CDB	-9.5~15						
	Air side	Cooling	Min.~Max.	°CDB	-12~45						
Refrigerant	Type				R-134a						
	Charge			kg	73		99	105	114	118	121
	Circuits	Quantity			2						
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm						
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWAD-BZXS/XL/XR

Cooling only

High efficiency
Standard/low/reduced sound

EWAD-BZXS/XL/XR					330	360	400	420	460	490	520
Cooling capacity	Nom.			kW	328	357	394	422	458	486	513
Power input	Cooling	Nom.		kW	119	136	146	158	166	180	192
Capacity control	Method				Stepless						
	Minimum capacity			%	13.5						
EER					2.75	2.62	2.69	2.66	2.75	2.71	2.67
ESEER					4.55	4.59	4.53	4.60	4.59	4.75	4.58
Dimensions	Unit	HeightxWidthxDepth		mm	2,355x2,234x4,381		2,355x2,234x5,281		2,355x2,234x6,181		
Weight (XS)	Unit			kg	4,190		4,590		4,990		
	Operation weight			kg	4,440		4,840		5,240		
Weight (XL)	Unit			kg	4,340		4,740		5,140		
	Operation weight			kg	4,590		4,990		5,390		
Weight (XR)	Unit			kg	4,390		4,790		5,190		
	Operation weight			kg	4,640		5,040		5,440		
Water heat exchanger	Type				Single pass shell & tube						
	Water volume			l	271	264		256		248	
	Nominal water flow	Cooling		l/s	15.7	17.1	18.8	20.2	21.9	23.3	24.6
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	40	37	44	40	38	43	47
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler						
Compressor	Type				Semi-hermetic single screw compressor						
	Quantity				2						
Fan	Type				Direct propeller						
	Quantity				8		10		12		
	Air flow rate	Nom.		l/s	32,700		42,899	41,887	51,478	50,264	49,050
	Speed			rpm	705						
Sound power level (XS)	Cooling	Nom.		dBA	103				104		
Sound power level (XL)	Cooling	Nom.		dBA	97				98		
Sound power level (XR)	Cooling	Nom.		dBA	93				94		
Sound pressure level (XS)	Cooling	Nom.		dBA	83				84		
Sound pressure level (XL)	Cooling	Nom.		dBA	77				78		
Sound pressure level (XR)	Cooling	Nom.		dBA	73				74		
Operation range	Water side	Cooling	Min.~Max.	°CDB	-9.5~15						
	Air side	Cooling	Min.~Max.	°CDB	-12~45						
Refrigerant	Type				R-134a						
	Charge			kg	73		99	105	114	118	121
	Circuits	Quantity			2						
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm						
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

No compromises, only the best!

The new Daikin Inverter Screw chiller is suitable to comfort or process applications where the load variation during the year is not negligible and high part load efficiency is a must! The new chiller represents a great opportunity to new or retrofit projects, easy to install and highly serviceable.

Energy savings

- The EWAD-TZ delivers an ESEER of up to 6.0* giving it a CLASS A energy efficiency rating with exceptional part-load efficiency, one of the highest in the market and so helping you save money
- Further cost savings come from an impressive reduction in energy consumption compared to a traditional non-inverter chiller making this a great solution for retrofit projects

Comfort level

- To deliver the perfect comfort solution, the system has an infinitely variable load regulation without pre-set steps
- Highly accurate precision leaving water temperature control helps ensure optimal comfort as well as saving you money

Rapid payback

- Why tie up your capital for long periods? 1-year payback time in typical process cooling application compared to a non-inverter unit thanks to top-efficiency

Compact design

- The compact design of our EWAD-TZ means you get the equivalent cooling capacity of a non-inverter unit but with better efficiency and the same physical footprint leading to the optimal use of space

Extensive option list

- Rapid restart after power failure
- Variable speed water pumps
- EC brushless condenser fans

Silent operations

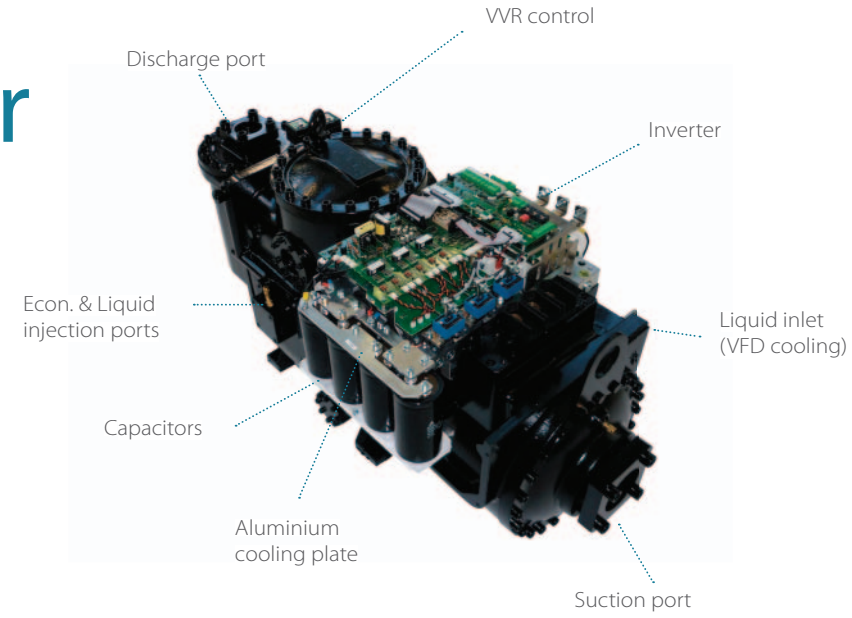
- Nothing is more disturbing to our comfort than the sound of machinery but the EWAD-TZ uses a compressor with a variable frequency that ensures it operates at the lowest possible sound levels

Green heart

- The EWAD-TZ helps you deliver a low ecological footprint by reducing energy demand without compromising on reliability and performance

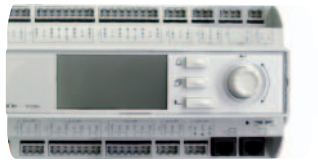
* gross value; 5.8 in accordance with EN14511:2011

New inverter compressor technology



- ✓ Compressor and inverter fully designed by Daikin
- ✓ Inverter integral to the compressor body
- ✓ Inverter refrigerant cooled
- ✓ VVR = Variable Volume Ratio for optimized efficiency
- ✓ Enlarged discharge port and suction side for reduced refrigerant pressure drop
- ✓ New optimized compressor motors

EWAD-C-



MicroTech III

- Stepless single-screw compressor
- Large operation range (ambient temperature down to -18°C and up to 52°C)
- All models are PED pressure vessel approved
- Optimised for use with R-134a
- 2-3 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Partial and total heat recovery option available
- MicroTech III controller with superior control logic and easy interface

Cooling only

Standard efficiency
Standard/low sound

EWAD-C-SS/SL					650	740	830	910	970	C11	C12	C13	H14	C15	C16	C17	C18	C19	C20
Cooling capacity	Nom.			kW	645	741	829	908	962	1,059	1,146	1,315	1,412	1,532	1,615	1,706	1,797	1,870	1,917
Power input	Cooling	Nom.		kW	223	265	302	322	355	382	408	446	479	557	586	627	669	687	721
Capacity control	Method				Stepless														
	Minimum capacity			%	13									7					
EER					2.89	2.80	2.74	2.82	2.71	2.77	2.81	2.95		2.75		2.72	2.69	2.72	2.66
ESEER					3.79	3.69	3.72	3.65	3.60	3.69	3.63	3.88	3.86	3.72	3.68	3.58	3.67	3.68	3.64
Dimensions	Unit	HeightxWidthxDepth		mm	2,540x2,285x6,185					2,540x2,285x7,085	2,540x2,285x7,985	2,540x2,285x8,885		2,540x2,285x10,185	2,540x2,285x11,085			2,540x2,285x11,985	
Weight (SS)	Unit			kg	5,630	5,740	5,760	6,280	6,560	7,010	7,280	7,900		10,320	10,710	10,770	11,240	11,600	
	Operation weight			kg	5,910	5,990	6,010	6,530	6,810	7,250	7,520	8,280		10,730	11,110	11,260	12,110	12,480	
Weight (SL)	Unit			kg	5,920	6,030	6,050	6,570	6,850	7,300	7,570	8,190		10,770	11,150	11,210	11,680	12,040	
	Operation weight			kg	6,200	6,280	6,300	6,820	7,100	7,540	7,810	8,570		11,170	11,550	11,700	12,560	12,920	
Water heat exchanger	Type				Single pass shell & tube														
	Water volume			l	266			251		243		386		408		474	850		
	Nominal water flow	Cooling		l/s	30.9	35.5	39.7	43.5	46.1	50.8	55.0	62.9	67.6	73.4	77.4	81.8	86.0	89.5	91.7
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	47	54	53	62	69	64	74	54	58	62	68	75	36	39	40
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler														
Compressor	Type				asymmetric single screw compressor														
	Quantity				2									3					
Fan	Type				Direct propeller														
	Quantity				10			12		14	16	18		20	22			24	
	Air flow rate	Nom.		l/s	53,442			64,131		74,819	85,508	96,196	96,196	106,885	117,573			128,262	
	Speed			rpm	900														
Sound power level (SS)	Cooling	Nom.		dBA	100			101		102				103			104		
Sound power level (SL)	Cooling	Nom.		dBA	96			98	97	98				99	100			101	
Sound pressure level (SS)	Cooling	Nom.		dBA	79	80				81							82		
Sound pressure level (SL)	Cooling	Nom.		dBA	76			77									78		
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15														
	Air side	Cooling	Min.~Max.	°CDB	-18~52														
Refrigerant	Type				R-134a														
	Circuits	Quantity			2									3					
Refrigerant circuit	Charge			kg	128			146	144	162	178	196		260	261		275	305	
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm							219.1mm					273mm		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400														

EWAD-C-SR

Standard efficiency
Reduced sound

Cooling only

EWAD-C-SR					620	720	790	880	920	C10	C11	C12	H14	C13	C14	C15	C16	C17	C18	C19
Cooling capacity	Nom.			kW	617	712	786	872	918	1,016	1,107	1,266	1,316	1,363	1,465	1,550	1,616	1,710	1,791	1,828
Power input	Cooling	Nom.		kW	226	276	317	334	373	398	422	461	500	522	582	609	654	706	722	762
Capacity control	Method				Stepless															
	Minimum capacity			%	13									7						
EER					2.74	2.59	2.48	2.61	2.46	2.55	2.63	2.74	2.63	2.61	2.52	2.54	2.47	2.42	2.48	2.40
ESEER					3.91	3.78	3.81	3.79		3.76	3.74	3.92	3.81	3.76	3.70	3.71	3.64	3.68	3.70	3.64
Dimensions	Unit	HeightxWidthxDepth		mm	2,540x2,285x6,185					2,540x2,285x7,085	2,540x2,285x7,985	2,540x2,285x8,885		2,540x2,285x10,185		2,540x2,285x11,085			2,540x2,285x11,985	
Weight	Unit			kg	5,920	6,030	6,050	6,570	6,850	7,300	7,570	8,190		10,750	10,770	11,150	11,210	11,680	12,040	
	Operation weight			kg	6,200	6,280	6,300	6,820	7,100	7,540	7,810	8,570		11,170		11,550	11,700	12,560	12,920	
Water heat exchanger	Type				Single pass shell & tube															
	Water volume			l	266			251		243		386		421	408		474	850		
	Nominal water flow	Cooling		l/s	29.5	34.1	37.6	41.8	44.0	48.7	53.1	60.6	63.0	65.2	70.2	74.2	77.4	81.8	85.6	87.5
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	43	50	48	58	63	60	69	50	54	45	57	63	69	33	36	37
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler															
Compressor	Type				asymmetric single screw compressor															
	Quantity				2									3						
Fan	Type				Direct propeller															
	Quantity				10			12		14	16	18		20		22			24	
	Air flow rate	Nom.		l/s	41,007			49,209		57,410	65,611	73,813		82,014		90,216			98,417	
	Speed			rpm	700															
Sound power level	Cooling	Nom.		dBA	92			93		94				95				96		
Sound pressure level	Cooling	Nom.		dBA	71	72				73								74		
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15															
	Air side	Cooling	Min.~Max.	°CDB	-18~52															
Refrigerant	Type				R-134a															
	Circuits	Quantity			2									3						
Refrigerant circuit	Charge			kg	128		146	144	162	178		196		260		261		275	305	
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm							219.1mm						273mm		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400															

EWAD-C-XS/XL

Air cooled screw chiller

EWAD-C-

MicroTech III

- Stepless single-screw compressor
- Large operation range (ambient temperature down to -18°C and up to 52°C)
- All models are PED pressure vessel approved
- Optimised for use with R-134a
- 2-3 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Partial and total heat recovery option available
- MicroTech III controller with superior control logic and easy interface

Cooling only

High efficiency
Standard/low sound

EWAD-C-XS/XL					760	830	890	990	C10	C11	C12	C13	H14	H15	C16	C17	C18	C19	C20	C21	C22
Cooling capacity	Nom.			kW	752	827	885	997	1,069	1,192	1,276	1,343	1,408	1,517	1,590	1,678	1,760	1,849	1,896	1,948	2,002
Power input	Cooling	Nom.		kW	237	256	282	311	343	367	404	416	451	483	510	541	569	598	620	648	677
Capacity control	Method				Stepless																
	Minimum capacity			%	13										7						
EER					3.17	3.22	3.14	3.20	3.12	3.25	3.15	3.23	3.13	3.14	3.12	3.10	3.09		3.06	3.01	2.96
ESEER					3.77	3.91	3.81	3.91	3.83	3.98	3.86	4.05	4.04	4.05	3.97	3.94	3.92	3.90	3.98	3.89	3.86
Dimensions	Unit	HeightxWidthxDepth		mm	2,540x2,285x6,185	2,540x2,285x7,085		2,540x2,285x7,985		2,540x2,285x9,785					2,540x2,285x11,585	2,540x2,285x12,885	2,540x2,285x13,785	2,540x2,285x14,685			
Weight (XS)	Unit			kg	5,990	6,340	6,360	7,190	7,470	8,220	8,240	8,900			11,570	11,900	12,260	12,600			
	Operation weight			kg	6,240	6,580	6,600	7,600	7,870	8,610	8,630	9,890			12,430	12,760	13,140	13,470			
Weight (XL)	Unit			kg	6,280	6,630	6,650	7,480	7,760	8,510	8,530	9,190			12,010	12,350	12,700	13,040			
	Operation weight			kg	6,520	6,870	6,890	7,880	8,160	8,900	8,920	10,180			12,870	13,200	13,580	13,910			
Water heat exchanger	Type				Single pass shell & tube																
	Water volume			l	251	243		403		386		979			850		871	850			
	Nominal water flow	Cooling		l/s	36.1	39.6	42.4	47.8	51.2	57.1	61.1	64.4	67.5	72.8	76.1	80.4	84.4	88.6	90.7	93.2	95.8
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	81	57	64	61	69	45	51	68	77	84	62	68		74	39	41	43
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler																
Compressor	Type				asymmetric single screw compressor																
	Quantity				2										3						
Fan	Type				Direct propeller																
	Quantity				12	14		16		20					24	26	28	30			
	Air flow rate	Nom.		l/s	64,131	74,819		85,508		106,885					128,262	138,950	149,639	160,327			
	Speed			rpm	900																
Sound power level (XS)	Cooling	Nom.		dBA	100	101		102		103					104						
Sound power level (XL)	Cooling	Nom.		dBA	97		98		99						100						
Sound pressure level (XS)	Cooling	Nom.		dBA	80		81		80						81						
Sound pressure level (XL)	Cooling	Nom.		dBA	76	77									78						
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15																
	Air side	Cooling	Min.~Max.	°CDB	-18~52																
Refrigerant	Type				R-134a																
	Circuits	Quantity			2										3						
Refrigerant circuit	Charge			kg	146	162		182		214		225	248		297	312	328	343			
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm			219.1mm				273mm									
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																

EWAD-C-XR

Cooling only

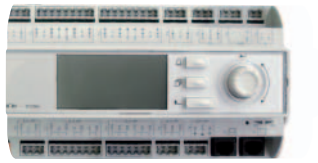
High efficiency
Reduced sound

EWAD-C-XR					740	810	870	970	C10	C11	C12	C13	H14	H15	C16	C17	C18	C19	C20	C21	C22
Cooling capacity	Nom.			kW	732	808	862	970	1,036	1,164	1,243	1,297	1,361	1,461	1,544	1,632	1,715	1,805	1,849	1,897	1,947
Power input	Cooling	Nom.		kW	238	257	285	313	348	369	409	420	461	498	518	548	574	604	629	663	695
Capacity control	Method				Stepless																
	Minimum capacity			%	13										7						
EER					3.07	3.15	3.03	3.10	2.98	3.16	3.04	3.09	2.95	2.93	2.98		2.99		2.94	2.86	2.80
ESEER					4.00	4.14	4.01	4.12	4.01	4.21	4.07	4.10		4.12	4.06	3.99	4.00	3.97	4.05	3.96	3.93
Dimensions	Unit	HeightxWidth xDepth		mm	2,540x2,285 x6,185	2,540x2,285 x7,085		2,540x2,285 x7,985		2,540x2,285 x9,785					2,540x2,285 x11,985	2,540x2,285 x12,885	2,540x2,285 x13,785	2,540x2,285 x14,685			
Weight	Unit			kg	6,280	6,630	6,650	7,480	7,760	8,510	8,530	9,190			12,010	12,350	12,700	13,040			
	Operation weight			kg	6,520	6,870	6,890	7,880	8,160	8,900	8,920	10,180			12,870	13,200	13,580	13,910			
Water heat exchanger	Type				Single pass shell & tube																
	Water volume			l	251	243		403		386		979			850		871	850			
	Nominal water flow	Cooling		l/s	35.1	38.7	41.3	46.5	49.7	55.7	59.5	62.1	65.2	70.0	74.0	78.2	82.2	86.5	88.5	90.7	93.1
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	77	54	61	58	65	43	49	64	73	79	59	65		71	37	39	41
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler																
Compressor	Type				asymmetric single screw compressor																
	Quantity				2										3						
Fan	Type				Direct propeller																
	Quantity				12	14		16		20					24	26	28	30			
	Air flow rate	Nom.		l/s	49,209	57,410		65,611		82,014					98,417	106,619	114,820	123,021			
	Speed			rpm	700																
Sound power level	Cooling	Nom.		dBA	92			94			95					96				97	
Sound pressure level	Cooling	Nom.		dBA	72				73	72			73							74	
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15																
	Air side	Cooling	Min.~Max.	°CDB	-18~52																
Refrigerant	Type				R-134a																
	Circuits	Quantity			2										3						
Refrigerant circuit	Charge			kg	146	162		182		214		225	248		297	312	328	343			
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm			219.1mm				273mm									
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																

EWAD-C-PS/PL

Air cooled screw chiller

EWAD-CZ



MicroTech III

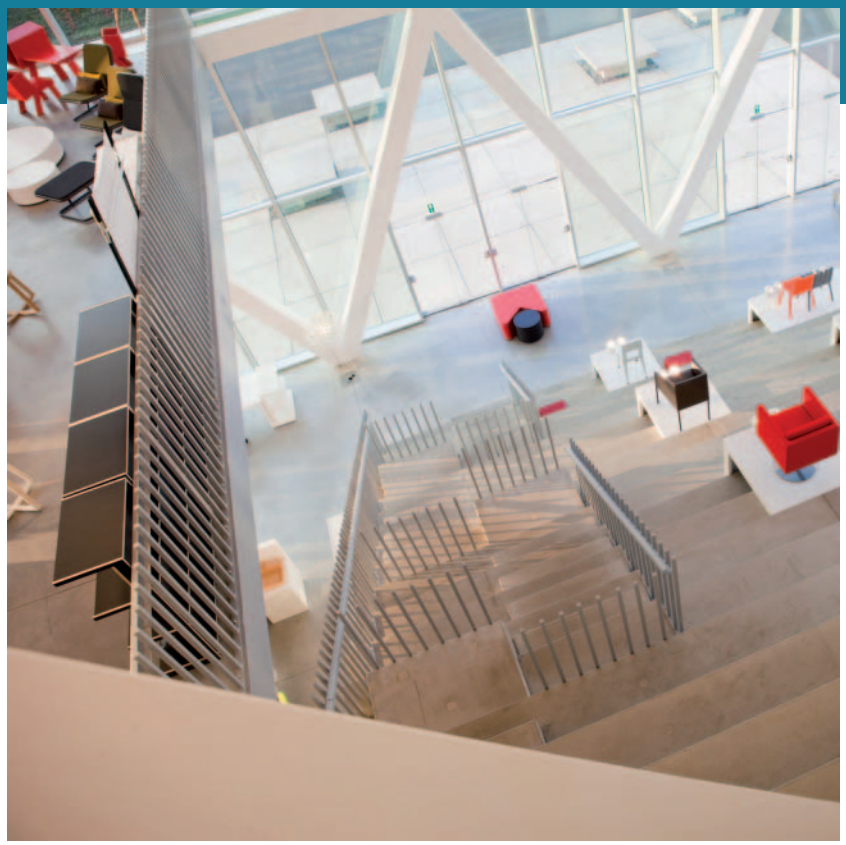
- Excellent part load efficiency
- Stepless single-screw compressor
- Large operation range (ambient temperature down to -18°C and up to 52°C)
- All models are PED pressure vessel approved
- Optimised for use with R-134a
- 2 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Partial and total heat recovery option available
- MicroTech III controller with superior control logic and easy interface

Cooling only

Premium efficiency
Standard/low sound

EWAD-C-PS/PL					820	890	980	C11	C12	C13	C14	C15	C16
Cooling capacity	Nom.			kW	818	886	973	1,070	1,153	1,274	1,384	1,467	1,553
Power input	Cooling	Nom.		kW	229	253	276	306	335	368	402	431	461
Capacity control	Method				Stepless								
	Minimum capacity			%	13								
EER					3.57	3.51	3.52	3.49	3.44	3.46	3.44	3.40	3.37
ESEER					4.22	4.24	4.28	4.29	4.14	4.22	4.08	4.07	4.02
Dimensions	Unit	HeightxWidthxDepth		mm	2,540x2,285x8,885			2,540x2,285x9,785		2,540x2,285x11,085	2,540x2,285x11,985		
Weight (PS)	Unit			kg	7,530		7,660	8,290	8,550	9,390	9,730		
	Operation weight			kg	8,130		8,700	9,330	9,590	10,380	10,720		
Weight (PL)	Unit			kg	7,820		7,950	8,580	8,840	10,380	10,720		
	Operation weight			kg	8,420		8,990	9,620	9,880	10,670	11,010		
Water heat exchanger	Type				Single pass shell & tube								
	Water volume			l	599		1,043	1,027		995	979		
	Nominal water flow	Cooling		l/s	39.2	42.5	46.5	51.2	55.2	61.0	66.3	70.3	74.5
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	58	67	31	61	70	60	70	81	88
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler								
Compressor	Type				asymmetric single screw compressor								
	Quantity				2								
Fan	Type				Direct propeller								
	Quantity				18			20		22	24		
	Air flow rate	Nom.		l/s	96,196			106,885		117,573	128,262		
	Speed			rpm	900								
Sound power level (PS)	Cooling	Nom.		dBA	101			102		103			104
Sound power level (PL)	Cooling	Nom.		dBA	98			99	100	99	100		
Sound pressure level (PS)	Cooling	Nom.		dBA	80				81	80	81		
Sound pressure level (PL)	Cooling	Nom.		dBA	77							78	
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15								
	Air side	Cooling	Min.~Max.	°CDB	-18~52								
Refrigerant	Type				R-134a								
	Charge			kg	204	202	204	220		252	254		
	Circuits	Quantity			2								
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm		273mm						
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400								

EWAD-C-PR



Premium efficiency
Reduced sound

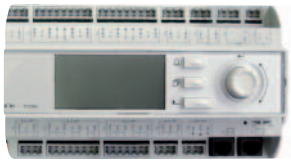
Cooling only

EWAD-C-PR					810	880	960	C10	C11	C13	C14	C15	C16
Cooling capacity	Nom.			kW	806	871	954	1,049	1,127	1,246	1,353	1,432	1,513
Power input	Cooling	Nom.		kW	222	248	275	303	335	369	402	432	465
Capacity control	Method				Stepless								
	Minimum capacity			%	13								
EER					3.63	3.51	3.47	3.46	3.36	3.38	3.36	3.32	3.26
ESEER					4.39	4.33	4.40	4.35	4.24	4.30	4.26	4.21	4.14
Dimensions	Unit	HeightxWidthxDepth		mm	2,540x2,285x8,885			2,540x2,285x9,785		2,540x2,285x11,085	2,540x2,285x11,985		
Weight	Unit			kg	7,820		7,950	8,580	8,840	10,380	10,720		
	Operation weight			kg	8,420		8,990	9,620	9,880	10,670	11,010		
Water heat exchanger	Type				Single pass shell & tube								
	Water volume			l	599		1,043	1,027		995	979		
	Nominal water flow	Cooling		l/s	38.6	41.7	45.6	50.2	54.0	59.7	64.8	68.7	72.6
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	56	65	30	59	67	58	67	77	84
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler								
Compressor	Type				asymmetric single screw compressor								
	Quantity				2								
Fan	Type				Direct propeller								
	Quantity				18			20		22	24		
	Air flow rate	Nom.		l/s	73,813			82,014		90,216	98,417		
	Speed			rpm	700								
Sound power level	Cooling	Nom.		dBA	93				94			95	
Sound pressure level	Cooling	Nom.		dBA	71			72					73
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15								
	Air side	Cooling	Min.~Max.	°CDB	-18~52								
Refrigerant	Type				R-134a								
	Circuits	Quantity			2								
Refrigerant circuit	Charge			kg	204	202	204	220		252	254		
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm		273mm						
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400								

EWAD-CZXS/XL

Air cooled screw inverter chiller

EWAD-CZ



MicroTech III

INVERTER

- High efficiency with leader-of-class ESEER
- Inverter stepless single-screw compressor
- Highly efficient fans with patented blade profile for quiet operation
- Extensive option list (heat recovery option available)
- Wide operating range
- Low starting current
- Optimised for use with R-134a
- MicroTech III controller with superior control logic and easy interface

Cooling only

High efficiency
Standard/low sound

EWAD-CZXS/XL					670	740	830	900	C10	C11	C12	C13	C14	C15	C16	C17	C18
Cooling capacity	Nom.			kW	668	734	828	898	1,033	1,090	1,232	1,303	1,444	1,538	1,616	1,701	1,795
Power input	Cooling	Nom.		kW	249	239	269	309	343	380	404	447	494	538	564	596	619
Capacity control	Method				Stepless												
	Minimum capacity			%	20											13	
EER					2.68	3.07		2.90	3.01	2.87	3.05	2.92	2.93	2.86		2.85	2.90
ESEER					4.64	4.72	4.89	4.88	4.91	4.70		4.51	4.73	4.83	4.73	4.72	4.57
Dimensions	Unit	HeightxWidth xDepth		mm	2,540x2,285 x6,825		2,540x2,285 x7,725		2,540x2,285 x8,625		2,540x2,285 x10,425		2,540x2,285 x11,725	2,540x2,285 x12,625		2,540x2,285 x13,525	2,540x2,285 x14,425
Weight (XS)	Unit			kg	5,880	6,000	6,620	6,870	7,440		8,570	8,970	9,600	9,940	11,370	12,190	12,920
	Operation weight			kg	6,140	6,250	6,860	7,110	7,880		8,960	9,360	9,980	10,320	12,220	13,040	13,790
Weight (XL)	Unit			kg	6,170	6,280	6,900	7,150	7,720		8,850	9,250	9,880	10,220	11,790	12,610	13,340
	Operation weight			kg	6,430	6,530	7,140	7,390	8,160		9,240	9,640	10,260	10,600	12,640	13,460	14,210
Water heat exchanger	Type				Single pass shell & tube												
	Water volume			l	263	248	241		441		383		374		850		871
	Nominal water flow	Cooling		l/s	32.0	35.2	39.7	43.0	49.5	52.3	59.0	62.4	69.2	73.7	77.4	81.5	86.0
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	87	83	58	65	63	70	47	52	62	72	63	69	65
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler												
Compressor	Type				asymmetric single screw compressor												
	Quantity				2										3		
Fan	Type				Direct propeller												
	Quantity				10	12	14		16		20		22	24		26	28
	Air flow rate	Nom.		l/s	54,188	65,025	75,863		86,700		108,376		119,213	130,051	129,454	140,143	151,129
Fan motor	Speed	Cooling	Nom.	rpm	900												
Sound power level (XS)	Cooling	Nom.		dBA	102		103				104				106		
Sound power level (XL)	Cooling	Nom.		dBA	99		100				101				103		
Sound pressure level (XS)	Cooling	Nom.		dBA	81										83		
Sound pressure level (XL)	Cooling	Nom.		dBA	78										80		
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15												
	Air side	Cooling	Min.~Max.	°CDB	-18~50												
Refrigerant	Type				R-134a												
	Circuits	Quantity			2										3		
Refrigerant circuit	Charge			kg	141	161	178		200		235		275	320	327	343	361
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				219.1mm						273mm		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

EWAD-CZXR

Cooling only

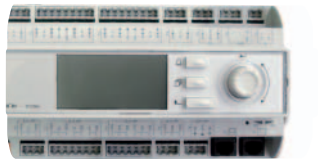
High efficiency
Reduced sound

EWAD-CZXR					640	700	790	850	980	C10	C11	C12	C13	C14	C15	C16	C17
Cooling capacity	Nom.			kW	631	696	786	849	972	1,027	1,166	1,231	1,327	1,437	1,539	1,624	1,706
Power input	Cooling	Nom.		kW	264	246	274	318	351	393	412	459	493	523	585	617	638
Capacity control	Method				Stepless												
	Minimum capacity			%	20										13		
EER					2.40	2.83	2.86	2.67	2.77	2.61	2.83	2.68	2.69	2.75	2.63		2.67
ESEER					5.04	5.23	5.39	5.36	5.41	5.11	5.15	4.80	5.12	5.22	5.18	4.98	4.88
Dimensions	Unit	HeightxWidth xDepth		mm	2,540x2,285 x6,825		2,540x2,285 x7,725		2,540x2,285 x8,625		2,540x2,285 x10,425		2,540x2,285 x11,725	2,540x2,285 x12,625		2,540x2,285 x13,525	2,540x2,285 x14,425
Weight	Unit			kg	6,170	6,470	7,100	7,360	7,950		9,120	9,530	10,180	10,530	12,150	12,990	13,740
	Operation weight			kg	6,430	6,720	7,340	7,600	8,390		9,500	9,920	10,550	10,910	13,000	13,840	14,610
Water heat exchanger	Type				Single pass shell & tube												
	Water volume			l	263	248	241		441		383		374		850		871
	Nominal water flow	Cooling		l/s	30.3	33.4	37.6	40.7	46.6	49.2	55.8	58.9	63.6	68.8	73.7	77.8	81.7
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	79	76	54	59	58	64	43	48	57	66	57	63	60
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler												
Compressor	Type				asymmetric single screw compressor												
	Quantity				2										3		
Fan	Type				Direct propeller												
	Quantity				10	12	14		16		20		22	24		26	28
	Air flow rate	Nom.		l/s	41,536	49,843	58,151		66,458		83,072		91,379	99,687		107,994	116,301
Fan motor	Speed	Cooling	Nom.	rpm	700												
Sound power level	Cooling	Nom.		dBA	95		96				97				99		
Sound pressure level	Cooling	Nom.		dBA	74										76		
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15												
	Air side	Cooling	Min.~Max.	°CDB	-18~50												
Refrigerant	Type				R-134a												
	Circuits	Quantity			2										3		
Refrigerant circuit	Charge			kg	141	161	178		200		235		275	320	327	343	361
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				219.1mm						273mm		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

EWAD-CFXS/XL

Air cooled screw chiller with free cooling

EWAD-CF



MicroTech III

- Free cooling chiller for space cooling and industrial processes
- Greater energy savings and reduced CO_2 emissions during cold season
- Wide operating range
- MicroTech III controller with superior control logic and easy interface

Cooling only

High efficiency
Standard/low sound

EWAD-CFXS/XL					640	770	850	900	C10	C11	C12	C13	C14	C15	C16
Cooling capacity	Nom.			kW	640 (1) / 295 (2)	772 (1) / 365 (2)	852 (1) / 413 (2)	902 (1) / 434 (2)	1,027 (1) / 502 (2)	1,089 (1) / 524 (2)	1,269 (1) / 594 (2)	1,349 (1) / 652 (2)	1,435 (1) / 663 (2)	1,493 (1) / 659 (2)	1,555 (1) / 722 (2)
Mechanical capacity				kW	345 (2)	407 (2)	439 (2)	468 (2)	524 (2)	565 (2)	675 (2)	697 (2)	772 (2)	834 (2)	
Power input	Cooling	Nom.		kW	257 (1) / 74.3 (2)	272 (1) / 87.9 (2)	293 (1) / 90.7 (2)	324 (1) / 99.8 (2)	360 (1) / 109 (2)	399 (1) / 118 (2)	397 (1) / 131 (2)	439 (1) / 143 (2)	454 (1) / 152 (2)	492 (1) / 160 (2)	530 (1) / 170 (2)
Capacity control	Method				Stepless										
	Minimum capacity			%	12.5										
EER					2.49 (1) / 8.62 (2)	2.84 (1) / 8.78 (2)	2.90 (1) / 9.4 (2)	2.78 (1) / 9.04 (2)	2.85 (1) / 9.43 (2)	2.73 (1) / 9.19 (2)	3.19 (1) / 9.67 (2)	3.08 (1) / 9.45 (2)	3.16 (1) / 9.42 (2)	3.04 (1) / 9.33 (2)	2.93 (1) / 9.16 (2)
ESEER					3.44	3.52	3.78	3.50	3.74	3.54	3.88	3.78	4.01	3.95	3.85
Dimensions	Unit	HeightxWidthxDepth		mm	2,565x2,480x6,185	2,565x2,480x7,085	2,565x2,480x7,985		2,565x2,480x8,885		2,565x2,480x10,685				
Weight (XS)	Unit			kg	7,760	8,340	8,900		10,160	10,420	11,900		12,540	12,620	12,670
	Operation weight			kg	8,040	8,580	9,140		10,560	10,820	12,290		13,530	13,610	13,660
Weight (XL)	Unit			kg	8,050	8,620	9,190		10,450	10,710	12,190		12,830	12,910	12,960
	Operation weight			kg	8,320	8,870	9,430		10,850	11,110	12,580		13,820	13,900	13,950
Water heat exchanger	Type				Single pass shell & tube										
	Water volume			l	266	251	243		403		386		979		
	Nominal water flow	Cooling		l/s	27.8	33.5	37.0	39.2	44.6	47.3	55.1	58.6	62.4	64.9	67.6
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	85 / 128 (2)	105 / 172 (2)	90 / 178 (2)	101 / 198 (2)	111 / 245 (2)	124 / 272 (2)	98 / 232 (2)	110 / 259 (2)	139 / 305 (2)	150 / 328 (2)	162 / 354 (2)
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										
Compressor	Type				Asymm single screw										
	Quantity				2										
Fan	Type				Direct propeller										
	Quantity				10	12	14		16		20				
	Air flow rate	Nom.		l/s	50,367	60,440	70,513		80,587		95,253				
	Speed			rpm	920										
Sound power level (XS)	Cooling	Nom.		dBA	99.5	100.2	100.5		101.4	101.9	102.4	102.5			
Sound power level (XL)	Cooling	Nom.		dBA	96.0	96.8	97.4		98.0	98.2	98.8	98.9			
Sound pressure level (XS)	Cooling	Nom.		dBA	79.0 (1)	79.7 (1)			80.2 (1)	80.7 (1)	80.3 (1)	80.4 (1)			
Sound pressure level (XL)	Cooling	Nom.		dBA	75.5 (1)	76.3 (1)	76.5 (1)		76.9 (1)	77.1 (1)	76.7 (1)	76.8 (1)			
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15										
	Air side	Cooling	Min.~Max.	°CDB	-20~45										
Refrigerant	Type				R-134a										
	Charge			kg	128	146	162		182		214		225	248	
	Circuits	Quantity			2										
Piping connections	Evaporator water inlet/outlet (OD)				DN150PN16(168.3mm)				DN200PN16(219.1mm)				DN250PN16(273mm)		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										
Air temperature for free cooling 100%				°C	-0.8	-0.1	1.2	0.4	0.9	0.1	2.9	2.1	1.3	0.7	0.1

(1) Cooling: evaporator 16/10°C, ambient 35°C, unit at full load operation; standard: ISO3744 (2) Data is calculated at ambient air temperature 5°C, inlet water temperature 16°C

EWAD-CFXR

Cooling only

High efficiency
Reduced sound

EWAD-CFXR					600	740	820	870	980	C10	C11	C12	C13	C14	C15
Cooling capacity	Nom.			kW	602 (1) / 270 (2)	739 (1) / 334 (2)	821 (1) / 379 (2)	866 (1) / 409 (2)	981 (1) / 459 (2)	1,034 (1) / 492 (2)	1,229 (1) / 562 (2)	1,302 (1) / 598 (2)	1,374 (1) / 619 (2)	1,424 (1) / 640 (2)	1,476 (1) / 668 (2)
Mechanical capacity				kW	332 (2)	405 (2)	442 (2)	457 (2)	523 (2)	542 (2)	667 (2)	704 (2)	756 (2)	784 (2)	809 (2)
Power input	Cooling	Nom.		kW	263 (1) / 70.3 (2)	278 (1) / 84.3 (2)	299 (1) / 88.4 (2)	334 (1) / 95.9 (2)	368 (1) / 106 (2)	412 (1) / 112 (2)	403 (1) / 127 (2)	450 (1) / 141 (2)	466 (1) / 146 (2)	511 (1) / 154 (2)	556 (1) / 161 (2)
Capacity control	Method				Stepless										
	Minimum capacity			%	12.5										
EER					2.29 (1) / 8.56 (2)	2.66 (1) / 8.77(2)	2.75 (1) / 9.29 (2)	2.59 (1) / 9.03 (2)	2.67 (1) / 9.27 (2)	2.51 (1) / 9.21 (2)	3.05 (1) / 9.67 (2)	2.90 (1) / 9.22 (2)	2.95 (1) / 9.4 (2)	2.79 (1) / 9.26 (2)	2.66 (1) / 9.15 (2)
ESEER					3.59	3.66	3.89	3.62	3.83	3.63	4.13	3.89	4.09	4.02	3.92
Dimensions	Unit	HeightxWidthxDepth		mm	2,565x2,480x6,185	2,565x2,480x7,085	2,565x2,480x7,985		2,565x2,480x8,885		2,565x2,480x10,685				
Weight	Unit			kg	8,050	8,620	9,190		10,450	10,710	12,190		12,830	12,910	12,960
	Operation weight			kg	8,320	8,870	9,430		10,850	11,110	12,580		13,820	13,900	13,950
Water heat exchanger	Type				Single pass shell & tube										
	Water volume			l	266	251	243		403		386		979		
	Nominal water flow	Cooling		l/s	26.2	32.1	35.7	37.6	42.6	44.9	53.4	56.6	59.7	61.9	64.1
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	76 / 115 (2)	97 / 159 (2)	84 / 167 (2)	93 / 184 (2)	102 / 225 (2)	113 / 248 (2)	92 / 219 (2)	103 / 243 (2)	128 / 282 (2)	137 / 301 (2)	146 / 321 (2)
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										
Compressor	Type				Asymm single screw										
	Quantity				2										
Fan	Type				Direct propeller										
	Quantity				10	12	14		16		20				
	Air flow rate	Nom.		l/s	38,934	46,721	54,508		62,294		73,010				
	Speed			rpm	715										
Sound power level	Cooling	Nom.		dBA	91.5	92.0	92.3		93.5	93.7	94.5		94.6		
Sound pressure level	Cooling	Nom.		dBA	71.0 (1)	71.5 (1)			72.3 (1)	72.5 (1)	72.2 (1)	72.3 (1)		72.5 (1)	
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15										
	Air side	Cooling	Min.~Max.	°CDB	-20~45										
Refrigerant	Type				R-134a										
	Charge			kg	128	146	162		182		214		225	248	
	Circuits	Quantity			2										
Piping connections	Evaporator water inlet/outlet (OD)				DN150PN16(168.3mm)				DN200PN16(219.1mm)				DN250PN16(273mm)		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										
Air temperature for free cooling 100%				°C	-2.3	-1.9	-0.6	-1.5	-0.9	-1.7	0.7	-0.2	-1.1	-1.6	-2.3

(1) Cooling: evaporator 16/10°C, ambient 35°C, unit at full load operation: standard: ISO3744 (2) Data is calculated at ambient air temperature 5°C, inlet water temperature 16°C

EWYQ-ADVP/ACV3/ACW1

Air cooled mini inverter heat pump

EWYQ-ADWP/ACV3/ACW1

Digital controller

INVERTER

- Wide operating range
- Low operating sound level
- Easy 'plug and play' installation
- Daikin scroll compressor
- Integrated hydronics
- Three phase power supply and main switch included

Heating & Cooling

EWYQ-ADVP/ACV3/ACW1					EWYQ005ADVP	EWYQ006ADVP	EWYQ007ADVP	EWYQ009ACV3	EWYQ010ACV3	EWYQ011ACV3	EWYQ009ACW1	EWYQ011ACW1	EWYQ013ACW1
Cooling capacity	Nom.			kW	5.2 (1)	6.0 (1)	7.1 (1)	12.2 (1) / 8.6 (2)	13.6 (1) / 9.6 (2)	15.7 (1) / 11.1 (2)	12.9 (1) / 9.1 (2)	15.7 (1) / 11.1 (2)	17.0 (1) / 13.3 (2)
Heating capacity	Nom.			kW	6.1 (1) / 5.65 (2)	6.8 (1) / 6.35 (2)	8.2 (1) / 7.75 (2)	10.2 (1) / 9.9 (2)	11.7 (1) / 11.4 (2)	13.8 (1) / 12.9 (2)	11.2 (1) / 10.9 (2)	13.2 (1) / 12.4 (2)	14.8 (1) / 13.9 (2)
Power input	Cooling	Nom.		kW	1.89 (1)	2.35 (1)	2.95 (1)	2.85 (1) / 2.83 (2)	3.41 (1) / 3.28 (2)	4.13 (1) / 3.90 (2)	3.08 (1) / 3.05 (2)	4.13 (1) / 3.90 (2)	5.52 (1) / 5.18 (2)
	Heating	Nom.		kW	1.60 (1) / 1.97 (2)	1.84 (1) / 2.24 (2)	2.36 (1) / 2.83 (2)	2.43 (1) / 2.99 (2)	2.81 (1) / 3.46 (2)	3.20 (1) / 3.94 (2)	2.69 (1) / 3.31 (2)	3.07 (1) / 3.78 (2)	3.47 (1) / 4.27 (2)
Capacity control	Method				-			Inverter controlled					
EER					2.75 (1)	2.55 (1)	2.41 (1)	4.27 (1) / 3.05 (2)	4.00 (1) / 2.93 (2)	3.79 (1) / 2.85 (2)	4.19 (1) / 2.99 (2)	3.79 (1) / 2.85 (2)	3.08 (1) / 2.57 (2)
ESEER					-			4.31	4.30	4.33	4.43	4.44	4.36
COP					3.81 (1) / 2.87 (2)	3.70 (1) / 2.83 (2)	3.47 (1) / 2.74 (2)	4.19 (1) / 3.30 (2)	4.17 (1) / 3.29 (2)	4.30 (1) / 3.27 (2)	4.17 (1) / 3.28 (2)	4.31 (1) / 3.27 (2)	4.28 (1) / 3.25 (2)
Dimensions	Unit	HeightxWidthxDepth		mm	805x1,190x360			1,435x1,418x382					
Weight	Unit			kg	100			180					
	Operation weight			kg	104			-					
Water heat exchanger	Type				Brazed plate								
	Water volume			l	-			1.01					
	Nominal water flow	Cooling		l/min	14.9	17.2	20.4	24.7 (2)	27.6 (2)	31.9 (2)	26.1 (2)	31.9 (2)	38.2 (2)
		Heating		l/min	17.5	19.5	23.5	28.3 (2)	32.6 (2)	36.9 (2)	31.2 (2)	35.5 (2)	39.8 (2)
Air heat exchanger	Type				Tube type			Hi-XSS (8)					
Hydraulic components	Expansion vessel	Volume		l	6			10					
Compressor	Type				Hermetically sealed swing compressor			Hermetically sealed scroll compressor					
	Quantity				1								
Fan	Type				Propeller fan								
	Quantity				1			2					
	Air flow rate	Cooling	Nom.	m^3/min	-			96	100	97	-		
		Heating	Nom.	m^3/min	-			90			-		
Fan motor	Speed	Cooling	Nom.	rpm	-			780					
		Heating	Nom.	rpm	-			760					
		Steps			-			8					
Sound power level	Cooling	Nom.		dBA	62		63	64 (2)					66 (2)
	Heating	Nom.		dBA	-			64 (2)					
Sound pressure level	Cooling	Nom.		dBA	48		50	51 (2)					52 (2)
	Heating	Nom.		dBA	48		49	51 (2)					
	Night quiet mode	Cooling		dBA	-			45					46
		Heating		dBA	-			42					43
Operation range	Water side	Cooling	Min.~Max.	°CDB	5~20			5~22					
		Heating	Min.~Max.	°CDB	25~50			25~50					
	Air side	Cooling	Min.~Max.	°CDB	10~43			10~46					
		Heating	Min.~Max.	°CDB	-15~25			-15~35					
Refrigerant	Type				R-410A								
	Charge			kg	1.7			2.95					
	Control				Inverter			Electronic expansion valve					
	Circuits	Quantity			1								
Water circuit	Piping connections diameter			inch	-			G 5/4" (female)					
	Piping			inch	-			5/4"					
Piping connections	Water heat exchanger inlet / outlet				1" MBSP			-					
	Water heat exchanger drain				5/16 SAE flare			-					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230						3N~/50/400		

(1) Underfloor program: cooling Ta 35°C - LWE 18°C (Dt: 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (Dt: 5°C) (2) Fan coil program: cooling Ta 35°C - LWE 7°C (Dt: 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (Dt: 5°C)

EUWY(N-P-B)-KBZW1

µC²SE

- Daikin scroll compressor
- Reduced installation time thanks to integrated pump and/or buffer tank
- Possibility for a 200l buffer tank
- Low operating sound level
- Easy maintenance
- Main switch
- Water flow switch
- 3 different design options available:
  - EUWYN chiller without integrated hydraulic module;
  - EUWYP chiller with integrated hydraulic module (pump, expansion vessel, hydraulic components);
  - EUWYB chiller with integrated hydraulic module (buffertank, pump, expansion vessel, hydraulic components)

Heating & Cooling

EUWY-KBZW1					N5	P5	B5	N8	P8	B8	N10	P10	B10	N12	P12	B12	N16	P16	B16	N20	P20	B20	N24	P24	B24
Cooling capacity	Nom.			kW	9.05	9.42		17.0	17.5		20.8	21.5		24.8	25.4		34.1	35.0		39.8	40.9		49.8	50.9	
Heating capacity	Nom.			kW	12.0	11.4		18.6	17.9		24.2	23.3		27.2	26.0		37.1	35.7		46.2	44.5		54.2	52.5	
Power input	Cooling	Nom.		kW	3.82	3.91		7.51	7.47		8.65	8.69		11.5			14.9	15.2		16.4	16.6		22.8	22.9	
	Heating	Nom.		kW	4.62	4.52		7.14	6.88		9.14	8.98		10.9	10.4		14.2	14.0		17.5	17.1		21.6	21.1	
Capacity steps				%	0-100												0-50-100								
EER					2.37	2.41		2.26	2.34		2.40	2.47		2.16	2.21		2.29	2.30		2.43	2.46		2.18	2.22	
COP					2.60	2.52		2.61	2.60		2.65	2.59		2.50			2.61	2.55		2.64	2.60		2.51	2.49	
Dimensions	Unit	HeightxWidthxDepth		mm	1,230x1,290x734						1,450x1,290x734						1,321x2,580x734			1,541x2,580x734					
Weight	Unit			kg	163	181	193	227	241	253	258	272	284	258	272	284	455	473	485	516	534	546	516	534	546
	Operation weight			kg	165	184	252	230	244	312	261	275	343	261	275	343	461	482	550	522	544	612	522	544	612
Water heat exchanger	Type				Brazed plate																				
	Water volume			l	1.14			1.615				1.9		2.375			2.964			3.9			4.524		
	Nominal water flow	Cooling		l/min	26			49				60		72			98			115			143		
		Heating		l/min	34			53				69		77			106			132			155		
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	10			25				24		33			12						19		
		Heating	Heat exchanger	kPa	17			29				31		38			14			16			22		
Air heat exchanger	Type				Cross fin coil/Hi-X tubes and PE coated waffle louvre fins																				
Pump	Nominal ESP unit	Cooling		kPa	-	232		-	149		-	167		-	123		-	249		-	229		-	185	
Hydraulic components	Expansion vessel	Volume		l	-	12		-	12		-	12		-	12		-	12		-	12		-	12	
Compressor	Type				Hermetically sealed scroll compressor																				
	Quantity				1												2								
Fan	Type				Axial																				
	Quantity				2												4								
Fan group	Air flow rate	Cooling	Nom.	m^3/min	160 (per 2 fans)			170 (per 2 fans)																	
Sound power level	Cooling	Nom.		dBA	67			76			78						79			81					
Operation range	Water side	Cooling	Min.~Max.	°CDB	-10~25																				
		Heating	Min.~Max.	°CDB	35~50																				
	Air side	Cooling	Min.~Max.	°CDB	-15~43																				
		Heating	Min.~Max.	°CDB	-10~21																				
Refrigerant	Type				R-407C																				
	Control				Thermostatic expansion valve																				
	Circuits	Quantity			1												2								
Refrigerant circuit	Charge			kg	4.6			4.7			5.4						5.1			5.4			5.6		
Water circuit	Piping connections diameter			inch	G 1"1/4 (male)												2" male								
	Piping			inch	1-1/4"												2"								
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400																				

EWYQ-BAWN/BAWP

Air cooled scroll inverter heat pump

EWYQ-BAWN/BAWP

BRC21A52

INVERTER

- High efficiency with leader-of-class ESEER
- Minimal starting currents and short payback times
- No buffer tank required for standard applications
- Daikin scroll compressor
- Large operation range (ambient temperature up to 43°C)
- EWYQ-BAWN: naked version
- EWYQ-BAWP: version with pump

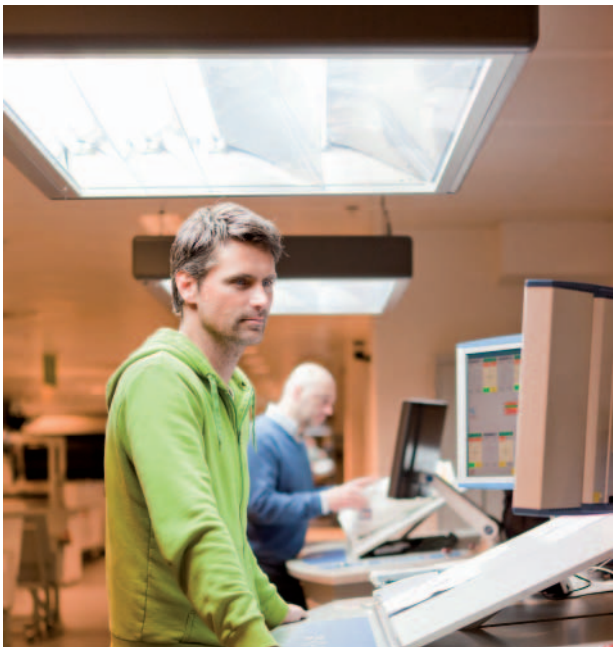
Heating & Cooling

EWYQ-BAWN/BAWP					016	021	025	032	040	050	064
Cooling capacity	Nom.			kW	17.4 (1) / 16.6 (2)	21.7 (1) / 20.7 (2)	25.8 (1) / 24.7 (2)	32.3 (1) / 30.9 (2)	43.4 (1) / 41.5 (2)	51.8 (1) / 49.7 (2)	64.5 (1) / 62.3 (2)
Heating capacity	Nom.			kW	16.2 (1) / 17.0 (2)	20.3 (1) / 21.3 (2)	24.6 (1) / 25.7 (2)	30.7 (1) / 32.1 (2)	40.6 (1) / 42.5 (2)	49.0 (1) / 51.1 (2)	61.5 (1) / 63.7 (2)
Power input	Cooling	Nom.		kW	5.60 (1) / 5.80 (2)	7.25 (1) / 7.59 (2)	9.29 (1) / 9.74 (2)	13.0 (1) / 13.5 (2)	14.7 (1) / 15.4 (2)	18.8 (1) / 19.7 (2)	26.4 (1) / 27.4 (2)
	Heating	Nom.		kW	5.53 (1) / 5.73 (2)	7.10 (1) / 7.44 (2)	8.91 (1) / 9.36 (2)	10.6 (1) / 11.1 (2)	14.0 (1) / 14.7 (2)	17.6 (1) / 18.5 (2)	20.7 (1) / 21.7 (2)
Capacity control	Method				Inverter controlled						
	Minimum capacity			%	25						
EER					3.11 (1) / 2.86 (2)	2.99 (1) / 2.73 (2)	2.78 (1) / 2.54 (2)	2.48 (1) / 2.29 (2)	2.95 (1) / 2.69 (2)	2.76 (1) / 2.52 (2)	2.44 (1) / 2.27 (2)
ESEER					4.33 (1) / 4.21 (2)	4.08 (1) / 4.18 (2)	3.85 (1) / 4.04 (2)	3.39 (1) / 3.62 (2)	4.19 (1) / 4.24 (2)	3.96 (1) / 4.12 (2)	3.64 (1) / 3.78 (2)
COP					2.93 (1) / 2.97 (2)	2.86 (1) / 2.86 (2)	2.76 (1) / 2.75 (2)	2.90 (1) / 2.89 (2)		2.78 (1) / 2.76 (2)	2.97 (1) / 2.94 (2)
Dimensions	Unit	HeightxWidthxDepth		mm	1,684x1,371x774			1,684x1,684x774	1,684x2,358x780		1,684x2,980x780
Weight	Unit			kg	264	317		397	571		730
	Operation weight			kg	267	320		401	577		738
Water heat exchanger	Type				Brazed plate						
	Water volume			l	1.9			2.9	3.8		5.7
	Nominal water flow	Cooling		l/min	50	62		93	124	148	185
		Heating		l/min	46	58		88	116	140	176
	Nominal water pressure drop	Cooling	Total	kPa	20	30				42	30
Air heat exchanger	Type				Hi-XSS						
Compressor	Type				Hermetically sealed scroll compressor						
	Quantity				1	2		3	4		6
Fan	Type				Axial						
	Quantity				1			2			4
	Air flow rate	Cooling	Nom.	m^3/min	171	185		233	370		466
		Heating	Nom.	m^3/min	171	185		233	370		466
Sound power level	Cooling	Nom.		dBA	78			80	81		83
Operation range	Water side	Cooling	Min.~Max.	°CDB	5~20						
		Heating	Min.~Max.	°CDB	25~50						
	Air side	Cooling	Min.~Max.	°CDB	-5~43						
		Heating	Min.~Max.	°CDB	-15~35						
Refrigerant	Type				R-410A						
	Charge			kg	7.6			9.6	15.2		19.2
	Control				Electronic expansion valve						
	Circuits	Quantity			1						
Water circuit	Piping connections diameter			inch	1-1/4" (female)				2" (female)		
	Piping			inch	1-1/4"				1-1/2"		
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400						

(1) EWYQ-BAWN: Naked version (2) EWYQ-BAWP: Version with pump

EWYQ-DAYN

PCASO



- Optimised for use with R-410A
- Reliable and efficient scroll compressors with high EER values
- Anti-corrosion treated aluminium coils
- Low operating sound level
- Easy 'plug and play' installation
- Unit dimensions allow easy transportation
- Fans protected against abnormal operation
- Safety valves in each circuit
- Electronic circuit breakers
- Electronic expansion valve
- True dual plate brazed plate heat exchanger
- Sight glass
- All hydronics can be accessed easily from 3 sides (no surrounding cabinet)
- Separate switchbox for easy access
- Compressors and controls at unit side
- Non hermetic filter/dryer
- Daikin PCASO controller with user friendly LCD interface

Heating & Cooling

EWYQ-DAYN					080	100	130	150	180	210	230	250
Cooling capacity	Nom.			kW	76.6 (1) / 78.1 (2)	100 (1) / 101 (2)	135 (1) / 138 (2)	144 (1) / 147 (2)	182 (1) / 185 (2)	210 (1) / 213 (2)	229 (1) / 233 (2)	251 (1) / 254 (2)
Heating capacity	Nom.			kW	88.2 (1) / 86.5 (2)	115 (1) / 113 (2)	150 (1) / 148 (2)	166 (1) / 163 (2)	200 (1) / 197 (2)	227 (1) / 223 (2)	260 (1) / 256 (2)	283 (1) / 279 (2)
Power input	Cooling	Nom.		kW	26.8 (1) / 27.5 (2)	36.7 (1) / 37.1 (2)	48.4 (1) / 49.0 (2)	56.5 (1) / 57.1 (2)	64.8 (1) / 65.7 (2)	76.5 (1) / 77.2 (2)	83.6 (1) / 83.8 (2)	95.1 (1) / 95.1 (2)
	Heating	Nom.		kW	30.5 (1) / 31.0 (2)	38.7 (1) / 39.1 (2)	50.5 (1) / 51.1 (2)	59.8 (1) / 60.2 (2)	69.2 (1) / 69.9 (2)	78.5 (1) / 79.1 (2)	85.9 (1) / 86.0 (2)	98.6 (1) / 98.5 (2)
Capacity steps				%	0-50-100		0-25-50-75-100		21/29-43/50/57-71/79-100	0-25-50-75-100	22/28-44/50/56-72/78-100	0-25-50-75-100
EER					2.86 (1) / 2.84 (2)	2.72 (1) / 2.72 (2)	2.79 (1) / 2.82 (2)	2.55 (1) / 2.57 (2)	2.81 (1) / 2.82 (2)	2.75 (1) / 2.76 (2)	2.74 (1) / 2.78 (2)	2.64 (1) / 2.67 (2)
ESEER					3.84 (1) / 3.76 (2)	3.68 (1) / 3.68 (2)	4.03 (1) / 3.99 (2)	3.84 (1) / 3.84 (2)	4.06 (1) / 4.02 (2)	3.94 (1) / 3.96 (2)	3.93 (1) / 4.04 (2)	3.76 (1) / 3.87 (2)
COP					2.89 (1) / 2.79 (2)	2.97 (1) / 2.89 (2)	2.97 (1) / 2.90 (2)	2.78 (1) / 2.71 (2)	2.89 (1) / 2.82 (2)		3.03 (1) / 2.98 (2)	2.87 (1) / 2.83 (2)
Dimensions	Unit	HeightxWidthxDepth		mm	2,311x2,000x2,566		2,311x2,000x2,631		2,311x2,000x3,081		2,311x2,000x4,850	
Weight	Unit			kg	1,400	1,450	1,550	1,600	1,850	1,900	3,200	3,300
	Operation weight			kg	1,415	1,465	1,567	1,619	1,875	1,927	3,239	3,342
Water heat exchanger	Type				Brazed plate, one per unit							
	Nominal water flow	Cooling		l/min	221	287	390	416	525	605	662	722
		Heating		l/min	251	327	427	473	570	645	740	806
	Nominal water pressure drop	Cooling	Total	kPa	36		43	38	41	44	39	38
		Heating	Total	kPa	47	46	51	49	48	50	48	46
Air heat exchanger	Type				Cross fin coil/Hi-Xss tubes and poly ethylene coated waffle fins							
Compressor	Type				Scroll compressor							
	Quantity				2		4		2	4	2	4
Compressor 2	Quantity				-				2	-	2	-
Fan	Quantity				4				6		8	
	Air flow rate	Nom.		m^3/min	780		800	860	1,290		1,600	
	Speed			rpm	880		900		970		900	
Sound power level	Cooling	Nom.		dBA	86		88	89	90		91	
Operation range	Water side	Cooling	Min.~Max.	°CDB	-10~25							
		Heating	Min.~Max.	°CDB	25~50							
	Air side	Cooling	Min.~Max.	°CDB	-15~43							
		Heating	Min.~Max.	°CDB	-10~21							
Refrigerant	Type				R-410A							
	Control				Electronic expansion valve							
	Circuits	Quantity			1		2					
Refrigerant circuit	Charge			kg	33	37	23	26	32		43	
Refrigerant circuit 2	Charge			kg	-		23	26	32		43	
Piping connections	Water heat exchanger inlet / outlet				3" OD						3"	
	Water heat exchanger drain				1/2"G							
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400							

(1) For -N models (standard) (2) For -P models (with optional pump / + OPSP) and for -B models (with optional pump and buffertank / + OPSP + OPBT)

EWYQ-F-XS/XL

Air cooled multiple scroll heat pump

V-shape

EWYQ-F-XS/XL

W-shape

EWYQ-F-XS/XL

MicroTech III

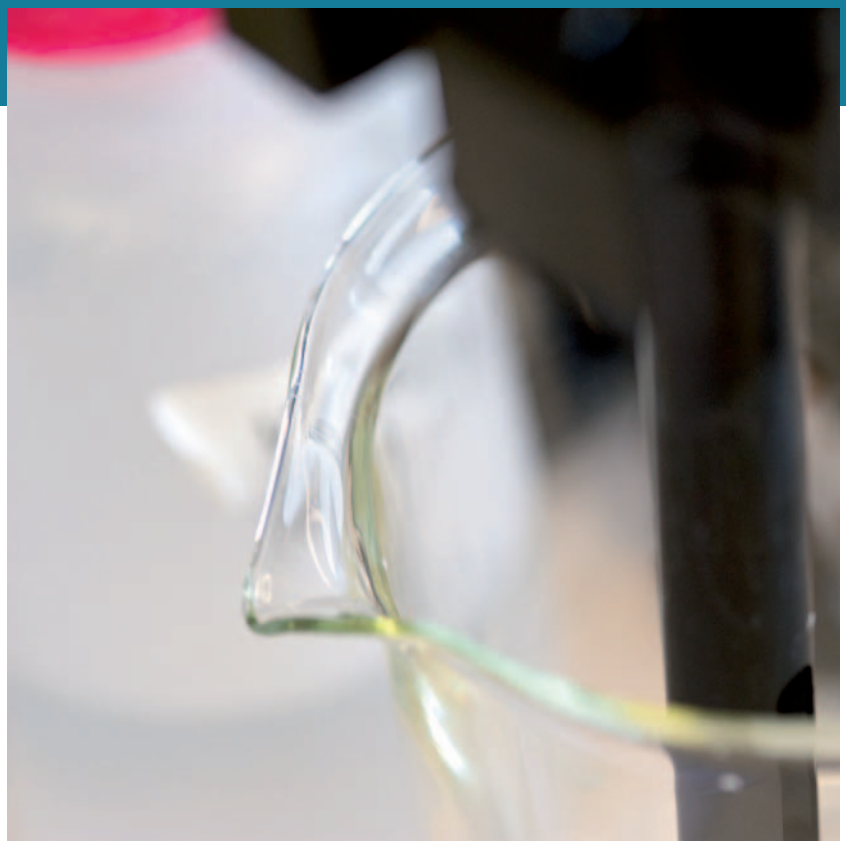
- Class A efficiency in heating mode
- Extended operation range: ambient temperatures from -10°C up to +46°C in cooling mode and down to -17°C in heating mode
- 2 truly independent refrigerant circuits
- Reduced footprint thanks to the V-shaped frame
- Reliable and efficient scroll compressors with high EER values
- Chiller series design entirely based on new European directives (EN14511, EN14825)
- Top serviceability level thanks to reduced weight, compact footprint and optimized components accessibility
- The unit can be equipped with a hydraulic module optimizing installation time, space and cost
- Wide range of available options and accessories
- Inverter fans management for enhanced part load efficiencies
- MicroTech III controller with superior control logic and easy interface
- Nordic kit option to improve the chiller working conditions in heating mode

Heating & Cooling

High efficiency Standard/low sound

EWYQ-F-XS/XL						160	190	210	230	310	340	380	400	430	510	570	630
Cooling capacity	Nom.			kW		164	184	205	231	304	335	376	401	427	501	565	624
Heating capacity	Nom.			kW		173	197	227	254	329	362	404	429	463	535	607	674
Power input	Cooling	Nom.		kW		57.6	63.3	70.3	79.3	102	114	129	138	145	172	195	214
	Heating	Nom.		kW		54.0	61.6	70.5	79.2	101	113	126	133	140	167	190	210
Capacity control	Method					Step											
EER						2.84	2.91	2.92		2.99	2.93	2.91	2.90	2.94	2.91	2.90	2.91
ESEER						3.73	3.89	3.81	3.71	4.07	4.19	3.99	3.96	4.14	4.20	3.98	4.06
COP						3.20		3.22	3.21	3.24	3.21		3.23	3.30	3.21	3.20	3.21
Dimensions	Unit	HeightxWidthxDepth		mm		2,270x1,200x4,370		2,270x1,200x5,270		2,220x2,258x4,125			2,220x2,258x5,025		2,220x2,258x5,925		2,220x2,258x6,825
Weight (XS)	Unit			kg		1,430	1,850	2,300	2,350	2,900	2,910	2,920	3,730	3,750	4,250	4,280	4,670
	Operation weight			kg		1,470	1,890	2,340	2,390	2,980	2,990	3,000	3,840	3,850	4,370	4,400	4,780
Weight (XL)	Unit			kg		1,520	1,940	2,400	2,440	3,060	3,070	3,080	3,890	3,900	4,400	4,440	4,820
	Operation weight			kg		1,570	1,980	2,440	2,480	3,130	3,150	3,160	3,990	4,010	4,520	4,550	4,940
Water heat exchanger	Type					Plate heat exchanger											
	Water volume			l		18				44			60		70		
	Nominal water flow	Cooling		l/s		7.8	8.8	9.8	11.1	14.6	16.0	18.0	19.2	20.4	24.0	27.1	29.9
		Heating		l/s		8.3	9.5	10.9	12.2	15.9	17.5	19.5	20.7	22.3	25.8	29.3	32.5
	Nominal water pressure drop	Cooling	Heat exchanger	kPa		22	28	36	40	21	27	30	29	34	37	42	56
		Heating	Heat exchanger	kPa		25	32	43	50	25	31	37	33	40	43	50	66
Air heat exchanger	Type					High efficiency fin and tube type with integral subcooler											
Compressor	Type					Scroll compressor											
	Quantity					4									6		
Fan	Type					Direct propeller											
	Quantity					4		5		8			10		12		14
	Air flow rate	Nom.		l/s		22,577	21,593	26,992		43,187			55,213	53,983	64,780		75,577
	Speed			rpm		900											
Sound power level (XS)	Cooling	Nom.		dBA		92	94	95		97		98	99			100	
Sound power level (XL)	Cooling	Nom.		dBA		89	92	93		95		95	96		97		98
Sound pressure level (XS)	Cooling	Nom.		dBA		72	74	75	76	77		78		79			80
Sound pressure level (XL)	Cooling	Nom.		dBA		70	73		74	75			76		77		
Operation range	Water side	Cooling	Min.~Max.	°CDB		-15~15											
		Heating	Min.~Max.	°CDB		25~50											
	Air side	Cooling	Min.~Max.	°CDB		-10~46											
		Heating	Min.~Max.	°CDB		-17~20											
Refrigerant	Type					R-410A											
	Charge			kg		38	58			84			92	94	105		117
	Circuits	Quantity				2											
Piping connections	Evaporator water inlet/outlet (OD)					2.5"				3"							
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400											

EWYQ-F-XR



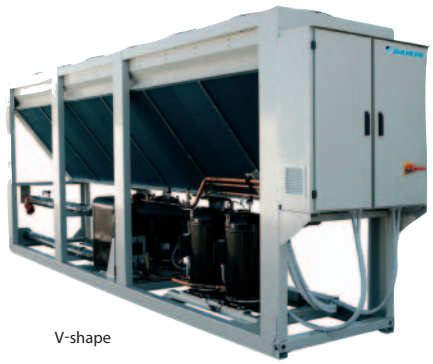
Heating & Cooling

High efficiency
Reduced sound

EWYQ-F-XR					160	180	200	220	300	330	360	390	420	490	550	610
Cooling capacity	Nom.			kW	158	178	200	223	296	326	363	389	415	487	546	606
Heating capacity	Nom.			kW	173	197	227	254	329	362	404	429	463	535	607	674
Power input	Cooling	Nom.		kW	56.2	62.3	68.4	77.9	97.4	111	127	134	141	167	191	210
	Heating	Nom.		kW	54.0	61.6	70.5	79.2	101	113	126	133	140	167	190	210
Capacity control	Method				Step											
EER					2.81	2.86	2.92	2.87	3.04	2.93	2.86	2.90	2.93	2.91	2.85	2.89
ESEER					4.33	4.39	4.38	4.19	4.63	4.68	4.37	4.44	4.60	4.83	4.50	4.62
COP					3.20		3.22	3.21	3.24	3.21		3.23	3.30	3.21	3.20	3.21
Dimensions	Unit	HeightxWidthxDepth		mm	2,270x1,200x4,370		2,270x1,200x5,270		2,220x2,258x4,125			2,220x2,258x5,025		2,220x2,258x5,925		2,220x2,258x6,825
Weight	Unit			kg	1,520	1,940	2,400		3,060	3,070	3,080	3,890	3,900	4,400		4,820
	Operation weight			kg	1,570	1,980	2,440	2,480	3,130	3,150	3,160	3,990	4,010	4,520	4,550	4,940
Water heat exchanger	Type				Plate heat exchanger											
	Water volume			l	18				44			60		70		
	Nominal water flow	Cooling		l/s	7.5	8.5	9.6	10.7	14.2	15.6	17.4	18.6	19.8	23.3	26.1	29.0
		Heating		l/s	8.3	9.5	10.9	12.2	15.9	17.5	19.5	20.7	22.3	25.8	29.3	32.5
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	20	26	34	38	20	25	28	27	32	35	39	53
		Heating	Heat exchanger	kPa	25	32	43	50	25	31	37	33	40	43	50	66
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler											
Compressor	Type				Scroll compressor											
	Quantity				4									6		
Fan	Type				Direct propeller											
	Quantity				4		5		8			10		12		14
	Air flow rate	Nom.		l/s	17,380	16,564	20,706		33,129			42,431	41,411	49,693		57,975
		Heating	Nom.	l/s	21,047	20,433	25,542		40,867			51,850	51,084	61,300		71,517
	Speed			rpm	700											
Sound power level	Cooling	Nom.		dBA	83	84	86		88		89	90		92		
Sound pressure level	Cooling	Nom.		dBA	64	65	66	67	69			70		71		
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~15											
		Heating	Min.~Max.	°CDB	25~50											
	Air side	Cooling	Min.~Max.	°CDB	-10~46											
		Heating	Min.~Max.	°CDB	-17~20											
Refrigerant	Type				R-410A											
	Circuits	Quantity			2											
Refrigerant circuit	Charge			kg	38	58			84			92	94	105		117
Piping connections	Evaporator water inlet/outlet (OD)				2.5"				3"							
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

EWYQ-GZXS

Air cooled multi-scroll inverter heat pump



V-shape

EWYQ-GZ

W-shape

EWYQ-GZ

MicroTech III

- In-house designed DC-inverter scroll compressor, unique in the market and based on the latest Daikin technology development
- Built-in redundancy (up to 12 compressors)
- Highest ESEER in its class (up to 5)
- Low inrush current
- Seasonal quietness

INVERTER

Heating & Cooling

High efficiency
Standard sound

EWYQ-GZXS					190	260	310	330	380
Cooling capacity	Nom.			kW	193	261	310	327	380
Heating capacity	Nom.			kW	182	246	289	314	362
Power input	Cooling	Nom.		kW	72.2	93.8	122	116	143
	Heating	Nom.		kW	70.5	93.1	115	119	142
Capacity control	Method				Stepless				
	Minimum capacity			%	14.4	14.3	14.9	14.3	14.8
EER					2.67	2.78	2.55	2.81	2.65
ESEER					4.74	4.77	4.86	4.71	4.69
COP					2.57	2.65	2.52	2.63	2.56
Dimensions	Unit	HeightxWidthxDepth		mm	2,270x1,290x4,450	2,223x2,234x3,560		2,223x2,234x4,460	
Weight	Unit			kg	1,650	2,200	2,250	2,500	2,600
	Operation weight			kg	1,727	2,333	2,397	2,675	2,788
Water heat exchanger	Type				Plate heat exchanger				
	Water volume			l	29	61	75	79	92
	Nominal water flow	Cooling		l/s	9.2	12.5	14.8	15.6	18.1
		Heating		l/s	8.8	11.9	14.0	15.2	17.5
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	26	14	15	16	18
		Heating	Heat exchanger	kPa	22	11	13	14	18
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler				
Compressor	Type				DC Inverter Scroll				
	Quantity				6	8	10		12
Fan	Type				Direct propeller				
	Quantity				4	6		8	
	Air flow rate	Nom.		l/s	17,473	26,209		34,946	
	Speed			rpm	920				
Sound power level	Cooling	Nom.		dBA	93	94		96	
Sound pressure level	Cooling	Nom.		dBA	76	78			79
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~20				
		Heating	Min.~Max.	°CDB	25~50				
	Air side	Cooling	Min.~Max.	°CDB	-18~43				
		Heating	Min.~Max.	°CDB	-10~20				
Refrigerant	Type				R-410A				
	Charge			kg	48	72		96	
	Circuits	Quantity			1	2			
Piping connections	Evaporator water inlet/outlet (OD)				2.5"	4.5"			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				

EWYQ-GZXR

Heating & Cooling

High efficiency
Reduced sound

EWYQ-GZXR					190	260	300	320	370
Cooling capacity	Nom.			kW	188	256	302	321	371
Heating capacity	Nom.			kW	182	246	289	314	362
Power input	Cooling	Nom.		kW	73.0	94.5	124	117	145
	Heating	Nom.		kW	70.5	93.1	115	119	142
Capacity control	Method				Stepless				
	Minimum capacity			%	14.4	14.3	14.9	14.3	14.8
EER					2.58	2.71	2.44	2.75	2.56
ESEER					4.77	4.83	4.99	5.00	4.98
COP					2.57	2.65	2.52	2.63	2.56
Dimensions	Unit	HeightxWidthxDepth		mm	2,270x1,290x4,450	2,223x2,234x3,560		2,223x2,234x4,460	2,223x2,241x4,460
Weight	Unit			kg	1,668	2,224	2,280	2,530	2,636
	Operation weight			kg	1,795	2,457	2,527	2,805	2,924
Water heat exchanger	Type				Plate heat exchanger				
	Water volume			l	29	61	75	79	92
	Nominal water flow	Cooling		l/s	9.0	12.2	14.5	15.3	17.7
		Heating		l/s	8.8	11.9	14.0	15.2	17.5
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	25	13	14	15	17
		Heating	Heat exchanger	kPa	22	11	13	14	18
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler				
Compressor	Type				DC Inverter Scroll				
	Quantity				6	8	10		12
Fan	Type				Direct propeller				
	Quantity				4	6		8	
	Air flow rate	Nom.		l/s	15,131	22,697		30,263	
	Speed			rpm	715				
Sound power level	Cooling	Nom.		dBA	89	91		92	
Sound pressure level	Cooling	Nom.		dBA	72	74		75	
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~20				
		Heating	Min.~Max.	°CDB	25~50				
	Air side	Cooling	Min.~Max.	°CDB	-18~43				
		Heating	Min.~Max.	°CDB	-10~20				
Refrigerant	Type				R-410A				
	Charge			kg	48	72		92	96
	Circuits	Quantity			1	2			
Piping connections	Evaporator water inlet/outlet (OD)				2.5"	4.5"			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				

EWYD-BZSS

Air cooled screw inverter heat pump

EWYD-BZSS/SL

PCO2

INVERTER

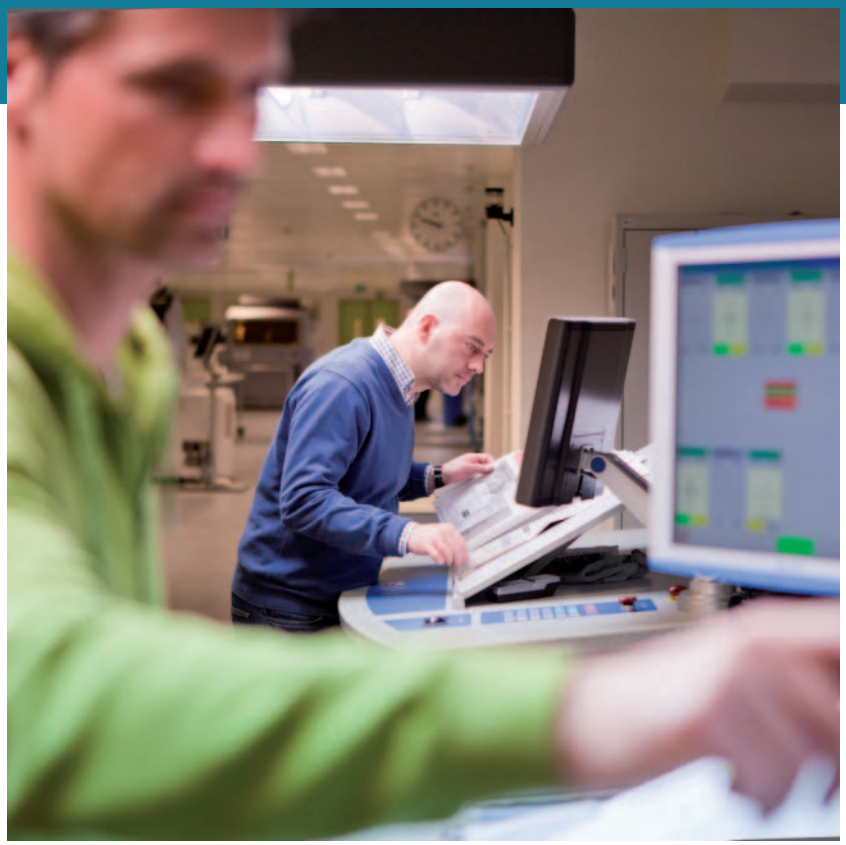
- Optimised for use with R-134a
- Ideal solution for commercial comfort cooling and/or heating applications
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Low starting current
- No gas boiler required
- Optimised defrost cycles
- Optimum ESEER values
- Partial and total heat recovery option available
- PID microprocessor control
- Power factor up to 0.95
- 2-3 truly independent refrigerant circuits
- Standard operation range down to -12°C

Heating & Cooling

Standard efficiency
Standard sound

EWYD-BZSS					250	270	290	320	340	370	380	410	440	460	510	520	580
Cooling capacity	Nom.			kW	253	272	291	323	337	363	380	411	434	455	503	520	580
Heating capacity	Nom.			kW	271	298	325	334	351	381	412	445	465	477	532	560	618
Power input	Cooling	Nom.		kW	91.3	101	109	117	126	136	144	154	165	163	180	188	218
	Heating	Nom.		kW	91.5	100	108	118	127	134	143	157	167	166	177	185	208
Capacity control	Method				Stepless												
	Minimum capacity			%	13									9			
EER					2.77	2.70	2.66	2.75	2.69	2.68	2.65	2.68	2.64	2.79	2.80	2.76	2.66
ESEER					3.93	3.92	3.89	3.95	3.89	3.90	3.82	3.91	3.89	4.18	4.01		3.93
COP					2.96	2.97	3.01	2.82	2.77	2.85	2.88	2.84	2.79	2.87	3.01	3.03	2.97
Dimensions	Unit	HeightxWidthxDepth		mm	2,335x2,254x3,547			2,335x2,254x4,381				2,335x2,254x5,281		2,335x2,254x6,583			
Weight	Unit			kg	3,410	3,455	3,500	3,870		3,940	4,010	4,390		5,015	5,495	5,735	
	Operation weight			kg	3,550	3,595	3,640	4,010		4,068	4,138	4,518		5,255	5,724	5,964	5,953
Water heat exchanger	Type				Single pass shell & tube												
	Water volume			l	138			133		128				240	229		218
	Nominal water flow	Cooling		l/s	12.12	13.03	13.94	15.46	16.21	17.42	18.25	19.72	20.81	21.83	24.11	24.92	27.87
		Heating		l/s	12.89	14.18	15.49	15.89	16.66	18.11	19.57	21.15	22.14	22.68	25.33	26.65	29.39
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	37	42	48	53	58	53	57	46	51	61	50	53	65
		Heating	Heat exchanger	kPa	42.0	49.0	58.0	55.0	60.0	57.0	65.0	52.0	57.0	66.0	55.0	60.0	71.0
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler												
Compressor	Type				Semi-hermetic single screw compressor												
	Quantity				2									3			
Fan	Type				Direct propeller												
	Quantity				6			8				10		12			
	Air flow rate	Nom.		l/s	31,728			42,304				52,880		63,456			
	Speed			rpm	920												
Sound power level	Cooling	Nom.		dBA	100.5			101.2				101.8		103.6			
	Heating	Nom.		dBA	100.5			101.2				101.8		103.6			
Sound pressure level	Cooling	Nom.		dBA	82.1			82.3				82.5		83.7			
	Heating	Nom.		dBA	82.1			82.3			82.5			83.7			
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15												
		Heating	Min.~Max.	°CDB	35~55												
	Air side	Cooling	Min.~Max.	°CDB	-12~45												
		Heating	Min.~Max.	°CDB	-12~20												
Refrigerant	Type				R-134a												
	Charge			kg	88	94	100	118		121.0	124	148		177	183	186	
	Circuits	Quantity			2									3			
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm									219.1mm			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

EWYD-BZSL



Heating & Cooling

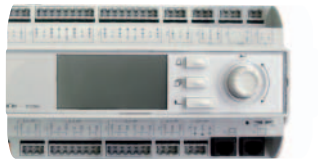
Standard efficiency
Low sound

EWYD-BZSL					250	270	290	320	330	360	370	400	430	450	490	510	570
Cooling capacity	Nom.			kW	247	265	290	315	330	354	370	402	423	446	491	508	564
Heating capacity	Nom.			kW	271	298	325	334	350	380	412	444	465	477	532	560	618
Power input	Cooling	Nom.		kW	89.5	99.5	110	114	123	133	144	150	163	158	176	185	217
	Heating	Nom.		kW	91.5	100	108	118	126	133	143	156	167	166	177	185	208
Capacity control	Method				Stepless												
	Minimum capacity			%	13									9			
EER					2.76	2.66	2.63	2.75	2.67	2.65	2.58	2.67	2.60	2.82	2.79	2.75	2.61
ESEER					4.05	4.04	3.99	4.16	4.05	4.04	4.01	4.06	4.02	4.18	4.16	4.10	3.98
COP					2.96	2.97	3.01	2.83	2.77	2.85	2.89	2.84	2.79	2.87	3.01	3.03	2.97
Dimensions	Unit	HeightxWidthxDepth		mm	2,335x2,254x3,547			2,335x2,254x4,381				2,335x2,254x5,281		2,335x2,254x6,583			
Weight	Unit			kg	3,750	3,795	3,840	4,210		4,280	4,350	4,730		5,525	6,005	6,245	
	Operation weight			kg	3,888	3,933	3,978	4,343		4,408	4,478	4,858		5,765	6,234	6,474	6,463
Water heat exchanger	Type				Single pass shell & tube												
	Water volume			l	138			133		128				240	229		218
	Nominal water flow	Cooling		l/s	11.83	12.70	13.89	15.12	15.83	16.98	17.77	19.28	20.30	21.39	23.56	24.34	27.11
		Heating		l/s	12.89	14.18	15.49	15.89	16.66	18.11	19.57	21.15	22.14	22.68	25.33	26.65	29.39
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	36	40	48	51	55	50	55	44	48	59	48	51	62
		Heating	Heat exchanger	kPa	42.0	49.0	58.0	55.0	60.0	57.0	65.0	52.0	57.0	66.0	55.0	60.0	71.0
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler												
Compressor	Type				Semi-hermetic single screw compressor												
	Quantity				2									3			
Fan	Type				Direct propeller												
	Quantity				6			8				10		12			
	Air flow rate	Cooling	Nom.	l/s	24,432			32,576				40,720		48,864			
		Heating	Nom.	l/s	31,728			42,304				52,880		63,456			
Fan motor	Speed	Cooling	Nom.	rpm	715												
		Heating	Nom.	rpm	920												
Sound power level	Cooling	Nom.		dBA	94.0			94.7				95.3		97.0			
	Heating	Nom.		dBA	94.9			96.1				96.7		98.4			
Sound pressure level	Cooling	Nom.		dBA	75.6			75.8				76.0		77.2			
	Heating	Nom.		dBA	76.5			77.2				77.4		78.6			
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15												
		Heating	Min.~Max.	°CDB	35~55												
	Air side	Cooling	Min.~Max.	°CDB	-12~45												
		Heating	Min.~Max.	°CDB	-12~20												
Refrigerant	Type				R-134a												
	Charge			kg	88	94	100	118		121	124	148		177	183	186	
	Circuits	Quantity			2									3			
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm									219.1mm			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

ERAD-E-SS

Air cooled screw condensing unit

ERAD170,200E-SS
ERAD160,190E-SL



MicroTech III

- One refrigerant circuit with single screw compressor
- Compact design
- Large operation range (ambient temperature down to -18°C)
- Extensive option list (heat recovery option available)

Cooling only

Standard efficiency
Standard sound

ERAD-E-SS					120	140	170	200	220	250	310	370	440	490
Cooling capacity	Nom.			kW	121	144	165	196	219	251	309	370	435	488
Power input	Cooling	Nom.		kW	42.1	51.2	57.7	65.6	74.2	77.0	93.8	123	148	161
Capacity control	Method				Stepless									
	Minimum capacity			%	25.0									
EER					2.88	2.82	2.86	2.99	2.95	3.27	3.30	3.02	2.95	3.02
Dimensions	Unit	HeightxWidthxDepth		mm	2,273x1,292x2,165		2,273x1,292x3,065		2,273x1,292x3,965		2,223x2,236x3,070			
Weight	Unit			kg	1,584		1,741		1,936		2,679			
	Operation weight			kg	1,617		1,781		1,981		2,756			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler									
Compressor	Type				Single screw compressor									
	Quantity				1									
Fan	Type				Direct propeller									
	Air flow rate	Nom.		l/s	10,924	10,576	16,386	15,865	21,848	21,153	32,772		31,729	
	Quantity				2		3		4		6			
Fan motor	Speed	Cooling	Nom.	rpm	900									
Sound power level	Cooling	Nom.		dBA	92				93	94		95		
Sound pressure level	Cooling	Nom.		dBA	74					75			76	
Operation range	Saturated suction temp.		Min-Max	°C	-9~12									
	Condenser		Min-Max	°C	-18~48									
Refrigerant	Type				R-134a									
	Charge			kg	17	20	22	27	29	32	45		54	58
	Circuits	Quantity			1									
Piping connections	Evaporator water inlet/outlet (OD)				76mm							139.7mm		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

ERAD-E-SL

Cooling only

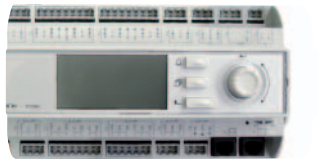
Standard efficiency
Low sound

ERAD-E-SL					120	140	160	190	210	240	300	350	410	460
Cooling capacity	Nom.			kW	116	137	159	187	209	243	298	352	409	462
Power input	Cooling	Nom.		kW	42.4	52.5	57.7	66.3	73.9	78.1	91.9	122	150	167
Capacity control	Method				Stepless									
	Minimum capacity			%	25.0									
EER					2.74	2.61	2.75	2.83		3.11	3.24	2.88	2.73	2.76
Dimensions	Unit	HeightxWidthxDepth		mm	2,273x1,292x2,165		2,273x1,292x3,065		2,273x1,292x3,965		2,223x2,236x3,070			
Weight	Unit			kg	1,684		1,841		2,036		2,789			
	Operation weight			kg	1,717		1,881		2,081		2,886			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler									
Compressor	Type				Single screw compressor									
	Quantity				1									
Fan	Type				Direct propeller									
	Air flow rate	Nom.		l/s	8,373	8,144	12,560	12,216	16,747	16,288	25,120		24,432	
	Quantity				2		3		4		6			
Fan motor	Speed	Cooling	Nom.	rpm	700									
Sound power level	Cooling	Nom.		dBA	89		90		91	92				93
Sound pressure level	Cooling	Nom.		dBA	71					73				74
Operation range	Saturated suction temp.		Min-Max	°C	-9~12									
	Condenser		Min-Max	°C	-18~48									
Refrigerant	Type				R-134a									
	Charge			kg	17	20	22	27	29	32	45		54	58
	Circuits	Quantity			1									
Piping connections	Condenser water inlet/outlet (OD)				-									
	Evaporator water inlet/outlet (OD)				76mm							139.7mm		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

EWWQ-B-SS

Water cooled screw chiller

EWWQ-B-SS/XS



MicroTech III

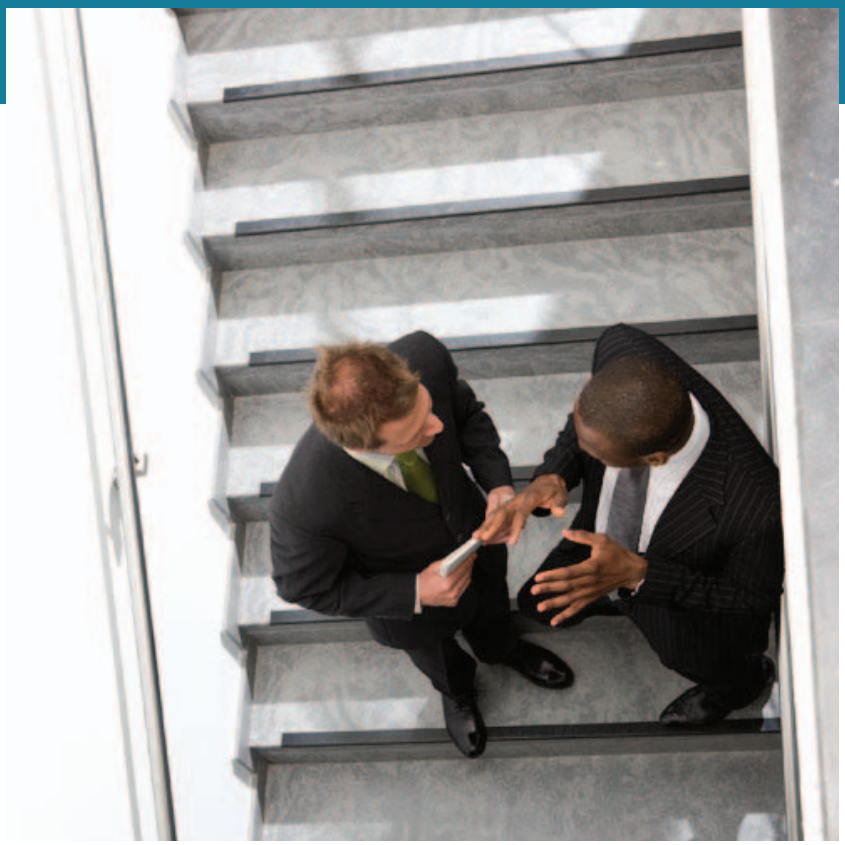
- All models are PED pressure vessel approved
- 1 or 2 stepless single-screw compressors
- 1 or 2 truly independent refrigerant circuits
- Shell and tube heat exchanger
- Optimised for use with R-410A
- Standard electronic expansion valve
- Compact design
- Partial heat recovery available
- MicroTech III controller with superior control logic and easy interface

Cooling only

Standard efficiency
Standard sound

EWWQ-B-SS					380	460	560	640	730	800	860	870	960	C10	C11	C12	C13	C14	C15	C16	C17	C19	C20
Cooling capacity	Nom.			kW	379	462	560	635	724	793	859	868	956	1,003	1,050	1,181	1,251	1,320	1,452	1,595	1,754	1,896	2,055
Power input	Cooling	Nom.		kW	89.2	109	133	150	170	179	207	199	218	247	243	268	285	303	337	373	407	441	477
Capacity control	Method				Stepless																		
	Minimum capacity			%	12.5					25.0	12.5	25.0		12.5	25.0								
EER					4.24		4.21	4.22	4.25	4.42	4.15	4.36	4.38	4.07	4.32	4.41	4.38	4.35	4.31	4.28	4.31	4.30	4.31
ESEER					4.61	4.59	4.67		4.62	4.95	4.52	4.91	4.90	4.42	4.86	4.96		4.89	4.81	4.76	4.61	4.63	4.54
Dimensions	Unit	HeightxWidth xDepth		mm	1,849x1,140 x3,373		2,001x1,276 x3,454		1,848x1,314 x3,535	2,158x1,350 x5,020	1,848x1,314 x2,001	2,158x1,350 x5,020		1,848x1,314 x2,001	2,378x1,350 x4,894	2,455x1,350 x5,070			2,495x1,350 x4,892			2,495x1,350 x4,865	
Weight	Unit			kg	1,933	1,967	2,283	2,332	2,407	3,921	2,427	3,949	3,988	2,457	4,344	4,529	4,536	4,607	4,988	4,999	5,053	5,204	5,289
	Operation weight			kg	2,135	2,169	2,543	2,628	2,777	4,422	2,795	4,463	4,496	2,812	4,780	5,186	5,200	5,280	5,602	5,615	5,670	5,881	5,970
Water heat exchanger - evaporator	Type				Single pass shell and tube																		
	Water volume			l	124	118	176	170	274	344	266	344	325	251	325	538			505		495	539	527
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	48	63	44	47	54	53	49	62	58	56	69	45	49	54	59	69	88	97	120
Compressor	Type				Semi-hermetic single screw compressor																		
	Quantity				1					2	1	2		1	2								
Sound power level	Cooling	Nom.		dBA	100	101	102			105	102	105		103	105		107		106		107		108
Sound pressure level	Cooling	Nom.		dBA	82	83	84		83	84	85			86		87			86	87		88	
Operation range	Evaporator	Cooling	Min.	°CDB	-4																		
			Max.	°CDB	10																		
	Condenser	Cooling	Min.	°CDB	25																		
			Max.	°CDB	45																		
Refrigerant	Type				R-410A																		
	Circuits	Quantity			1					2	1	2		1	2								
Refrigerant circuit	Charge			kg	80		90		80		90		85	100	90	100			130				
Refrigerant circuit 2	Charge			kg	-					80	-	90	85	100	90	100			130				
Piping connections	Evaporator water inlet/outlet			mm	152.4		203.2									254							
	Condenser water inlet/outlet			inch	5		6		5						6				5				
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																		

EWWQ-B-XS

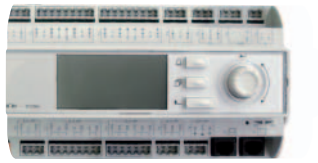


Cooling only

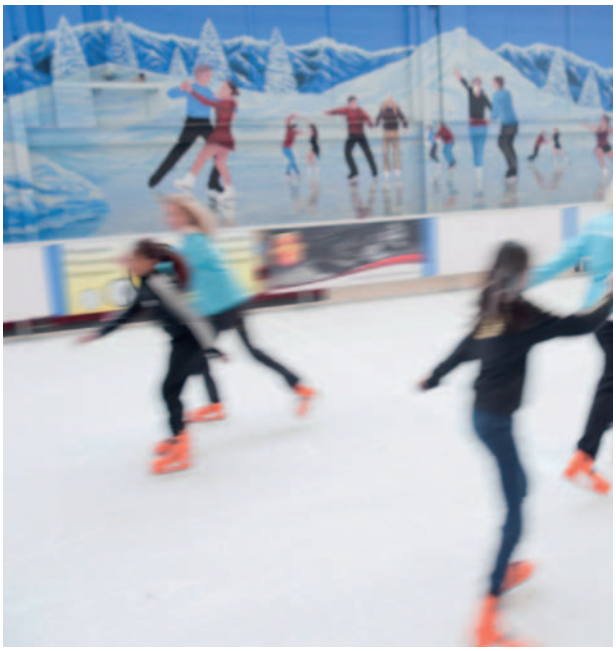
High efficiency
Standard sound

EWWQ-B-XS					420	520	640	730	800	970	C10	C11	C12	C13	C14	C15	C16	C17	C19	C20	C21
Cooling capacity	Nom.			kW	420	513	636	722	798	969	1.033	1.111	1.153	1.265	1.363	1.442	1.580	1.740	1.870	2.025	2.156
Power input	Cooling	Nom.		kW	88,7	107	131	149	166	201	213	239	238	262	281	299	324	361	397	436	474
Capacity control	Method				Stepless																
	Minimum capacity			%	12,5						25,0	12,5	25,0								
EER					4,74	4,79	4,84	4,83	4,81		4,86	4,64	4,85	4,83	4,85	4,83	4,88	4,81	4,71	4,64	4,55
ESEER					5,19	5,22	5,28		5,22	5,06	5,53	4,85	5,45		5,53	5,47	5,26	5,18	4,98	4,91	4,75
Dimensions	Unit	HeightxWidth xDepth		mm	2.001x1.276 x3.863			2.001x1.268 x3.878	2.003x1.314 x3.878	2.003x1.446 x3.919	2.454x1.350 x5.219	2.003x1.44 6x3.919	2.454x1.350 x5.219				2.495x1.350 x4.829			2.495x1.350 x4.865	
Weight	Unit			kg	2.322	2.403	2.464	2.738	2.407	2.427	4.775	2.457	4.831	4.873	4.919	4.969	5.117		5.388	5.408	5.414
	Operation weight			kg	2.594	2.685	2.745	3.158	2.815	3.056	5.431	3.086	5.479	5.512	5.546	5.606	5.794	5.843	6.110	6.118	6.124
Water heat exchanger - evaporator	Type				Single pass shell and tube																
	Water volume			l	220	213	200	334	325	538	587	538	575	563	551		495	484	535	527	
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	55	68	71	64	57	53		68	64	55	67	74	69	88	90	111	124
Compressor	Type				Semi-hermetic single screw compressor																
	Quantity				1						2	1	2								
Sound power level	Cooling	Nom.		dBA	101	102	103		102	103	105	104	106		107		106		107		108
Sound pressure level	Cooling	Nom.		dBA	82	83	84		83	84	86	85	86	87			86	87		88	
Operation range	Evaporator	Cooling	Min.	°CDB	-4																
			Max.	°CDB	10																
	Condenser	Cooling	Min.	°CDB	25																
			Max.	°CDB	45																
Refrigerant	Type				R-410A																
	Circuits	Quantity			1						2	1	2								
Refrigerant circuit	Charge			kg	95			110	130		120	130	120				130				
Refrigerant circuit 2	Charge			kg	-						120	-	120				130				
Piping connections	Evaporator water inlet/outlet			mm	152,4			203,2		254	203,2	254	203,2			254					
	Condenser water inlet/outlet			inch	8			6			5	6	5		6		8				
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																

EWWD-J-SS



MicroTech III



- Compact design to allow easy indoor installation or retrofit operations
- Daikin semi-hermetic single screw stepless compressor
- High efficiency at full and partial load
- Chilled water temperatures down to -10°C on standard unit
- Optimised for use with R-134a
- MicroTech III controller with superior control logic and easy interface

Heating only & Cooling only

Standard efficiency
Standard sound

EWWD-J-SS					120	140	150	180	210	250	280	310	330	360	380	400	450	500	530	560
Cooling capacity	Nom.			kW	120	146	154	177	207	255	284	309	333	356	385	415	463	512	540	568
Heating capacity	Nom.			kW	142	172	188	216	249	305	340	377	405	432	466	499	554	610	645	681
Power input	Cooling	Nom.		kW	28.0	33.9	39.5	45.3	50.5	60.0	70.1	78.6	84.4	90	100		110	119	129	140
	Heating	Nom.		kW	32.9	40.1	46.4	53.5	59.57	71.68	80.75	92.88	99.9	107	113	119	131	143	152	162
Capacity control	Method				Stepless															
	Minimum capacity			%	25							12.5								
EER					4.28	4.29	3.91	3.92	4.11	4.25	4.05	3.93	3.94	3.95	3.83	4.13	4.20	4.29	4.18	4.06
ESEER					4.51		4.20		4.28	4.68	4.01	4.32	4.35	4.50	4.31	4.65	4.74	4.83	4.73	4.33
COP					4.32	4.29	4.05	4.04	4.18	4.26	4.21	4.06	4.05	4.04	4.12	4.19	4.22	4.26	4.23	4.22
Dimensions	Unit	HeightxWidthxDepth		mm	1,020x913x2,684							2,000x913x2,684								
Weight	Unit			kg	1,177	1,233	1,334	1,366	1,416	1,600	1,607	2,668	2,700	2,732	2,782	2,832	3,016	3,200	3,207	3,215
	Operation weight			kg	1,211	1,276	1,378	1,415	1,473	1,663	1,675	2,755	2,792	2,830	2,888	2,946	3,136	3,327	3,338	3,350
Water heat exchanger	Type				Brazed plate, one per circuit															
Water heat exchanger - evaporator	Water volume			l	14	18	14	17	20	26		29	31	33	37	41	46	52		
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	15	13	40	38	36	28	33	40		38		36		28		33
Compressor	Type				Semi-hermetic single screw compressor															
	Quantity				1							2								
Sound power level	Cooling	Nom.		dBA	88.6					87.2		92.4					91.8	91.0		
Sound pressure level	Cooling	Nom.		dBA	71.4					70.0		74.4					73.8	73.0		
Operation range	Evaporator	Cooling	Min.	°CDB	-10															
			Max.	°CDB	15															
	Condenser	Cooling	Min.	°CDB	23															
			Max.	°CDB	60															
Refrigerant	Type				R-134a															
	Charge			kg	18	20	33	34	36	38		66	67	68	70	72	74	76		
	Circuits	Quantity			1							2								
Piping connections	Evaporator water inlet/outlet			mm	76.2															
	Condenser water inlet/outlet (OD)				2" 1/2	4"														
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400															

EWWP-KBW1N

Water cooled scroll chiller

EWWP014-035KBW1N

µC²SE

- Standard integrated: main switch, water filter, flow switch, air purge, pressure ports
- Daikin scroll compressor
- Low operating sound level
- Low energy consumption
- Extension possible up to 195 kW
- Compact dimensions and low refrigerant volume
- Easy installation and maintenance
- Stainless steel plate heat exchanger
- Remote cooling or heating selection
- Water/water heat pump, with water reversibility
- Compatible with hydraulic module
- µC²SE controller featuring top-of-the-range performance and user friendliness

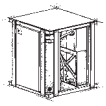
Heating only & Cooling only

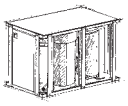
EWWP-KBW1N					014	022	028	035	045	055	065	090	100	110	120	130	145	155	165	175	185	195
Cooling capacity	Nom.			kW	12.9	21.4	27.8	32.3	42.8	55.7	64.7	85.7	98.6	112	121	130	141	154	167	176	185	194
Heating capacity	Nom.			kW	16.7	27.5	35.6	41.5	55.0	71.7	83.0	110	127	143	155	166	182	198	215	226	237	249
Power input	Cooling	Nom.		kW	3.75	6.13	7.85	9.12	12.2	16.0	18.2	24.2	28.0	31.9	34.0	36.2	40.2	43.9	47.7	49.8	52.0	54.1
	Heating	Nom.		kW	3.75	6.13	7.85	9.12	12.2	16.0	18.2	24.2	28.0	31.9	34.0	36.2	40.2	43.9	47.7	49.8	52.0	54.1
Capacity steps number					1				2			4					6					
EER					3.44	3.49	3.54		3.51	3.48	3.55	3.54	3.52	3.51	3.56	3.59	3.51		3.50	3.53	3.56	3.59
COP					4.45	4.49	4.54	4.55	4.51	4.48	4.56	4.55	4.54	4.48	4.56	4.59	4.53	4.51		4.54	4.56	4.60
Dimensions	Unit	HeightxWidthxDepth		mm	600x600x600				600x600x1,200			1,200x600x1,200					1,800x600x1,200					
Weight	Unit			kg	118	155	165	172	300	320	334	600	620	640	654	668	920	940	960	974	988	1,002
Water heat exchanger - evaporator	Type				Brazed plate																	
	Minimum water volume in the system			l	62	103	134	155	205	268	311	205	268		311		205		268			311
	Water flow rate	Nom.		l/min	37	61	80	93	123	160	185	246	283	321	347	373	404	441	479	505	530	556
	Model	Quantity			1							2										
Compressor	Type				Hermetically sealed scroll compressor																	
	Quantity				1				2			4	2	4	2		4		6	4		6
Compressor 2	Quantity				-								2	-	2	-	2		-	2		-
Sound power level	Cooling	Nom.		dBA	64			71	67		74	71			75	77	73			76	78	79
Operation range	Evaporator	Cooling	Min.	°CDB	-10																	
			Max.	°CDB	20																	
	Condenser	Cooling	Min.	°CDB	20																	
			Max.	°CDB	55																	
Refrigerant	Type				R-407C																	
	Charge			kg	1.2	2	2.5	3.1	4.6		5.6	9.2			10.2	11.2	13.8			14.8	15.8	16.8
	Control				Thermostatic expansion valve																	
	Circuits	Quantity			1				2			4					6					
Piping connections	Evaporator water inlet/outlet (OD)				FBSP 25mm				FBSP 40mm			2 x 2 x FBSP 38mm					3 x 2 x FBSP 38mm					
	Evaporator water drain				Field installation																	
	Condenser water inlet/outlet (OD)				FBSP 25mm				FBSP 40mm			2 x 2 x FBSP 38mm					3 x 2 x FBSP 38mm					
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400																	

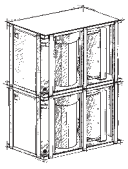
EWWP014-035KBW1N

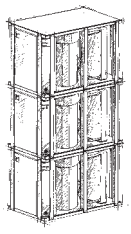
EWWP090-130KBW1N

EWWP145-195KBW1N





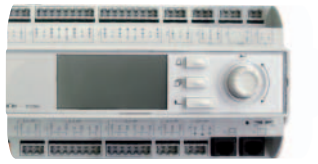




SELECTION TABLE		1 MODULE (KB-SERIES)							2 MODULES (KB-SERIES)					3 MODULES (KB-SERIES)					
Capacity index		014	022	028	035	045	055	065	090	100	110	120	130	145	155	165	175	185	195
Cooling capacity (kW)		**12.9**	**21.4**	**27.8**	**32.3**	**42.8**	**55.7**	**64.7**	**85.7**	**98.6**	**112**	**121**	**130**	**141**	**154**	**167**	**176**	**185**	**194**
Heating capacity (kW)		**16.7**	**27.5**	**35.6**	**41.5**	**55.0**	**71.7**	**83.0**	**110**	**127**	**143**	**155**	**166**	**182**	**198**	**215**	**226**	**237**	**249**
UNIT + CONTROL (Factory mounted)	EWWP014KBW1N	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP022KBW1N	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP028KBW1N	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP035KBW1N	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP045KBW1N	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP055KBW1N	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP065KBW1N	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
MODULAR UNITS (Controller available as accessory)	EWWP045KAW1M	-	-	-	-	-	-	-	2	1	-	-	-	2	1	-	-	-	-
	EWWP055KAW1M	-	-	-	-	-	-	-	-	1	2	1	-	1	2	3	2	1	-
	EWWP065KAW1M	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	1	2	3
CONTROL (kit)	ECB2MUW	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-	-	-
	ECB3MUW	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1

For example: for a 121 kW HP system, select : EWWP055KBW1N + EWWP065KBW1N

EWWD-G-SS/XS



MicroTech III

- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- 1-2 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
- Partial and total heat recovery option available
- MicroTech III controller with superior control logic and easy interface

Heating only & Cooling only

Standard efficiency
Standard sound

EWWD-G-SS					170	210	260	300	320	380	420	460	500	600
Cooling capacity	Nom.			kW	165	200	252	279	332	370	401	446	492	554
Heating capacity	Nom.			kW	221	266	336	376	443	492	534	596	659	747
Power input	Cooling	Nom.		kW	43.8	52.6	67.4	78.5	87.5	96.4	105.4	119.3	133.9	157
	Heating	Nom.		kW	55.6	66.8	85.4	99.3	111	122	134	152	170	198
Capacity control	Method				Stepless									
	Minimum capacity			%	25				13					
EER					3.77	3.80	3.74	3.55	3.80	3.84	3.80	3.74	3.68	3.53
ESEER					4.46	4.47	4.41	4.15	4.66	4.71	4.65	4.60	4.50	4.29
COP					3.97	3.99	3.93	3.78	3.99	4.02	3.99	3.93	3.88	3.77
Dimensions	Unit	HeightxWidthxDepth		mm	1,860x920x3,435				1,880x860x4,305					
Weight	Unit			kg	1,393	1,410	1,503		2,687	2,697	2,702	2,757	2,762	
	Operation weight			kg	1,470	1,480	1,650		2,840	2,850	2,860	2,970		
Water heat exchanger - evaporator	Type				Single pass shell and tube									
	Water volume			l	60	56	123		118	113		173	168	
	Nominal water pressure drop	Cooling	Total	kPa	45	61	41	49	58	57	66	50		59
Compressor	Type				Semi-hermetic single screw compressor									
	Quantity				1				2					
Sound power level	Cooling	Nom.		dBA	88				90					
Sound pressure level	Cooling	Nom.		dBA	70				72					
Operation range	Evaporator	Cooling	Min.	°CDB	-8									
			Max.	°CDB	15									
	Condenser	Cooling	Min.	°CDB	20									
			Max.	°CDB	55									
Refrigerant	Type				R-134a									
	Charge			kg	50		55		110	50		55		110
	Control				Electronic expansion valve									
	Circuits	Quantity			1				2					
Piping connections	Evaporator water inlet/outlet (OD)				88.9		114.3					139.7mm		
	Condenser water inlet/outlet (OD)				5"									
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

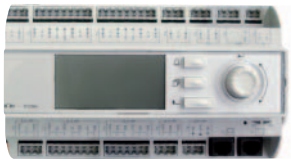
EWWD-G-XS

Heating only & Cooling only

High efficiency
Standard sound

EWWD-G-XS					190	230	280	320	380	400	460	500	550	650
Cooling capacity	Nom.			kW	185	222	276	306	365	407	443	495	539	602
Heating capacity	Nom.			kW	238	286	355	400	470	523	569	634	693	785
Power input	Cooling	Nom.		kW	-									
	Heating	Nom.		kW	51.7	62.9	77.7	93.4	103	114	124	137	150	180
Capacity control	Method				Stepless									
	Minimum capacity			%	25				13					
EER					4.57	4.50	4.53	4.17	4.50	4.58	4.57	4.61	4.59	4.26
ESEER					5.53	5.43	5.46	5.02	5.69	5.82	5.81	5.83	5.80	5.36
COP					4.61	4.55	4.57	4.29	4.55	4.61	4.6	4.64	4.63	4.37
Dimensions	Unit	HeightxWidthxDepth		mm	1,860x920x3,435				1,880x860x4,305					
Weight	Unit			kg	1,650	1,665	1,680		2,800	2,945	2,955	2,975	2,990	
	Operation weight			kg	1,800	1,810	1,820		3,020	3,280	3,290	3,315	3,340	
Water heat exchanger - evaporator	Type				Single pass shell and tube									
	Water volume			l	125	120	110		170	285		280		
	Nominal water pressure drop	Cooling	Total	kPa	23	31	30	37	28	21	24	33	39	47
Compressor	Type				Semi-hermetic single screw compressor									
	Quantity				1				2					
Sound power level	Cooling	Nom.		dBA	88				90					
Sound pressure level	Cooling	Nom.		dBA	70				72					
Operation range	Evaporator	Cooling	Min.	°CDB	-8									
			Max.	°CDB	15									
	Condenser	Cooling	Min.	°CDB	20									
			Max.	°CDB	55									
Refrigerant	Type				R-134a									
	Charge			kg	55				110	105	100			
	Control				Electronic expansion valve									
	Circuits	Quantity			1				2					
Piping connections	Evaporator water inlet/outlet (OD)				114.3				139.7	168.3mm				
	Condenser water inlet/outlet (OD)				5"									
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

EWWD-I-SS


MicroTech III

- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- 1-2-3 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Partial and total heat recovery option available
- MicroTech III controller with superior control logic and easy interface

Heating only & Cooling only

Standard efficiency
Standard sound

EWWD-I-SS					340	400	460	550	650	700	800	850	900	950	C10	C12	C13	C14	C15	C16	C17	C18
Cooling capacity	Nom.			kW	332	392	458	536	637	703	779	841	907	982	1,024	1,151	1,200	1,270	1,341	1,395	1,449	1,503
Heating capacity	Nom.			kW	424	503	588	689	820	903	999	1,079	1,163	1,261	1,324	1,477	1,543	1,632	1,724	1,800	1,875	1,951
Power input	Cooling	Nom.		kW	73.5	88.6	104.2	124.3	145.7	160.3	176.4	191.1	205.4	224.7	242.6	261.6	275.1	289.8	307.0	325.5	344.3	363
	Heating	Nom.		kW	91.4	109	129	152	181	199	218	236	254	276	297	324	341	359	380	401	422	444
Capacity control	Method				Stepless																	
	Minimum capacity			%	25				13							8						
EER					4.51	4.43	4.39	4.31	4.37	4.38	4.41	4.40	4.42	4.37	4.22	4.40	4.36	4.38	4.37	4.29	4.21	4.14
ESEER					4.71	4.57	4.53	4.47	5.04	5.27	5.06	5.19	5.05	5.15	5.00	5.05	5.09	5.13	5.06	5.05	4.96	4.79
COP					4.64	4.6	4.57	4.54	4.52	4.54	4.58	4.57	4.58	4.57	4.46	4.57	4.53	4.55	4.54	4.49	4.44	4.4
Dimensions	Unit	HeightxWidthxDepth		mm	1,821x1,466x3,298				2,103x1,350x4,116							2,323x2,130x4,439						
Weight	Unit			kg	2,150	2,160	2,179	2,224	3,909	3,927	3,945	3,971	3,996	4,080	4,092	6,079	6,097	6,136	6,174	6,192	6,210	6,228
	Operation weight			kg	2,380	2,396	2,410	2,457	4,217	4,228	4,243	4,262	4,288	4,369	4,386	6,628	6,646	6,670	6,699	6,717	6,735	6,761
Water heat exchanger - evaporator	Type				Single pass shell and tube																	
	Water volume			l	193		183	172	271	263	256	248	241	233		472	504	489	472			
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	37	50	54	62	55	44	57	53	44	54	39	52	55	46	57	62	66	71
Compressor	Type				Semi-hermetic single screw compressor																	
	Quantity				1				2							3						
Sound power level	Cooling	Nom.		dBA	94	97					98	99	100			101		103				
Sound pressure level	Cooling	Nom.		dBA	75	76	78				79	80	81			80	81	83				
Operation range	Evaporator	Cooling	Min.	°CDB	-8																	
			Max.	°CDB	15																	
	Condenser	Cooling	Min.	°CDB	20																	
			Max.	°CDB	55																	
Refrigerant	Type				R-134a																	
	Circuits	Quantity			1				2							3						
Refrigerant circuit	Charge			kg	54	52	51	50	108	106	104		100			156	155	154	153	152	151	150
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm											219.1mm						
	Condenser water inlet/outlet (OD)				5"																	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																	

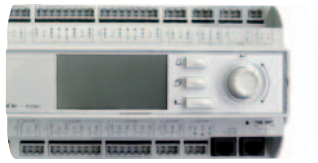
EWWD-I-XS

Heating only & Cooling only

High efficiency Standard sound

EWWD-I-XS					360	440	500	600	750	800	850	950	C10	C11	C12
Cooling capacity	Nom.			kW	360	431	504	570	717	791	863	929	971	1,035	1,130
Heating capacity	Nom.			kW	454	543	635	728	904	997	1,086	1,171	1,232	1,319	1,441
Power input	Cooling	Nom.		kW	74.5	89.5	104.5	126.8	147.9	163.4	177.8	193.1	208.4	228.3	250
	Heating	Nom.		kW	92	110	128	155	183	201	218	237	256	280	306
Capacity control	Method				Stepless										
	Minimum capacity			%	25				13						
EER					4.83	4.82		4.50	4.85	4.84	4.85	4.81	4.66	4.53	4.51
ESEER					4.75	4.72	4.71	4.52	5.40	5.50	5.35	5.40	5.18	5.37	5.02
COP					4.94	4.95		4.7	4.95	4.96	4.97	4.94	4.81	4.71	
Dimensions	Unit	HeightxWidthxDepth		mm	1,883x1,430x4,012				2,245x1,350x4,782						
Weight	Unit			kg	2,594	2,667	2,704		4,964	4,997	5,049	5,073	5,097	5,132	
	Operation weight			kg	2,998	3,078	3,116		5,582	5,615	5,671	5,695	5,729	5,741	
Water heat exchanger - evaporator	Type				Single pass shell and tube										
	Water volume			l	326	317	308		539		528			504	
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	64		54	68	58	68	56	64	72	46	52
Compressor	Type				Semi-hermetic single screw compressor										
	Quantity				1				2						
Sound power level	Cooling	Nom.		dBA	94	97					98	99	100		
Sound pressure level	Cooling	Nom.		dBA	75	76	78				79	80	81		
Operation range	Evaporator	Cooling	Min.	°CDB	-8										
			Max.	°CDB	15										
	Condenser	Cooling	Min.	°CDB	20										
			Max.	°CDB	55										
Refrigerant	Type				R-134a										
	Circuits	Quantity			1				2						
Refrigerant circuit	Charge			kg	90	87	85		180	177	174	172		170	
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				219.1mm						
	Condenser water inlet/outlet (OD)				5"										
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

EWWD-H-XS


MicroTech III

- High energy efficient units: full range Eurovent Class A
- Extended operation range allowing condenser leaving water temperature (CLWT) up to 50°C as standard
- Heat pump version available
- Flooded type heat exchangers
- MicroTech III controller with superior control logic and easy interface

Heating only & Cooling only

High efficiency
Standard sound

EWWD-H-XS					370	450	530	610	750	830	930	980	C10	C11	C12
Cooling capacity	Nom.			kW	368	444	520	606	746	825	930	977	1,049	1,130	1,212
Heating capacity	Nom.			kW	454	547	639	746	918	1,015	1,138	1,200	1,287	1,389	1,488
Power input	Cooling	Nom.		kW	63.9	76.6	88.3	103	127	140	153	166	177	190	204
	Heating	Nom.		kW	82.7	99.2	114	132	164	181	199	214	227	246	263
Capacity control	Method				Stepless										
	Minimum capacity			%	25.0				12.5						
EER					5.75	5.79	5.88	5.90	5.85	5.88	6.06	5.90	5.94		5.95
ESEER					6.11	6.18	6.27	6.25	6.76	6.87	6.97	7.03	7.07	7.10	
COP					5.5	5.52	5.61	5.64	5.59	5.61	5.73	5.61	5.66	5.65	5.67
Dimensions	Unit	HeightxWidthxDepth		mm	2,121x1,353x3,341		2,121x1,353x3,419	2,048x1,384x3,417	2,048x1,689x3,609		2,048x1,711x3,609		2,161x1,711x3,509		
Weight	Unit			kg	3,089	3,370	3,603	3,781	5,289	5,375	5,654	5,707	6,066	6,105	6,156
	Operation weight			kg	3,250	3,588	3,870	4,163	5,694	5,835	6,174	6,262	6,709	6,773	6,859
Water heat exchanger - evaporator	Type				Single pass shell and tube										
	Water volume			l	78	107	134	160	172	201	261	272	295	310	327
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	37	31		36	42	35	32		30		29
Compressor	Type				Semi-hermetic single screw compressor										
	Quantity				1				2						
Sound power level	Cooling	Nom.		dBA	97	98	99		100	101		102		103	
Sound pressure level	Cooling	Nom.		dBA	78	79	80		81	82		83		84	
Operation range	Evaporator	Cooling	Min.	°CDB	-8										
			Max.	°CDB	15										
	Condenser	Cooling	Min.	°CDB	18										
			Max.	°CDB	65										
Refrigerant	Type				R-134a										
	Charge			kg	210	190	180	210	220	250	300		330		
	Circuits	Quantity			1				2						
Piping connections	Evaporator water inlet/outlet			mm	168.3		219.1								
	Condenser water inlet/outlet			inch	6		8								
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

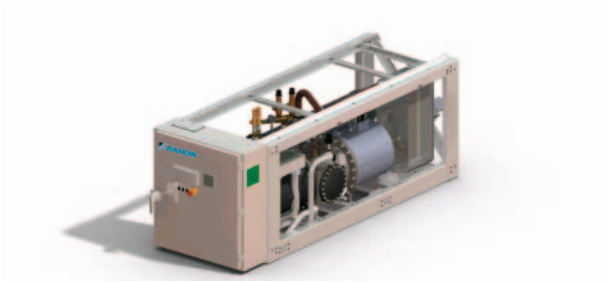
EWLP012-030KBW1N

µC²SE

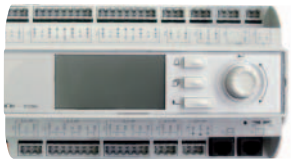
- Daikin scroll compressor
- Electronic DDC controller
- Low operating sound level
- Low energy consumption
- Compact dimensions and low refrigerant volume
- Easy installation and maintenance
- Stainless steel plate heat exchanger
- Compatible with hydraulic module
- Standard integrated: main switch, pressure ports, flow switch, filter, shut-off valves and air purge
- µC²SE controller featuring top-of-the-range performance and user friendliness

Cooling only

EWLP-KBW1N					012	020	026	030	040	055	065
Cooling capacity	Nom.			kW	12.1	20.0	26.8	31.2	40.0	53.7	62.4
Power input	Cooling	Nom.		kW	4.2	6.6	8.5	10.1	13.4	17.8	20.3
Capacity steps number					1				2		
EER					2.88	3.03	3.15	3.09	2.99	3.02	3.07
Dimensions	Unit	HeightxWidthxDepth		mm	600x600x600				600x600x1,200		
Weight	Unit			kg	108	141	147	151	252	265	274
Water heat exchanger - evaporator	Minimum water volume in the system			l	62	103	134	155	205	268	311
	Type				Brazed plate						
	Water flow rate	Nom.		l/min	35	57	77	89	115	154	179
	Model	Quantity			1						
Compressor	Type				Hermetically sealed scroll compressor						
	Quantity				1				2		
Sound power level	Cooling	Nom.		dBA	64			71	67		74
Operation range	Evaporator	Cooling	Min.	°CDB	-10						
			Max.	°CDB	20						
	Condenser	Cooling	Min.	°CDB	25						
			Max.	°CDB	60						
Refrigerant	Type				R-407C						
	Control				Thermostatic expansion valve						
	Circuits	Quantity			1				2		
Piping connections	Evaporator water inlet/outlet (OD)				FBSP 25mm				FBSP 40mm		
	Evaporator water drain				Field installation						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400						



EWLD-J-SS



MicroTech III

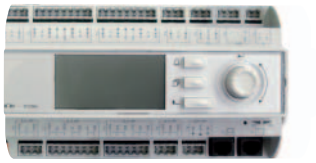
- Compact design to allow easy indoor installation or retrofit operations
- Daikin semi-hermetic single screw stepless compressor
- High efficiency at full and partial load
- Chilled water temperatures down to -10°C on standard unit
- Optimised for use with R-134a
- MicroTech III controller with superior control logic and easy interface

Cooling only

Standard efficiency
Standard sound

EWLD-J-SS					110	130	145	165	195	235	265	290	310	330	360	390	430	470	500	530
Cooling capacity	Nom.			kW	109	127	143	164	191	236	264	285	306	327	355	382	427	473	501	528
Power input	Cooling	Nom.		kW	31.1	38.2	43.8	50.4	56.0	65.9	75.3	87.5	94.0	100	106	112	122	131	141	150
Capacity control	Method				Stepless															
	Minimum capacity			%	25							12.5								
EER					3.52	3.33	3.25		3.41	3.59	3.51	3.26			3.34	3.42	3.51	3.60	3.56	3.52
Dimensions	Unit	HeightxWidthxDepth		mm	1,020x913x2,684							2,000x913x2,684								
Weight	Unit			kg	1,124	1,141	1,237	1,263	1,305	1,489		2,474	2,500	2,526	2,568	2,611	2,795	2,979		
	Operation weight			kg	1,138	1,159	1,253	1,281	1,327	1,518		2,505	2,533	2,562	2,608	2,655	2,845	3,036		
Water heat exchanger - evaporator	Type				Brazed plate, one per circuit															
	Water volume			l	14	18	14	17	20	26		29	31	33	37	41	46	52		
	Nominal water pressure drop	Cooling	Total	kPa	14	12	36	34	32	25	31	36		34		32		25		31
Compressor	Type				Semi-hermetic single screw compressor															
	Quantity				1							2								
Sound power level	Cooling	Nom.		dBA	88.6					87.2		92.4				91.8		91.0		
Sound pressure level	Cooling	Nom.		dBA	71.4					70.0		74.4				73.8		73.0		
Operation range	Evaporator	Cooling	Min.	°CDB	-10															
			Max.	°CDB	15															
	Condenser	Cooling	Min.	°CDB	25															
			Max.	°CDB	60															
Refrigerant	Type				R-134a															
	Circuits	Quantity			1							2								
Piping connections	Evaporator water inlet/outlet (OD)				3"															
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400															

EWLD-G-SS



MicroTech III

- Stepless single-screw compressor
- Optimised for use with R-134a
- 1-2 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
- All models are PED pressure vessel approved
- Partial heat recovery available
- MicroTech III controller with superior control logic and easy interface

Cooling only

Standard efficiency
Standard sound

EWLD-G-SS					160	190	240	280	320	360	380	420	480	550
Cooling capacity	Nom.			kW	160	188	243	269	315	350	379	426	474	524
Power input	Cooling	Nom.		kW	46.1	55.3	66.8	75.7	92.1	101.3	110.5	121.7	133.4	150
Capacity control	Method				Stepless									
	Minimum capacity			%	25				12.5					
EER					3.47	3.40	3.64	3.55	3.42	3.46	3.43	3.50	3.55	3.48
Dimensions	Unit	HeightxWidthxDepth		mm	1,860x1,000x3,700				1,860x1,100x4,400	1,942x1,100x4,400				
Weight	Unit			kg	1,280		1,398		2,442	2,446		2,501	2,506	
	Operation weight			kg	1,337		1,516		2,560			2,670		
Water heat exchanger - evaporator	Type				Single pass shell and tube									
	Water volume			l	60	56	123		118	113		173	168	
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	44	60	41	49	57	55.9	64.4	49.9	50.6	60.6
Compressor	Type				Semi-hermetic single screw compressor									
	Quantity				1				2					
Sound power level	Cooling	Nom.		dBA	87.7				90.2					
Sound pressure level	Cooling	Nom.		dBA	69.7				71.7					
Operation range	Evaporator	Cooling	Min.	°CDB	-8									
			Max.	°CDB	15									
	Condenser	Cooling	Min.	°CDB	25									
			Max.	°CDB	60									
Refrigerant	Type				R-134a									
	Circuits	Quantity			1				2					
Piping connections	Evaporator water inlet/outlet (OD)				88.9		114.3					139.7mm		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

EWLD-I-SS

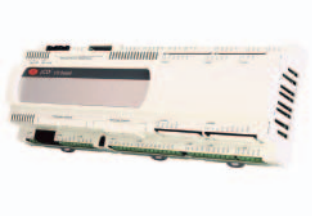
- DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
- Stepless single-screw compressor
- Standard electronic expansion valve
- All models are PED pressure vessel approved
- Optimised for use with R-134a

Cooling only

Standard efficiency
Standard sound

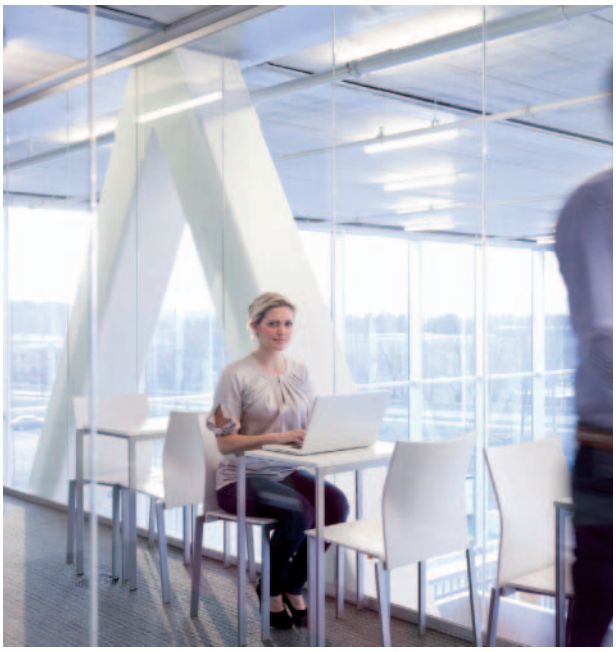
EWLD-I-SS					320	400	420	500	600	650	750	800	850	900	950	C10	C11	C12	C13	C14	C15	C16	C17
Cooling capacity	Nom.			kW	315	374	437	509	607	670	740	802	865	935	975	1,029	1,097	1,144	1,210	1,278	1,330	1,381	1,433
Power input	Cooling	Nom.		kW	80.3	96.0	113	134	160	175	192	208	224	246	264	283	286	302	318	336	356	375	395
Capacity control	Method				Stepless																		
	Minimum capacity			%	25				12.5							8.3							
EER					3.93	3.89	3.88	3.79	3.80	3.82	3.86			3.81	3.69	3.64	3.83	3.79	3.80		3.74	3.68	3.63
Dimensions	Unit	HeightxWidthxDepth		mm	1,899x1,464x3,114				2,325x1,464x4,391							2,415x2,135x4,426					2,415x2,135x4,426		
Weight	Unit			kg	1,861		1,869	1,884	3,331	3,339	3,347	3,356	3,364	3,412		5,146	5,167		5,188	5,208			
	Operation weight			kg	2,054		2,052	2,056	3,602		3,603	3,604	3,605	3,645		5,667	5,671		5,677	5,680			
Water heat exchanger - evaporator	Type				Single pass shell and tube																		
	Water volume			l	193		183	172	271	263	256	248	241	233		504		489	472	504		489	472
	Nominal water pressure drop	Cooling	Total	kPa	34	46	49	56	50	40	52	49	40	49	36	54	47	51	43	53	57	61	65
Compressor	Type				Single screw compressor																		
	Quantity				1				2							3							
Sound power level	Cooling	Nom.		dBA	94	97					98	99	100			101				103			
Sound pressure level	Cooling	Nom.		dBA	75	76	78				79	80	81			80		81		83			
Operation range	Evaporator	Cooling	Min.	°CDB	-8																		
			Max.	°CDB	15																		
	Condenser	Cooling	Min.	°CDB	25																		
			Max.	°CDB	60																		
Refrigerant	Type				R-134a																		
	Charge			kg	5																		
	Circuits	Quantity			1				2							3							
Piping connections	Evaporator water inlet/outlet (OD)				42 mm																		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																		

EWWD-FZXS



PCO2

INVERTER



- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Top seasonal efficiency (ESEER up to 8.88)
- Onboard digital electronics provide smart controls

Cooling only

High efficiency
Standard sound

EWWD-FZXS					320	430	520	640	860	C10
Cooling capacity	Max.			kW	316	439	520	639	887	1,054
	Min.			kW	113	133	170	113	133	169
Power input	Cooling	Max.		kW	65.1	90.4	106	129	179	208
		Min.		kW	20.6	25.5	32.7	20.6	25.5	32.6
Capacity control	Method				Stepless					
EER					4.85	4.86	4.93	4.97	4.95	5.06
ESEER					8.11	8.39	8.66	8.83	8.52	8.88
Dimensions	Unit	HeightxWidthxDepth		mm	1,823x1,276x3,254		1,823x1,276x3,419	1,755x1,790x3,441	1,748x1,853x3,289	1,794x1,904x3,401
Weight	Unit			kg	2,360	2,416	2,546	3,709	4,095	4,765
	Operation weight			kg	2,520	2,634	2,812	4,074	4,548	5,330
Water heat exchanger - evaporator	Type				Flooded shell and tube					
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	30	32	33	35	33	31
Compressor	Type				Oil free centrifugal compressor with magnetic bearings					
	Quantity				1			2		
Sound power level	Cooling	Nom.		dBA	89	90	91	92	94	95
Sound pressure level	Cooling	Nom.		dBA	71	72	73	74	75	76
Operation range	Evaporator	Cooling	Min.	°CDB	2					
			Max.	°CDB	15					
	Condenser	Cooling	Min.	°CDB	18					
			Max.	°CDB	46					
Refrigerant	Type				R-134a					
	Charge			kg	240	220	180	220	220	300
	Circuits	Quantity			1					
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm		219.1mm			273mm
	Condenser water inlet/outlet (OD)				168.3mm			219.1mm		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

- Single compressor unit up to 4.5MW
- Dual compressor unit on single circuit up to 9MW
- Optional variable speed drives (VFD) for superior partload performance
- Compressor unloading down to 5% for dual compressor units and 10% for single compressor units without hot gas bypass
- Control flexibility for easy integration into BMS

WIDE CHOICE OF CAPACITIES AND EFFICIENCIES

Single compressor

- DWSC: 300 kW - 4,500 kW - Approximately 1.1 million possible chiller offerings with combination options of motors, impellers, gears and vessels

Dual compressor

- DWDC: 600 kW - 9,000 kW - Approximately 0.75 million possible chiller offerings with combination options of motors, impellers, gears and vessels

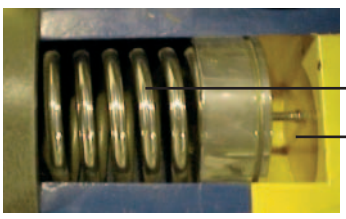
VARIABLE FREQUENCY DRIVE OPTION (VFD)

- Inverter technology greatly improving part load efficiency
- Reducing annual energy costs

HIGH EFFICIENCY

- COP up to 7 at full load
- COP up to 12 at partial load (when coupled with inverter VFD)

POWER LOSS DAMAGE PROTECTION



Power failures do not allow chillers to proceed through their normal shutdown sequence. Poor lubrication at this point can damage the bearings and reduce compressor life. The compressors are equipped with a lubricant reservoir and a piston with a compressed spring that provides pressurized lubricant to the bearings during the coast-down period. Also, the compressors decelerate quickly due to the low inertia.

REFRIGERANT STORAGE CAPABILITY

The condensers are sized to hold the entire chiller refrigerant charge and are provided with the necessary valves to isolate this charge. This feature eliminates the need for separate storage vessels in most applications.

Moveable diffuser closing off impeller discharge area

UNMATCHED UNLOADING

Unloading to 10% of full load for a DWSC single compressor chiller and 5% for a DWDC dual compressor unit, without using inefficient hot gas bypass. This unloading capability provides improved stability of the chilled water temperature and less harmful cycling of compressors.

Movable discharge diffuser increases stability and reduces vibrations.

LOW OPERATIONAL SOUND LEVEL

Liquid Injection

A small amount of liquid refrigerant is taken from the condenser and injected into the compressor discharge area. The liquid droplets absorb sound energy and reduce the compressor's overall operational sound level. The droplets evaporate and reduce discharge superheat.

Quieter as chiller unloads

Daikin's design results in a reduction in sound levels at lower loads, where most chillers spend most of their operating hours.

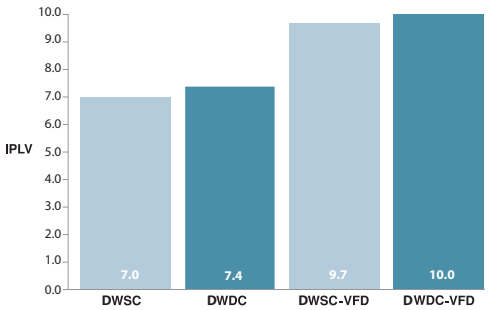
ONE DWDC DUAL COMPRESSOR CHILLER VERSUS TWO SINGLE COMPRESSOR CHILLERS

- Lower equipment costs than two separate chillers
- Lower installation cost than two separate chillers
- Lower annual operating cost than either one large or two small chillers
- Less equipment room space required than for two separate chillers (smaller footprint)
- Capacity reduction to 5% of design value
- Standby redundancy for most of the cooling season options of motors, impellers, gears and vessels

EXCELLENT PART LOAD EFFICIENCY

When one compressor is running, it is able to utilize the heat transfer area of the entire chiller, twice the amount found on a single compressor chiller. This huge amount of surface provides exceptional part load efficiency. The addition of VFDs to the dual compressor chiller produces a very high ARI certified Integrated Part Load Value (IPLV).

PARTIAL LOADS EFFICIENCY FOR 2,000 kW CENTRIFUGAL UNIT



DWSC: single compressor
DWDC: double compressor
VFD: compressor inverter
Specific selections can vary up or down from this example.

R-134a

centrifugal

INVERTER

Reduced life cycle cost

› Payback periods as low as 1 to 2 years

Centrifugal compressor

› Industry's highest full load efficiency
› Best part load efficiency when coupled with a variable frequency drive
› One moving part (rotor - shaft assembly)

Unit mounted Variable Frequency Drive (VFD)

› Very high part load efficiency
› Great unloading capability
› Automatic speed adjustment
› Soft start

Magnetic bearing technology

› No friction loss
› No oil contamination
› No additional oil management systems
› Increased equipment life

WIDE CHOICE OF CAPACITIES AND EFFICIENCES

DWME chillers can be selected with different combination of the main components such as the compressor size, the exchangers, the electrical motor, etc. A selected unit, at fixed evaporator and condenser conditions, will provide cooling capacity, power input, EER, etc. depending on the compressor speed of rotation. A dedicated selection tool is available to perform the unit selection at the real working conditions. DWME boast outstanding energy efficiencies, at both full and part load.

SIZE	COOLING CAPACITY
500S	1,400 - 1,900 kW
EER *	up to 6.50
ESEER	up to 10.0

* at Eurovent conditions:
Evaporator water In/Out 12/7°C, Condenser water In/Out 30/35°C

QUIET OPERATION

- 76~82dB(A) of sound level at 1 meter (according to AHRI standard 575)
- DWME chillers are ideal for sound sensitive environments such as libraries, schools, etc

SMART CONTROL

- On-board advanced electronics allow smart control also in case of power failure
- User friendly touch screen operator interface

EXTENSIVE PORTFOLIO OF OPTIONS

Standard options

- Water-side vessel construction of 150psi
- Copper evaporator and condenser tubes
- 0.025 inches tube thickness
- Victaulic connections
- 2 pass heat exchangers
- Single insulation ¾ inches on evaporator, suction and discharge piping
- Water differential pressure switches
- Sound insulation
- EMI filter

Options (on request)

- Water-side vessel construction of 300psi
- 0.028/0.035 inches tube thickness
- 90/10 Cu-Ni condenser tubes (only with 0.028/0.035 tube thickness)
- Flanged connections
- Marine water boxes
- 1 or 3 pass heat exchangers
- Double insulation 1½ inches on evaporator
- Pumpout unit
- Refrigerant monitor
- Low THD (Harmonics)
- High short circuit current rating
- Ground fault protection
- Input power meter

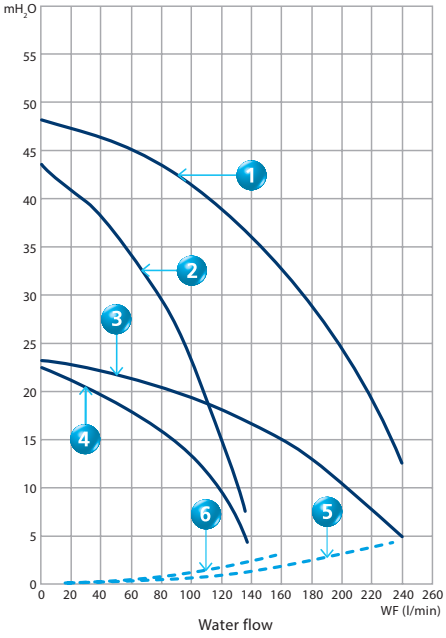
EHMC-AV

- 3 models available
- 100 l tank for all sizes
- freeze up protection
- high static pump (option)
- standard drain kit (for indoor use)
- standard dual pressure ports (before & behind the pump)

LEGENDS

Pump characteristics
1. EHMC30AV1080
2. EHMC10AV1080 & EHMC15AV1080
3. EHMC30AV1010
4. EHMC10AV1010 & EHMC15AV1010

Hydraulic module + filter pressures losses
5. EHMC15/30AV1010 & EHMC15/30AV1080
6. EHMC10AV1010 & EHMC10AV1080



Water flow

HYDRAULIC MODULE

EHMC-AV			10		15		30	
			1010	1080	1010	1080	1010	1080
Nominal flow		l/min	62		88		187	
Nominal ESP		mH_2O	17	34	15	27	10	27
Nominal input		W	630	1,050	650	1,070	1,070	2,090
Dimensions (HxWxD)		mm	1,284x635x688		1,284x635x688		1,284x635x688	
Machine weight		kg	99	101	102	104	105	111
Sound power		dBA	63		63		63	
Sound pressure		dBA	52		52		52	
Power supply		V1	1~/230V/50Hz					
Operation range	Water side	°C	-10°C ~ 55°C					
	Air side	°CDB	-10°C ~ 43°C					
Piping connections	Water inlet/outlet		1" BSPF		2" BSPF		2-1/2" BSPF	
	Drain connection		1/2"					

BUFFER TANK

The Daikin EKBT is a hydraulic kit for in or outdoor installation. It is designed to be installed with EUWA/Y-KBZW1 series, in closed systems, and can be used for water and glycol applications.

MODEL	Description	Volume	Dimensions	Unit weight
EKBT	Buffer tank with cabinet	200l	1,284x637x754	86.5
EKBT500C	Buffer tank with cabinet	500l	1,200x1,200x1,950	160
EKBTC10C	Buffer tank with cabinet	1,000l	1,200x1,450x1,950	185
EKBT500N	Buffer tank	500l	710x1,670	70
EKBTC10N	Buffer tank	1,000l	860x2,020	100

FAN COIL UNITS

Products overview - fan coil units 314

Cassette units 315
FWC-BT/BF 315
FWF-BT/BF 316
FWF-CT 317

Concealed ceiling units 318
NEW FWP-AT 318
FWB-BT 319
FWE-CT/CF 320

Flexi type units 321
NEW FWR-AT/AF 321
NEW FWS-AT/AF 322
FWL-DAT/DAF 323
FWM-DAT/DAF 324
FWD-AT/AF 325

Wall mounted unit 326
FWT-CT 326

Floor standing unit 327
NEW FWZ-AT/AF 327
FWV-DAT/DAF 328

For more information on Options & Accessories, please refer to page 356 of this catalogue.

FAN COIL UNITS PRODUCT PORTFOLIO

Reference					1 2 3 4 5 6 7 8 9 10 11 12 16 18 20 22kW
900x900 cassette	FWC-BT/BF	2-pipe	cooling	ROUND FLOW	
			heating		
		4-pipe	cooling		
			heating		
600x600 cassette	FWF-BT/BF	2-pipe	cooling		
			heating		
		4-pipe	cooling		
			heating		
	FWF-CT	2-pipe	cooling		
			heating		
Wall mounted	FWT-CT	2-pipe	cooling		
			heating		
Flexi with cabinet	FWL-DAT/DAF	2-pipe	cooling		
			heating		
		4-pipe	cooling		
			heating		
	FWR-AT/AF	2-pipe	cooling	NEW BLDC	
			heating		
		4-pipe	cooling		
			heating		
Flexi without cabinet	FWM-DAT/DAF	2-pipe	cooling		
			heating		
		4-pipe	cooling		
			heating		
	FWS-AT/AF	2-pipe	cooling	NEW BLDC	
			heating		
		4-pipe	cooling		
			heating		
Ducted Low ESP	FWE-CT	2-pipe	cooling	NEW	
			heating		
		4-pipe	cooling		
			heating		
Ducted Medium ESP	FWB-BT	2-pipe	cooling		
			heating		
	FWP-AT	2-pipe	cooling	NEW BLDC	
			heating		
Ducted High ESP	FWD-AT/AF	2-pipe	cooling		
			heating		
		4-pipe	cooling		
			heating		
Floor standing	FWV-DAT/DAF	2-pipe	cooling		
			heating		
		4-pipe	cooling		
			heating		
	FWZ-AT/AF	2-pipe	cooling	NEW	
			heating	BLDC	
		4-pipe	cooling		
			heating		

* BLDC: inverter driven brushless direct current fan motor

FWC-BT/BF

BRC315D7

BRC7F532F

ROUND FLOW

- 360° air discharge ensures uniform air flow and temperature distribution
- Modern style decoration panel in white (RAL9010)
- Fresh air intake for healthy living
- Comfortable horizontal air discharge ensures draughtfree operation and prevents ceiling soiling
- Possibility to shut 1 or 2 flaps for easy installation in corners
- Standard drain pump with 850mm lift

Heating only & Cooling only

				2-PIPE				4-PIPE			
FWC-BT/BF				**FWC06BT**	**FWC07BT**	**FWC08BT**	**FWC09BT**	**FWC06BF**	**FWC07BF**	**FWC08BF**	**FWC09BF**
Cooling capacity	Total capacity	High	kW	5.0	5.6	6.3	7.2	4.9	5.6	6.3	7.2
	Sensible capacity	High	kW	3.4	4.0	4.5	5.3	3.4	3.9	4.4	5.2
Heating capacity	2-Pipe	High	kW	6.3	7.1	8.3	9.5	-			
	4-Pipe	High	kW	-				6.2	6.8	7.8	8.8
Power input	High		W	40	46	58	76	41	47	59	77
Dimensions	Unit	HeightxWidthxDepth	mm	288x840x840							
Weight	Unit		kg	26				29			
Water pressure drop	Cooling		kPa	15	19	26	34	15	19	25	32
	Heating		kPa	15	19	26	34	24	30	38	47
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	High	m^3/h	1,062	1,236	1,518	1,776	1,032	1,200	1,476	1,746
Sound power level	High		dBA	36	39	44	49	36	39	44	49
Sound pressure level	High		dBA	24	28	32	37	24	28	32	37
Piping connections	Water	Inlet		3/4" BSP (female thread)							
		Outlet		3/4" BSP (female thread)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240							

FWF-BT/BF

4-way blow ceiling mounted cassette

FWF-BT/BF

BRC315D7

BRC7F532F

- Modern style decoration panel in white
- Compact casing (570mm in width and depth) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- Comfortable horizontal auto swing ensures draughtfree operation and prevents ceiling soiling
- Fresh air intake for healthy living
- **Possibility to shut 1 or 2 flaps for easy installation in corners**
- Standard drain pump with 750mm lift

Heating only & Cooling only

				2-PIPE				4-PIPE			
FWF-BT/BF				**FWF02BT**	**FWF03BT**	**FWF04BT**	**FWF05BT**	**FWF02BF**	**FWF03BF**	**FWF04BF**	**FWF05BF**
Cooling capacity	Total capacity	High	kW	1.7	2.8	3.3	4.0	1.7	2.3	2.8	3.5
	Sensible capacity	High	kW	1.3	1.7	2.1	2.7	1.3		1.7	2.3
Heating capacity	2-Pipe	High	kW	2.6	3.4	4.1	5.3	-			
	4-Pipe	High	kW	-				3.1	3.3	3.9	4.8
Power input	High		W	67		70	89	67	62	74	93
Dimensions	Unit	HeightxWidthxDepth	mm	285x575x575							
Weight	Unit		kg	19				20			
Water pressure drop	Cooling		kPa	6	19	31	42	6	13	21	33
	Heating		kPa	6	19	31	42	12	6	9	13
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	High	m^3/h	468		660	876	468	438	618	822
Sound power level	High		dBA	40		44	49	40	42	46	51
Sound pressure level	High		dBA	27		33	39	27	29	35	41
Piping connections	Water	Inlet		3/4" BSP (female thread)							
		Outlet		3/4" BSP (female thread)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-440							

FWF-CT

4-way blow ceiling mounted cassette


FWF-CT


MERCA


SRC-COA/HPA


WRC-HPC

- 4 way air discharge and air swing
- Compact casing (570mm in width and depth) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- Wide operating range
- Air suction from underneath
- Easy installation and maintenance
- Built-in high pressure drain pump with 700mm lift
- Double-intake centrifugal fans
- High power air flow
- 3-speed fan motor
- Infrared remote control as standard with decoration panel kit

Heating only & Cooling only

				2-PIPE		
FWF-CT				**FWF02CT**	**FWF03CT**	**FWF04CT**
Cooling capacity	Total capacity	High	kW	2.49	4.10	4.54
	Sensible capacity	High	kW	1.91	2.93	3.37
Heating capacity	2-Pipe	High	kW	3.52	4.69	5.28
Power input	High		W	63	64	79
Current input	High		A	0.27	0.28	0.34
	Medium		A	0.22	0.25	0.31
	Low		A	0.19	0.22	0.35
Dimensions	Unit	HeightxWidthxDepth	mm	250x570x570		
Weight	Unit		kg	22	23	
	Operation weight		kg	22	23	
Water pressure drop	Cooling		kPa	19.00	27.00	29.00
	Heating		kPa	17.00	24.00	27.00
Fan	Type			Direct drive turbo fan		
	Quantity			1		
	Air flow rate	High	m^3/h	646	680	748
Sound power level	High		dBA	52	54	56
Sound pressure level	High		dBA	42	45	48
Piping connections	Drain	OD	mm	19.05		
Water connections	Std. heat exchanger		inch	3/4		
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-440		

FWP-AT

FWEC3A

- Blends unobtrusively with any interior décor: only the suction and discharge grills are visible
- Up to 50% energy saving with BLDC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves

Heating only & Cooling only

				2-PIPE					
FWP-AT				**FWP02AT**	**FWP03AT**	**FWP04AT**	**FWP05AT**	**FWP06AT**	**FWP07AT**
Cooling capacity	Total capacity	High	kW	2.61	3.14	3.49	5.08	5.45	6.47
	Sensible capacity	High	kW	1.88	2.16	2.34	3.6	3.87	4.4
Heating capacity	2-Pipe	High	kW	5.47	6.01	6.47	10.31	11.39	12.28
	4-Pipe	High	kW	3.14			5.99		
Power input	High		W	46.4			80		
Dimensions	Unit	HeightxWidthxDepth	mm	239x1,039x609			239x1,389x609		
Weight	Unit		kg	23	24	26	31	33	35
	Operation weight		kg	24	26	28	33	35	38
Heat exchanger	Water volume		l	1.1	1.5	2.2	1.6	2.1	3.2
Additional heat exchanger	Water volume		l	0.4			0.6		
Water flow	Cooling		l/h	448	539	598	873	936	1,111
	Heating		l/h	480	527	567	904	999	1,077
	Additional heat exchanger		l/h	275			526		
Water pressure drop	Cooling		kPa	8	14	11	15	8	14
	Heating		kPa	7	10	8	12	7	10
	Additional heat exchanger		kPa	3			5		
Fan	Type			Centrifugal - forward blades - directly coupled on fan motor					
	Quantity			1					
	Air flow rate	High	m^3/h	400			800		
	Available pressure	High	Pa	71			65		
Sound power level	High		dBA	55.6			60.6		
Sound pressure level	High		dBA	44.1			49.1		
Piping connections	Drain	OD	mm	16					
Water connections	Std. heat exchanger		inch	3/4					
	Add. heat exchanger		inch	3/4					
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230					

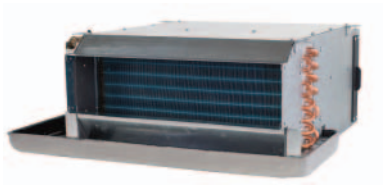
FWB04BT

FWEC1, 2, 3A

- **Low sound power levels and electrical absorption thanks to plastic impeller, ABS winding staircase and improved electric motor**
- Compact dimensions, can easily be mounted in a narrow ceiling void
- 3, 4 or 6 stage row cooling coil
- Drain pan to collect the condensate from: heat exchanger and regulating valves
- 7-speed electrical motors (with thermal protection on windings)
- All 7 speeds pre-wired in the factory in the terminal block of the switch box
- The air filter can easily be removed for cleaning

Heating only & Cooling only

					2-PIPE								
FWB-BT					**FWB02BT**	**FWB03BT**	**FWB04BT**	**FWB05BT**	**FWB06BT**	**FWB07BT**	**FWB08BT**	**FWB09BT**	**FWB10BT**
Cooling capacity	Total capacity	High	kW		2.61	3.14	3.49	5.08	5.45	6.47	7.57	8.67	10.34
	Sensible capacity	High	kW		1.88	2.16	2.34	3.6	3.87	4.4	5.23	5.96	6.9
Heating capacity	2-Pipe	High	kW		5.47	6.01	6.47	10.31	11.39	12.28	15.05	16.85	18.78
	4-Pipe	High	kW		3.14			5.99			12.8		
Power input	High		W		79			154			294		
Current input	High		A		0.36			0.73			1.28		
	Medium		A		0.21			0.60			0.90		
	Low		A		0.14			0.33			0.70		
Dimensions	Unit	HeightxWidthxDepth	mm		239x1,039x609			239x1,389x609			239x1,739x609		
Weight	Unit		kg		23	24	26	31	33	35	43	45	48
	Operation weight		kg		24	26	28	33	35	38	45	48	52
Heat exchanger	Water volume		l		1.1	1.5	2.2	1.6	2.1	3.2	2.1	2.8	4.2
Additional heat exchanger	Water volume		l		0.4			0.6			1.7		
Water flow	Cooling		l/h		448	539	598	873	936	1,111	1,299	1,488	1,774
	Heating		l/h		480	527	567	904	999	1,077	1,319	1,479	1,647
	Additional heat exchanger		l/h		275			526			1,123		
Water pressure drop	Cooling		kPa		8	14	11	15	8	14	21		26
	Heating		kPa		7	10	8	12	7	10	16	15	18
	Additional heat exchanger		kPa		3			5			8		
Fan	Type				Centrifugal - forward blades - directly coupled on fan motor								
	Quantity				1			2			3		
	Air flow rate	High	m^3/h		400			800			1,200		
	Available pressure	High	Pa		71			65			59		
Sound power level	High		dBA		56			59			69		
Sound pressure level	High		dBA		44.5			47.5			57.5		
Piping connections	Drain	OD	mm		16								
Water connections	Std. heat exchanger		inch		3/4								
	Add. heat exchanger		inch		3/4						1		
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/230								



FWE-CT/CF

FWEC1,2,3A

- Easy installation and maintenance
- 4-speed fan motor
- High power air flow
- Wired electronic controllers range
- Available static pressure up to 50Pa
- Wide operating range
- Standard left and right side water connection
- Extended drain pan as standard
- Factory mounted valve (both left and right side)
- Nylon filter G2 class
- Polyethylene insulation

Heating only & Cooling only

					2-PIPE							4-PIPE						
FWE-CT/CF					**FWE02CT**	**FWE03CT**	**FWE04CT**	**FWE06CT**	**FWE07CT**	**FWE08CT**	**FWE10CT**	**FWE02CF**	**FWE03CF**	**FWE04CF**	**FWE06CF**	**FWE07CF**	**FWE08CF**	**FWE10CF**
Cooling capacity	Total capacity	High		kW	1.81	2.78	3.49	5.32	5.68	6.92	8.64	1.76	2.69	3.22	5.20	5.61	6.79	8.61
	Sensible capacity	High		kW	1.33	2.08	2.58	3.94	4.30	5.25	6.48	1.28	1.99	2.53	3.81	4.20	5.09	6.39
Heating capacity	2-Pipe	High		kW	2.31	3.67	4.44	6.65	7.62	9.18	11.10	-						
	4-Pipe	High		kW	-							1.94	3.06	3.76	5.37	6.42	7.52	9.16
Power input	High			W	39	54	59	93	128	145	180	39	54	59	93	128	145	180
Current input	Super high			A	0.206	0.309	0.372	0.533	0.731	0.811	1.031	0.206	0.309	0.372	0.533	0.731	0.811	1.031
	High			A	0.174	0.243	0.265	0.430	0.575	0.648	0.780	0.174	0.243	0.265	0.430	0.575	0.648	0.780
	Medium			A	0.150	0.208	0.217	0.325	0.472	0.523	0.648	0.150	0.208	0.217	0.325	0.472	0.523	0.648
	Low			A	0.128	0.177	0.188	0.271	0.400	0.456	0.540	0.128	0.177	0.188	0.271	0.400	0.456	0.540
Dimensions	Unit	HeightxWidthxDepth		mm	253x590x705	253x590x875	253x590x1,005	253x590x1,205	253x590x1,455	253x590x1,555	253x590x1,815	253x590x705	253x590x875	253x590x1,005	253x590x1,205	253x590x1,455	253x590x1,555	253x590x1,815
Weight	Unit			kg	17	20	24	28	37	39	46	18	22	25	30	40	41	49
	Operation weight			kg	17	20	24	28	37	39	46	18	22	25	30	40	41	49
Heat exchanger	Water volume			l	0.74	1.02	1.24	1.56	1.97	2.14	2.56	0.74	1.02	1.24	1.56	1.97	2.14	2.56
Additional heat exchanger	Water volume			l	-							0.25	0.34	0.41	0.52	0.66	0.71	0.85
Water flow	Cooling			l/h	360	540	756	1,044	1,188	1,368	1,728	360	540	720	1,044	1,188	1,332	1,728
	Heating			l/h	252	360	504	684	828	936	1,188	108	180	216	324	432	468	576
Water pressure drop	Cooling			kPa	15.1	11.7	23.9	46.4	14.8	19.3	32.9	14.5	11.4	21.6	46.3	14.6	19.1	32.7
	Heating			kPa	6.1	4.9	9.7	17.9	6.6	8.4	13.7	3.6	8.8	15.6	31.8	58.6	74.6	123
Fan	Type				Centrifugal (Blade: Forward - curve)													
	Quantity				1		2		3		4	1		2		3		4
	Air flow rate	High		m^3/h	311	518	619	926	1,188	1,413	1,735	302.41	501.23	571.11	905.11	1,173.36	1,386.46	1,728.98
Sound power level	High			dBA	49	56	48	55	57	58	60	49	56	48	55	57	58	60
Sound pressure level	High			dBA	39	46	38	45	47	48	49	39	46	38	45	47	48	49
Piping connections	Drain	OD		mm	19.05													
Water connections	Std. heat exchanger			inch	3/4													
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240													

FWR-AT/AF

FWR-AT/AF

FWEC3A

- For wall or ceiling mounted installation: ideal solution for spaces with no false ceilings
- Up to 70% energy saving with BLDC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves
- Requires very little installation space

Heating only & Cooling only

				2-PIPE				4-PIPE			
FWR-AT/AF				**FWR02AT**	**FWR03AT**	**FWR06AT**	**FWR08AT**	**FWR02AF**	**FWR03AF**	**FWR06AF**	**FWR08AF**
Cooling capacity	Total capacity	Max.	kW	2.64	4.96	6.32	10.08	2.64	4.96	6.32	10.08
	Sensible capacity	Max.	kW	1.95	3.60	4.80	7.43	1.95	3.60	4.80	7.43
Heating capacity	2-Pipe	Max.	kW	3.47	6.40	7.51	11.18	-			
	4-Pipe	Max.	kW	-				2.46	4.19	6.45	10.06
Power input	Max.		W	57.4	82.7	101.4	147	57.4	82.7	101.4	147
Current input	Max.		A	0.50	0.72	0.88	1.27	0.50	0.72	0.88	1.27
	Min.		A	0.05		0.07	0.09	0.05		0.07	0.09
Dimensions	Unit	HeightxWidthxDepth	mm	564x774x226	564x987x226	564x1,194x226	564x1,404x251	564x774x226	564x987x226	564x1,194x226	564x1,404x251
Weight	Unit		kg	21	27	33	44	22	28	35	46
Heat exchanger	Water volume		l	0.7	1	1.4	2.1	0.7	1	1.4	2.1
Additional heat exchanger	Water volume		l	-				0.2	0.3	0.4	0.6
Water flow	Cooling		l/h	454	853	1,084	1,728	454	853	1,084	1,728
	Heating		l/h	454	853	1,084	1,728	216	367	565	882
Water pressure drop	Cooling		kPa	20	29	24	25	20	29	24	25
	Heating		kPa	16	23	19	20	11	9	14	45
Fan	Type			Centrifugal multi-blade, double suction							
	Quantity			1	2			1	2		
	Air flow rate	Max.	m^3/h	560	900	1,200	1,660	560	900	1,200	1,660
Sound power level	Max.		dBA	62	70	64	71	62	70	64	71
Piping connections	Water	Inlet		1/2"			3/4"	1/2"			3/4"
		Outlet		1/2"			3/4"	1/2"			3/4"
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							

FWS-AT/AF

Flexi type unit without cabinet

FWS-AT/AF

FWS-AT/AF

FWEC3A

- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Up to 70% energy saving with BLDC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves

Heating only & Cooling only

				2-PIPE				4-PIPE			
FWS-AT/AF				**FWS02AT**	**FWS03AT**	**FWS06AT**	**FWS08AT**	**FWS02AF**	**FWS03AF**	**FWS06AF**	**FWS08AF**
Cooling capacity	Total capacity	Max.	kW	2.64	4.96	6.32	10.08	2.64	4.96	6.32	10.08
	Sensible capacity	Max.	kW	1.95	3.60	4.80	7.43	1.95	3.60	4.80	7.43
Heating capacity	2-Pipe	Max.	kW	3.47	6.40	7.51	11.18	-			
	4-Pipe	Max.	kW	-				2.46	4.19	6.45	10.06
Power input	Max.		W	57.4	82.7	101.4	147	57.4	82.7	101.4	147
Current input	Max.		A	0.50	0.72	0.88	1.27	0.50	0.72	0.88	1.27
	Min.		A	0.05		0.07	0.09	0.05		0.07	0.09
Dimensions	Unit	HeightxWidthxDepth	mm	535x584x224	535x794x224	535x1,004x224	535x1,214x249	535x584x224	535x794x224	535x1,004x224	535x1,214x249
Weight	Unit		kg	15	19	23	32	16	20	25	34
Heat exchanger	Water volume		l	0.7	1	1.4	2.1	0.7	1	1.4	2.1
Additional heat exchanger	Water volume		l	-				0.2	0.3	0.4	0.6
Water flow	Cooling		l/h	454	853	1,084	1,728	454	853	1,084	1,728
	Heating		l/h	454	853	1,084	1,728	216	367	565	882
Water pressure drop	Cooling		kPa	20	29	24	25	20	29	24	25
	Heating		kPa	16	23	19	20	11	9	14	45
Fan	Type			Centrifugal multi-blade, double suction							
	Quantity			1	2			1	2		
	Air flow rate	Max.	m^3/h	560	900	1,200	1,660	560	900	1,200	1,660
Sound power level	Max.		dBA	62	70	64	71	62	70	64	71
Piping connections	Water	Inlet		1/2"			3/4"	1/2"			3/4"
		Outlet		1/2"			3/4"	1/2"			3/4"
	Drain	OD	mm	17							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							

FWL-DAT/DAF

FWL-DAT/DAF

FWEC1, 2, 3A

ECFWMB6

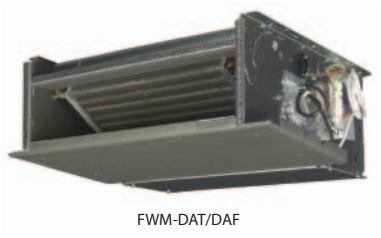
- Valve packages are insulated, no extra drain pan required
- The air filter can easily be removed for cleaning
- Valve packages contain balancing valves and sensor pocket
- **Quick fixing system for wall or ceiling mounted installation**
- Pre-assembled 3-way/4-port on/off valves are available
- Fast-on connections for electrical options: no tools needed

Heating only & Cooling only

				2-PIPE										4-PIPE									
FWL-DAT/DAF				**01**	**15**	**02**	**25**	**03**	**35**	**04**	**06**	**08**	**10**	**01**	**15**	**02**	**25**	**03**	**35**	**04**	**06**	**08**	**10**
Cooling capacity	Total capacity	High	kW	1.54	1.74	1.96	2.42	2.93	3.51	4.33	4.77	6.71	8.02	1.46	1.69	1.79	2.38	2.87	3.46	4.26	4.67	6.64	7.88
	Sensible capacity	High	kW	1.20	1.30	1.42	1.88	2.11	2.72	3.15	3.65	4.91	5.96	1.14	1.27	1.46	1.85	2.07	2.71	3.09	3.57	4.85	5.85
Heating capacity	2-Pipe	High	kW	2.14	2.20	2.57	3.20	3.81	4.78	5.10	5.95	7.83	10.03	-									
	4-Pipe	High	kW	-										1.90	2.02	2.01	2.92	3.08	4.80	5.05	5.30	7.91	8.35
Power input	High		W	37	53		57	56	98			182	244	37	53		57	56	98			182	244
Current input	High		A	0.17	0.24		0.26	0.25	0.44		0.43	0.82	1.10	0.17	0.24		0.26	0.25	0.44		0.43	0.82	1.10
	Medium		A	0.13	0.16		0.21	0.20	0.29		0.31	0.57	0.76	0.13	0.16		0.21	0.20	0.29		0.31	0.57	0.76
	Low		A	0.10	0.12	0.11	0.14		0.19		0.22	0.39	0.50	0.10	0.12	0.11	0.14		0.19		0.22	0.39	0.50
Dimensions	Unit	HeightxWidthxDepth	mm	564x774x226			564x987x226		564x1,194x226			564x1,404x251		564x774x226			564x987x226		564x1,194x226			564x1,404x251	
Weight	Unit		kg	20	21		27		32		33	44		21	22		28		24	34	35	46	
Heat exchanger	Water volume		l	0.5		0.7		1		1.4		2.1		0.5		0.7		1		1.4		2.1	
Additional heat exchanger	Water volume		l	-										0.2			0.3		0.4			0.6	
Water flow	Cooling		l/h	264	298	337	415	504	602	743	818	1,152	1,376	250	291	176	409	494	594	730	803	1,138	1,362
	Heating		l/h	264	298	337	415	504	602	743	818	1,152	1,376	167	177	182	257	270	421	443	465	694	733
Water pressure drop	Cooling		kPa	13	14	12	16	11	12		14	12	19	12	14	13	16	11	12		14	12	16
	Heating		kPa	11	12	10	13	9	10		12	10	16	6	8	7	4	5	9	12	10	30	
Fan	Type			Centrifugal multi-blade, double suction																			
	Quantity			1			2							1			2						
	Air flow rate	High	m^3/h	319	344		442	640	706	785	1,011	1,393		307	330	327	432	431	628	690	763	998	1,362
Sound power level	High		dBA	47	49	50	48	52	53	56	61	67		45	49	50	48	47	51	56	59	60	66
Piping connections	Water	Inlet		1/2"								3/4"		1/2"								3/4"	
		Outlet		1/2"								3/4"		1/2"								3/4"	
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230																			

FWM-DAT/DAF

Flexi type unit without cabinet



FWM-DAT/DAF

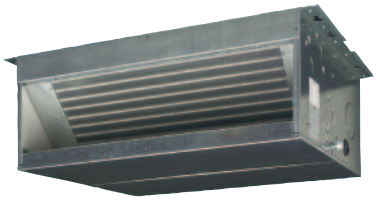
FWM-DAT/DAF

FWEC1, 2, 3A

- The air filter can easily be removed for cleaning
- Valve packages are insulated, no extra drain pan required
- Valve packages contain balancing valves and sensor pocket
- Quick fixing system for wall or ceiling mounted installation
- Pre-assembled 3-way/4-port on/off valves are available
- **Fast-on connections for electrical options: no tools needed**

Heating only & Cooling only

					2-PIPE										4-PIPE									
FWM-DAT/DAF					**01**	**15**	**02**	**25**	**03**	**35**	**04**	**06**	**08**	**10**	**01**	**15**	**02**	**25**	**03**	**35**	**04**	**06**	**08**	**10**
Cooling capacity	Total capacity	High		kW	1.54	1.74	1.96	2.42	2.93	3.51	4.33	4.77	6.71	8.02	1.46	1.69	1.79	2.38	2.87	3.46	4.26	4.67	6.64	7.88
	Sensible capacity	High		kW	1.20	1.30	1.42	1.88	2.11	2.72	3.15	3.65	4.91	5.96	1.14	1.27	1.46	1.85	2.07	2.71	3.09	3.57	4.85	5.85
Heating capacity	2-Pipe	High		kW	2.14	2.20	2.57	3.20	3.81	4.78	5.10	5.95	7.83	10.03	-									
	4-Pipe	High		kW	-										1.90	2.02	2.01	2.92	3.08	4.80	5.05	5.30	7.91	8.35
Power input	High			W	37	53		57	56	98			182	244	37	53		57	56	98			182	244
Current input	High			A	0.17	0.24		0.26	0.25	0.44		0.43	0.82	1.10	0.17	0.24		0.26	0.25	0.44		0.43	0.82	1.10
	Medium			A	0.13	0.16		0.21	0.20	0.29		0.31	0.57	0.76	0.13	0.16		0.21	0.20	0.29		0.31	0.57	0.76
	Low			A	0.10	0.12	0.11	0.14		0.19		0.22	0.39	0.50	0.10	0.12	0.11	0.14		0.19		0.22	0.39	0.50
Dimensions	Unit	HeightxWidthxDepth		mm	535x584x224			535x794x224		535x1,004x224			535x1,214x249		535x584x224			535x794x224		535x1,004x224			535x1,214x249	
Weight	Unit			kg	14	15		19		23			32		15	16		20		25			34	
Heat exchanger	Water volume			l	0.5		0.7		1		1.4		2.1		0.5		0.7		1		1.4		2.1	
Additional heat exchanger	Water volume			l	-										0.2			0.3		0.4			0.6	
Water flow	Cooling			l/h	264	298	337	415	504	602	743	818	1,152	1,376	250	291	176	409	494	594	730	803	1,138	1,362
	Heating			l/h	264	298	337	415	504	602	743	818	1,152	1,376	167	177	182	257	270	421	443	465	694	733
Water pressure drop	Cooling			kPa	13	14	12	16	11	12		14	12	19	12	14	13	16	11	12		14	12	16
	Heating			kPa	11	12	10	13	9	10		12	10	16	6	8	7	4	5	9	12	10	30	
Fan	Type				Centrifugal multi-blade, double suction																			
	Quantity				1			2							1			2						
	Air flow rate	High		m^3/h	319	344		442		640	706	785	1,011	1,393	307	330	327	432	431	628	690	763	998	1,362
Sound power level	High			dBA	47	49	50	48		52	53	56	61	67	45	49	50	48	47	51	56	59	60	66
Piping connections	Water	Inlet			1/2"								3/4"		1/2"								3/4"	
		Outlet			1/2"								3/4"		1/2"								3/4"	
	Drain	OD		mm	17																			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230																			



FWD04AT/AF

FWD04AT/AF

FWEC1,2,3A

- Quick fixing system for wall or ceiling mounted installation
- **Straight duct connector is mounted to discharge side**
- Electronic controller with water probe, available in standard, advanced and advanced plus version
- The air filter can easily be removed for cleaning

Heating only & Cooling only

					2-PIPE							4-PIPE						
FWD-AT/AF					**FWD04AT**	**FWD06AT**	**FWD08AT**	**FWD10AT**	**FWD12AT**	**FWD16AT**	**FWD18AT**	**FWD04AF**	**FWD06AF**	**FWD08AF**	**FWD10AF**	**FWD12AF**	**FWD16AF**	**FWD18AF**
Cooling capacity	Total capacity	High	kW		3.90	6.20	7.80	8.82	11.90	16.40	18.30	3.90	6.20	7.80	8.82	11.90	16.40	18.30
	Sensible capacity	High	kW		3.08	4.65	6.52	7.16	9.36	12.80	14.10	3.08	4.65	6.52	7.16	9.36	12.80	14.10
Heating capacity	2-Pipe	High	kW		4.05	7.71	9.43	10.79	14.45	19.81	21.92	-						
	4-Pipe	High	kW		-							4.49	6.62	9.21		15.86	21.15	
Power input	High		W		234	349	443		714	1,197		234	349	443		714	1,197	
Current input	High		A		0.95	1.58	1.97		3.21	5.37		0.95	1.58	1.97		3.21	5.37	
	Medium		A		0.74	1.39	1.52		2.08	4.38		0.74	1.39	1.52		2.08	4.38	
	Low		A		0.57	1.18	1.20		1.50	3.26		0.57	1.18	1.20		1.50	3.26	
Dimensions	Unit	HeightxWidthxDepth	mm		280x754x559	280x964x559	280x1,174x559		352x1,174x718	352x1,384x718		280x754x559	280x964x559	280x1,174x559		352x1,174x718	352x1,384x718	
Weight	Unit		kg		33	41	47	49	65	77	80	35	43	50	52	71	83	86
Heat exchanger	Water volume		l		1.06	1.42	1.79	2.38	2.5	4.02	5.03	1.06	1.42	1.79	2.38	2.50	4.02	5.03
Additional heat exchanger	Water volume		l		-							0.35	0.47	0.59		1.42	1.72	
Water flow	Cooling		l/h		674	1,064	1,339	1,514	2,056	2,833	3,140	674	1,064	1,339	1,514	2,056	2,833	3,140
	Heating		l/h		674	1,064	1,339	1,514	2,056	2,833	3,140	349	581	808		1,392	1,856	
Water pressure drop	Cooling		kPa		17	24		16	26	34	45	17	24		16	26	34	45
	Heating		kPa		14	20		13	21	28	37	9	15	13		12	16	
Fan	Type				Centrifugal multi-blade, double suction													
	Quantity				1	2						1	2					
	Air flow rate	High	m^3/h		800	1,250	1,600		2,200	3,000		800	1,250	1,600		2,200	3,000	
	Available pressure	High	Pa		66	58	68	64	97	145	134	63	53	63	59	92	138	128
Sound power level	High		dBA		66	69	72		74	78		66	69	72		74	78	
Piping connections	Drain	OD	mm		16							16						
Water connections	Std. heat exchanger		inch		3/4				1			3/4				1		
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/230													

FWT-CT

WRC-HPC

- Wide operating range
- Easy installation and maintenance
- 3-speed fan motor
- Double-intake centrifugal fans
- Excellent air flow and air distribution
- Flexibility via interchangeable water connection side
- High power air flow
- Insulated with self-extinguishing class 1 heat insulation
- Removable washable air filter (self-extinguishing class 1)
- **Wireless remote control up to 9m distance, availability of a wired or simplified controller**
- LED indicator gives an indication on the (normal or wrong) operation of the unit

Heating only & Cooling only

				2-PIPE				
FWT-CT				**FWT02CT**	**FWT03CT**	**FWT04CT**	**FWT05CT**	**FWT06CT**
Cooling capacity	Total capacity	High	kW	2.43	2.70	3.31	4.54	5.28
	Sensible capacity	High	kW	1.85	2.02	2.64	3.43	4.10
Heating capacity	2-Pipe	High	kW	3.22	3.52	4.40	6.01	5.26
Power input	High		W	31	32	42	53	72
Current input	High		A	0.19	0.20	0.21	0.29	0.34
	Medium		A	0.18	0.20		0.26	0.32
	Low		A	0.17	0.19		0.25	0.31
Dimensions	Unit	HeightxWidthxDepth	mm	288x800x206			310x1,065x224	
Weight	Unit		kg	9			14	
	Operation weight		kg	9.5	9.6		15	
Heat exchanger	Water volume		l	0.52	0.58		0.95	
Water flow	Cooling		l/h	420	460	570	780	910
	Heating		l/h	420	460	570	780	910
Water pressure drop	Cooling		kPa	34	24	31	28	32
	Heating		kPa	29	20	25		29
Fan	Type			Cross flow fan				
	Quantity			1				
	Air flow rate	High	m^3/h	442	476	629	866	1,053
Sound power level	High		dBA	45	48	55		59
Sound pressure level	High		dBA	34	35	42		46
Piping connections	Drain	OD	mm	19				
Water connections	Std. heat exchanger		inch	1/2				

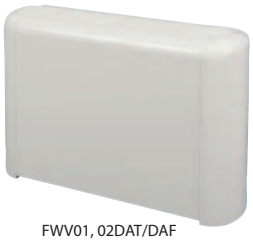
FWZ-AT/AF

FWEC3A

- Up to 70% energy saving with BLDC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves
- Requires very little installation space

Heating only & Cooling only

				2-PIPE				4-PIPE			
FWZ-AT/AF				**FWZ02AT**	**FWZ03AT**	**FWZ06AT**	**FWZ08AT**	**FWZ02AF**	**FWZ03AF**	**FWZ06AF**	**FWZ08AF**
Cooling capacity	Total capacity	Max.	kW	2.64	4.96	6.32	10.08	2.64	4.96	6.32	10.08
	Sensible capacity	Max.	kW	1.95	3.60	4.80	7.43	1.95	3.60	4.80	7.43
Heating capacity	2-Pipe	Max.	kW	3.47	6.40	7.51	11.18	-			
	4-Pipe	Max.	kW	-				2.46	4.19	6.45	10.06
Power input	Max.		W	57.4	82.7	101.4	147	57.4	82.7	101.4	147
Current input	Max.		A	0.50	0.72	0.88	1.27	0.50	0.72	0.88	1.27
	Min.		A	0.05		0.07	0.09	0.05		0.07	0.09
Dimensions	Unit	HeightxWidthxDepth	mm	564x774x226	564x987x226	564x1,194x226	564x1,404x251	564x774x226	564x987x226	564x1,194x226	564x1,404x251
Weight	Unit		kg	20	25	31	41	21	26	33	44
Heat exchanger	Water volume		l	0.7	1	1.4	2.1	0.7	1	1.4	2.1
Additional heat exchanger	Water volume		l	-				0.2	0.3	0.4	0.6
Water flow	Cooling		l/h	454	853	1,084	1,728	454	853	1,084	1,728
	Heating		l/h	454	853	1,084	1,728	216	367	565	882
Water pressure drop	Cooling		kPa	20	29	24	25	20	29	24	25
	Heating		kPa	16	23	19	20	11	9	14	45
Fan	Type			Centrifugal multi-blade, double suction							
	Quantity			1	2			1	2		
	Air flow rate	Max.	m^3/h	560	900	1,200	1,660	560	900	1,200	1,660
Sound power level	Max.		dBA	62	70	64	71	62	70	64	71
Piping connections	Water	Inlet		1/2"			3/4"	1/2"			3/4"
		Outlet		1/2"			3/4"	1/2"			3/4"
	Drain	OD	mm	16							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							



FWV01, 02DAT/DAF

FWEC1, 2, 3A

ECFWMB6

- Quick fixing system for wall mounted installation
- Pre-assembled 3-way/4-port on/off valves are available
- Valve packages are insulated, no extra drain pan required
- Valve packages contain balancing valves and sensor pocket
- Fast-on connections for electrical options: no tools needed
- The air filter can easily be removed for cleaning
- Electric heater: no relay up to 2kW capacity
- Electric heater: equipped with two overheat cut-out thermostats

Heating only & Cooling only

				2-PIPE										4-PIPE									
FWV-DAT/DAF				**01**	**15**	**02**	**25**	**03**	**35**	**04**	**06**	**08**	**10**	**01**	**15**	**02**	**25**	**03**	**35**	**04**	**06**	**08**	**10**
Cooling capacity	Total capacity	High	kW	1.54	1.74	1.96	2.42	2.93	3.51	4.33	4.77	6.71	8.02	1.46	1.69	1.79	2.38	2.87	3.46	4.26	4.67	6.64	7.88
	Sensible capacity	High	kW	1.20	1.30	1.42	1.88	2.11	2.72	3.15	3.65	4.91	5.96	1.14	1.27	1.46	1.85	2.07	2.71	3.09	3.57	4.85	5.85
Heating capacity	2-Pipe	High	kW	2.14	2.20	2.57	3.20	3.81	4.78	5.10	5.95	7.83	10.03	-									
	4-Pipe	High	kW	-										1.90	2.02	2.01	2.92	3.08	4.80	5.05	5.30	7.91	8.35
Power input	High		W	37	53		57	56	98			182	244	37	53		57	56	98			182	244
Current input	High		A	0.17	0.24		0.26	0.25	0.44		0.43	0.82	1.10	0.17	0.24		0.26	0.25	0.44		0.43	0.82	1.10
	Medium		A	0.13	0.16		0.21	0.20	0.29		0.31	0.57	0.76	0.13	0.16		0.21	0.20	0.29		0.31	0.57	0.76
	Low		A	0.10	0.12	0.11	0.14		0.19		0.22	0.39	0.50	0.10	0.12	0.11	0.14		0.19		0.22	0.39	0.50
Dimensions	Unit	HeightxWidthxDepth	mm	564x774x226			564x987x226		564x1,194x226			564x1,404x251		564x774x226			564x987x226		564x1,194x226			564x1,404x251	
Weight	Unit		kg	19	20		25		30		31	41		20	21		26		32		33	44	
Heat exchanger	Water volume		l	0.5		0.7		1		1.4		2.1		0.5		0.7		1		1.4		2.1	
Additional heat exchanger	Water volume		l	-										0.2			0.3		0.4			0.6	
Water flow	Cooling		l/h	264	298	337	415	504	602	743	818	1,152	1,376	250	291	176	409	494	594	730	803	1,138	1,362
	Heating		l/h	264	298	337	415	504	602	743	818	1,152	1,376	167	177	182	257	270	421	443	465	694	733
Water pressure drop	Cooling		kPa	13	14	12	16	11	12		14	12	19	12	14	13	16	11	12		14	12	16
	Heating		kPa	11	12	10	13	9	10		12	10	16	6	8	7	4	5	9	12	10	30	
Fan	Type			Centrifugal multi-blade, double suction																			
	Quantity			1			2							1			2						
	Air flow rate	High	m^3/h	319	344		442	640	706	785	1,011	1,393		307	330	327	432	431	628	690	763	998	1,362
Sound power level	High		dBA	47	49	50	48	52	53	56	61	67		45	49	50	48	47	51	56	59	60	66
Piping connections	Water	Inlet		1/2″								3/4″		1/2″								3/4″	
		Outlet		1/2″								3/4″		1/2″								3/4″	
	Drain	OD	mm	16																			
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230																			

Daikin air handling units, with their plug-and-play design and inherent flexibility, can be configured and combined specifically to meet the exact requirements of any building, no matter what it is used for or who is to work there. Our systems are designed to be the most environmentally friendly and the most energy efficient on the market, thus reducing their ecological impact, while, at the same time, keeping costs down through the minimisation of energy consumption. When combined with the small physical footprint of the system, these features make our air handling units ideal for all markets.

AIR HANDLING UNITS

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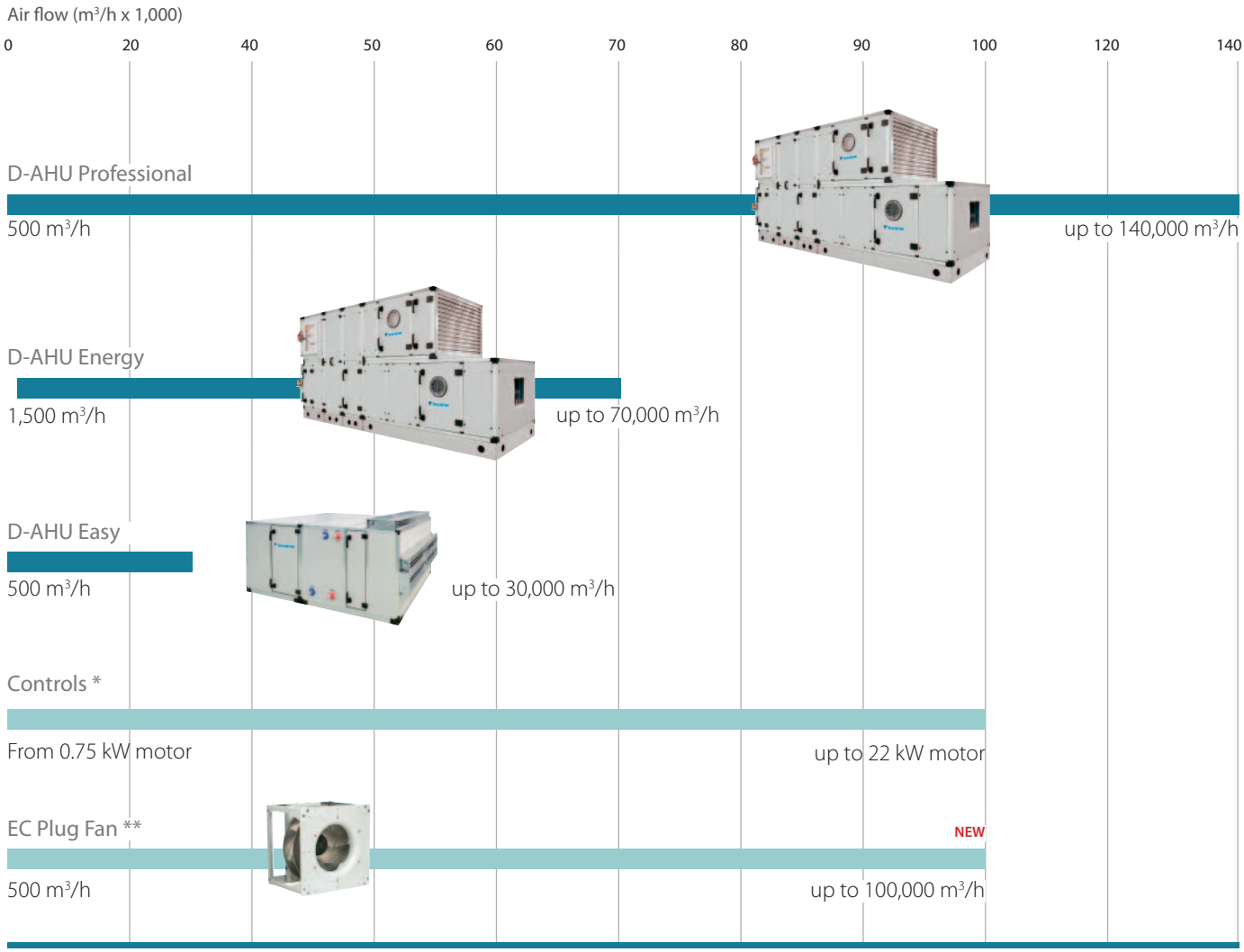
For more information on Options & Accessories, please refer to page 356 of this catalogue.

Daikin Air handling units

Overview

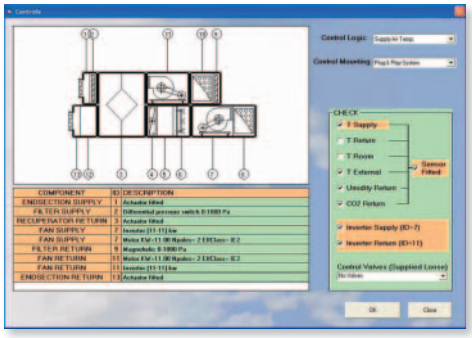


* optional - for Professional and Energy series
** optional

Software

ASTRA is the powerful software that Daikin has developed to offer a quick and comprehensive service for the customer in order to make the technical choice and the economic valorization of each air handling unit. It is a complete tool that can configure any type of product and respond exactly to the strictest design needs. The result is a comprehensive economic offer including all the technical data and drawings, the psychrometric diagram with the relative air treatment and the fans' performance curves. However, Daikin didn't stop there, they went further.
MECCANO is the other powerful software developed and designed to quickly convert the offer in the executive order. Technical drawings to be sent and approved by the client, executive drawings for the production, bill of material, code generation for each component used are just a few of the many functions of the instrument.

The ASTRA-MECCANO integration has therefore made possible the complete automated management of the process by reducing the time of the offer and of the delivery and improving the service to our customers.



Eurovent certification

Daikin is participating in the Eurovent Certification Programme for Air Handling Units. They are certified under the number 11.05.003 and presented on www.eurovent-certification.com

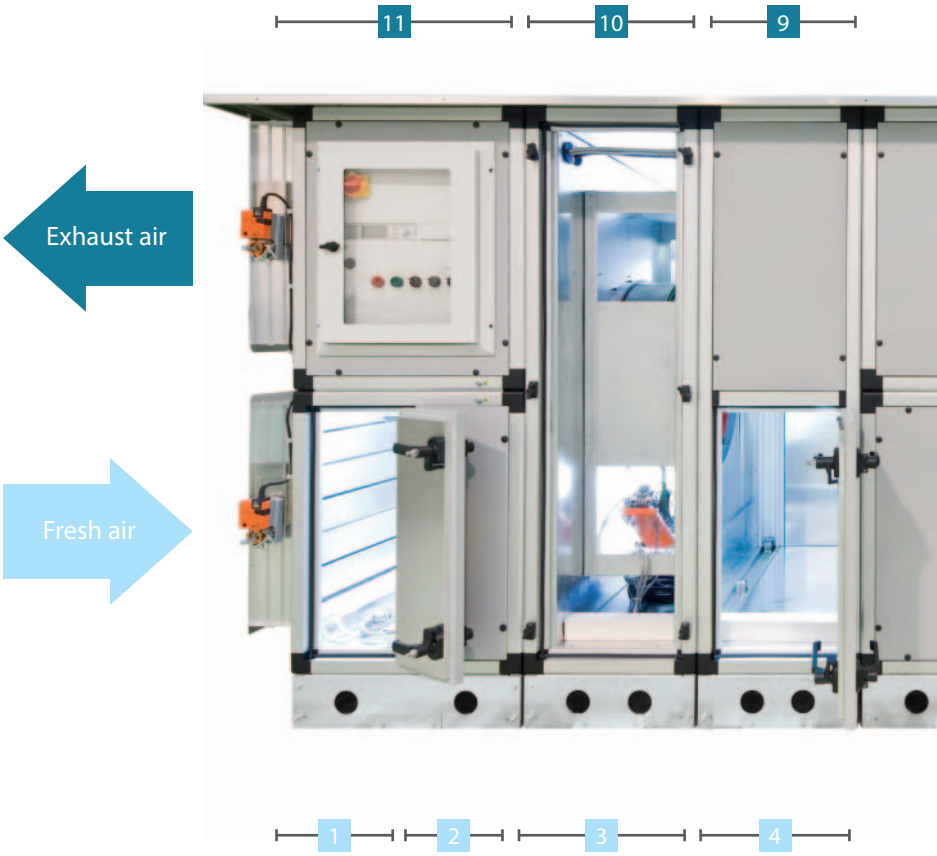
DAIKIN AIR HANDLING UNITS	RESULT SP65	EUROVENT CLASSIFICATION ACCORDING TO EN1886					
		CASING MECHANICAL STRENGTH					
Casing mechanical strength	D1	Casing Class	D1		D2		D3
		Maximum relative deflection mm x m^{-1}	4.00		10.00		EXCEEDING10
		CASING AIR LEAKAGE NEGATIVE PRESSURE -400 PA					
Casing air leakage Negative pressure -400 Pa	L1	Leakage Class	L1		L2		L3
		Maximum leakage rate (f_{400}) l x s^{-1} x m^{-2}	0.15		0.44		1.32
		CASING AIR LEAKAGE POSITIVE PRESSURE +700 PA					
Casing air leakage Positive pressure +700 Pa	L1	Leakage Class	L1		L2		L3
		Maximum leakage rate (f_{700}) l x s^{-1} x m^{-2}	0.22		0.63		1.90
		FILTER BYPASS LEAKAGE					
Filter bypass leakage	F9	Filter Class	F9	F8	F7	F6	G1 TO F5
		Maximum filter bypass leakage rate k in % of the volume flow rate	0.50	1	2	4	6
		THERMAL TRANSMITTANCE					
Thermal transmittance	T2	Class	T1	T2	T3	T4	T5
		Thermal transmittance (U) W/m^2 x K	U <= 0.5	0.5 < U <= 1	1 < U <= 1.4	1.4 < U <= 2	No requirements
		THERMAL BRIDGING OF THE CASING					
Thermal bridging of the casing	TB2	Class	TB1	TB2	TB3	TB4	TB5
		Thermal bridging facto (kb) W x m^{-2} x K-1	0.75 < K_b <= 1	0.6 < K_b <= 0.75	0.45 < K_b <= 0.6	0.3 < K_b <= 0.45	No requirements

The working principle at a glance

Typical configurations for Daikin air handling units provide a versatile range of functions. Our system offers numerous options for customisation through an extensive range of variations and added functionality.

Supply side

1. Damper section including ventilation grilles, factory-mounted actuators
2. Bag filter with factory-mounted differential pressure manometer and hinged door
3. Heat recovery system (plate heat exchanger or rotation heat exchanger)
4. Mixing box with damper and factory-mounted actuators
5. R-410A with heat recovery system with galvanised condensate tray and drip protection
6. Supply air fan (with hinged door, opening, drive monitoring, mounted and cabled lighting and ON/OFF switch)



Fans

- Forward curved fan
- Backward curved fan
- Backward airfoil blades fan
- Plug fan
- EC plug fan

Exchangers

- Water coils
- Steam coils
- Direct expansion coil
- Superheated water coils
- Electric coils

Humidifiers

- Evaporative humidifier without pump (loss water)
- Evaporative humidifier with re-circulating pump
- Air washer without pump (loss water)
- Air washer with re-circulating pump
- Steam humidifier with direct steam production
- Steam humidifier with local distributor
- Atomized water spray humidifier

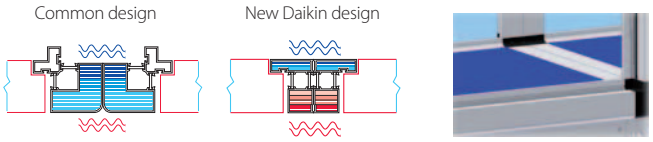
Daikin Air handling units

Control system on plug and play solution basis

- Air temperature control
- Chilled water and DX cooling system control
- Free cooling
- CO_2 automatic control

Unique section to section thermal break profile

- Thermal bridge free for the entire AHU
- Smooth interior surface with improved IAQ (Indoor Air Quality)



Return air

Supply air

Return side

7 Bag filter with factory-mounted differential pressure manometer and hinged door.

8 Exhaust air fan (with hinged door, opening, drive monitoring, mounted and cabled lighting and ON/OFF switch)

9 Mixing box with damper and factory-mounted actuators

10 Heat recovery system (plate heat exchanger or rotation exchanger)

11 Damper section including ventilation grilles, factory-mounted actuators

Heat recovery systems

- Heat wheel, sensible or sorption
- Plate heat exchanger (optional bypass)
- Run-around coils

Other section

- Attenuator section
- Mixing box section with actuators or manual controlled dampers
- Empty section

Filters

- Synthetic pleated filter
- Flat filter aluminium mesh
- Rigid bag filter
- Soft bag filter
- High efficiency filter
- Carbon absorption filter
- Carbon deodorizing filter

Accessories

- Control features
- Frost protection
- Manometers
- Drive guard
- Roof
- …

Daikin Air handling units

D-AHU Professional. The most flexible solution

Pre-defined family of size
Twenty-seven (27) fixed sizes optimized for the most cost effective selection and manufacturing standardization.

Infinite variable sizing
- Designed for special applications all over the world. It is possible to tailor the unit to customers' needs by very small 1cm increments.
- Air flow from 500 m^3/h up to 140,000 m^3/h
- All the sizes are modular manufactured to facilitate the transport and the assembly on site.

Pre-defined sizes - Overall dimensions

Size	Air Flow (m^3/h)	Height - mm	Width - mm
1	1.105	550	850
2	1.550	600	900
3	1.980	650	950
4	2.600	780	1.100
5	3.170	780	1.150
6	3.550	800	1.150
7	4.000	800	1.250
8	4.800	850	1.300
9	5.560	900	1.350
10	6.600	900	1.550
11	7.950	1.100	1.550
12	9.320	1.100	1.650
13	10.050	1.150	1.650

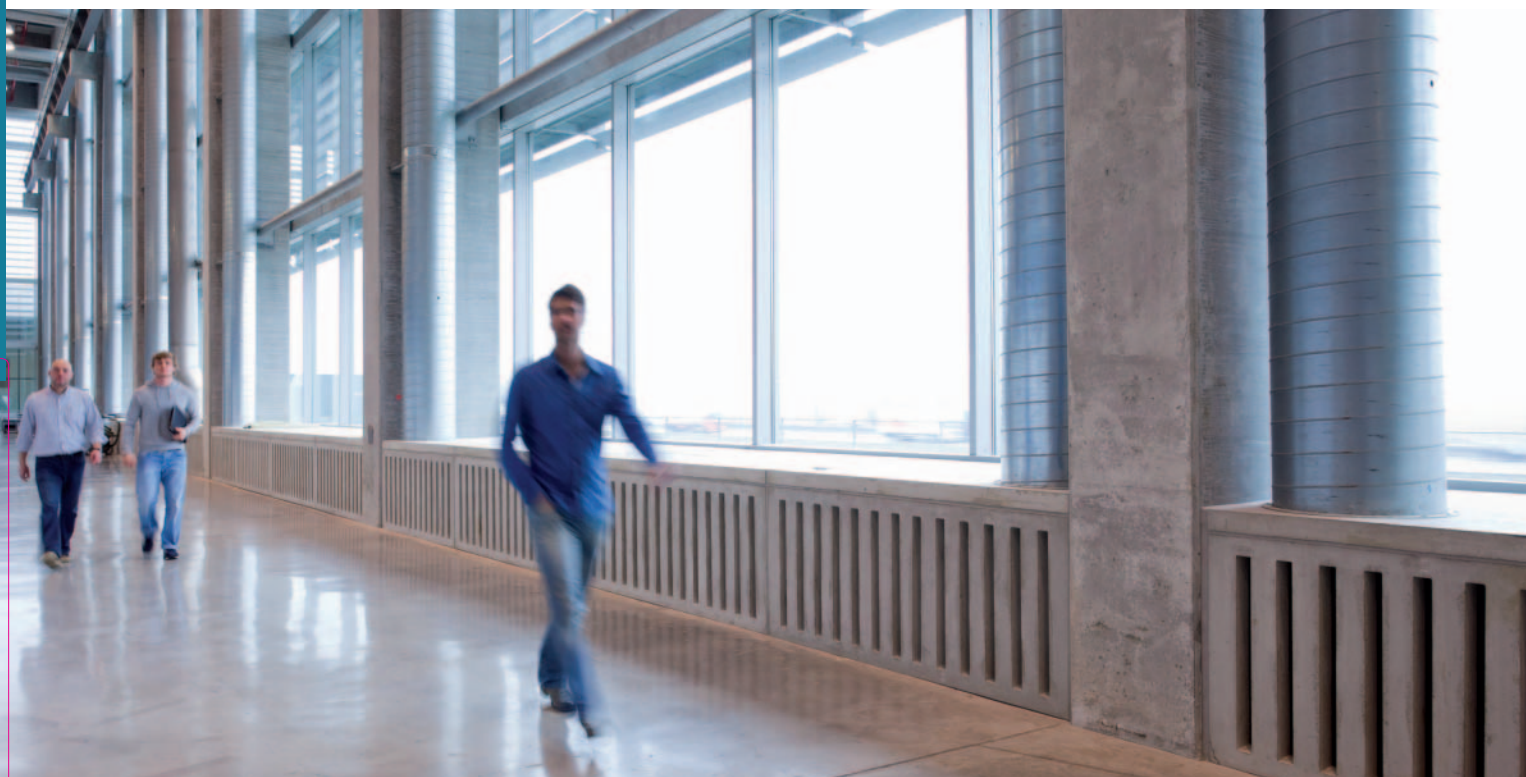
Size	Air Flow (m^3/h)	Height - mm	Width - mm
14	13.200	1.400	1.850
15	19.200	1.500	2.100
16	25.300	1.580	2.650
17	31.500	1.750	2.750
18	37.000	1.800	3.240
19	43.400	2.100	3.090
20	51.300	2.250	3.340
21	58.000	2.250	3.820
22	67.500	2.400	4.040
23	78.000	2.450	4.490
24	84.700	2.700	4.490
25	98.000	2.850	4.890
26	111.000	2.850	5.490
27	124.000	3.000	5.990

Infinitely variable sizes

Flexible sizing for AHU optimization
- 1 cm increment for width & height dimensions
- No additional cost for customized unit size
- No additional lead time

Example

Air Flow (m^3/h)	Unit Size	Height - mm	Width - mm	Face Velocity m/s
15.000	STD 15	1.500	2.100	1.95
	1.500x1.750	1.500	1.750	2.46



D-AHU Energy. Best seasonal performance and return on investment

Daikin leads the way in energy efficiency and the Energy series represents the ultimate in air handling units. The D-AHU Energy has been designed to optimize the energy consumption and thus minimize the running cost. When compared with standard AHUs, this means lower seasonal (year-round) power consumption and a reduction in the overall energy bill.

High efficient selected components

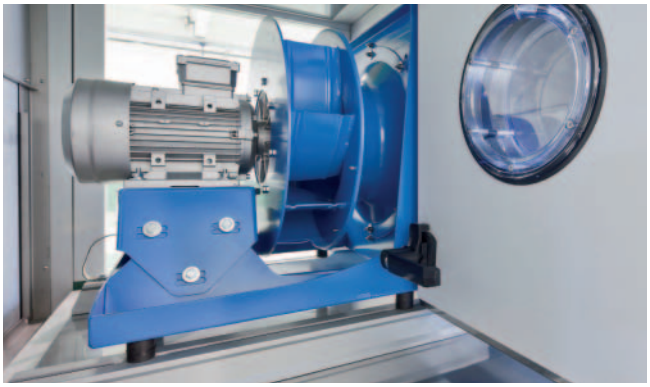
High efficiency heat recovery

The D-AHU Energy series is equipped with high efficiency heat recovery equipment that delivers a minimum of 65% of heat recovered and could go up to the exceptional value of 90% heat recovery. The customer can choose between different equipment and in particular the heat recovery section could be arranged with:

Condensation wheel
Enthalpy wheel
Sorption wheel

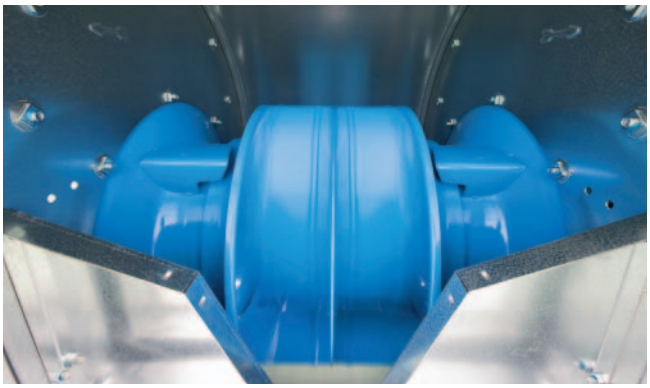
Premium efficiency motor

Premium efficiency motors in line with EU regulation (EC) no. 640/2009 are available for the Energy series in order to further reduce electrical power consumption.



High efficiency fan

Fans with double-width, double-inlet and backward curved airfoil blades are available with efficiency of up to 85% as well as reinforced bearings for longer lifespan.



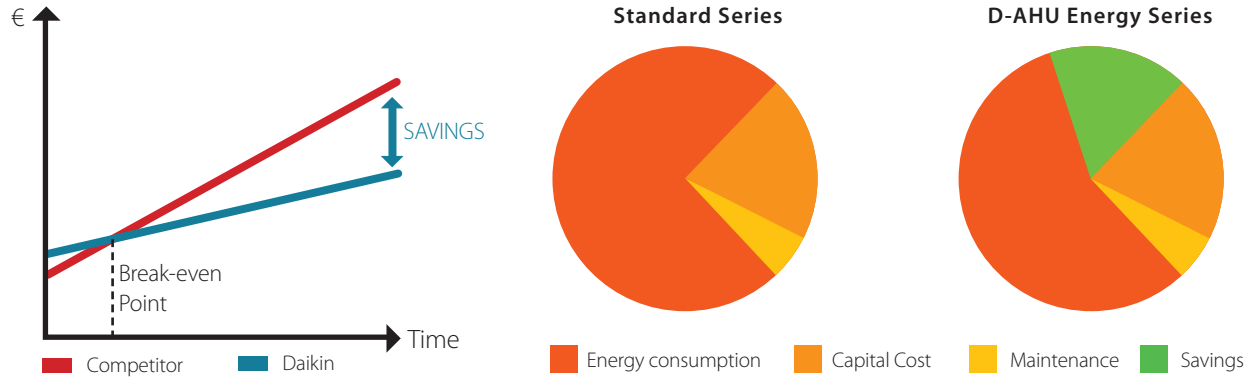
Plug and play controls

Daikin has developed a control system to efficiently manage all components selected either independently or through an external supervision system. The control package includes the control panel, advanced microprocessor and in-built sensors for temperature, humidity and air quality.

Return On Investment

An air handling unit is critical to an effective climate control system and, although the initial investment can appear high, the savings generated by our advanced designs and operating efficiencies guarantee a rapid return on the investment made. Our D-AHU Energy series has been designed to deliver exceptional performance thus driving down the energy consumed and so lowering energy bills. Taken over the expected 15-year life-span of the equipment, this will result in an enormous saving, especially in a time of ever increasing energy prices.

AHU Life Cycle Cost (LCC)

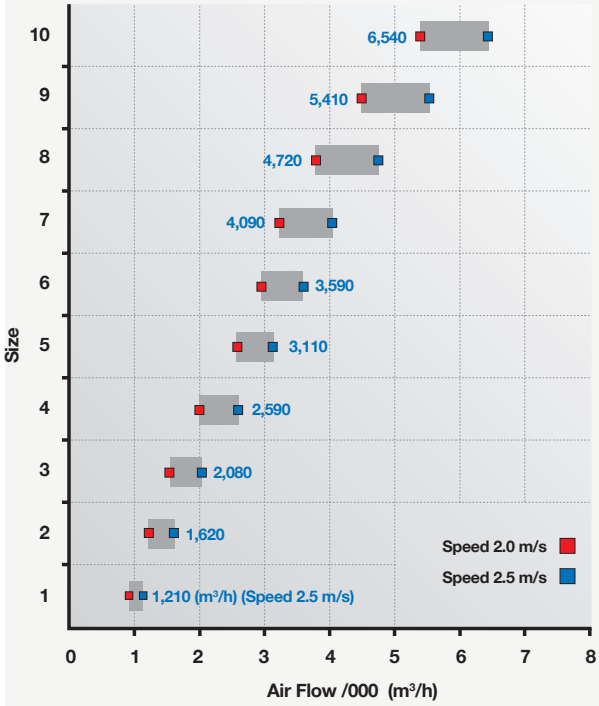


Specific Fan Power (SFP) is a measure used in the evaluation of the energy consumed by an air handling unit. As defined in EN 13053 and EN 13779, the lower the SFP, the lower the power consumption of the entire air handling unit. The D-AHU Energy has been designed to deliver the lowest possible SFP by using the most efficient components designed to provide the perfect solution series to your needs. It is an optimized answer to the European directive on the energy performance of buildings (EPBD) that seeks to reduce the impact on global warming.

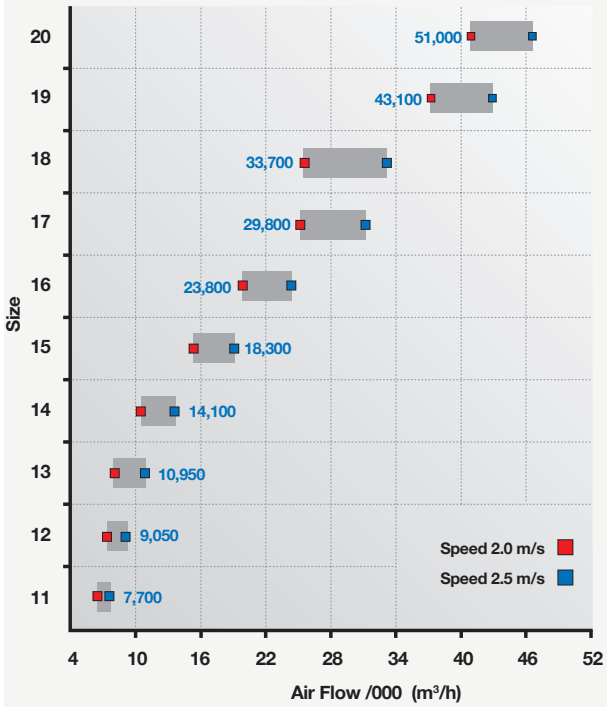
D-AHU Energy

Technical data

D-AHU ENERGY 1-10



D-AHU ENERGY 11-20



D-AHU ENERGY 1-20

Size	Air Flow (m³/h) Speed 2.5 m/s	Height - mm	Width - mm
1	1,210	580	720
2	1,620	610	770
3	2,080	680	820
4	2,590	750	870
5	3,110	750	990
6	3,590	750	1,100
7	4,090	800	1,110
8	4,720	810	1,240
9	5,410	870	1,270
10	6,540	970	1,370
11	7,700	1,050	1,370
12	9,050	1,110	1,470
13	10,950	1,180	1,620
14	14,100	1,360	1,720
15	18,300	1,480	1,970
16	23,800	1,610	2,270
17	29,800	1,740	2,570
18	33,700	1,900	2,710
19	43,100	2,090	3,060
20	51,000	2,220	3,360

Infinitely variable sizes

Flexible sizing for AHU optimization

- **1 cm increment for width & height dimensions**
- **No additional cost for customized unit size**
- **No additional lead time**

Example

Air Flow (m³/h)	Unit Size	Height - mm	Width - mm	Face Velocity m/s
15,000	Size 15	1,480	1,970	2.04
	1,480 x 1,660	1,480	1,660	2.50

D-AHU Easy. Ideal to cover your simple AHU needs

The range covers an area of air flow rates from 500 m³/h up to 30,000 m³/h*, with the possibility to choose the more appropriate face velocity, depending on the treatment required.

Pre defined sizes

Fifteen fixed sizes optimized to reach the best compromise between competitiveness and manufacturing standardization.

Variable Dimensioning

Designed to overcome installation constraints where space requirements of the section "height x width" must be adapted to the available space. The system gives the possibility to tailor the unit sizes through increments of 1 cm average.

Pre defined sizes - Overall dimension

Size	Air Flow (m³/h) Speed 2.5 m/s	Height - mm	Width - mm
Std 1	1,105	550	850
Std 2	1,550	600	900
Std 3	1,980	650	950
Std 4	2,600	780	1,100
Std 5	3,170	780	1,150
Std 6	3,550	800	1,150
Std 7	4,000	800	1,250
Std 8	4,800	850	1,300
Std 9	5,560	900	1,350
Std 10	6,600	900	1,550
Std 12	9,320	1,100	1,650
Std 14	13,200	1,400	1,850

Example

Air Flow (m³/h)	Unit Size	Height - mm	Width - mm	Face Velocity m/s
15.000	STD 15	1,500	2,100	1.95
	1.500x1.700	1,500	1,700	2.48

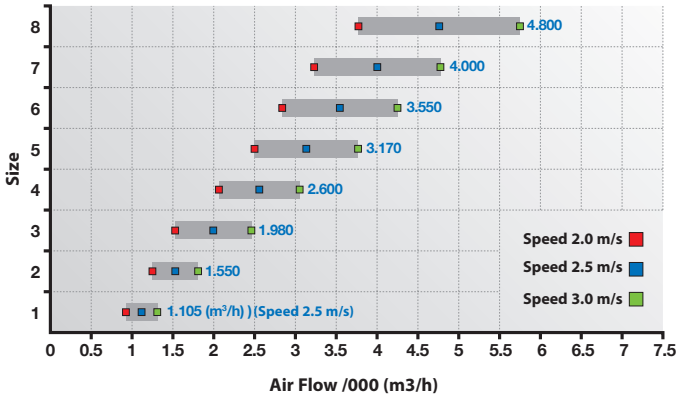
Infinitely variable sizes

Flexible sizing for AHU optimization

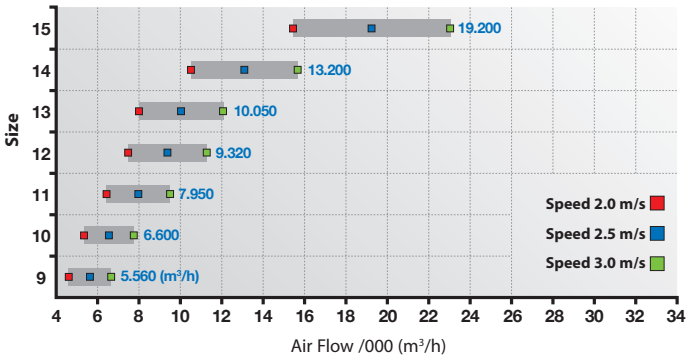
- 1 cm increment for width & height dimensions
- No additional cost for non-standard unit size
- No additional lead time

*Air Flow limits of 500 m³/h and 30,000 m³/h are calculated using non standard sizes (max dimensions 2,150x2,150) and considering 2.5 m/s coil face velocity

D-AHU Easy 1-8



D-AHU Easy 9-15



Plug and play: More control, more flexibility

The new plug and play control system gives end-users a higher degree of control than ever before, allowing the user to determine a wide range of settings, resulting in excellent operational flexibility.

The factory-fitted electrical control panel, complete with Direct Digital Control (DDC) controller, is combined with in-built temperature, humidity and CO_2 sensors to control mixing dampers, heat recovery wheels, water valves, pressure switches for filters and fans, fan motors and inverters.

All these components are wired internally and individual AHU modules are linked by fast connectors.

The AHU control system can manage the chilled water coil, hot water coil, DX cooling and/or heating coil(s) (in conjunction with ERQ/VRV) of single or multiple refrigerant circuits (up to a maximum of four circuits per DX coil).

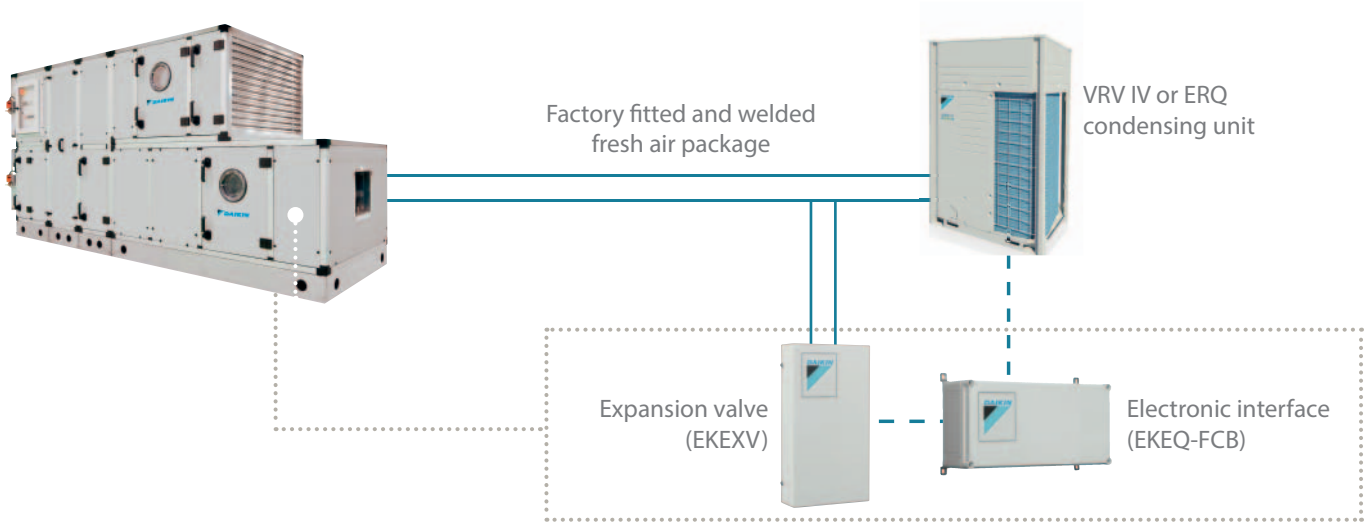
Daikin Fresh Air package

High Efficiency

Daikin heat pumps are renowned for their high energy efficiency. The VRV range offers both heat pump and heat recovery units with part load efficiencies as high as 9.02. Integrating the AHU with a heat recovery system is highly effective since an office system can frequently be in cooling mode while the outdoor air is too cold to be brought inside in an unconditioned state. In this case heat from the offices is merely transferred to heat up the cold incoming fresh air. In the absence of an AHU this 'free heating' of incoming fresh air would not be possible.

High Comfort Levels

Daikin ERQ and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resultant high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.




FERAG

Daikin offers a wide range of condensing units for cooling and freezing applications. Daikin refrigeration units combine efficiency and reliability with easy installation and maintenance.

REFRIGERATION

ZEAS condensing units 344
LREQ-BY1

Multi ZEAS condensing units 347
LREQ-BY1R

Conveni-Pack 350
LRYEQ-AY1

Booster unit 352
LCBKQ-AV1

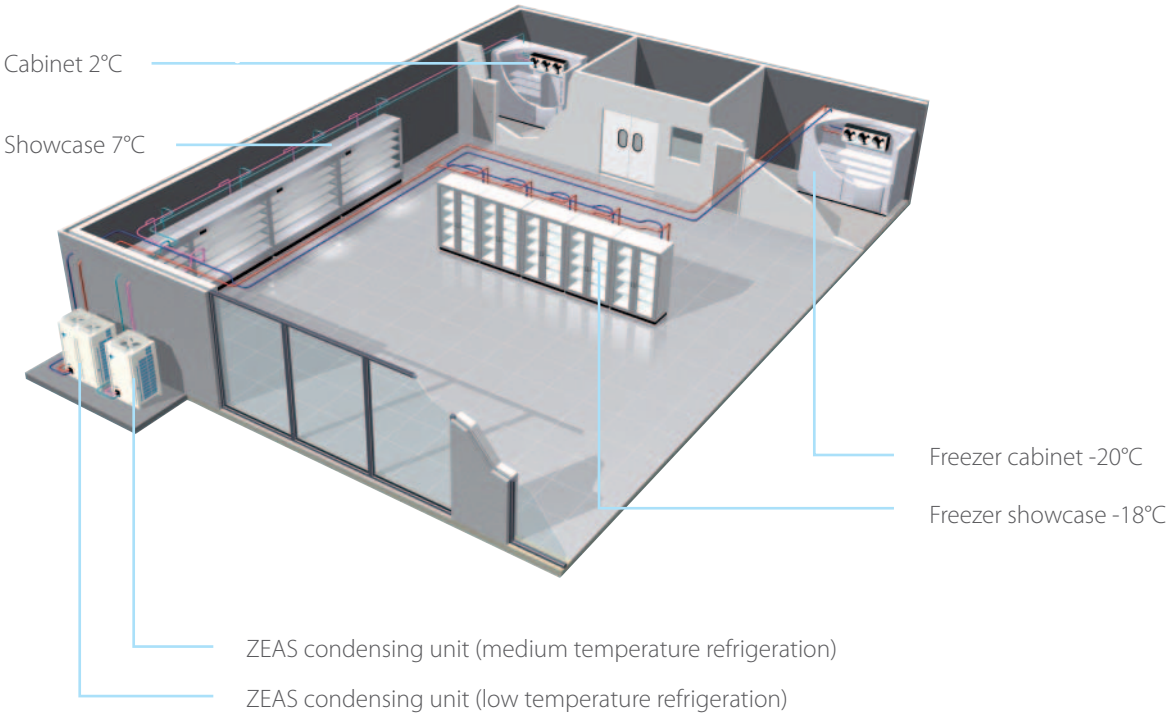
Commercial condensing units 354
JEHCCU-M/L & JEHSCU-M

Large variable capacity condensing unit 355
ICU

For more information on Options & Accessories, please refer to page 356 of this catalogue.

ZEAS condensing units

The ZEAS condensing units are the perfect solution for applications with fluctuating loads and high energy efficiency needs, including supermarkets, blast coolers and freezers, cold storage, butchers, bakeries, restaurants and petrol station retail outlets.
On top of that, the small footprint and small sound emissions allow installations in narrow spaces and urban surroundings.



High energy efficiency

Market-leading energy efficiency for reduced costs and lower environmental impact.

The combination of Daikin's renowned VRV and DC brushless inverter technology - unique within the refrigeration business - means that the ZEAS delivers high energy efficiency even under partial load conditions. This results in reduced energy consumption which has a positive impact on costs and the environment. The ZEAS condenser is ideal for chilled display units, blast coolers, freezers and cold storage in a variety of business situations.

Fully packaged unit

The ZEAS units are factory-assembled to ensure that all the correct components are installed and work together in an optimal manner thus reducing the installation time. The units are then subjected to a range of tests to ensure the correct performance and that there are no leaks of the pre-loaded refrigerant. This, together with the advanced, built-in controls that are pre-charged for automated optimisation and safety regulation, mean that the ZEAS is truly a plug-and-play installation.

Small footprint and low weight

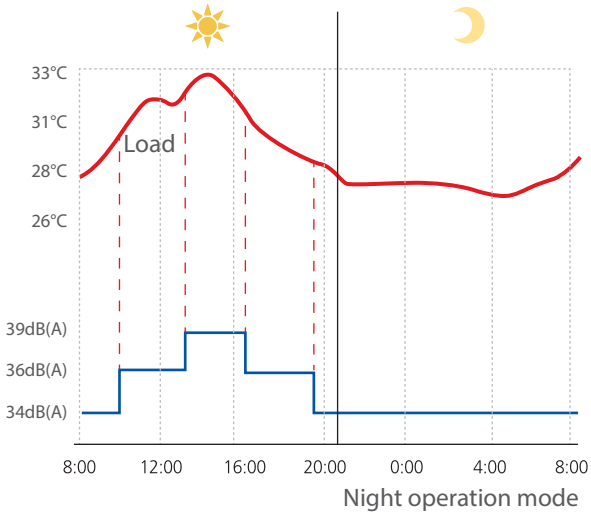
The best things come in small packages

The small physical size of the ZEAS condensing units belie their power. The low overall dimensions of these units, the smallest 10hp condensing units on the market, means that they can be installed close to where they are required. This eliminates the need for a dedicated technical room, providing enormous savings in term of space, a critical economic benefit in applications such as supermarkets. All in all, the ZEAS provides the best surface-to-capacity ratio in the market.

Low sound level

A neighbourhood-friendly choice

ZEAS condensing units are far quieter than traditional units, because the inverter control allows fan speeds to be kept low while still meeting cooling demand. Sound levels can be further adjusted to match environmental requirements or the time of day. At night, for example, maximum fan speeds can be lowered to reduce noise from 39 dB(A) to 32 dB(A), with only a limited loss of refrigeration capacity. The fans have blades and grills specially designed to reduce turbulence and thus noise level.



LREQ-BY1

LREQ8-12BY1

INVERTER

- One model for all applications from -45°C to 10°C evaporating temperature
- Perfect solution for all cooling and freezing applications with variable load conditions and high energy efficiency requirements.In particular used in supermarkets, cold storage, blast coolers and freezers etc.
- DC inverter scroll compressor with economiser function results in high energy efficiency and reliable performance
- Reduced CO_2 emissions thanks to the use of R-410A refrigerant and low energy consumption
- Factory tested and pre-programmed for quick and easy installation and commissioning
- VRV (Variable Refrigerant Volume) technology for flexible application range
- Increased installation flexibility thanks to limited dimensions
- Low sound level including "night mode" operation
- Possibility to connect to booster unit for small LT applications

Outdoor unit					LREQ5BY1	LREQ6BY1	LREQ8BY1	LREQ10BY1	LREQ12BY1	LREQ15BY1	LREQ20BY1
Refrigerating capacity	Medium temperature[1]	Nom.		kW	12,5	15,2	19,8	23,8	26,5	33,9	37,9
	Low temperature[2]	Nom.		kW	5,51	6,51	8,33	10,0	10,7	13,9	15,4
Power input	Medium temperature[1]	Nom.		kW	5,10	6,56	8,76	10,6	12,0	15,2	17,0
	Low temperature[2]	Nom.		kW	4,65	5,88	7,72	9,27	9,89	12,8	14,1
Dimensions	Unit	HeightxWidthxDepth		mm	1,680x635x765		1,680x930x765			1,680x1,240x765	
Weight	Unit			kg	166		242			331	337
Heat exchanger	Type				Cross fin coil						
Compressor	Type				Hermetically sealed scroll compressor						
	Piston displacement			m^3/h	11,18	13,85	19,68+19,68	23,36+23,36	25,27+25,27	32,24+32,24	35,8+35,8
	Speed			rpm	5,280	6,540	4,320+2,900	6,060+2,900	6,960+2,900	5,280+2,900+2,900	6,960+2,900+2,900
	Output			W	2,600	3,200	2,100+3,600	3,000+3,600	3,400+3,600	2,600+3,600+3,600	3,400+3,600+3,600
	Starting method				Direct on line (inverter driven)						
Fan	Type				Propeller fan						
	Quantity				1					2	
	Air flow rate	Cooling	Nom.	m^3/min	95	102	171	179	191	230	240
Fan motor	Output			W	350		750			350+350	750+750
	Drive				Direct drive						
Sound pressure level	Nom.			dBA	55,0	56,0	57,0	59,0	61,0	62,0	63,0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-45~10						
	Ambient temperature	Min.~Max.		°C	-20~43						
Refrigerant	Type				R-410A						
	Charge			kg	5,2		7,9			11,5	
	Control				Electronic expansion valve						
Refrigerant oil	Type				Daphne FVC68D						
	Charged volume			l	1,7 / 2,5		1,7 / 2,1 / 3,0			1,7 / 2,1 / 4,0	
Piping connections	Liquid	50m or less			ø 9.5 C1220T (Brazing connection)				ø 12.7 C1220T (Brazing connection)		
		50~130m			ø 9.5 C1220T (Brazing connection)		ø 12.7 C1220T (Brazing connection)				
	Gas	50m or less			ø 22.2 C1220T (Brazing connection)		ø 28.6 C1220T (Brazing connection)			ø 34.9 C1220T (Brazing connection)	
		50~130m			ø 22.2 C1220T (Brazing connection)		ø 28.6 C1220T (Brazing connection)			ø 34.9 C1220T (Brazing connection)	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415						
Current	Nominal running current	Cooling		A	7,1/-/-	9,2/-/-	5,3/7,5/-	7,4/7,9/-	9,8/8,3/-	7,0/8,2/8,2	9,5/8,4/8,4
Current - 50Hz	Starting current (MSC)			A	-		74	75		84	

(1) Te=-10°C, Tamb=+32°C, Suction SH 10°C, (2) Te=-35°C, Tamb=+32°C, Suction SH 10°C, (3) Sound pressure data: measured at 1m in front of unit, at 1.5m height

LREQ-BY1R

- Application range from -45°C to 10°C (evaporating temperature)
- Perfect solution for all cooling and freezing applications with variable load conditions and high energy efficiency requirements. In particular: supermarkets, cold storage, blast coolers and freezers.
- DC inverter scroll compressor with economiser function results in high energy efficiency and reliable performance
- Reduced CO_2 emissions thanks to the use of R-410A refrigerant and low energy consumption
- Factory tested and pre-programmed for quick and easy installation and commissioning
- VRV (Variable Refrigerant Volume) technology for flexible application range
- Increased installation flexibility thanks to limited dimensions
- Low sound level including "night mode" operation

OUTDOOR UNIT				*LREQ30BY1R	*LREQ40BY1R
Refrigerating capacity	Medium temperature[1]	Nom.	kW	64.0	71.0
	Low temperature[2]	Nom.	kW	26.0	28.5
Dimensions	Unit	HxWxD	mm	2 x (1,680x1,240x765)	
Weight	Unit		kg	333 x 2	339 x 2
Operation range	Evaporator	Min.~Max.	°CDB	-45~10	
	Ambient temperature	Min.~Max.	°C	-20~43	
Compressor number				2 x inverter + (2 x 2) non-inverter	
Fan motor	Output		kW	2 x (0.35 x 2)	2 x (0.75 x 2)
Maximum piping length			m	Te = -45°C~-20°C: 100m Te = -20°C~10°C: 130m	
Piping connections	Liquid			ø 19.05	ø 19.05
	Gas			ø 41.28	ø 41.28
Power supply	Phase/Frequency	Voltage	Hz/V	3~/50/380~415	
Voltage range		Min~Max	%	-10~10	
Sound pressure level [3]			dBA	65	66
Refrigerant	Charge		kg	23	23
Receiver volume			l	27	27

(1) Te=-10°C, Tamb=+32°C, Suction SH 10°C, (2) Te=-35°C, Tamb=+32°C, Suction SH 10°C, (3) Sound pressure data: measured at 1m in front of unit, at 1.5m height

*Note: grey cells contain preliminary data

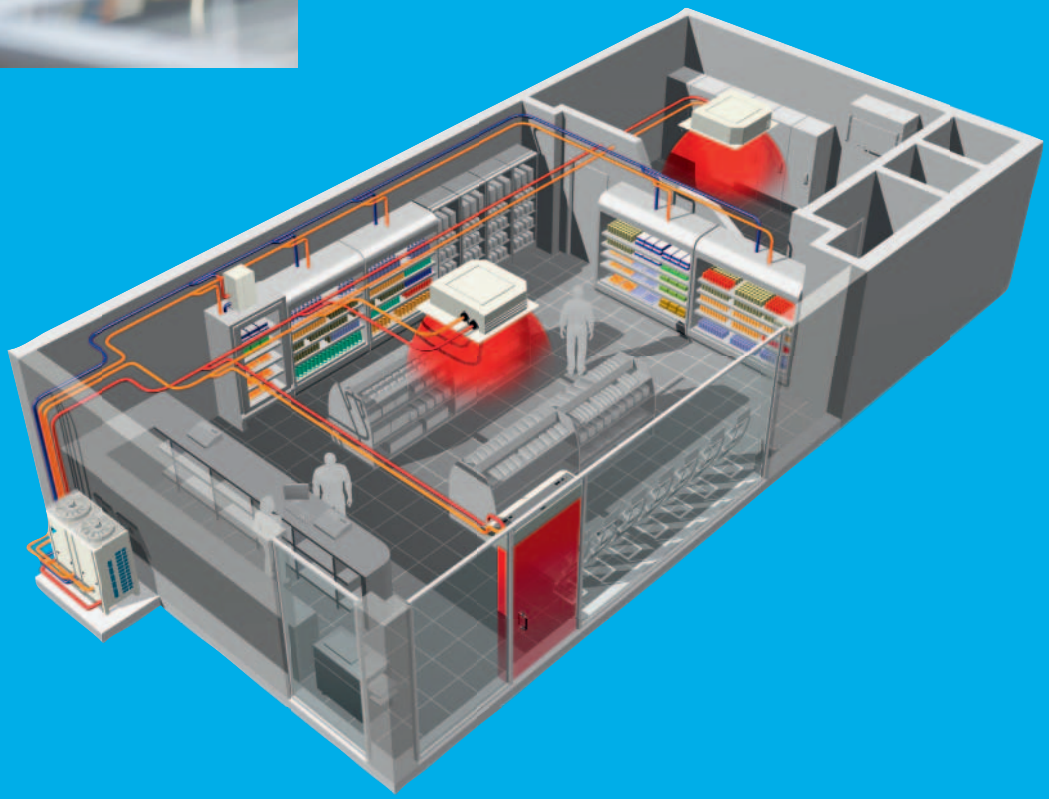
CONVENI-PACK IS A COMPACT, LOW NOISE SYSTEM WHICH INTEGRATES MEDIUM AND LOW TEMPERATURE REFRIGERATION AND AIR CONDITIONING (INCLUDING HEATING) INTO ONE SYSTEM.

Helping retailers save energy and the environment

Retailers are faced with a growing need for fresh goods, prepared meals and chilled drinks. At the same time, environmental and zoning requirements are stricter than ever, and energy costs must be kept under control. Conveni-Pack minimises total energy demand due to its unique, integrated approach to refrigeration and air conditioning.

A total solution for small applications

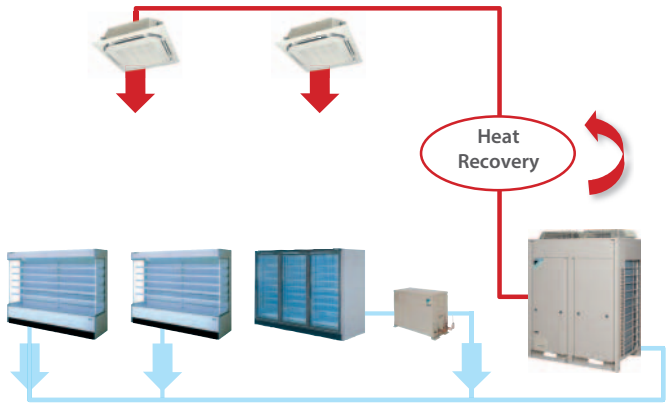
Conveni-Pack is unique in combining refrigeration and air conditioning equipment in one total solution using the latest controls and inverter technology in order to maximize energy efficiency. The system can be connected to basically all refrigeration applications and is supplied with a wide range of air conditioning indoor units to respond to all shop requirements. An optional booster unit is available for low temperature refrigeration.

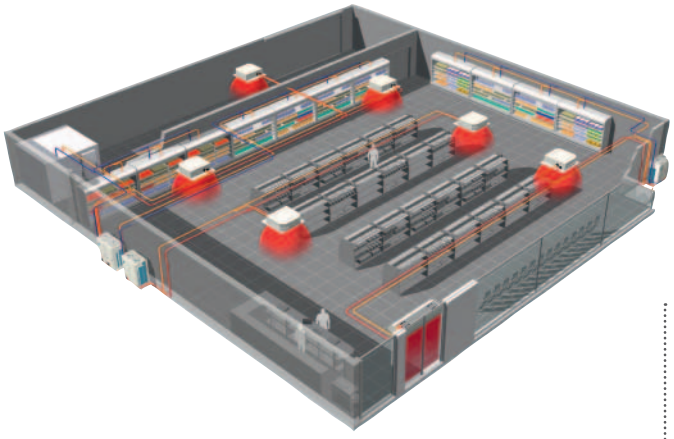


- Inverter driven outdoor units match system output to actual demand in order to reach optimum efficiency under all conditions
- Conveni-Pack supports a wide variety of refrigeration and cooling units
- By recovering the heat extracted from the connected refrigeration appliances, and by using sophisticated controls, energy savings of up to 50% or more can be reached.
- Small footprint, reduced piping, quiet operation: ideal for densely populated urban areas

Heat Recovery

The heat extracted from the refrigeration showcases and/or evaporators can be re-used for comfort heating of the shop… at no extra cost!





A flexible system for larger applications

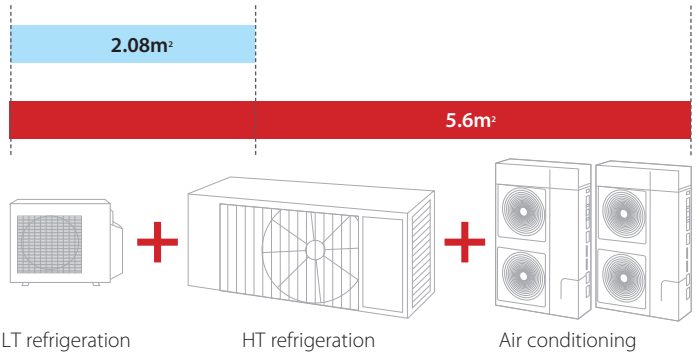
Conveni-Pack's modular design allows it to be used for smaller as well as larger shops. One or more outdoor units can be installed throughout the building, inside or outside.

Capacity range

By combining Conveni-Pack and ZEAS condensing units the optimum integrated solution for freezing, chilling, space heating and cooling can be provided for virtually any shop concept.

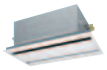
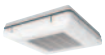
Reduced footprint

The Conveni-Pack outdoor unit is compact when compared to conventional systems. Its footprint is 60% smaller, allowing it to be used in applications where space is restricted.



Indoor units for connection to Conveni-Pack

To respond to all shop requirements for comfort cooling and heating, a wide range of VRV indoor units and Biddle air curtains are available.

Model	Product name		Capacity 50	63	71	80	100	125	140	200	250
Round flow cassette	FXFQ-A		■	■		■	■	■			
2-way blow ceiling mounted cassette	FXCQ-A		■	■		■		■			
Ceiling mounted corner cassette	FXKQ-MA			■							
Concealed ceiling unit with inverter driven fan	FXSQ-P		■	■		■	■	■			
Concealed ceiling unit with inverter driven fan	FXMQ-P7		■	■		■	■	■			
Large concealed ceiling unit	FXMQ-MA									■	■
Ceiling suspended unit	FXHQ-A			■			■				
4-way blow ceiling suspended unit	FXUQ-A							■			
Floor standing unit	FXLQ-P		■	■							
Concealed floor standing unit	FXNQ-P		■	■							
Cooling capacity (kW)[1]			5.6	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
Heating capacity (kW)[2]			6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5

[1] Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.
[2] Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m

Model	Product Name		Capacity 100	150	200	250
Biddle air curtain free hanging	CYVS-DK		■	■	■	■
Biddle air curtain cassette	CYVM-DK		■	■	■	■
Biddle air curtain recessed	CYVL-DK		■	■	■	■

LRYEQ16AY1

INVERTER

- Integrates high and low temperature refrigeration and air conditioning (including heating) into one system
- By using heat recovery, optimised controls and state of the art compressor technology, Conveni-Pack can reduce annual energy consumption up to 60%, compared to conventional systems
- Lower associated CO_2 emissions thanks to the heat pump technology
- Conveni-pack's modular design allows it to be used for smaller as well as larger shops
- The modularity of the Conveni-Pack system maximises installation flexibility. Outdoor units can be grouped into blocks or rows, or distributed around the building, to meet individual installation constraints
- The heat extracted from the refrigeration showcases or evaporators can be re-used for comfort heating of the shop at no extra cost
- Low sound level including "night mode" operation

CONVENI-PACK

Outdoor unit					**LRYEQ16AY1**
Cooling capacity	Air conditioning	Nom.		kW	14.0
	Refrigeration	Nom.		kW	21.8
Heating capacity	Air conditioning	Nom.		kW	27.0
	Refrigeration	Nom.		kW	21.8
Dimensions	Unit	HeightxWidthxDepth		mm	1,680x1,240x765
Weight	Unit			kg	370
Heat exchanger	Type				Cross fin coil
Compressor	Type				Hermetically sealed scroll compressor
	Piston displacement			m^3/h	13.34+10.53+10.53
	Speed			rpm	6,300+2,900+2,900
	Output			W	2,500+3,600+4,500
	Starting method				Direct on line (inverter driven)
	Frequency ON/OFF				Less than 6 times/hour
Fan	Type				Propeller fan
	Quantity				2
	Air flow rate	Cooling	Nom.	m^3/min	230
Fan motor	Output			W	750
	Drive				Direct drive
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-20~10
	Cooling	Ambient	Min.~Max.	°CDB	-5~43
	Heating	Ambient	Min.~Max.	°CDB	-15~21
Sound pressure level				dBA	62.0
Refrigerant	Type				R-410A
	Charge			kg	11.5
	Control				Electronic expansion valve
Refrigerant oil	Type				Daphne FVC68D
	Charged volume			l	1.7 / 2.1 / 2.1 / 4.0
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/380-415

LCBKQ3AV1

INVERTER

- A booster unit allows to connect freezer showcases or cold rooms to ZEAS and Conveni-Pack outdoor units
- Reduced piping requirements, from 4 to 2 pipes, compared to a conventional system
- Low sound mode available reducing sound emissions significantly without giving in on refrigeration capacity

Outdoor unit					LCBKQ3AV1
Cooling capacity	Nom.			kW	3.35
Dimensions	Unit	HeightxWidthxDepth		mm	480x680x310
Weight	Unit			kg	47
Compressor	Type				Hermetically sealed swing compressor
	Piston displacement			m^3/h	10.16
	Output			W	1,300
	Starting method				Direct on line (inverter driven)
	Frequency ON/OFF				Less than 6 times/hour
Fan	Type				Propeller fan
	Air flow rate	Cooling	Nom.	m^3/min	1.6
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-45~-20
	Ambient temperature	Min.~Max.		°C	-15~43
Sound pressure level				dBA	49
Refrigerant	Type				R-410A
	Control				Electronic expansion valve
Refrigerant oil	Type				Daphne FVC50K + FVC68D
	Charged volume			l	0.85 / 0.5
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240


CRÈME
Knorr
MAIZENA
TARWE BLOEM
Bloem

JEHCCU-M/L / JEHSCU-M

Designed for outdoor use, the condensing units are a perfect commercial refrigeration solution for cold stores or freezer rooms, small food retails, restaurants, petrol station shops, etc in low and medium temperature applications.

Main benefits
- Low operation sound level
- Easy to install - fully equipped - packaged
- Energy efficiency and performance
- Robust and reliable design

Installer benefits
- Small, compact and robust for easy handling and installation in limited space
- Fully factory tested and pre-wired electrical box for quick and easy installation and commissioning
- Easy service thanks to very accessible components behind removable robust panels

End-user benefits
- Very quiet operation
- Strong anti-corrosion housing for long life, even in harsh environmental conditions
- Trustworthy units, with proven component reliability and fully qualified for the most demanding applications
- Reduced energy consumption, thanks to efficient compressors and condenser fan speed control (except series 1)
- Fully packaged unit at a competitive price

	Series	Model	Performance			Compressor			O/S[d]	Oil type	Electrical Data							Airflow m³/h	Receiver	Connection		Dimensions			Weight (kg)	Sound pressure dB(A) at 1m[c]
			Cooling capacity (W) [a] R-404A	Cooling capacity (W) [a] R-134a	Cooling capacity (W) [a] R-407C	Type	Swept volume (m³/h)	Oil Charge (Liter)	Oil Charge (l)		Power input	Nominal curent [a](A) R-404A	Nominal curent [a](A) R-134a	Nominal curent [a](A) R-407C	Lock Rotor current (A)	MFA[b] (A) R-404A	MFA[b] (A) R-134a	MFA[b] (A) R-407C		Volume (Liter)	Suction (inch)	Liquid (inch)	Width (mm)	Depth (mm)	Height (mm)		
Medium temperature	1	JEHCCU0050M1	871	-	-	SC10MLX	1.79	0.60	-	Oil A[e]	230V/1~/50Hz	3.85	-	-	18.4	15	-	-	1910	1.2	3/8	1/4	884	430	489	46	49
		JEHCCU0088M1	1,478	-	-	SC18MLX	3.08	0.60	-		230V/1~/50Hz	4.62	-	-	23.4	15	-	-	1910	1.2	3/8	1/4	884	430	489	46	49
	2	JEHCCU0150M1	2,062	1,229	1,815	MTZ18-5VM	5.26	0.95	-	Oil B[f]	230V/1~/50Hz	7.23	5.30	5.70	40.0	15	15	15	3040	4.6	1/2	3/8	1104	478	650	82	57
		JEHCCU0150M3				MTZ18-4VM	5.26	0.95	-		400V/3~/50Hz	3.33	2.54	3.05	20.0	15	15	15	3040	4.6	1/2	3/8	1104	478	650	82	57
		JEHCCU0225M1	3,451	1,958	3,059	MTZ28-5VM	8.36	0.95	-		230V/1~/50Hz	11.64	8.26	9.66	51.0	25	20	20	2620	4.6	1/2	3/8	1104	478	650	89	56
		JEHCCU0225M3				MTZ28-4VM	8.36	0.95	-		400V/3~/50Hz	4.65	3.41	4.14	23.0	15	15	15	2620	4.6	1/2	3/8	1104	478	650	89	56
		JEHCCU0300M1	4,506	2,948	4,233	MTZ36-5VM	10.52	0.95	-		230V/1~/50Hz	15.87	10.76	10.13	60.0	30	25	25	2620	4.6	5/8	3/8	1104	478	650	89	57
		JEHCCU0300M3				MTZ36-4VM	10.52	0.95	-		400V/3~/50Hz	5.57	3.91	5.12	30.0	15	15	15	2620	4.6	5/8	3/8	1104	478	650	89	57
	3	JEHCCU0400M3	6,672	3,934	5,766	MTZ50-4VM	14.90	1.80	-		400V/3~/50Hz	6.97	5.28	6.24	48.5	15	15	15	6050	7.6	7/8	1/2	1347	556	884	122	57
		JEHCCU0500M3	8,017	4,546	7,137	MTZ64-4VM	18.94	1.80	-		400V/3~/50Hz	8.93	6.78	7.77	64.0	20	20	20	6050	7.6	7/8	1/2	1347	556	884	122	60
		JEHCCU0600M3	8,897	5,680	7,660	MTZ72-4VM	21.04	1.80	-		400V/3~/50Hz	9.80	6.62	8.53	80.0	20	20	20	5180	7.6	7/8	1/2	1347	556	884	126	60
		JEHCCU0675M3	9,756	6,153	8,930	MTZ81-4VM	23.63	1.80	-		400V/3~/50Hz	11.44	8.23	10.22	80.0	20	20	20	5180	7.6	1 1/8	1/2	1352	556	884	126	62
	4	JEHCCU0825M3	11,010	7,083	9,867	MTZ100-4VM	29.80	3.90	-		400V/3~/50Hz	13.62	9.82	12.04	90.0	25	25	25	6770	14.0	1 1/8	1/2	1261	594	1435	205	62
		JEHCCU1000M3	13,528	8,667	13,038	MTZ125-4VM	37.49	3.90	-		400V/3~/50Hz	15.49	9.52	13.17	105.0	30	25	30	6770	14.0	1 1/8	1/2	1261	594	1435	205	62
Low temperature	1	JEHCCU0075L1	721	-	-	SC18CLX	3.08	0.60	-	Oil A[e]	230V/1~/50Hz	3.99	-	-	20.0	15	-	-	1910	1.2	3/8	1/4	884	430	489	46	50
	2	JEHCCU0175L1	1,631	-	-	NTZ48-5VM	8.40	0.95	0.50	Oil B[f]	230V/1~/50Hz	5.07	-	-	37.0	15	-	-	3040	4.6	5/8	3/8	1104	478	650	86	55
		JEHCCU0175L3		-	-	NTZ48-4VM	8.40	0.95	0.50		400V/3~/50Hz	2.71	-	-	16.0	15	-	-	3040	4.6	5/8	3/8	1104	478	650	86	55
		JEHCCU0225L1	3,420	-	-	NTZ68-5VM	11.80	0.95	0.50		230V/1~/50Hz	9.81	-	-	53.0	20	-	-	2620	4.6	5/8	3/8	1104	478	650	92	58
		JEHCCU0225L3		-	-	NTZ68-4VM	11.80	0.95	0.50		400V/3~/50Hz	4.05	-	-	25.0	15	-	-	2620	4.6	5/8	3/8	1104	478	650	92	58
	3	JEHCCU0350L3	6,984	-	-	NTZ96-4VM	16.70	1.80	0.60		400V/3~/50Hz	4.41	-	-	32.0	15	-	-	6050	7.6	7/8	1/2	1347	556	884	125	58
		JEHCCU0400L3	9,366	-	-	NTZ136-4VM	23.60	1.80	0.60		400V/3~/50Hz	7.21	-	-	51.0	15	-	-	6050	7.6	1 1/8	1/2	1352	556	884	130	58
	4	JEHCCU0725L3	4,245	-	-	NTZ215-4VM	37.50	3.90	0.60		400V/3~/50Hz	8.72	-	-	74.0	25	-	-	6770	14.0	1 1/8	1/2	1261	594	1435	203	61
		JEHCCU0825L3	5,818	-	-	NTZ271-4VM	47.30	3.90	0.60		400V/3~/50Hz	10.88	-	-	96.0	25	-	-	6770	14.0	1 1/8	1/2	1261	594	1435	203	60
Medium temperature	2	JEHSCU0200M1	3,400	2,175	-	ZB15KQE-PFJ	5.9	1.24	-	Oil A[g]	230V/1~/50Hz	8.28	-	-	58.0	15	15	-	2620	4.6	3/4	3/8	1108	478	650	88	50
		JEHSCU0200M3			-	ZB15KQE-TFD	5.9	1.24	-		400V/3~/50Hz	3.73	3.00	-	26.0	15	15	-	2620	4.6	3/4	3/8	1108	478	650	88	50
		JEHSCU0250M1	3,900	2,475	-	ZB19KQE-PFJ	6.8	1.30	-		230V/1~/50Hz	10.22	6.32	-	61.0	20	15	-	2620	4.6	3/4	3/8	1108	478	650	90	51
		JEHSCU0250M3			-	ZB19KQE-TFD	6.8	1.36	-		400V/3~/50Hz	4.72	3.42	-	32.0	15	15	-	2620	4.6	3/4	3/8	1108	478	650	90	51
		JEHSCU0300M1	4,800	3,050	-	ZB21KQE-PFJ	8.6	1.45	-		230V/1~/50Hz	13.25	7.57	-	82.0	25	20	-	2620	4.6	3/4	3/8	1108	478	650	92	54
		JEHSCU0300M3			-	ZB21KQE-TFD	8.6	1.45	-		400V/3~/50Hz	5.61	3.83	-	40.0	15	15	-	2620	4.6	3/4	3/8	1108	478	650	92	54
	3	JEHSCU0350M3	5,900	3,700	-	ZB26KQE-TFD	9.9	1.50	-		400V/3~/50Hz	6.63	4.64	-	46.0	15	15	-	6050	7.6	3/4	1/2	1332	556	884	114	55
		JEHSCU0400M3	6,690	4,300	-	ZB29KQE-TFD	11.4	1.36	-		400V/3~/50Hz	8.07	5.03	-	50.0	15	15	-	6050	7.6	7/8	1/2	1347	556	884	121	54
		JEHSCU0500M3	8,050	5,150	-	ZB38KQE-TFD	14.4	2.07	-		400V/3~/50Hz	10.45	6.43	-	65.5	20	15	-	6050	7.6	7/8	1/2	1347	556	884	126	55
		JEHSCU0600M3	9,150	6,150	-	ZB45KQE-TFD	17.1	1.89	-		400V/3~/50Hz	10.83	6.27	-	74.0	20	15	-	5180	7.6	7/8	1/2	1347	556	884	128	60
		JEHSCU0680M3	9,850	6,928	-	ZB48KQE-TFD	18.8	1.80	-		400V/3~/50Hz	10.97	8.63	-	101.0	20	20	-	5180	7.6	7/8	1/2	1347	556	884	129	60
	4	JEHSCU0800M3	12,000	7,800	-	ZB58KCE-TFD	22.1	2.50	-		400V/3~/50Hz	13.6	10.54	-	95.0	25	20	-	6770	14.0	1 1/8	1/2	1261	594	1435	201	64
		JEHSCU1000M3	14,200	9,900	-	ZB76KCE-TFD	29.1	3.20	-		400V/3~/50Hz	18.01	12.69	-	118.0	35	25	-	6770	14.0	1 3/8	1/2	1261	594	1435	201	64
Low Temperature	2	JEHSCU0200L3	1,910	-	-	ZF06K4E-TFD	5.9	1.30	0.50	Oil B[h]	400V/3~/50Hz	3.29	-	-	26.0	15	-	-	2620	4.6	3/4	3/8	1108	478	650	94	47
		JEHSCU0300L3	2,480	-	-	ZF09K4E-TFD	8.0	1.50	0.50		400V/3~/50Hz	5.25	-	-	40.0	15	-	-	2620	4.6	3/4	3/8	1108	478	650	96	48
	3	JEHSCU0400L3	3,850	-	-	ZF13K4E-TFD	11.8	1.90	0.60		400V/3~/50Hz	6.03	-	-	51.5	15	-	-	6050	7.6	7/8	1/2	1347	556	884	129	55
		JEHSCU0500L3	4,600	-	-	ZF15K4E-TFD	14.5	1.90	0.60		400V/3~/50Hz	7.48	-	-	64.0	15	-	-	6050	7.6	7/8	1/2	1347	556	884	130	56
		JEHSCU0600L3	5,350	-	-	ZF18K4E-TFD	17.1	1.90	0.60		400V/3~/50Hz	7.66	-	-	74.0	15	-	-	6050	7.6	7/8	1/2	1347	556	884	130	61
	4	JEHSCU0750L3	6,490	-	-	ZF24K4E-TWD	20.9	4.10	0.60		400V/3~/50Hz	11.65	-	-	99.0	20	-	-	6770	14.0	1 3/8	1/2	1261	594	1435	218	61
		JEHSCU1000L3	8,720	-	-	ZF33K4E-TWD	28.8	4.10	0.60		400V/3~/50Hz	13.92	-	-	127.0	30	-	-	6770	14.0	1 3/8	1/2	1261	594	1435	218	62

[a] Refer to condition: Outside ambient temperature= 32°C, Evaporation temperature = -10°C (medium temperature application); -35°C (low temperature application)
[b] MFA = Maximum Fuse Amps
[c] Sound pressure level measured in anechoic room
[d] O/S = Oil Separator
[e] Oil A = Polyester oil (Emkarate RL32H)
[f] Oil B = Polyester oil 160PZ
[g] Oil A = Polyester oil (Copeland Ultra 22 CC, Copeland Ultra 32 CC, Copeland Ultra 32-3MAF, Mobil EAL™ Arctic 22 CC, Uniqema Emkarate RL32CF)
[h] Oil B = Mobil Arctic 22CC
Note: condensing units are pre-charged with oil as stated in table

Designed for outdoor use, the large condensing units are a perfect medium to high capacity refrigeration solution for cold stores, distribution platforms, supermarkets, food processing, etc in low and medium temperature applications

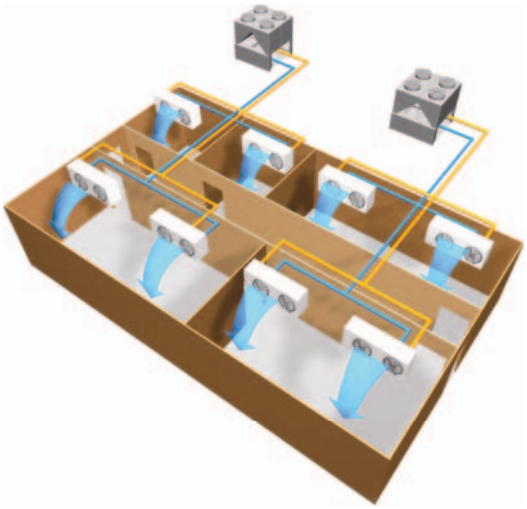
These industrial condensing units are real workhorses designed for maximum performance in minimum space.

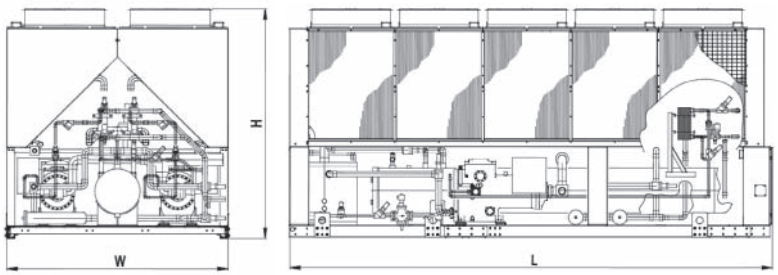
INVERTER

- High energy efficiency: inverter controlled compressor, economizer, high performance condenser
- Possibility of having a stand-by compressor
- Easy installation, ready to connect evaporators
- Integrated starter and control panel with electronic controller
- Space saving construction due to the compact design of the condenser coils arranged in a 'W' configuration
- Low sound operation
- Approved according to EN 378: 2008 (Safety and environmental requirements)
- Refrigerants: R-404A, R-134a, R-407C, R-507A

A comprehensive product range with 1 or 2 compressors and 4, 6, 8 or 10 condenser fans

- Chilled application: 113 - 417 kW (at T0 = -10°C / Tamb = +32°C / R-404A)
- Frozen application: 37 - 159 kW (at T0 = -35°C / Tamb = +32°C / R-404A)





	Length	Width	Height	Weight
	mm	mm	mm	kg
From	2,240	2,235	2,340	2,405
To	4,940	2,235	2,340	4,496

CONTROL SYSTEMS, OPTIONS & ACCESSORIES

CONTROL SYSTEMS

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BRC1D52


BRC944B2


ARC466A1


BRC4*/BRC7*


BRC2C51


BRC3A61

BRC944B2*/BRC1D52
Wired remote control

- Schedule timer:
  - Five day actions can be set as follows:
    - set point: unit is switched ON and normal operation is maintained
    - OFF: unit is switched OFF[1]
    - limits: unit is switched ON and min./max. control (cf. limit operation for more details)
- Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
- User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
- Constantly monitoring of the system for malfunctions in a total of 80 components
- Immediate display of fault location and condition
- Reduction of maintenance time and costs

Display

- Operating mode[1]
- Heat Recovery Ventilation (HRV) in operation
- Cool / heat changeover control
- Centralised control indication
- Group control indication
- Set temperature[1]
- Air flow direction[1]
- Programmed time
- Inspection test / operation
- Fan speed[1]
- Clean air filter
- Defrost / hot start
- Malfunction

[1] Only functions marked with '1' are available on BRC944B2

ARC4*/BRC4*/BRC7*
Infrared remote control

Operation buttons: ON / OFF, timer mode start / stop, timer mode on / off, programme time, temperature setting, air flow direction (1), operating mode, fan speed control, filter sign reset (2), inspection (2)/ test indication (2)
Display: Operating mode, battery change, set temperature, air flow direction (1), programmed time, fan speed, inspection / test operation (2)

1. Not applicable for FXDQ, FXSQ, FXNQ, FBDQ, FDXS, FBQ
2. For FX** units only
3. For all features of the remote control, refer to the operation manual

BRC3A61
Simplified built-in remote control for hotel applications

Compact, user friendly unit, ideal for use in hotel bedrooms

Operation buttons: ON/OFF, fan speed control, temperature setting

Display: Heat Recovery Ventilation (HRV) in operation, set temperature, operating mode, centralised control indication, fan speed, defrost/hot start, malfunction

BRC2C51
Simplified remote control

Simple, compact and easy to operate unit, suitable for use in hotel bedrooms

Operation buttons: ON/OFF, operating mode selection, fan speed control, temperature setting

Display: Cool/heat changeover control, Heat Recovery Ventilation (HRV) in operation, set temperature, operating mode, centralised control indication, fan speed, defrost/hot start, malfunction adjustment, operating mode selection, fan speed control, filter sign reset, inspection test/operation

NEW

Simplified wired remote control developed for hotel applications

- Symbol driven interface for intuitive control
- Functions restricted to basic customer needs
- Contemporary design
- Energy saving thanks to set point limitation
- Flat backpanel for easy installation
- 2 versions available:
  - Heat pump type: temperature, fan speed, ON/OFF
  - Heat recovery type: temperature, mode, fan speed, ON/OFF
- Replaces existing BRC2C51 & BRC3A61
- Available spring 2014

Save energy

A series of energy saving functions that can be individually selected

- Temperature range limit
- Setback function
- Presence & floor sensor connection (available on new round flow cassette)
- kWh indication
- Set temperature auto reset
- Off timer

Temperature range limit avoids excessive heating or cooling

Save energy by constraining the lower temperature limit in cooling and upper temperature limit in heating mode.

note : Also available in auto cooling/heating change over mode.

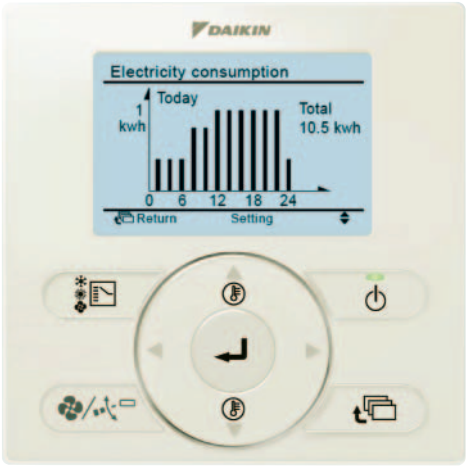
kWh indication keeps track of your consumption

The kWh indication shows an indicative electricity consumption of the last day/month/year.

Other functions

- Up to 3 independent schedules can be set, so the user can easily change the schedule himself throughout the year (e.g. Summer, winter, mid-season)
- Possibility to individually restrict menu functions

- Easy to use: all main functions directly accessible
- Easy setup: clear graphical user interface for advanced menu settings
- Real time clock with auto update to daylight saving time
- Built-in backup power: when a power failure occurs all settings remain stored up to 48 hours
- Supports multiple languages
  - English, German, Dutch, Spanish, Italian, Portuguese, French, Greek, Russian, Turkish, Polish (BRC1E52A)
  - English, German, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian, Slovak, Serbian, Albanian (BRC1E52B)



Graphical display of indicative electricity consumption

The Daikin Altherma low temperature is equipped with a new user interface. Commissioning, servicing and day-to-day operation become straightforward. The multi-lingual and graphical interface provides full-text representation, easy menu navigation and intelligent control features

- Self-explanatory controller for easy and quick commissioning
- Possibility of preparing and uploading field settings via a PC
- Feedback on operation conditions and energy consumption

Overview controllers for Siesta Sky Air

Siesta Sky Air indoor units	Controllers
ACQ-C 4-way blow, ceiling mounted cassette	- Standard infrared remote control in box of decoration panel ADP125A - Optional wired remote control ARCWB - Optional group controller
AHQ-C ceiling suspended	- Standard infrared remote control in box of indoor unit - Optional wired remote control ARCWB - Optional group controller
ABQ-C concealed ceiling	- Standard wired remote control (ARCWA) in box of indoor unit - Optional group controller

Overview of features

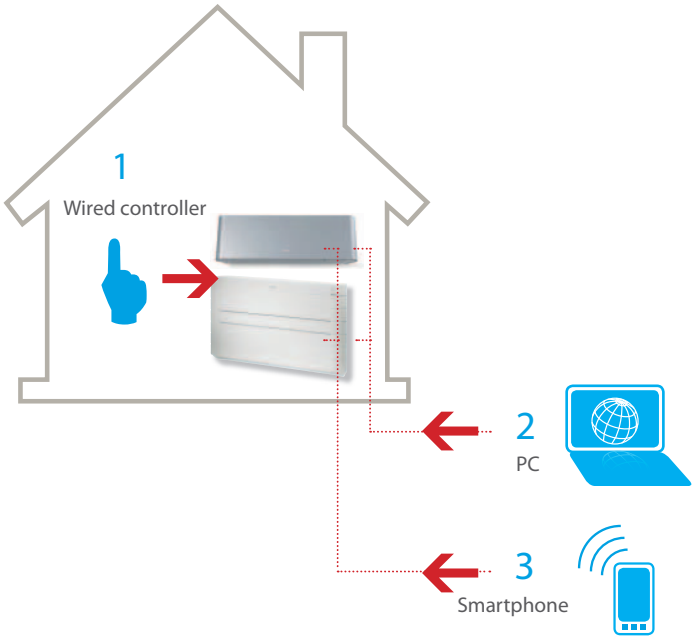
	Feature		ARCWA	ARCWB
			Standard with ABQ-C	Option for AHQ-C and ACQ-C
				
1	ON/OFF switch		Standard	Standard
2	Temperature setting	Default range 16-30°C	Standard	Standard
		Optional range 20-30°C	By dipswitch selection	By dipswitch selection
		Switch between °C and °F	Standard	Standard
3	Room temperature display		Standard	Not available
4	Room temperature sensor on remote control		Standard	Standard
5	Cool / Fan dry / Heat / Auto		Standard	Standard
6	Sleep mode		Standard	Standard
7	Fan Speed selection		Standard	Standard
8	Delay timer		1, 2 & 4 hours delay	1, 2 & 4 hours delay
9	7-days programmable timer		Standard	Standard
10	Real time clock display		Standard	Standard
11	Air swing selection	ON/OFF swing mode	Standard	Standard
		Change swing option (draft/soil prevention or standard)	Not available	Standard
12	LCD display without backlight		Standard	Standard
13	Key lock		Standard	Standard
14	Error code indication		Standard	Standard
15	IR receiver to enable compatibility with infrared remote control (disabled when lock function is activated)		Standard	Standard
16	Last state memory from indoor PCB		Standard	Standard
17	Silent mode		Not available	By dipswitch selection
18	Turbo mode		Not available	By dipswitch selection
19	Compressor test model (compressor force ON)		Standard	Standard
20	Daikin inverter error code		Not available	Standard
21	UART communication port (for Daikin protocol)		Not available	Standard
22	Backup battery		Standard	Standard

Specifications

Dimensions (length x width x height) ARCWB: 0.15 m x 0.21 m x 0.04 m.
ARCWB comes standard with a 10 meter wire, which can be extended to maximum wire length of 15 meter. For reference: ARCWA comes standard with a 10 meter **wire**, which cannot be extended.
ARCWB & ARCWA can only control **one indoor unit** at a time; group control is only possible when using option R04084124324.

Always in control, no matter where you are

Daikin provides a new control solution to monitor and control the main functions of the residential indoor units. The system is working in an end-user friendly way and can be used from any location via your smartphone, laptop, PC, tablet or touch screen.



Residential use:

Optimal home comfort / holiday home surveillance

- Create a comfortable home climate at any time and at any place
- Remote detection of failures

Light commercial use:

Flexible office solution

- Dynamic group control in open space
- Fault manager / event logger
- Easily create a yearly schedule (iPlanner)
- Back-up configuration of air conditioning

Available software features

	Residential*	Light commercial **	Extended light commercial **
Possibility to control indoor unit via internet	✓	✓	✓
Possibility to control multiple indoor units via internet (up to 9 KKRP01s)	✓	✓	✓
Possibility to control multiple indoor units via internet (over 9 KKRP01s)		✓	✓
Filtering data OK / ERR		✓	✓
Advanced filtering (OK / ANY ERR / COMM ERR / AC / ERR)			✓
Sorting by all columns from data-grid		✓	✓
History of alerts			✓
History of temperatures			✓
History of commands			✓
Graphic single controller with weather forecast	✓	✓	✓
Text group controller	✓	✓	✓
Weekly planner	✓		
I-planner (yearly schedule)		✓	✓
Receive via e-mail an alert report	✓	✓	✓
Autonomous periodical connectivity check			✓
Exceeded room temperature limits e-mail report			✓

* standard programmed on KKRP01A
** additional software to be purchased online

Possible indoor units:

- FTXG20-50LW/S
- FTXZ25-50N
- FTXS35-50K
- FTXS60-71G
- FTX50-71GV
- FVXS25-50F
- FVXG25-50K
- FLXS25-60B

App

Daikin gives you a whole new way to control & monitor your residential indoor units. Ask your Daikin installer to equip your unit with an Online Controller (KKRP01A) and now you have the option to manage your unit on your iPhone/iPad, no matter where you are! Personalize your device by name and a unique icon. Create groups to set individual parameters for multiple devices in one tap. Or check weather conditions and forecasts at unit location.

Install the app with below QR code

Specifications

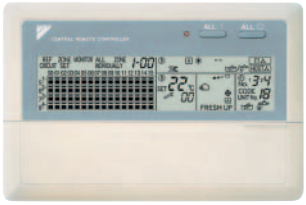
Online controller KKRP01A

COMMUNICATION INTERFACES	
Ethernet LAN 10/100 Mbit/s	for connection intro LAN network
MODBUS	for connection of accessories
serial S21 cable 1,3m	for connection with A/C indoor unit
Power supply	directly from IU - 5 V DC for Online Controller, 12 V DC for accessories
Power consumption	120 mA, 0,6 W
IP code	IP10 / IP44 - inside A/C unit
OTHERS	
Mounting	inside of A/C IU or intro External Mounteing Kit
Weight	50g
Dimensions (W X h X d)	64 X67 X 17 mm (without cable)

Options

MATERIAL NAME	DESCRIPTION	EXPLANATION
KKRPM01A	External mounting kit	To install online controller outside the indoor unit or to extend the length of the cable between indoor unit and KKRP01A. It can easily be mounted on the wall of hidden in false ceilings.
KKRPW01A	Wifi Cable Pack	To enable wireless internet connection. Wife module to be purchased locally.
KBRCS01	Easy wall controller	Wired controller to be installed on the wall. Designed to easily control one indoor unit or a group of indoor units.
KBRC01A	Touch LCD wall controller	

Centralised control systems



DCS302C51

DCS301B51

DST301B51

Centralised control of the Sky Air and VRV system can be achieved via 3 user friendly compact controls: centralised remote control, unified on/off control and schedule timer. These controls may be used independently or in combination where 1 group = several (up to 16) indoor units in combination and 1 zone = several groups in combination.
A centralised remote control is ideal for use in tenanted commercial buildings subject to random occupation, enabling indoor units to be classified in groups per tenant (zoning).
The schedule timer programmes the schedule and operation conditions for each tenant and the control can easily be reset according to varying requirements.

DCS302C51
Centralised remote control

Providing individual control of 64 groups (zones) of indoor units.

- a maximum of 64 groups (128 indoor units, max. 10 outdoor units) can be controlled
- a maximum of 128 groups (128 indoor units, max. 10 outdoor units) can be controlled via 2 centralised remote controls in separate locations
- zone control
- group control
- malfunction code display
- maximum wiring length of 1,000m (total: 2,000m)
- air flow direction and air flow rate of HRV can be controlled
- expanded timer function

DCS301B51
Unified ON/OFF control

Providing simultaneous and individual control of 16 groups of indoor units.

- a maximum of 16 groups (128 indoor units) can be controlled
- 2 remote controls in separate locations can be used
- operating status indication (normal operation, alarm)
- centralised control indication
- maximum wiring length of 1,000m (total: 2,000m)

DST301B51
Schedule timer

Enabling 64 groups to be programmed.

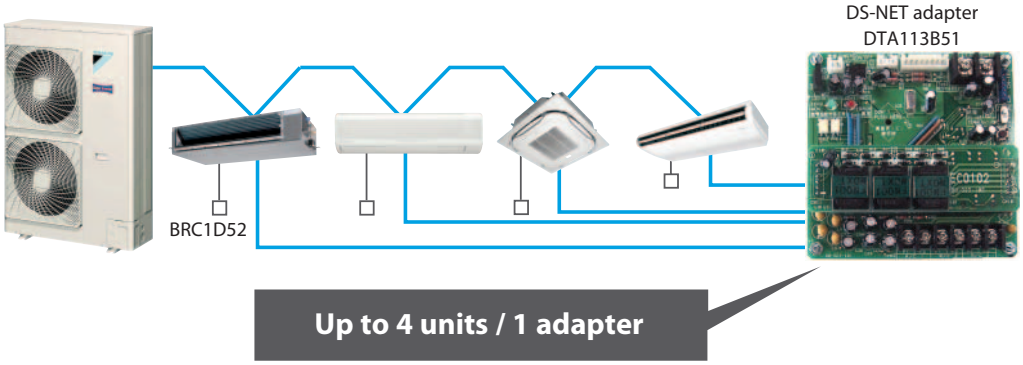
- a maximum of 128 indoor units can be controlled
- 8 types of weekly schedule
- a maximum of 48 hours back up power supply
- a maximum wiring length of 1,000m (total: 2,000m)

DTA113B51

DS-net

Basic solution for control of Sky Air and VRV

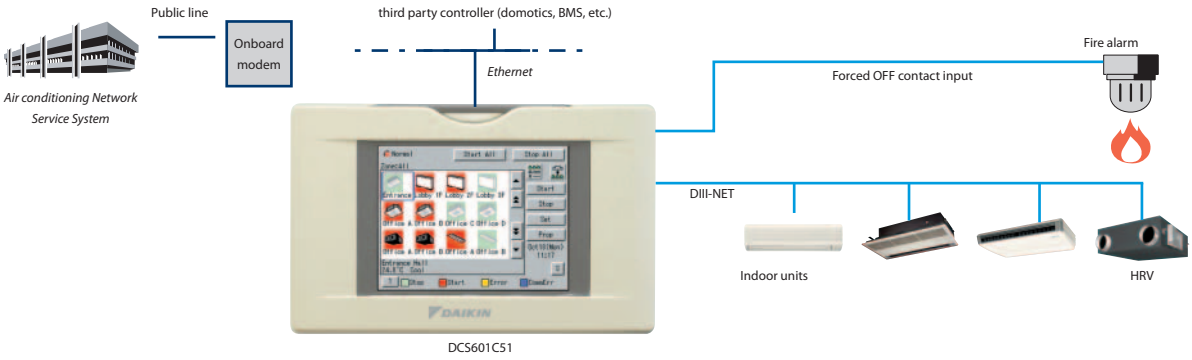
- Rotation function
- Backup operation function.



DCS601C51

touch intelligent Controller

Detailed & easy monitoring and operation of VRV systems (max. 64 indoor units groups).



Languages

- English
- French
- German
- Italian
- Spanish
- Dutch
- Portuguese

System layout

- Up to 64 indoor units can be controlled
- Touch panel (full colour LCD via icon display)

Management

- Easy management of electricity consumption
- Enhanced history function

Control

- Individual control (set point, start/stop, fan speed) (max. 64 groups/indoor units)
- Set back shedule
- Enhanced scheduling function (8 schedules, 17 patterns)
- Flexible grouping in zones
- Yearly schedule
- Fire emergency stop control
- Interlocking control
- Increased HRV monitoring and control function
- Automatic cooling / heating change-over
- Heating optimization
- Temperature limit
- Password security: 3 levels (general, administration & service)
- Quick selection and full control
- Simple navigation

Monitoring

- Visualisation via Graphical User Interface (GUI)
- Icon colour display change function
- Indoor units operation mode
- Indication filter replacement
- Multi PC

Cost performance

- Free cooling function
- Labour saving
- Easy installation
- Compact design: limited installation space
- Overall energy saving

Open interface

- Communication to any third party controller (domotics, BMS, etc.) is possible via open interface (http option)

Connectable to

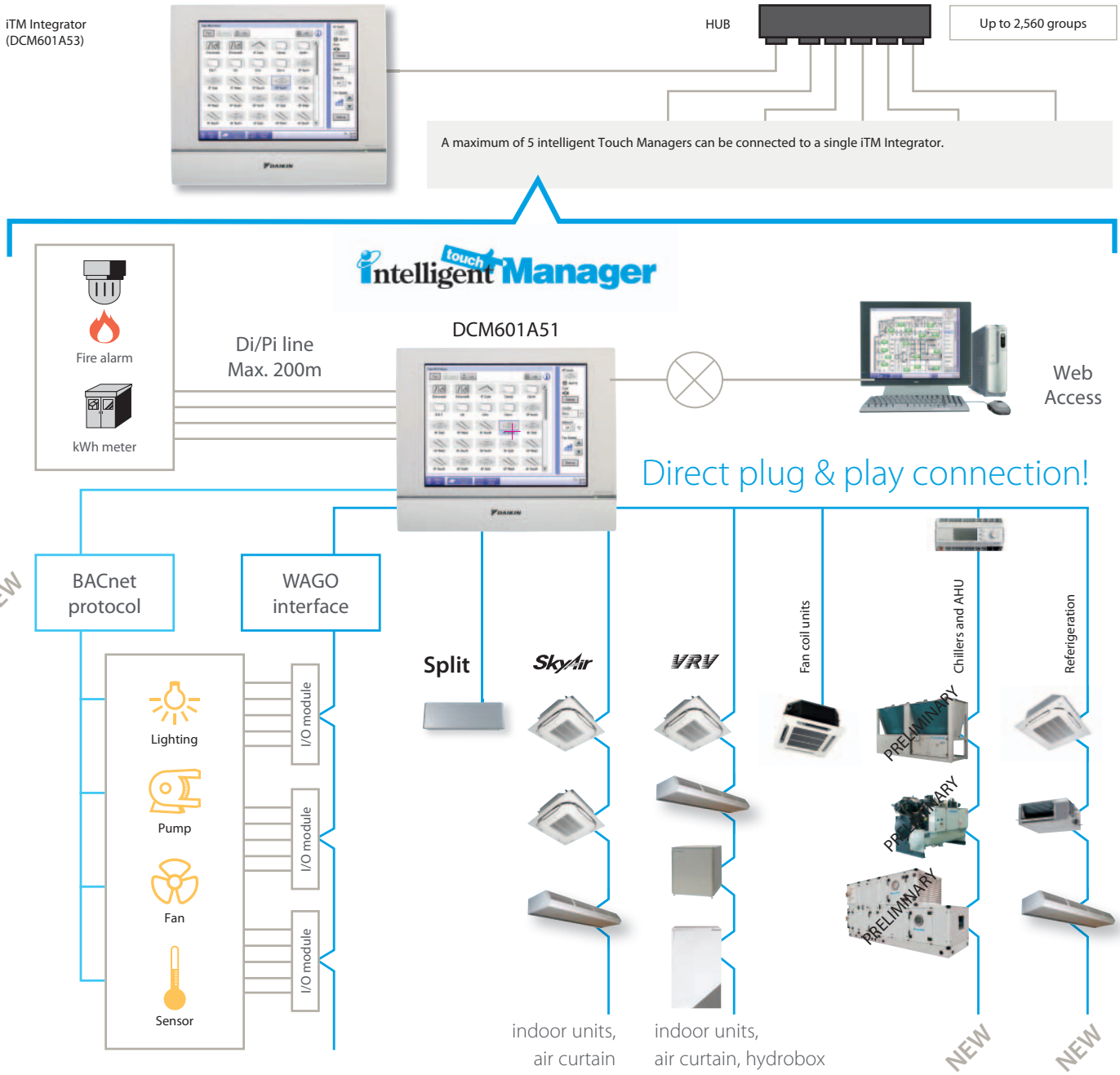
- VRV
- HRV
- Sky Air
- Split (via interface adapter)

intelligent touch Manager

- ✓ Cost competitive mini BMS
- ✓ Cross-pillar integration of Daikin products
- ✓ Integration of third party equipment

Full integration across all product pillars

System overview



User friendliness

- Intuitive user interface
- Visual lay out view and direct access to indoor unit main funtions
- All functions direct accessible via touch screen or via web interface

Smart energy management

- Monitoring if energy use is according to plan
- Helps to detect origins of energy waste
- Powerful schedules guarantee correct operation throughout the year
- Save energy by interlocking A/C operation with other equiment such as heating

Flexibility

- BACnet protocol for 3rd party products integration
- I/O for integration of equipment such as lights, pumps… on WAGO modules
- Modular concept for small to large applications
- Control up to 2,560 indoor unit groups

Easy servicing and commissioning

- Remote refrigerant containment check preventing on site visit
- Simplified troubleshooting
- Save time on commissioning thanks to the pre-commissioning tool
- Auto registration of indoor units

Functions overview

DCM601A51

Languages

- English
- French
- German
- Italian
- Spanish
- Dutch
- Portuguese

System layout

- Up to 2,560 unit groups can be controlled (ITM plus Integrator + 7 iPU (incl. iTM adaptor)
- Ethernet TCPIP

Management

- Web access
- Power Proportional Distribution (option)
- Operational history (malfunctions, operation hours, …)
- Smart energy management
  - monitor if energy use is according to plan
  - detect origins of energy waste
- Setback function
- Sliding temperature

Control

- Individual control (2,560 groups)
- Schedule setting (Weekly schedule, yearly calender, seasonal schedule)
- Interlock control
- Setpoint limitation
- Temperature limit

WAGO Interface

- Modular integration of 3rd party equipment
  - WAGO coupler (interface between WAGO and Modbus)
  - Di module
  - Do module
  - Ai module
  - Thermistor module

Connectable to

- DX Split, Sky Air, VRV
- Chillers (with Microtech controller)
- Daikin AHU
- Fan coils
- Daikin Altherma Flex type
- LT and HT hydroboxes
- Air curtains
- WAGO I/O
- BACnet protocol

Integration of RA, Sky Air, VRV, Daikin Altherma Flex and AHU in BMS or home automation systems

RTD-RA

› Modbus interface for monitoring and control of residential indoor units

RTD-NET

› Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM

RTD-10

› Advanced integration into BMS of Sky Air, VRV, VAM and VKM through either:
  - Modbus
  - Voltage (0-10V)
  - Resistance
› Duty/standby function for server rooms

RTD-LT

› Modbus interface for monitoring and control of Daikin Altherma low temperature (EHVH(X)-C / EHBH(X)-C)
› Voltage and resistance control
› Photovoltaic operation signal for energy saving

RTD-20

› Advanced control of Sky Air, VRV, VAM/VKM and air curtains
› Clone or independent zone control
› Increased comfort with integration of CO_2 sensor for fresh air volume control
› Save on runningcosts via
  - pre/post and trade mode
  - set point limitation
  - overall shut down
  - PIR sensor for adaptive deadband

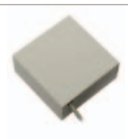
RTD-HO

› Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM
› Intelligent hotel room controller

RTD-W

› Modbus interface for monitoring and control of Daikin Altherma Flex Type, VRV HT hydrobox and small inverter chiller

Overview functions





Main functions				RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
Dimensions	H x W x D	mm		80 x 80 x 37,5	100 x100 x 22			
Key card + window contact								✓
Set back function				✓				✓
Prohibit or restrict remote control functions (setpoint limitation, ...)				✓	✓	✓	✓**	✓
Modbus (RS485)				✓	✓	✓	✓	✓
Group control				✓(1)	✓	✓	✓	✓
0 - 10 V control						✓	✓	
Resistance control						✓	✓	
IT application				✓		✓		
Heating interlock						✓	✓	
Output signal (on/defrost, error)						✓	✓****	✓
Retail application							✓	
Partitioned room control							✓	
Air curtain					✓***	✓***	✓	

(1): By combining RTD-RA devices

Control functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M,C	M	M,V,R	M	M*
Set point	M	M	M,V,R	M	M*
Mode	M	M	M,V,R	M	M*
fan	M	M	M,V,R	M	M*
Louver	M	M	M,V,R	M	M*
HRV Damper control		M	M,V,R	M	
Prohibit/Restrict functions	M	M	M,V,R	M	M*
Forced thermo off	M				

Monitoring functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M	M	M	M	M
Set point	M	M	M	M	M
Mode	M	M	M	M	M
fan	M	M	M	M	M
Louver	M	M	M	M	M
RC temperature		M	M	M	M
RC mode		M	M	M	M
nbr units		M	M	M	M
Fault	M	M	M	M	M
Fault code	M	M	M	M	M
Return air temperature (Average /Min/Max)	M	M	M	M	M
Filter alarm		M	M	M	M
Termo on	M	M	M	M	M
Defrost		M	M	M	M
Coil In/Out temperature	M	M	M	M	M

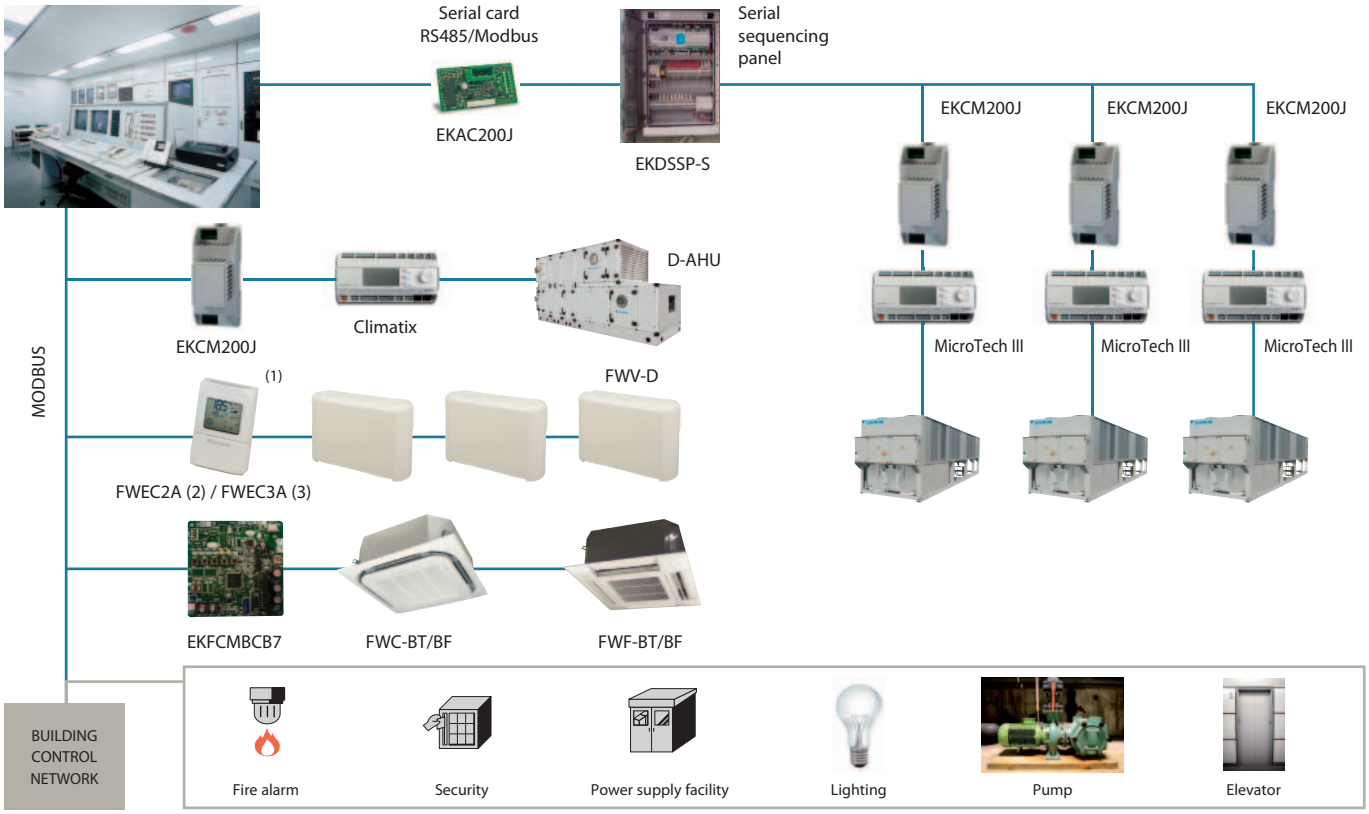
Main functions				RTD-W
Dimensions	H x W x D	mm		100x100x22
On/off prohibition				✓
Modbus RS485				✓
Dry contact control				✓
Output signal (operation error)				✓
Space heating / cooling operation				✓
Domestic hot water control				✓

Control functions	
On/Off Space heating/cooling	M,C
Set point leaving water temperature (heating / cooling)	M,V
Room temperature setpoint	M
Operation mode	M
Domestic Hot Water reheat	M,C
Domestic Hot Water storage	M
Quiet mode	M,C
Weather dependent setpoint enable	M
Weather dependent curve shift	M
Control source prohibition	M

Monitoring functions	
On/Off Space heating/cooling	M,C
Set point leaving water temperature (heating/cooling)	M
Room temperature setpoint	M
Operation mode	M
Domestic Hot Water reheat	M
Domestic Hot Water storage	M
Number of units stored in the group	M
Average leaving water temperature	M
Remocon room temperature	M
Fault	M,C
Fault code	M
Circulation pump operation	M
Compressor status	M
Desinfection operation	M
Setback operation	M
Defrost/ start up	M
Pump running hours accumulated	M
Actual leaving water temperature	M
Actual return water temperature	M
Actual DHW tank temperature (*)	M
Actual outdoor temperature	M

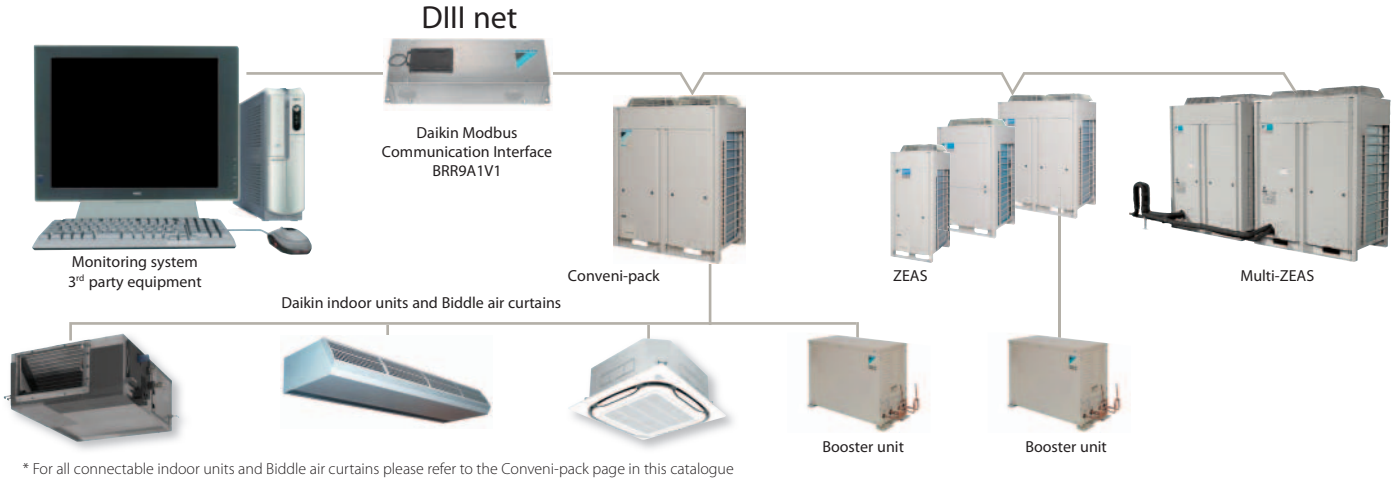
M : Modbus / R : Resistance / V : Voltage / C: control
* : only when room is occupied / ** : setpoint limitation / (*) if available
*** : no fan speed control on the CYV air curtain / **** : run & fault

Integrate chillers, fan coils units and air handling units in BMS systems via modbus protocol



(1) The communication module is integrated in the controller (2) Connection to FWV-D, FWL-D & FWV-D (3) Connection to FWV-D, FWL-D, FWM-D and to FWZ-A, FWR-A, FWS-A

Integrate Refrigeration units
in BMS systems via modbus protocol



* For all connectable indoor units and Biddle air curtains please refer to the Conveni-pack page in this catalogue

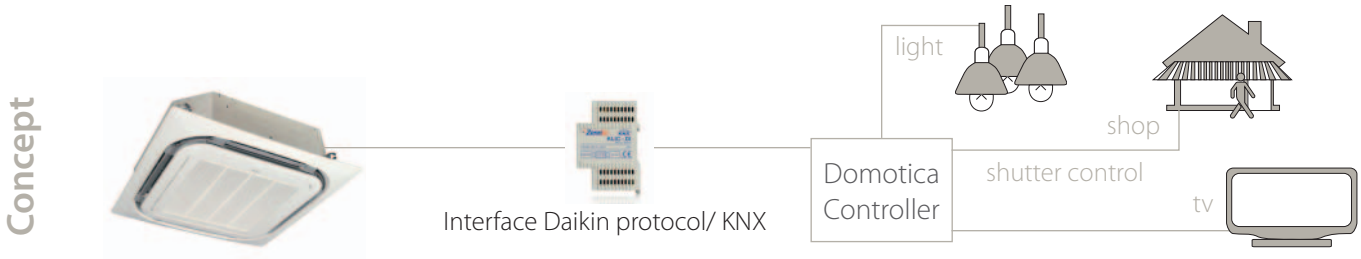
Integrate VRV in BMS via modbus protocol using F1 F2

Expected in 2014

Integration of Split, Sky Air and VRV in HA/BMS systems

Connect split indoor units to KNX interface for Home Automation system

Connect Sky Air / VRV indoor units to KNX interface for BMS integration



KNX interface line-up

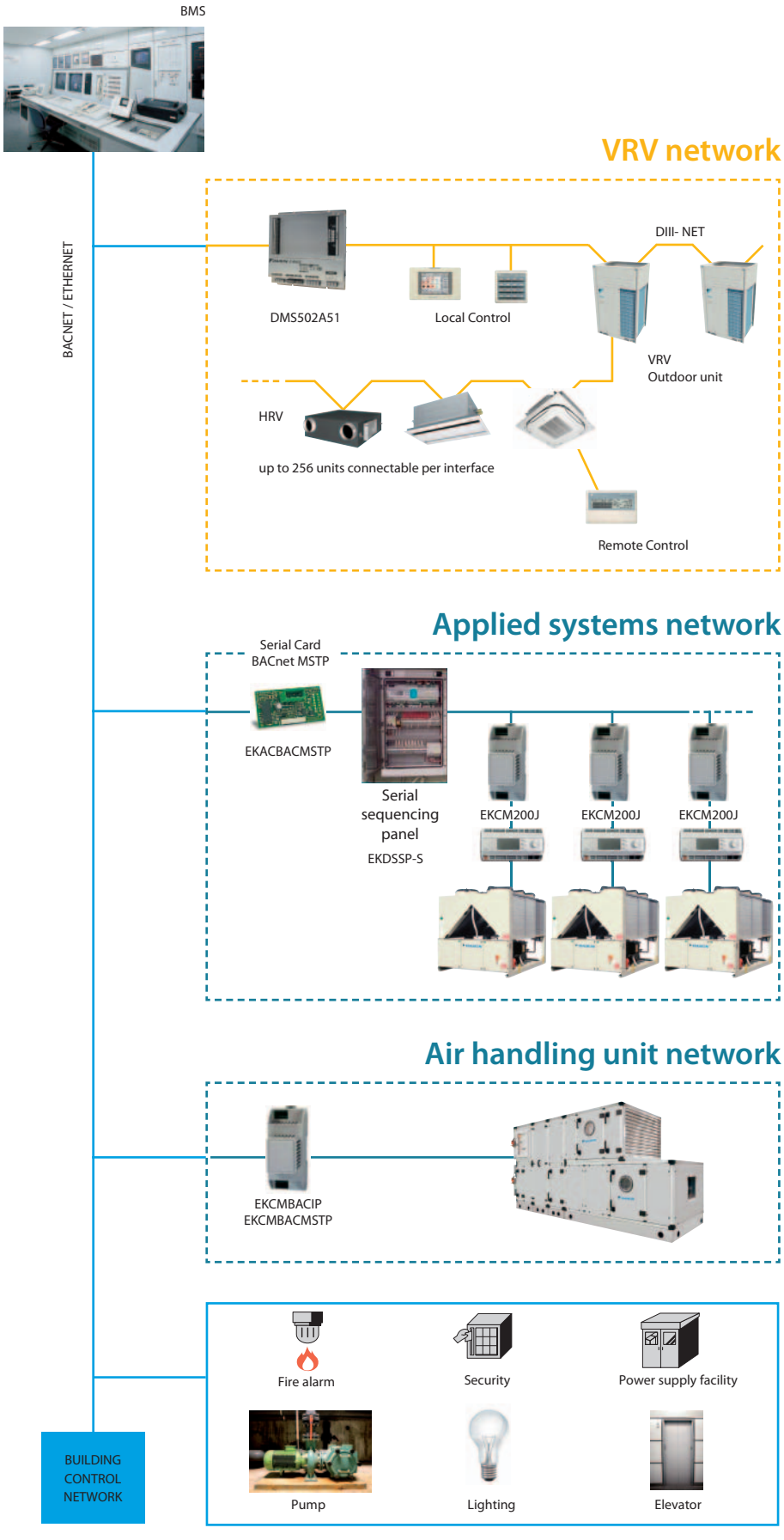
The integration of Daikin indoor units through the KNX interface allows monitoring and control of several devices, such as lights and shutters, from one central controller. One particularly important feature is the ability to programme a 'scenario' - such as "Home leave" - in which the end-user selects a range of commands to be executed simultaneously once the scenario is selected. For instance in "Home leave", the air conditioner is off, the lights are turned off, the shutters are closed and the alarm is on.

KNX interface for

	 KLIC-DD Size 90x60x35mm	 KLIC-DI Size 45x45x15mm	
	Split	**Sky Air**	**VRV**
BASIC CONTROL			
ON/OFF	✓	✓	✓
Mode	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool
Temperature	✓	✓	✓
Fan speed levels	3 or 5 + auto	2 or 3	2 or 3
Swing	Stop or movement	Stop or movement	Swing or fixed positions (5)
ADVANCED FUNCTIONALITIES			
Error management	Communication errors, Daikin unit errors		
Scenes	✓	✓	✓
Auto switch off	✓	✓	✓
Temperature limitation	✓	✓	✓
Initial configuration	✓	✓	✓
Master and slave configuration		✓	✓

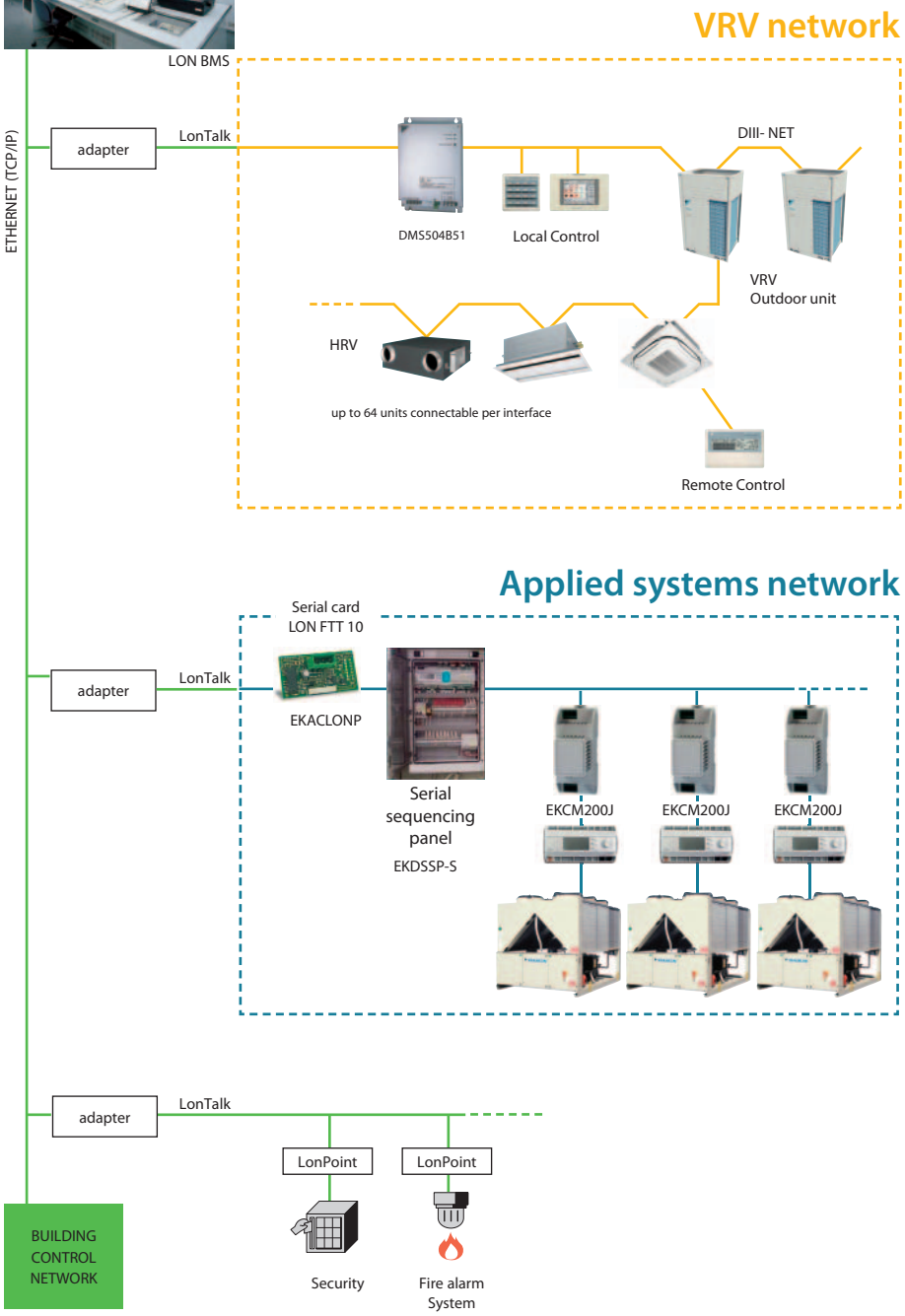
Integrated control system for seamless connection between VRV, applied Systems, air handling units and BMS systems

- Interface for BMS system
- Communication via BACnet protocol (connection via Ethernet)
- Unlimited sitesize
- Easy and fast installation
- PPD data is available on BMS system (only for VRV)



Open network integration of VRV and applied systems monitoring and control functions into LonWorks networks

- Interface for Lon connection to LonWorks networks
- Communication via Lon protocol (twisted pair wire)
- Unlimited sitesize
- Quick and easy installation



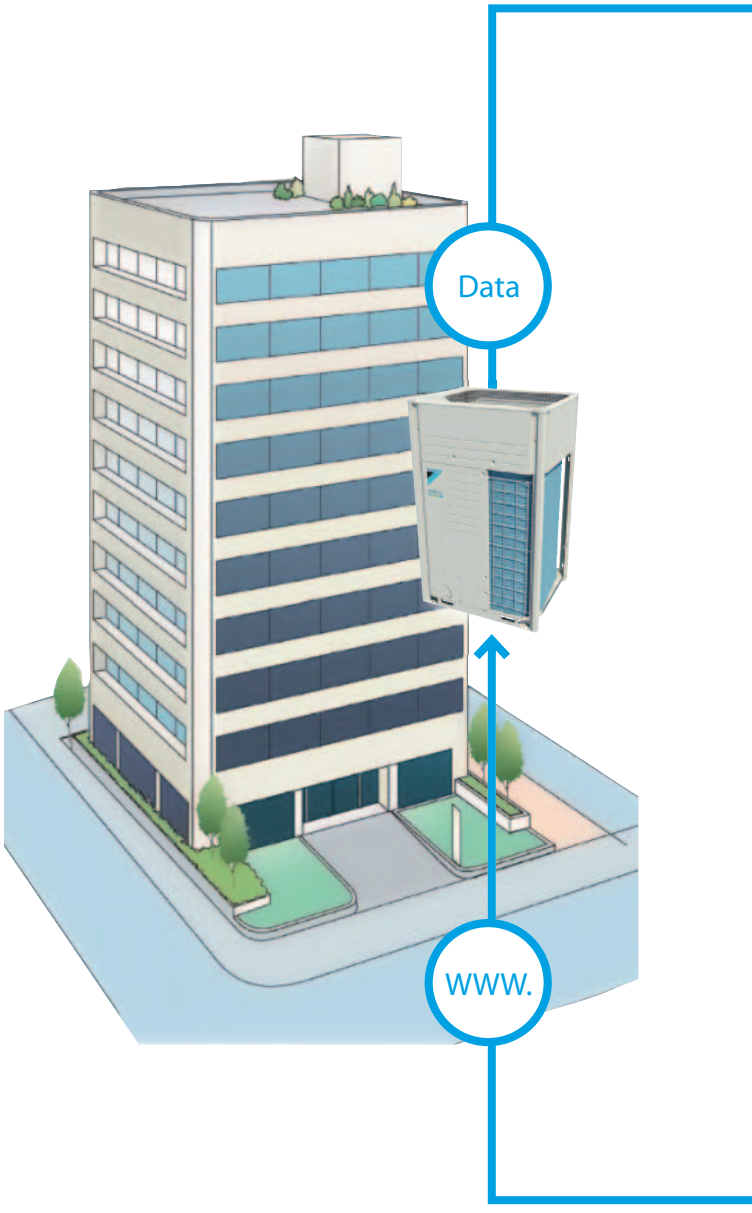
Air Conditioning Network Service System (ACNSS)

The challenge of your technical management is safeguarding in the long term optimal operation of your air conditioning system without incurring huge costs along the way. Daikin's Air Conditioning Network Service System improves the effectiveness of your management.

The network service system is a link via the internet, between the air conditioning system and Daikin's Remote Monitoring Centre. In so doing, expert service engineers monitor the operating status of the entire system nonstop all through the year. The 'ACNSS monitoring service' prevents troubles and prolongs the life of your equipment.

Thanks to the prediction of malfunctions and the technical advise following from data analysis, you not only maximise equipment availability, but also control cost without sacrificing comfort levels.

Daikin's ACNSS is also supported by the optional 'ACNSS energy saving service' as energy use is one of the largest operating expenses of any business. This service enables you to optimise on power consumption without failing to keep the customer's amenity.



ACNSS monitoring service + ACNSS energy saving service

COMFORT MAINTAINED

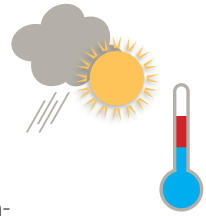
1 Data transmission

Air conditioners's running information and other necessary data are collected and compiled, and sent to the centre. Advance failure forecasts and monitoring data for accidental problems are transmitted.

OPTION:

energy-saving control determination

Operating information is analyzed, and the optimum energy-saving control settings are calculated according to weather data for the region.



Weather information

2 Daikin Remote Monitoring Centre

Daikin's control implemented

Information to customers, service company

intelligent touch Controller

intelligent touch Manager

3 data analysis & system monitoring

Reporting data is reviewed and system is monitored 24/7 for any occurances.

Energy-saving Report
Maintenance Report
Malfunction and prediction call

* A contract with Daikin is necessary for applying Energy-saving Air conditioning Network Service System. If you would like an estimation, please contact us.
* Contact your Daikin responsible for connectable units

Simplified commissioning:

graphical interface to configure, commission and upload system settings

Simplified commissioning

The Daikin configurator for Daikin Altherma and VRV is an advanced software solution that allows for easy system configuration and commissioning:

- Less time is required on the roof configuring the outdoor unit
- Multiple systems at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts
- Initial settings on the outdoor unit can be easily retrieved

Simplified commissioning

Retrieve initial system settings

Flexible and easy installation

- Accurate temperature measurement thanks to flexible placement of the sensor
- No need for wiring
- No need to drill holes
- Ideal for refurbishment

Connection diagram Daikin indoor unit PCB **(FXSQ-P example)**

Specifications

			WIRELESS ROOM TEMPERATURE SENSOR KIT (K.RSS)	
			WIRELESS ROOM TEMPERATURE RECEIVER	WIRELESS ROOM TEMPERATURE SENSOR
Dimensions		mm	50 x 50	ø 75
Weight		g	40	60
Power supply			16VDC, max. 20 mA	N/A
Battery life			N/A	+/- 3 years
Battery type			N/A	3 Volt Lithium battery
Maximum range		m	10	
Operation range		°C	0~50	
Communication	Type		RF	
	Frequency	MHz	868.3	

- Room temperature is sent to the indoor unit every 90 seconds or if the temperature difference is 0.2°C or larger.

KRCS01-1B
KRCS01-4B

Wired room temperature sensor

- Accurate temperature measurement, thanks to flexible placement of the sensor

Specifications

Dimensions (HxW)	mm	60 x 50
Weight	g	300
Length of branch wiring	m	12

Other integration devices
Adapter PCB's – Simple solutions for unique requirements

Daikin's adapter PCB's provide simple solutions for unique requirements. They are a low cost option to satisfy simple control requirements and can be used on single or multiple units.

	(E)KRP1B* adapter for wiring	• Facilitates integration of auxiliary heating apparatus, humidifiers, fans, damper • Powered by and installed at the indoor unit
	KRP2A*/KRP4A* Wiring adapter for electrical appendices	• Remotely start and stop up to 16 indoor units (1 group) (KRP2A* via P1 P2) • Remotely start and stop up to 128 indoor units (64 groups) (KRP4A* via F1 F2) • Alarm indication/ fire shut down • Remote temperature setpoint adjustment
	DTA104A* Outdoor Unit External Control Adapter	• Individual or simultaneous control of VRV system operating mode • Demand control of individual or multiple systems • Low noise option for individual or multiple systems
	KRP928* Interface adapter for DIII-net	• Allows integration of split units to Daikin central controls
	KRP413* Wiring adapter normal open contact / normal open pulse contact	• Switch off auto restart after power failure • Indication of operation mode / error • Remotely start /stop • Remotely change operation mode • Remotely change fan speed
	KRP980* Adapter for split units without an S21 port	• Connect a wired remote control • Connect to Daikin central controls • Allow external contact

Concept and benefits

› Low cost option to satisfy simple control requirements
› Deployed on single or multiple units

OPTION LISTS

Split	378
Sky Air	380
VRV outdoor	384
VRV indoor	386
Ventilation and hot water	390
Chillers	392
Fan coil units	398
Air handling units	400
Refrigeration	402
Control Systems	403
Heating	404

Options & accessories - Split

INDOOR UNITS - CONTROL SYSTEMS		FTXZ25N	FTXZ35N	FTXZ50N	FTXG25L	FTXG35L	FTXG50L
Wired remote control (3)					BRC944 (3)		
Wireless remote control							
Simplified remote control							
Remote control for hotel use							
Cord for wired remote control	3m				BRCW901A03		
	8m				BRCW901A08		
Wiring adapter normal open contact / normal open pulse contact		KRP413A1S (1)			KRP413A1S (1)		
Centralised control board	Up to 5 rooms	KRC72 (2)			KRC72 (2)		
Anti-theft protection for remote control		KKF936A4			KKF910A4		
Central remote control		DCS302C51			DCS302C51		
Unified on/off control		DCS301B51			DCS301B51		
Schedule timer		DST301B51			DST301B51		
Wiring adapter for electrical appendices							
Remote sensor							
Installation box for adapter PCB							
Electric box with earth terminal 2 / 3 blocks							
Interface adapter for DIII-net		KRP928A2S			KRP928A2S		
Online controller		KKRP01A			BRP069A41		
External mounting kit for online controller		KKRPM01A					
Wifi power cable for online controller		KKRPW01A					
Touch LCD wall controller (4)		KBRC01A					
Simple wall controller (4)		KBRCS01A					
KNX gateway		KLIC-DD			KLIC-DD		

Notes

(1) Wiring adapter supplied by Daikin. Time clock and other devices : to be purchased locally. / (2) Wiring adapter is also required for each indoor unit.

(3) Cord for wired remote control BRCW901A03 or BRCW901A08 required.

(4) Can only be used in combination with online controller KKRP01A.

INDOOR UNITS	FTXZ25N	FTXZ35N	FTXZ50N	FTXG25L	FTXG35L	FTXG50L
Air purification and deodorising filter set without frame						
Air supply filter with frame						
Suction grille						
Photocatalytic deodorising filter, with frame						
Photocatalytic deodorising filter, without frame						
Air purification filter, with frame						

INDOOR UNITS - CONTROL SYSTEMS		FTX20JV	FTX25JV	FTX35JV	FTX50GV	FTX60GV	FTX71GV	CTXS15K
Wired remote control (3)			BRC944			BRC944		
Cord for wired remote control	3m		BRCW901A03			BRCW901A03		
	8m		BRCW901A08			BRCW901A08		
Wiring adapter normal open contact / normal open pulse contact						KRP413A1S		
Centralised control board	Up to 5 rooms					KRC72 (2)		
Anti-theft protection for remote control			KKF917AA4			KKF917AA4		
Interface adapter for wired remote control			KRP980A1					
Central remote control						DCS302C51		
Unified on/off control						DCS301B51		
Schedule timer						DST301B51		
Interface adapter for DIII-net						KRP928A2S		
Online controller						KKRP01A		
External mounting kit for online controller						KKRPM01A		
Wifi power cable for online controller						KKRPW01A		
Touch LCD wall controller (4)						KBRC01A		
Simple wall controller (4)						KBRCS01A		
KNX gateway						KLIC-DD		

Notes

(1) Wiring adapter supplied by Daikin. Time clock and other devices : to be purchased locally. / (2) Wiring adapter is also required for each indoor unit.

(3) Cord for wired remote control BRCW901A03 or BRCW901A08 required.

(4) Can only be used in combination with online controller KKRP01A.

(5) Interface adapter KRP980A1 required.

INDOOR UNITS	FTX20JV	FTX25JV	FTX35JV	FTX50GV	FTX60GV	FTX71GV	CTXS15K
Titanium apatite photocatalytic air-purification filter without frame					KAF952B42		
Installation leg							

OUTDOOR UNITS	RXZ25N	RXZ35N	RXZ50N	RX20JV	RX25JV	RX35JV	RX50GV
Air direction adjustment grille							
Humidifying hose L joint (10 pcs.)		KPMJ983A4L					
L-shape cuffs for humidification (10pcs)		KPMH950A4L					
Humidifying hose extension set 2m		KPMH974A402					
Hose for humidification (10m)		KPMH942A42					

OUTDOOR UNITS	RXLG25K	RXLG35K	RXLG50K	RXL20K	RXL25K	RXL35K
Air direction adjustment grille			KPW945A4			

FDXS25F	FDXS35F	FDXS50F9	FDXS60F	FVXS25F	FVXS35F	FVXS50F	FLXS25B	FLXS35B	FLXS50B	FLXS60B
BRC1D52 / BRC1E52A / BRC1E52B										
BRC4C65										
BRC2C51										
BRC3A61										
				KRP413A1S (1)			KRP413A1S (1)			
				KRC72 (2)			KRC72 (2)			
							KKF917AA4			
DCS302C51				DCS302C51			DCS302C51			
DCS301B51				DCS301B51			DCS301B51			
DST301B51				DST301B51			DST301B51			
KRP4A54										
KRCS01-4										
KRP1BA101										
KJB212A / KJB311A										
				KRP928A2S			KRP928A2S			
--				KKRP01A			KKRP01A			
--				KKRPM01A			KKRPM01A			
--				KKRPW01A			KKRPW01A			
--				KBRC01A			KBRC01A			
--				KBRCS01A			KBRCS01A			
				KLIC-DD			KLIC-DD			

FDXS25F	FDXS35F	FDXS50F9	FDXS60F	FVXS25F	FVXS35F	FVXS50F	FLXS25B	FLXS35B	FLXS50B	FLXS60B
							KAZ917B41			
							KAZ917B42			
							KAF925B41			

FTXS20K	FTXS25K	CTXS35K	FTXS35K	FTXS42K	FTXS50K	FTXS60G	FTXS71G	FVXG25K	FVXG35K	FVXG50K
BRC944			BRC944			BRC944		BRC944		
BRCW901A03			BRCW901A03			BRCW901A03		BRCW901A03		
BRCW901A08			BRCW901A08			BRCW901A08		BRCW901A08		
KRP413A1S			KRP413A1S			KRP413A1S (1)		KRP413A1S (1)		
KRC72 (2)			KRC72 (2)			KRC72 (2)		KRC72 (2)		
KKF910A4			KKF910A4			KKF910A4		KKF910A4		
KRP980A1										
DCS302C51			DCS302C51			DCS302C51		DCS302C51		
DCS301B51			DCS301B51			DCS301B51		DCS301B51		
DST301B51			DST301B51			DST301B51		DST301B51		
KRP928A2S			KRP928A2S			KRP928A2S		KRP928A2S		
			KKRP01A			KKRP01A		KKRP01A		
			KKRPM01A			KKRPM01A		KKRPM01A		
			KKRPW01A			KKRPW01A		KKRPW01A		
			KBRC01A			KBRC01A		KBRC01A		
			KBRCS01A			KBRCS01A		KBRCS01A		
KLIC-DD (5)			KLIC-DD			KLIC-DD		KLIC-DD		

FTXS20K	FTXS25K	CTXS35K	FTXS35K	FTXS42K	FTXS50K	FTXS60G	FTXS71G	FVXG25K	FVXG35K	FVXG50K
								BKS028		

RX60GVB	RX71GVB	RXS20L	RXS25L	RXS35L	RXS42L	RXS50L	RXS60L	RXS71F8	RXG25L	RXG35L	RXG50L
KPW945A4						KPW945A4	KPW945A4				KPW945A4

RXL42K	RXL50K	2MXS40H	2MXS50H	3MXS40K	3MXS52E	3MXS68G	4MXS68F	4MXS80E	5MXS90E
	KPW945A4	KPW945A4							

INDOOR UNITS - CONTROL SYSTEMS	FCQHG71F	FCQHG100F	FCQHG125F	FCQHG140F	FCQG35F	FCQG50F	FCQG60F	FCQG71F	FCQG100F	FCQG125F	FCQG140F
Wired remote control	BRC1D52 / BRC1E52A (3) / BRC1E52B (4)				BRC1D52 / BRC1E52A (3) / BRC1E52B (4)						
Infrared remote control + decoration panel	-				-						
I-touch controller	DCS601C51				DCS601C51						
Infrared remote control (heat pump)	BRC7FA532F (5)				BRC7FA532F (5)						
Simplified remote control	-				-						
Remote control for hotel use	BRC3A61				BRC3A61						
Centralised remote control	DCS302C51				DCS302C51						
Unified ON/OFF control	DCS301B51				DCS301B51						
Schedule timer	DST301B51				DST301B51						
Adapter for wiring (interlock for fresh air intake fan)	-				-						
Adapter for external ON/OFF and monitoring/for electrical appendices	KRP1B57/KRP4A53 (1)(5)				KRP1B57/KRP4A53 (1)(5)						
Interface adapter for Sky Air	-				-						
Installation box for adapter PCB	KRP1H98 (5)				KRP1H98 (5)						
Remote sensor	KRCS01-4				KRCS01-4						
Remote ON/OFF, forced OFF	EKRORO2				EKRORO2						
Electrical box with earth terminal (3 blocks)	KJB311A				KJB311A						
Electrical box with earth terminal (2 blocks)	KJB212A				KJB212A						
Adapter for wiring (hour meter)	EKRP1C11 (1)(5)				EKRP1C11 (1)(5)						
Options PCB for external electrical heater, humidifier and/or hour meter	-				-						
Option PCB for group control (NIM03)	-				-						

Notes
(1) Installation box for adapter PCB is necessary
(2) Interface adapter for Sky Air series (DTA112B51) is necessary
(3) Including following languages: English, German, French, Italian, Spanish, Dutch, Greek, Russian, Turkish, Purtuguese, Polish
(4) Including following languages: English, German, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian, Slovak, Serbian, Albanian.
(5) Option not available in combination with BYCQ140*G
(6) Installation box for adapter PCB (KRP1B101) is necessary
(7) Electrical heater, humidifier and hour meter are field supply. These parts should not be installed inside the equipment.
(8) Sensing function is not available
(9) Independently controllable flaps function is not available

INDOOR UNITS	FCQHG71F	FCQHG100F	FCQHG125F	FCQHG140F	FCQG35F	FCQG50F	FCQG60F	FCQG71F	FCQG100F	FCQG125F	FCQG140F
Replacement long-life filter	KAFP551K160				KAFP551K160						
Sealing member of air discharge outlet	KDBHQ55B140 (4)				KDBHQ55B140 (4)						
Decoration panel	BYCQ140D + BYCQ140DW(1) + BYCQ140DG (2)(3)				BYCQ140D + BYCQ140DW(1) + BYCQ140DG (2)(3)						
Decoration panel + infrared remote control	-				-						
Fresh air intake kit (direct installation type)	KDDQ55B140-1 (4)+ KDDQ55B140-2 (6)				KDDQ55B140-1 (4)+ KDDQ55B140-2 (6)						
Panel spacer	-				-						
Sensor kit	BRYQ140A (5)				BRYQ140A (5)						

Notes
(1) The BYCQ140DW has white insulations. Be informed that dirt is more visible on white insulation and that it is consequently not advised to install the BYCQ140DW decoration panel in environments exposed to concentrations of dirt.
(2) To be able to control the BYCQ140DG, the controller BRC1E* is needed
(3) The BYCQ140DG is only compatible with Sky Air RZQ(G), RZQS(G); All VRV outdoors; Split RKS, RXS
(4) Option not available in combination with BYCQ140DG
(5) Sensor kit can only be operated with BRC1E52A/B
(6) BYFQ60B2 = basic , BYFQ60CW = White , BYFQ60CS = Grey
(7) BRYQ60AW = White, BRYQ60AS = Grey
(8) Both parts of the fresh air intake kit are needed for each unit.

ACQ71B	ACQ100B	ACQ125B	FFQ25C	FFQ35C	FFQ50C	FFQ60C	FDBQ25B	FBQ35C8	FBQ50C8	FBQ60C8	FBQ71C8	FBQ100C8	FBQ125C8	FBQ140C8	ABQ71B	ABQ125A	ABQ140A
ARCWB			BRC1D52 / BRC1E52A (3) - BRC1E52B (4)(9)				BRC1D52 / BRC1E52A (3) BRC1E52B (4)								-		
ADP125A			-				-	-							-		
-			DCS601C51				-	DCS601C51 (2)							-		
-			BRC7EB530/BRC7F530W/BRC7F530S (8-9)				-	BRC4C65							-		
-			-				-	-							-		
-			-				-	BRC3A61							-		
-			DCS302B51				-	DCS302C51							-		
-			DCS301B51				-	DCS301B51							-		
-			DST301B51				-	DST301B51							-		
-			-				-	KRP1B54							-		
-			KRP1B57/KRP4A53(6)				-	KRP4A51/KRP2A51							-		
-			-				-	DTA112B51							-		
-			KRP1B101/ KRP1BA101				-	-							-		
-			KRCS01-4				-	KRCS01-1							-		
-			-				-	EKRORO3							-		
-			-				-	-							-		
-			-				-	-							-		
-			EKRP1B2				EKRP1B2	-							-		
-			-				-	EKRP1B2A (7)							-		
R04084124324			-				-	-							R04084124324		

ACQ71B	ACQ100B	ACQ125B	FFQ25C	FFQ35C	FFQ50C	FFQ60C	FDBQ25B	FBQ35C8	FBQ50C8	FBQ60C8	FBQ71C8	FBQ100C8	FBQ125C8	FBQ140C8	ABQ71B	ABQ125A	ABQ140A
-			KAFQ441BA60				-	-							-		
-			BDBHQ44C60				-	-							-		
-			BYFQ60B2/BYFQ60CW/BYFQ60CS (6)				-	BYBS32D	BYBS45D	BYBS71D		BYBS125D			-		
ADP125A			-				-	-							-		
-			KDDQ44XA60				-	-							-		
-			KDBQ44B60				-	-							-		
-			BRYQ60AW/BRYQ60AS (7)				-	-							-		

INDOOR UNITS - CONTROL SYSTEMS	FDQ125C	FDQ200B	FDQ250B	FAQ71C	FAQ100C	FHQ35C	FHQ50C	FHQ60C	FHQ71C
Wired remote control	BRC1D52 / BRC1E52A (3) / BRC1E52B (4)			BRC1D52 / BRC1E52A (3) / BRC1E52B (4)		BRC1D52 / BRC1E52A (3) / BR			
I-touch controller	DCS601C51	-		DCS601C51		-			
Infrared remote control (heat pump)	BRC4C65	-		BRC7EB518		BRC7G53			
Simplified remote control	-			BRC2C51		-			
Remote control for hotel use	-			BRC3A61		-			
Centralised remote control	DCS302C51			DCS302C51		DCS302C51			
Unified ON/OFF control	DCS301B51			DCS301B51		DCS301B51			
Schedule timer	DST301B51			DST301B51		DST301B51			
Adapter for wiring (interlock for fresh air intake fan)	KRP1C64	KRP1B54		-		-			
Adapter for external ON/OFF and monitoring/for electrical appendices	KRP4A51			KRP4A51 (1)		KRP1B54 / KRP4A52(			
Interface adapter for Sky Air (2)	-	DTA112B51		-		-			
Installation box for adapter PCB	-			KRP4A93		KRP1D93A			
Remote sensor	KRCS01-4B	-		KRCS01-1		KRCS01-4B			
Remote ON/OFF, forced OFF	EKRORO3	EKRORO		-		EKRORO4			
Electrical box with earth terminal (3 blocks)	-			KJB311A		KJB311A			
Electrical box with earth terminal (2 blocks)	-			KJB212A		KJB212A			
Options PCB for external electrical heater, humidifier and/or hour meter	EKRP1B2	EKRP1B2		-		-			
Mounting plate for adapter PCB	KRP4A96	-		-		-			
Option PCB for group control (NIM03)	-			-		-			

Notes
(1) Installation box for adapter PCB is necessary
(2) Interface adapter for Sky Air series (DTA112B51) is necessary
(3) Including following languages: English, German, French, Italian, Spanish, Dutch, Greek, Russian, Turkish, Purtuguese, Polish
(4) Including following languages: English, German, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian, Slovak, Serbian, Albanian.
(5) Electrical heater, humidifier and hour meter are field supply. These parts should not be installed inside the equipment.
(6) With the infrared remote control, the individual flap control and automatic air volume control cannot be controlled.

INDOOR UNITS	FDQ125C	FDQ200B	FDQ250B	FAQ71C	FAQ100C	FHQ35C	FHQ50C	FHQ60C	FHQ71C
Replacement long-life filter	-			-		KAFP501A56		KAFP501A80	
Drain-up kit	-					KDU50P60			
Drain pump kit	-					KDU50P60			
L-type piping kit (upward direction)	-			-		KHFP5M35	KHFP5N63		
Sealing member of air discharge outlet	-			-		-			
Decoration panel for air discharge	-			-		-			
Decoration panel	BYBS125D(1)			-		-			
Decoration panel option	EKBYBSD			-		-			
Noise filter	-			KEK26-1A		-			
Air discharge adapter for round duct	KDAJ25K140A			-		-			
Fresh air intake kit (direct installation type)	-			-		KDDQ50A140			

Notes
(1) Decoration panel option EKBYBSD is required for direct mounting of the decoration panel of the unit.

OUTDOOR UNITS		RZQG71L8V1/Y1	RZQG100L8V1/Y1	RZQG125L8V1/Y1	RZQG140LV1/Y1	RZQSG71L3V1
Air direction adjustment grille		-				
Central drain plug		-				
Refrigerant branch piping	For twin	KHRQ22M20TA (KHRQ58T) [2]			-	
	For triple	-	KHRQ127H (KHRQ58T) [2]		-	
	For double twin	-		KHRQ22M20TA (KHRQ58T)[2]		-
Demand adapter kit		KRP58M51				
Bottom plate heater		EKBPH140L7 [1]				

Notes
(1) Bottom plate heater is only available for RZQG* models
(2) For combination of RZQ(S)G71-140 in combination with FCQG35-71F or FCQHG71F use the refrigerant branch piping mentioned between brackets.
(3) For RZQG71L8V1 and EKBPH140L7 it is required to use the demand adapter kit KRP58M51 in order to connect the bottom plate heater.

FHQ100C	FHQ125C	FHQ140C	AHQ71C	AHQ100C	AHQ125C	AHQ140C	FUQ71C	FUQ100C	FUQ125C	FVQ71C	FVQ100C	FVQ125C	FVQ140C
C1E52B (4)			ARCWB				BRC1D52 / BRC1E52A (3) / BRC1E52B (4)			BRC1D52 / BRC1E52A (3) / BRC1E52B (4)			
			-				-			DCS301C51			
			-				BRC7C58 (6)			-			
			-				-			BRC2C51			
			-				-			BRC3A61			
			-				DCS302C51			DCS302C51			
			-				DCS301B51			DCS301B51			
			-				DST301B51			DST301B51			
			-				-			-			
1)			-				KRP4A53 (1)			KRP1B57 / KRP4A52			
			-				-			-			
			-				KRP1B97			KRP4AA95			
			-				KRCS01-4			-			
			-				EKRORO5			-			
			-				KJB311A			-			
			-				KJB212A			-			
			-				-			-			
			-				-			-			
			R04084124324				-			-			

FHQ100C	FHQ125C	AHQ71C	AHQ100C	AHQ125C	AHQ140C	FUQ71C	FUQ100C	FUQ125C	FVQ71C	FVQ100C	FVQ125C	FVQ140C
KAFP501A160		-				KAFP551K160			KAFJ95L160			
KDU50P140		-				-			-			
KDU50P140		-				-			-			
KHFP5N160		-				-			-			
		-				KDBHP49B140			-			
		-				KDBTP49B140			-			
		-				-			-			
		-				-			-			
		-				-			-			
		-				-			-			
		-				-			-			

RZQSG100L8V1/Y1	RZQSG125L8V1/Y1	RZQSG140LV1/Y1	AZQS71BV1/BY1	AZQS125BV1/BY1	AZQS140BV1/BY1	RZQ200C	RZQ250C
-			-			-	
-			-			KWC26B280	
KHRQ22M20TA (KHRQ58T) [2]			-			KHRQ22M20TA	
KHRQ127H (KHRQ58T)[2]			-			KHRQ250H7	
	KHRQ22M20TA (KHRQ58T)[2]		-			KHRQ22M20TA (x3)	
KRP58M51			KRP58M51			KRP58M51	
-			-				

	UATYQ-C
Rooftop controller	√
PCB	√
EXV	√
Gold Fin (NA549)	√
Scroll compressor	√
Saranet Air Filter	√
Side flow	√
Convertible	√
Filter drier	√
High pressure switch	√
Low pressure switch	√
Economiser	ECONO-AY1

No options available for UATYP-AY1(B)
No options available for ECONO-AY1

Options & accessories - VRV outdoor

	VRV IV with continuous heating						VRV IV without cor	
	RYYQ8-12T	RYYQ14-20T	RYMQ8-12T	RYMQ14-20T	2-module systems	3-module systems	RXYQ8-12T	RXYQ14-20T
Multi-module connection kit (obligatory) - Connects multiple modules into a single refrigerant system	-	-	-	-	BHFQ22P1007	BHFQ22P1517	-	-
Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units	-	-	-	-	-	-	-	-
Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.	-	-	-	-	-	-	-	-
Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates	EKBPH012T* + EKBPHPCBT*	EKBPH020T* + EKBPHPCBT*	EKBPH012T* + EKBPHPCBT*	EKBPH020T* + EKBPHPCBT*	-	-	EKBPH012T* + EKBPHPCBT*	EKBPH020T* + EKBPHPCBT*
External control adapter for outdoor unit - Allows to activate Low Noise Operation and three levels of Demand Limiting via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-WIII outdoor unit.	For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units							
BHGP26A1 - Digital pressure gauge kit – displays current condensing and evaporating pressures in the system as standard, or expansion valve positions and temperature sensor data in a special service mode. Connect to the outdoor unit PCB, for installation in the outdoor unit.	✓	✓	✓	✓	1 kit per system	1 kit per system	✓	✓
KRC19-26A - Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.	✓	✓	✓	✓	✓	✓	✓	✓
BRP2A81 - Cool/heat selector PCB (required for VRV IV)	✓	✓	✓	✓	✓	✓	✓	✓
KKSA26A560* - Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)	✓	✓	✓	✓	✓	✓	✓	✓
KJB111A - Installation box for remote cool/heat selector KRC19-26A	✓	✓	✓	✓	✓	✓	✓	✓
EKPCCAB1 - VRV configurator	✓	✓	✓	✓	✓	✓	✓	✓
BPMKS967B2B/B3B - Branch provider (for connection of 2/3 RA indoor units)	✓	✓	-	-	-	-	✓	✓
KKPJ5F180 - Central drain plug	-	-	-	-	-	-	-	-
DTA104A61/62* - Demand PCB allowing external input to limit power consumption	✓	✓	✓	✓	✓	✓	✓	✓
KKSB2B61* - Demand PCB mounted plate. Needed to mount Demand PCB for some outdoor units.	-	✓	-	✓	-	-	-	✓

	VRV IV-Q Heat Pump Replacement VRV				
	RQYQ 140	RXYQQ8-12T	RXYQQ14-20T	2-module systems	3-module systems
Multi-module connection kit (obligatory) - Connects multiple modules into a single refrigerant system	-	-	-	BHFQ22P1007	BHFQ22P1517
Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.	KWC26B160	-	-	-	-
Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates	-	EKBPH012T* + EKBPHPCBT*	EKBPH020T* + EKBPHPCBT*	-	-
External control adapter for outdoor unit - Allows to activate Low Noise Operation and three levels of Demand Limiting via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units				
BHGP26A1 - Digital pressure gauge kit – displays current condensing and evaporating pressures in the system as standard, or expansion valve positions and temperature sensor data in a special service mode. Connect to the outdoor unit PCB, for installation in the outdoor unit.	✓	✓	✓	1 kit per system	1 kit per system
KRC19-26A - Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.	✓	✓	✓	1 kit per system	1 kit per system
BRP2A81 - Cool/heat selector PCB (required for VRV IV)	-	✓	✓	✓	✓
KKSA26A560* - Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)	-	✓	✓	✓	✓
KJB111A - Installation box for remote cool/heat selector KRC19-26A	✓	✓	✓	1 kit per system	1 kit per system
BWU26A15 - Water strainer kit for 1.40MPa design pressure	-	-	-	-	-
BWU26A20 - Water strainer kit for 1.96MPa design pressure	-	-	-	-	-
EKPCCAB1 - VRV configurator	-	✓	✓	✓	✓
DTA104A61/62* - Demand PCB allowing external input to limit power consumption	-	✓	✓	✓	✓
KKSB2B61* - Demand PCB mounted plate. Needed to mount Demand PCB for some outdoor units.	-	-	✓	-	-

		Refnet Joints				
		Capacity index < 201	Capacity index 201~290	Capacity index 291~640	Capacity index > 640	Cap
Heat Recovery systems (3-pipe)	Metric-size connections	KHRQM23M20T	KHRQM23M29T	KHRQM23M64T	KHRQM23M75T	KHR
	Imperial-size connections	KHRQ23M20T	KHRQ23M29T9	KHRQ23M64T	KHRQ23M75T	KHF
	Sound reduction kit (sound insulation)	-	-	-	-	
	Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.	-	-	-	-	
	Installation box for remote cool/heat selector KRC19-26	-	-	-	-	
Heat Pump systems (2-pipe)	Metric-size connections	KHRQM22M20T	KHRQM22M29T	KHRQM22M64T	KHRQM22M75T	KHR
	Imperial-size connections	KHRQ22M20T	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T	KHF

ntinuous heating		VRV III-S Mini VRV	VRV III-C Cold Region VRV			VRV Classic			VRV III Heat Recovery					Total Solution VRV
2-module systems	3-module systems	RXYSQ	RTSYQ 10	RTSYQ 14~16	RTSYQ 20	RXYCQ8A	RXYCQ10-14A	RXYCQ16-20A	REYQ 8~16	REMQ 8~12	REMQ 14~16 REMHQ12	2-module systems	3-module systems	REYAQ 10~16
BH-FQ22P1007	BH-FQ22P1517	-	-	-	BH-FQ22P1007	-	-	-	-	-	-	BHFQ23P907	BH-FQ23P1357	-
-	-	-	-	-	-	-	-	-	Special order unit					-
-	-	-	KW-C26B280	KW-C26B450	2x KW-C26B280	KW-C26B160	KW-C26B280	KW-C26B450	KW-C25C450	KW-C26B280	KW-C26B450	1 kit per module	1 kit per module	KW-C25C450
-	-	-	BE-H22A10Y1L	BE-H22A18Y1L	2x BE-H22A10Y1L	-	-	-	-	-	-	-	-	-
		For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units												
1 kit per system	1 kit per system	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	1 kit per system	1 kit per system	-
✓	✓	✓	-	-	-	✓	✓	✓	-	-	-	-	-	-
✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
✓	✓	✓	-	-	-	✓	✓	✓	-	-	-	-	-	-
✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

VRV III-Q Heat Recovery Replacement VRV				VRV-W IV Water-cooled VRV				
					Heat Pump application		Heat Recovery application	
RQEQ 140~212	2-module systems	3-module systems	4-module systems	RWEYQ8-10T	2-module systems	3-module systems	2-module systems	3-module systems
-	BHFP26P36C	BHFP26P63C	BHFP26P84C	-	BHFP22MA56	BHFP22MA84	BHFP26MA56	BHFP26MA84
KWC26B160	1 kit per module	1 kit per module	1 kit per module	-	-	-	-	-
-	-	-	-	-	-	-	-	-
DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units				DTA104A62 Installation in the RWEYQ outdoor unit possible. For installation in indoor units, use appropriate type (DTA104A53/61/62) for particular indoor unit. See Options & Accessories of indoor units				
✓	1 kit per system	1 kit per system	1 kit per system	-	-	-	-	-
-	-	-	-	✓	1 kit per system	1 kit per system	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	✓	1 kit per system	1 kit per system	-	-
-	-	-	-	✓	1 kit per module	1 kit per module	1 kit per module	1 kit per module
-	-	-	-	✓	1 kit per module	1 kit per module	1 kit per module	1 kit per module
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

Refnet Headers			Heat Recovery Branch Selector Boxes (BS-Boxes)				
acity index	Capacity index	Capacity index	1-port	1-port	1-port	4-port	6-port
< 291	291~640	> 640	Capacity index < 101	Capacity index 101 ~ 160	Capacity index 161 ~ 250	Capacity index < 100 per port	Capacity index < 100 per port
QM23M29H	KHRQM23M64H	KHRQM23M75H	-	-	-	-	-
RQ23M29H	KHRQ23M64H	KHRQ23M75H	BSVQ100P8B	BSVQ160P8B	BSVQ250P8B	BSV4Q100PV	BSV6Q100PV
-	-	-	EKBSVQLNP	EKBSVQLNP	EKBSVQLNP	-	-
-	-	-	KRC19-26	KRC19-26	KRC19-26	KRC19-26 1 kit per port necessary	KRC19-26 1 kit per port necessary
-	-	-	KJB111A	KJB111A	KJB111A	KJB111A	KJB111A
QM22M29H	KHRQM22M64H	KHRQM22M75H	-	-	-	-	-
RQ22M29H	KHRQ22M64H	KHRQ22M75H	-	-	-	-	-

Options & accessories - VRV indoor

		Ceiling mounted cassette units				
		Round flow (800x800)	4-way (600x600)	2-way blow		
		FXFQ 20~125A	FXZQ 15~50A	FXCQ 20~40A	FXCQ 50~63A	FXCQ 80 ~125A
Adapters and control	**BRC1E52A/B** Premium wired remote control with full-text interface and back-light	✓	✓	✓	✓	✓
	BRC1D52 Standard wired remote control with weekly timer	✓*4	✓*4	✓*4	✓*4	✓*4
	Infrared remote control including receiver	BRC7F532F	BRC7F530W *9*10 (white panel) BRC7F530S *9*10 (grey panel) BRC7EB530 *9*10 (standard panel)	BRC7C52	BRC7C52	BRC7C52
	BRC2C51 Simplified wired remote control	-	-	-	-	-
	BRC3A61 Remote control for hotel use	-	-	-	-	-
	DCS302C51 Central remote control	✓	✓	✓	✓	✓
	DCS301B51 Unified ON/OFF control	✓	✓	✓	✓	✓
	DST301B51 Schedule timer	✓	✓	✓	✓	✓
	DCS601C51 Intelligent Touch Manager	✓	✓	✓	✓	✓
	External wired temperature sensor	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4
	External wireless temperature sensor	K.RSS	K.RSS	K.RSS	K.RSS	K.RSS
	Wiring adapter for external monitoring/control via dry contacts and setpoint control via 0-140Ω	KRP4A53 *2*7	KRP4A53 *2	KRP4A51	KRP4A51	KRP4A51
	Wiring adapter for external central monitoring/control (controls 1 entire system)	-	KRP2A52	KRP2A51	KRP2A51	KRP2A51
	Wiring adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1C11 *2*7	EKRP1B2	EKRP1B2	EKRP1B2	EKRP1B2
	Wiring adapter with 2 output signals (Compressor / Error, Fan output)	KRP1B57 *2*7	KRP1B57	-	-	-
	Adapter for multi-tenant applications (24VAC PCB power supply interface)	DTA114A61	DTA114A61	-	-	-
	External control adapter for outdoor unit	-	-	DTA104A61	DTA104A61	DTA104A61
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP1H98 *7	KRP1A101	KRP1C96	KRP1C96	KRP1C96
	Connector for forced-off contact	standard	-	standard	standard	standard
	Connection to centralized control	standard	-	-	-	-
	Electrical box with earth terminal (2 blocks)	KJB212A	-	KJB212A	KJB212A	KJB212A
	Electrical box with earth terminal (3 blocks)	KJB311A	-	KJB311A	KJB311A	KJB311A

Others	Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)	BYCQ140D7GW1 (self clean) *5/*6 BYCQ140D7W1W (white) *3 BYCQ140D7W1 (standard)	BYFQ60CW (white panel) BYFQ60CS (grey panel) BYFQ60B2 (standard panel)	BYBCQ40H	BYBCQ63H	BYBCQ125H
	Kit for mounting of decoration panel direct onto unit	-	-	-	-	-
	Panel spacer for reducing required installation height	-	KDBQ44B60 (standard panel)	-	-	-
	Sealing kit for 3-directional or 2-directional air discharge	KDBHQ55B140 *7	BDBHQ44C60 (white & grey panel)	-	-	-
	Fresh air intake kit	KDDQ55B140-1 + KDDQ55B140-2 *7*8	KDDQ44XA60	-	-	-
	Air discharge adapter for round duct	-	-	-	-	-
	Filter chamber for bottom suction	-	-	KDDFP53B50	KDDFP53B80	KDDFP53B160
	Replacement long life filter	KAFP551K160	KAFQ441BA60	KAFP531B50	KAFP531B80	KAFP531B160
	Drain pump kit	standard	standard	standard	standard	standard
	Sensor kit	BRYQ140A	BRYQ60AW (white panel) BRYQ60AS (grey panel)	-	-	-
	Noise filter (for electromagnetic use only)	-	-	KEK26-1A	KEK26-1A	KEK26-1A

*2 Installation box is necessary for these adapters

*3 The BYCQ140D7W1W has white insulation

Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt"

*4 Not recommended because of the limitation of the functions

*5 To be able to control the BYCQ140D7GW1 the controller BRC1E is needed

*6 The BYCQ140DGW1 is not compatible with Mini VRV, Multi and Split Non-Inverter Outdoor units

*7 Option not available in combination with BYCQ140D7GW1

*8 Both parts of the fresh air intake are needed for each unit

*9 Sensing function not available

*10 Independently controllable flaps function not available

		Concealed ceiling units (duct units)					
Corner (1-way blow)		Small	Slim	Standard			
FXKQ 25~40	FXKQ 63	FXDQ 20~25 M9	FXDQ 15~63A	FXSQ 20~32	FXSQ 40~50	FXSQ 63~80	FXSQ 100~140
✓	✓	✓	✓	✓	✓	✓	✓
✓*4	✓*4	✓*4	✓*4	✓*4	✓*4	✓*4	✓*4
BRC4C61	BRC4C61	BRC4C62	BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC4C65
-	-	✓	✓	✓	✓	✓	✓
-	-	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
KRCS01-1	KRCS01-1	KRCS01-1	KRCS01-4B	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4
K.RSS	K.RSS	K.RSS	K.RSS	K.RSS	K.RSS	K.RSS	K.RSS
KRP4A51	KRP4A51	KRP4A51	KRP4A54	KRP4A51	KRP4A51	KRP4A51	KRP4A51
KRP2A51	KRP2A51	KRP2A51	KRP2A53	KRP2A61	KRP2A51	KRP2A51	KRP2A51
KRP1B61	KRP1B61	EKRP1B2	KRP1B56	EKRP1B2	EKRP1B2	EKRP1B2	EKRP1B2
-	-	-	-	-	-	-	-
-	-	EKMTAC	DTA114A61	DTA114A61	DTA114A61	DTA114A61	DTA114A61
DTA104A61	DTA104A61	DTA104A61	DTA104A53	DTA104A61	DTA104A61	DTA104A61	DTA104A61
-	-	-	KRP1B101	KRP4A96	KRP4A96	KRP4A96	KRP4A96
Standard	Standard	Standard	-	Standard	Standard	Standard	Standard
Standard	Standard	Standard	-	Standard	Standard	Standard	Standard
-	-	-	KJB212A	-	-	-	-
-	-	-	KJB311A	-	-	-	-

BYK45F	BYK71F	-	-	BYBS32D	BYBS45D	BYBS71D	BYBS125D
-	-	-	-	EKBYBSD	EKBYBSD	EKBYBSD	EKBYBSD
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	KDAJ25K36A	KDAJ25K56	KDAJ25K71	KDAJ25K140
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
Standard	Standard	KDAJ25K56	standard	Standard	Standard	Standard	Standard
-	-	-	-	-	-	-	-
-	-	-	KEK26-1A	-	-	-	-

		Concealed ceiling units (duct units)				
		High ESP				Large
		FXMQ 20~32	FXMQ 40	FXMQ 50~80	FXMQ 100~125	FXMQ 200~250
Adapters and control	**BRC1E52A/B** Premium wired remote control with full-text interface and back-light	✓	✓	✓	✓	✓
	BRC1D52 Standard wired remote control with weekly timer	✓*4	✓*4	✓*4	✓*4	✓*4
	Infrared remote control including receiver	BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC4C65
	BRC2C51 Simplified wired remote control	✓	✓	✓	✓	✓
	BRC3A61 Remote control for hotel use	✓	✓	✓	✓	✓
	DCS302C51 Central remote control	✓	✓	✓	✓	✓
	DCS301B51 Unified ON/OFF control	✓	✓	✓	✓	✓
	DCS601C51 Schedule timer	✓	✓	✓	✓	✓
	DCS301B51 Intelligent Touch Controller	✓	✓	✓	✓	✓
	External wired temperature sensor	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-1
	External wireless temperature sensor	K.RSS	K.RSS	K.RSS	K.RSS	K.RSS
	Wiring adapter for external monitoring/control via dry contacts and setpoint control via 0-140Ω	KRP4A51	KRP4A51	KRP4A51	KRP4A51	KRP4A51
	Wiring adapter for external central monitoring/control (controls 1 entire system)	KRP2A51	KRP2A51	KRP2A51	KRP2A51	KRP2A51
	Wiring adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1B2	EKRP1B2	EKRP1B2	EKRP1B2	KRP1B61
	Wiring adapter with 2 output signals (Compressor / Error, Fan output)	-	-	-	-	-
	Adapter for multi-tenant applications (24VAC PCB power supply interface)	DTA114A61	DTA114A61	DTA114A61	DTA114A61	-
	External control adapter for outdoor unit	DTA104A61	DTA104A61	DTA104A61	DTA104A61	DTA104A61
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP4A96	KRP4A96	KRP4A96	KRP4A96	-
	Connector for forced-off contact	Standard	Standard	Standard	Standard	Standard
	Connection to centralized control	Standard	Standard	Standard	Standard	Standard
	Electrical box with earth terminal (2 blocks)	-	-	-	-	-
	Electrical box with earth terminal (3 blocks)	-	-	-	-	-
Others	Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)	BYBS32D	BYBS45D	BYBS71D	BYBS125D	-
	Kit for mounting of decoration panel direct onto unit	EKBYBSD	EKBYBSD	EKBYBSD	EKBYBSD	-
	Panel spacer for reducing required installation height	-	-	-	-	-
	Sealing kit for 3-directional or 2-directional air discharge	-	-	-	-	-
	Decorationpanel for air discharge	-	-	-	-	-
	Fresh air intake kit	-	-	-	-	-
	Air discharge adapter for round duct	KDAJ25K36A	KDAJ25K56	KDAJ25K71	KDAJ25K140	-
	Replacement long life filter	-	-	-	-	-
	Drain pump kit	Standard	Standard	Standard	Standard	-
	Sensor kit	-	-	-	-	-
	Noise filter (for electromagnetic use only)	-	-	-	-	-
	L-type piping kit (for upward direction)	-	-	-	-	-

*2 Installation box is necessary for these adapters

*3 The BYCQ140D7W1W has white insulation

Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt

*4 Not recommended because of the limitation of the functions

*5 To be able to control the BYCQ140D7GW1 the controller BRC1E is needed

*6 The BYCQ140DGW1 is not compatible with Mini VRV, Multi and Split Non-Inverter Outdoor units

*7 Option not available in combination with BYCQ140D7GW1

*8 Both parts of the fresh air intake are needed for each unit

*9 Sensing function not available

*10 Independently controllable flaps function not available

Ceiling suspended units				Wall mounted units	Floor standing units			
1-way blow			4-way blow		Concealed	Free-standing		
FXHQ 32A	FXHQ 63A	FXHQ 71~100A	FXUQ 71~100A	FXAQ 15~63	FXNQ 20~63	FXLQ 20~25	FXLQ 32~40	FXLQ 50~63
✓	✓	✓	✓	✓	✓	✓	✓	✓
✓*4	✓*4	✓*4	✓*4	✓*4	✓*4	✓*4	✓*4	✓*4
BRC7G53	BRC7G53	BRC7G53	BRC7C58	BRC7E618	BRC4C65	BRC4C65	BRC4C65	BRC4C65
-	-	-	-	-	✓	✓	✓	✓
-	-	-	-	-	-	-	-	-
✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓
KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-1	KRCS01-1	KRCS01-1	KRCS01-1	KRCS01-1
K.RSS	K.RSS	K.RSS	K.RSS	K.RSS	K.RSS	K.RSS	K.RSS	K.RSS
KRP4A52	KRP4A52	KRP4A52	KRP4A53 *2	KRP4A51	KRP4A51	KRP4A51	KRP4A51	KRP4A51
KRP2A62	KRP2A62	KRP2A62	-	KRP2A51	KRP2A51	KRP2A51	KRP2A51	KRP2A51
-	-	-	-	-	KRP1B61	KRP1B61	KRP1B61	KRP1B61
KRP1B54	KRP1B54	KRP1B54	-	-	-	-	-	-
-	-	-	-	DTA114A61	EKMTAC	EKMTAC	EKMTAC	EKMTAC
DTA104A62	DTA104A62	DTA104A62	-	DTA104A61	-	-	-	-
KRP1D93A	KRP1D93A	KRP1D93A	KRP1B97	KRP4A93	-	-	-	-
EKRORO4	EKRORO4	EKRORO4	EKRORO5	Standard	Standard	Standard	Standard	Standard
-	-	-	-	Standard	Standard	Standard	Standard	Standard
KJB212A	KJB212A	KJB212A	KJB212A	-	-	-	-	-
KJB311A	KJB311A	KJB311A	KJB311A	-	-	-	-	-

-	-	-	-	-	-	EKRDP25A	EKRDP40A	EKRDP63A
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	KDBHP49B140	-	-	-	-	-
-	-	-	KDBTP49B140	-	-	-	-	-
KDDQ50A140	KDDQ50A140	KDDQ50A140	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
KAFP501A56	KAFP501A80	KAFP501A160	KAFP551K160	-	-	-	-	-
KDU50P60	KDU50P140	KDU50P140	-	K-KDU572EVE	-	-	-	-
-	-	-	-	-	-	-	-	-
KEK26-1	KEK26-1	KEK26-1	-	-	-	-	-	-
KHFP5M35	KHFP5N63	KHFP5N160	-	-	-	-	-	-

Options & accessories - Ventilation & hot water

		VAM150FA	VAM250FA	VAM350FB	VAM500FB	VAM650FB
Dust filters	EN779 Medium M6	-	-	EKAFV50F6	EKAFV50F6	EKAFV80F6
	EN779 Fine F7	-	-	EKAFV50F7	EKAFV50F7	EKAFV80F7
	EN779 Fine F8	-	-	EKAFV50F8	EKAFV50F8	EKAFV80F8
Silencer	Model name	-	-	-	KDDM24B50	KDDM24B100
	Nominal pipe Diameter (mm)	-	-	-	200	200
CO_2 sensor		-	-	BRYMA65	BRYMA65	BRYMA65
VH electrical heater for VAM		VH1B	VH2B	VH2B	VH3B	VH3B
Adapter for discharge		-	-	-	KDAJ25K36A	KDAJ25K56

INDIVIDUAL CONTROL SYSTEMS	VAM-FA/FB	VKM-GB(M)
Wired remote control	BRC1E52A/B / BRC1D52	BRC1E52A/B / BRC1D52
VAM wired remote control	BRC301B61	-

CENTRALISED CONTROL SYSTEMS	VAM-FA/FB	VKM-GB(M)
Centralised remote control	DCS302C51	DCS302C51
Unified ON/OFF control	DCS301B51	DCS301B51
Schedule timer	DST301B51	DST301B51

OTHERS	VAM150-250FA	VAM350-2000FB	VKM-GB(M)
Wiring adapter for electrical appendices (note 6)	KRP2A51	KRP2A51 (note 3)	BRP4A50A (note 4/5)
Adapter PCB for humidifier	KRP50-2	BRP4A50A (note 4/5)	BRP4A50A (note 4/5)
Adapter PCB for 3rd party heater	BRP4A50	BRP4A50A (note 4/5)	BRP4A50A (note 4/5)
Remote sensor	-	-	-

Notes

(1) Cool/heat selector required for operation

(2) Do not connect the system to DIII-net devices (Intelligent controller, Intelligent Manager, LonWorks interface, BACnet interface…).

(3) Installation box KRP1BA101 needed.

(4) Fixing plate EKMPVAM additionally needed for VAM1500-2000FB.

(5) 3rd party heater and 3rd party humidifier cannot be combined

(6) For external control and monitoring (ON/OFF control, operation signal, error indication)

	VH ELECTRICAL HEATER FOR VAM
Supply voltage	220/250V ac 50/60 Hz. +/-10%
Output current (maximum)	19A at 40°C (ambient)
Temperature sensor	5k ohms at 25°C (table 502 1T)
Temperature control range	0 to 40°C / (0-10V 0-100%)
Run on timer	Adjustable from 1 to 2 minutes (factory set at 1.5 minutes)
Control fuse	20 X5 mm 250 m A
LED indicators	Power ON - Yellow Heater ON - Red (solid or flashing, indicating pulsed control) Airflow fault - Red
Mounting holes	98mm X 181mm centres 5 mm ø holes
Maximum ambient adjacent to terminal box	35°C (during operation)
Auto high temp. cutout	100°C Pre-set
Man. reset high temp. cutout	125°C Pre-set
Run relay	1A 120V AC or 1A 24V DC
BMS setpoint input	0-10VDC

VH ELECTRICAL HEATER FOR VAM		VH1B	VH2B	VH3B	VH4B	VH4/AB	VH5B
Capacity	kW	1	1	1	1.5	2.5	2.5
Duct diameter	mm	100	150	200	250	250	350
Connectable VAM		VAM150FA	VAM250FA	VAM500FB	VAM800FB	VAM800FB	VAM1500FB
		–	VAM350FB	VAM650FB	VAM1000FB	VAM1000FB	VAM2000FB

VAM800FB	VAM1000FB	VAM1500FB	VAM2000FB	VKM50GB(M)	VKM80GB(M)	VKM100GB(M)
EKAFV80F6	EKAFV100F6	EKAFV100F6 x2	EKAFV100F6 x2	-	-	-
EKAFV80F7	EKAFV100F7	EKAFV100F7 x2	EKAFV100F7 x2	-	-	-
EKAFV80F8	EKAFV100F8	EKAFV100F8 x2	EKAFV100F8 x2	-	-	-
KDDM24B100	KDDM24B100	KDDM24B100 x2	KDDM24B100 x2	-	KDDM24B100	KDDM24B100
250	250	250	250	-	250	250
BRYMA100	BRYMA100	BRYMA200	BRYMA200	BRYMA65	BRYMA100	BRYMA200
VH4B / VH4/AB	VH4B / VH4/AB	VH5B	VH5B	-	-	-
KDAJ25K56	KDAJ25K56	-	-	-	-	-

FXMQ-MF	EKEQFCB [2]	EKEQDCB [2]	EKEQMCB [2]
BRC1E52A/B / BRC1D52	BRC1E52A/B / BRC1D52	BRC1E52A/B / BRC1D52 [1]	BRC1E52A/B / BRC1D52 [1]
-	-	-	-

FXMQ-MF	EKEQFCB [2]	EKEQDCB [2]	EKEQMCB [2]
DCS302C51	-	-	-
DCS301B51	-	-	-
DST301B51	-	-	-

FXMQ-MF	EKEQFCB [2]	EKEQDCB [2]	EKEQMCB [2]
-	-	-	-
-	-	-	-
-	-	-	-
-		KRCS01-1	

	HXY080-125A	HXHD125A
Drain pan	EKHBDPCA2	-
Digital I/O PCB	EKRP1HBAA	-
Demand PCB - Required to connect room thermostat	EKRP1AHTA	-
Remote user interface (remocon) - Same controller as supplied with cascade unit can be mounted parallel or on other location. If 2 controllers are installed, the installer needs to select 1 master & 1 slave	EKRUAHTB	-
Back-up heater	EKBUHAA6(W1/V3)	-
Wired room thermostat - Requires demand PCB EKRP1AHTA	EKRTWA	-
Wireless room thermostat - Requires demand PCB EKRP1AHTA	EKRTR1	-
Remote sensor for room thermostat - Requires demand PCB EKRP1AHTA	EKRTETS	-
Domestic hot water tank - standward (stacked on top of hydrobox)	-	EKHTS200AC EKHTS260AC
Domestic hot water tank - with possibility for solar connection	-	EKHWP500B
Solar collector *1	-	EKSV26P (vertical) EKSH26P (horizontal)
Pump station	-	EKSRPS

*1 pump station is necessary for this option

Options - Chillers

Options - small chillers

Type	Compr.	Refr	Mode	Reference	Products	Integrated Hydronics				
						Single pump contact	Twin pump contact	Single pump	Twin pump	High ESP pump
						OPSC	OPTC	OPSP	OPTP	OPHP
Air Cooled	SWING	R-410A		EWAQ-ADVP	005-006-007			STD		
				EWYQ-ADVP	005-006-007			STD		
	SCROLL	R-410A		EWAQ-ACV3	009-010-011			STD		
				EWAQ-ACW1	009-011-013			STD		
				EWYQ-ACV3	009-010-011			STD		
				EWYQ-ACW1	009-011-013			STD		
				EUWAN-KBZW1	5-8-10-12-16-20-24					
				EUWAP-KBZW1	5-8-10-12-16-20-24					Option
				EUWAB-KBZW1	5-8-10-12-16-20-24					Option
				EUWYN-KBZW1	5-8-10-12-16-20-24					
				EUWYP-KBZW1	5-8-10-12-16-20-24					Option
				EUWYB-KBZW1	5-8-10-12-16-20-24					Option
		R-410A		EWAQ-DAYNN	080-100-130-150-180-210-240-260	Option	Option	Option	Option	Option
				EWYQ-DAYNN	080-100-130-150-180-210-240-260	Option	Option	Option	Option	Option
Water Cooled	SCROLL	R-407C		EWWP-KBW1N	014-022-028-035-045-055-065					
Conden-serless chiller	SCROLL	R-407C		EWLP-KBW1N	012-020-026-030-040-055-065					

Options - Medium and large chillers (Part 1)

Description	Code	EWAQ~BAW EWYQ~BAW	EWAQ-E-XS EWAQ-F-SS/XS	EWAQ-E-XL/XR EWAQ-F-SL/XR/ XL/XR	EWYQ-F-XS	EWYQ-F-XL	EWYQ-F-XR	EWAD-E-	EWAD-D-SS	EWAD-D-SL	EWAD-D-SR	EWAD-D-SX	EWAD-D-XS	EWAD-D-XR
Total heat recovery	01							Option	Option	Option	Option	Option	Option	Option
Total heat recovery (1 circuit)	02								Option	Option	Option	Option	Option	Option
Partial heat recovery	03		Option	Option	CF	CF	CF	Option	Option	Option	Option	Option	Option	Option
Direct on line starter (DOL)	04		STD	STD	STD	STD	STD							
Wye-Delta compressor starter (Y-D)	05							STD	STD	STD	STD	STD	STD	STD
Soft starter	06							Option	Option	Option	Option	Option	Option	Option
Heat pump version	07													
Heat pump version (including pursuit mode)	07a													
Brine version (down -8°C)	08a (1)													
Brine version (down -10°C)	08b (1)	Option												
Brine version (down -15°C)	08c (1)		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Double setpoint	10		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Compressor thermal overload relays	11		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Fans thermal relays	12													
Phase monitor	13		Option	Option	Option	Option	Option	STD	STD	STD	STD	STD	STD	STD
Inverter compressor starter	14								Option (4)	Option (4)	Option (4)	Option (4)	Option (4)	Option (4)
Under / Over voltage control	15		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Energy meter	16		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Capacitors for power factor correction	17		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Auxiliary relay	18													
Current limit	19							Option	Option	Option	Option	Option	Option	Option
Evaporator victaulic kit	20		STD	STD	STD	STD	STD		STD			STD	STD	STD
Evaporator flange kit	21								Option			Option	Option	Option
Evaporator marine waterbox victaulic (2 passes)	22													
Evaporator marine waterbox victaulic (1 pass)	22a													
Evaporator marine waterbox victaulic (3 passes)	23													
Evaporator marine waterbox flanged (2 passes)	24													
Evaporator marine waterbox flanged (1 pass)	24a													
Evaporator marine waterbox flanged (3 passes)	25													
Condenser double flanges kit	26													
Evaporator water side design pressure (10 Bar)	27								STD	STD	STD	STD	STD	STD
Evaporator water side design pressure (16 Bar)	28													
20mm evaporator insulation	29		STD	STD	STD	STD	STD	Option	Option	STD	STD	Option	Option	Option
Axial fans (100 Pa lift)	30													
McQuiet	31													
Axial fans (250 Pa lift)	32		CF						CF	CF	CF	CF	CF	CF
20mm condenser insulation	33													
Fan silent mode	34													
Fans Speed Control Device (Phase Cut)	35													
Condenser victaulic kit	36													
Condenser flange kit	37													
Condenser marine waterbox victaulic (2 passes)	38													
Condenser marine waterbox victaulic (1 pass)	38a													
Condenser marine waterbox victaulic (3 passes)	39													
Condenser marine waterbox flanged (2 passes)	40													
Condenser marine waterbox flanged (1 pass)	40a													
Condenser marine waterbox flanged (3 passes)	41													
Speedtrol (fan speed control device - ON/OFF - up to -18°C)	42		Option	Option				Option	Option	Option	Option		Option	Option
Speedtrol (fan speed control device - ON/OFF - down to -10°C in cooling)	42a				Option	Option								
Condenser coil guards	43		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Evaporator area guards	44		Option	Option	Option	Option	Option							
Cu-Cu condenser coil	45		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Cu-Cu-Sn condenser coil	46		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option

	Noise & Head Pressure Control			LWE		Electrical			Refrigerant		Condenser
Buffer tank	Low noise	Inverter fans	High ESP fans	High Glycol	Low Glycol	Evaporator heater tape	Main switch	A/V meter	Dual pressure relief valve	Suction stop valve	Coil guards
OPBT	OPLN	OPIF	OPHF	OPZH	OPZL	OP10	OP52	OP57	OP03	OP12	OPCG
						STD					
						STD					
						STD					
						STD					
						STD					
						STD					
			Option	Option	Option	Option					
			Option	Option	Option	Option					
STD			Option	Option	Option	Option					
			Option	Option	Option	Option					
			Option	Option	Option	Option					
STD			Option	Option	Option	Option					
Option	Option	Option(2)			Option	Option	STD	Option	Option	Option(s)	Option
Option	Option	Option(2)			Option	Option	STD	Option	Option	Option(s)	Option
				Option	Option						
				Option	Option						

(s) OP12 & OP03 need to be added to meet Swedish national law 1992: 16 (1) Impossible option combination: OPZH+OPZL (2) Not available with option OPLN

Nomenclature for air-cooled B and C series:

E	W	A	D	4	6	0	B	Z	X	S
1	2	3	4	5	6	7	8	9	10	11

9 Inverter
-: non-inverter
Z: inverter

10 Efficiency level
S: Standard
X: High
P: Premium

11 Sound level
S: Standard
L: Low
R: Reduced

EWAD-D-HS	EWAD-BZ	EWAD-C-	EWAD-CZ	EWAQ-GZ	EWYQ-GZ	EWAD-CF	EWYD-BZSS	EWYD-BZSL	ERAD-E-	EWWQ-B-	EWWD-J-SS	EWWD-G-	EWWD-I-SS	EWWD-I-XS	EWWD-H-XS	EWLD-J-SS	EWLD-G-SS	EWLD-I-SS	EWWD-FZXS
Option	Option	Option	Option						Option			Option	Option						
Option	Option																		
Option	Option	Option	Option				Option	Option	Option	Option		Option	Option	Option			Option		
STD		STD				STD			STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
Option		Option				Option			Option	Option	Option (4)	Option	Option	Option	Option	Option (4)	Option	Option	
															Option				
											Option	Option	Option	Option					
	Option	Option	Option			Option	Option	Option		Option	Option	Option	Option	Option	NC-SO	Option	Option	Option	
				Option	Option														
Option																			
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD		STD	STD	
Option		Option	STD			Option			Option	Option	Option	Option	Option	Option	Option		Option	Option	
STD	STD	STD	STD	Option	Option	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
Option (4)	STD		STD				STD	STD											STD
Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	
Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Option		Option				Option			Option	Option	Option	Option	Option	Option	Option		Option	Option	
Option	Option	Option	Option			Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	STD
	STD	STD	STD	STD	STD		STD	STD		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
		Option	Option			STD													
															Option				CF
															Option				
															Option				
															Option				
										Option	Option	Option	Option	Option	Option				Option
STD										STD		STD	STD	STD	STD		STD	STD	STD
STD	Option	STD	STD	STD	STD	STD	Option	Option		Option	STD	Option	Option	Option	STD	STD	Option	Option	STD
CF																			
										Option	Option	Option	Option	Option	Option				Option
										Option	STD	Option	Option	Option	STD				STD
															Option				CF
															Option				
															Option				
															Option				
Option		Option	Option	Option	Option				Option										
Option	Option	Option	Option	Option	Option	Option	Option	Option	Option										
		Option	Option	Option	Option	Option													
Option	Option	Option	Option	Option	Option	Option	Option	Option	Option										
Option	Option	Option	Option	Option	Option	Option	Option	Option	Option										

Options - Medium and large chillers (Part 2)

Description	Code	EWAQ~BAW EWYQ~BAW	EWAQ-E-XS EWAQ-F-SS/XS	EWAQ-E-XL/XR EWAQ-F-SL/XR/ XL/XR	EWYQ-F-XS	EWYQ-F-XL	EWYQ-F-XR	EWAD-E-	EWAD-D-SS	EWAD-D-SL	EWAD-D-SR	EWAD-D-SX	EWAD-D-XS	EWAD-D-XR
Condenser water side design pressure (16 Bar)	47													
Condenser water side design pressure (10 Bar)	47a													
Alucoat fins coil	49		Option	Option	STD	STD	STD	Option	Option	Option	Option	Option	Option	Option
Cu-Ni 90-10 condenser tubes	50													
Condenser 1 pass (ΔT 4-8 °C)	51													
Condenser 2 passes (ΔT 4-8 °C)	52													
Condenser 2 passes (ΔT 9-15 °C)	53													
Condenser 4 passes	54													
Water pressure differential switch on condenser	55													
Water pressure differential switch on evaporator	56									STD	STD			
Evaporator electric heater	57	Option	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Evaporator flow switch	58		STD	STD	STD	STD	STD	Option	Option	Option	Option	Option	Option	Option
Condenser flow switch	59													
Electronic expansion valve	60		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Discharge line shut-off valve	61		Option	Option	Option	Option	Option	STD	STD	STD	STD	STD	STD	STD
Suction line shut-off valve	62		Option	Option	Option	Option	Option	STD	STD	STD	STD	STD	STD	STD
High pressure side manometers	63		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Low pressure side manometers	64		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Ambient outside temperature sensor and setpoint reset	67		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Hour run meter	68		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
General fault contactor	69		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Container Kit	71		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Rubber anti vibration mounts	75		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Sound proof system	76													
Sound proof system (integral)	76-a													
Sound proof system (compressor)	76-b													
Spring anti vibration mounts	77		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
One centrifugal pump (low lift)	78	Option						Option						
One centrifugal pump --- SPK1	78-a		Option	Option	Option	Option	Option			Option	Option			
One centrifugal pump --- SPK2	78-b		Option	Option	Option	Option	Option			Option	Option			
One centrifugal pump --- SPK3	78-c		Option	Option	Option	Option	Option			Option	Option			
One centrifugal pump --- SPK4	78-d		Option	Option	Option	Option	Option			Option	Option			
One centrifugal pump --- SPK5	78-e								Option				Option	Option
One centrifugal pump --- SPK6	78-f								Option				Option	Option
One centrifugal pump --- SPK7	78-g								Option				Option	Option
One centrifugal pump --- SPK8	78-h								Option				Option	Option
One centrifugal pump --- SPK9	78-i												Option	
One centrifugal pump --- SPK10	78-j												Option	
One centrifugal pump --- SPK1a	78-l				Option	Option	Option							
One centrifugal pump --- SPK1b	78-m				Option	Option	Option							
One centrifugal pump --- SPK1c	78-n				Option	Option	Option							
One centrifugal pump (high lift)	79	Option						Option						
Two centrifugal pump (low lift)	80													
Two centrifugal pump --- DPK1	80-a									Option	Option			
Two centrifugal pump --- DPK2	80-b									Option	Option			
Two centrifugal pump --- DPK3	80-c									Option	Option			
Two centrifugal pump --- DPK4	80-d									Option	Option			
Two centrifugal pump --- DPK5	80-e								Option				Option	Option
Two centrifugal pump --- DPK6	80-f								Option				Option	Option
Two centrifugal pump --- DPK7	80-g								Option				Option	Option
Two centrifugal pump --- DPK8	80-h								Option				Option	Option
Two centrifugal pump (high lift)	81													
Witness test	82													
External tank without cabinet (500 L)	83 (3)		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
External tank without cabinet (1000 L)	84 (3)		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
External Tank (500 L) With CABINET RAL 7042	85													
External Tank (1000 L) With CABINET RAL 7042	86													
External tank with cabinet (500 L)	87 (3)		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
External tank with cabinet (1000 L)	88 (3)		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Acoustic test	89													
Setpoint reset, Demand limit and Alarm from external device	90		Option	Option	Option	Option	Option	STD	STD	STD	STD	STD	STD	STD
Double pressure relief valve with diverter	91		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
PW COMPRESSOR - PART WINDING START	92													
Low ambient kit for 1 circuit	93													
Low ambient kit for 2 circuits	94													
Compressors circuit breakers	95		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Fans circuit breakers	96		Option	Option	Option	Option	Option	STD	STD	STD	STD	STD	STD	STD
Main switch interlock door	97		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Emergency stop	98													
Fans speed regulation (+ fan silent mode)	99 (2)		Option	Option				Option	Option	Option	Option	STD	Option	Option
Fans speed regulation (inverter)	99a (2)				Option	Option	STD							
Refrigerant recovery unit	100													
Evaporator right water connections	101								SO	SO	SO	SO	SO	SO
Ground fault relay	102		Option	Option	Option	Option	Option							
Evaporator 1 pass	103													
Evaporator 2 passes	103a													
Evaporator double flange kit	104													
Liquid receiver	105													
Evaporator right water connections	106													
Rapid restart	110													
High temperature kit	111													
Transport kit	112		Option	Option	Option	Option		Option	Option	Option	Option	Option	Option	Option
Optimized free cooling (VFD fans regulation)	113-a													
Optimized free cooling (On/Off fans)	113-b													
Nordic kit	114				Option	Option	Option							
Water filter	115		STD	STD	STD	STD	STD							
Condenser coil protection panels	116		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Blygold coil treatment	117		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option

(1) Option 08 includes option 29 - (2) Option 99(a) includes 'Fan overload protection' - (3) Piping between the inertial tank and the unit is not included. Electric heater power supply has to be provided from external source - (4) The order of soft starter will have an impact on the delivery time: please contact the factory - (5) Unit performance will be affected; contact factory for information. It is mandatory to order the option 26 when selecting CU-Ni 90-10 condenser tubes - (6) Sound proof system - compressor enclosure - (7) Compressor enclosure - (8) Soundproof cabinet will be supplied in a separate kit and not assembled. For better performance the cabinet will be integral kind (around the whole chiller, not only around compressors). Cabinet assembly is not included in the supply (9) Special transport is required (flat rack truck and open top when option 01 is selected) for model sizes as follows: EWWDC12I-SS - EWWDC18I-SS

EWAD-D-HS	EWAD-BZ	EWAD-C-	EWAD-CZ	EWAQ-GZ	EWYQ-GZ	EWAD-CF	EWYD-BZSS	EWYD-BZSL	ERAD-E-	EWWQ-B-	EWWD-J-SS	EWWD-G-	EWWD-I-SS	EWWD-I-XS	EWWD-H-XS	EWLD-J-SS	EWLD-G-SS	EWLD-I-SS	EWWD-FZXS
										STD	STD	STD	STD	STD					
															STD				STD
Option	Option	Option	Option		STD	Option	Option	Option	Option										
										Option	Option(5)	Option (5)	Option (5)	Option (5)	Option (5)		Option (5)		Option (5)
												STD	STD		NC-SO		STD		
											STD			STD	STD				STD
													NC-SO						
														NC-SO					
															Option				STD
STD				STD	STD										Option				STD
STD	STD	STD	STD	STD	STD	STD	STD	STD		Option									
Option	Option	Option	Option			Option	Option	Option		Option	STD	Option	Option	Option	Option	STD	Option	Option	Option
															Option				Option
STD	STD	STD	STD	STD	STD	STD	STD	STD		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
STD	STD	STD	STD	Option	Option	STD	STD	STD	STD	Option	STD	STD	Option	Option	STD	STD	STD	Option	
STD	STD	Option	STD	Option	Option	Option	STD	STD	STD	Option	STD	STD	Option	Option	Option	STD	STD	Option	Option
Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Option	Option	Option	Option	Option	Option	Option	Option	Option		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD										
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Option	Option	Option	Option	Option	Option		Option	Option	Option	Option (11)	Option	Option	Option (9)	Option	Option	Option	Option	Option (11)	Option
Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
										Option			Option (8)	Option (8)	Option (8)			Option (8)	Option (8)
											Option (6)	Option (7)				Option (6)	Option (7)		
Option	Option	Option	Option	Option	Option	Option	Option	Option	Option										
	Option			Option	Option		Option												
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STD	Option	STD	STD	Option	Option	STD	Option	Option	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Option	Option	Option	Option			Option	Option	Option	Option	Option	Option	Option	Option	Option	STD	Option	Option	Option	STD
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STD	STD	STD	STD	STD	STD	STD			STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
		STD	STD			STD				STD	STD	STD	STD	STD	STD	STD	STD	STD	
Option	STD	Option	Option			STD	Option	STD	Option										
		CF	CF																
SO	SO	SO	SO			SO	Option	SO											
		Option	Option	Option	Option	Option				Option	Option	Option	Option	Option	Option	Option	Option	Option	
															NC-SO				NC-SO
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										Option		Option	Option	Option	Option		Option	Option	Option
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		Option	Option			Option													
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Option	Option	Option	Option	Option	Option		Option	Option	Option	Option (12)	Option	Option	Option (10)	Option	Option	Option	Option	Option (12)	Option
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				STD	STD		Option	Option											
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Option	Option	Option	Option			Option	Option	Option	Option										
Option		Option	Option			Option			Option										

(10) Forklift loading-unloading operations are not allowed when option 01 is selected for model sizes as follows: EWWDC12I-SS - EWWDC18I-SS - (11) Special Transport is required (flat rack truck and open top) for model sizes as follows: EWLDC10I-SS - EWLDC17I-SS or EWWQC11B-SS - EWWQC20B-SS or EWWQC10B-XS, EWWQC12B-XS - EWWQC21B-XS - (12) Forklift loading-unloading operations are not allowed for model sizes as follows: EWLDC10I-SS - EWLDC17I-SS or EWWQC11B-SS - EWWQC20B-SS or EWWQC10B-XS, EWWQC12B-XS - EWWQC21B-XS - (13) CF = Contact the factory - STD = Standard - SO = Specify at Order entry - NC = No additional cost

Accessories - Chillers

		Air cooled chillers							
	EWA/YQ009-011ACV3 EWA/YQ009-013ACW1	EUWA/Y*-KBZW1	EWA/YQ~BA*	EWA/YQ-DAYN	EWAD-E- ERAD-E-	EWAD~D-	EWA(Y)D~BZ	EWAD~C-	EWAD~CZ
Panels									
EKDSSP							•		
EKDSSP-S***					•	•		•	•
EKDDSP					•	•	•	•	•
EKPWPRO							•		
EKPWPROM							•		
Serial Cards & Comm. Modules									
EKAC10C		•							
EKACPG				•					
EKAC200J							•		
EKACBAC							•		
EKACLON							•		
EKACLONP							•		
EKACRS232							•		
EKACWEB							•		
EKACBACMSTP							•		
EKACBACCERT									
EKCM200J					•	•		•	•
EKCMLON					•	•		•	•
EKCMBACMSTP					•	•		•	•
EKCMBACIP					•	•		•	•
LON Gateway									
EKLONPG									
Other Systems & Accessories									
EKCLWS									
EKCON							•		
EKCONUSB							•		
EKMODEM							•		
EKGSMOD							•		
EKRP1HB	•								
EKRUPCJ							•		
EKRUPCK									
EKRUPCS					•	•		•	•
EKPV2J							•		
EKPWPROEXT							•		
EKGWWEB							•		
EKGWMODEM							•		
EKBNPG									
EKBMSBNA									
EKBMSMBA									
EKRUMCA		•							
EKRUPC									
EKRUPG				•					
EHMC*									
EKRP1AHT			•						
DTA104A62			•						
EKRUAHTB			•						
Gauges									
EKGAU5/8KA		• (5-8)							
EKGAU10/12KA		• (10-12)							
EKGAU16KA		• (16)							
EKGAU20/24KA		• (20-24)							
BHGP26A1			•						
Soft starter									
EKSS		•							
Buffer tank									
EKBT		•							
Waterpipe kit									
EKGN210				• (080-210)					
EKGN260				• (EWAQ240-260DAYN & EWYQ230-250DAYN)					

* To install EKRUMCA => EKAC10C needs to be installed on the unit.

* EKAC10C allows direct connection to MODBUS BMS system

* To install EKLONPG & EKBNPG => EKACPG needs to be installed on the unit.

			Water cooled chillers						
EWAD-CF	EWAQ-E-/F- EWYQ-F-	EWAQ-GZ EWYQ-GZ	EWW(L)P-KBW1N	EWW(L)D~G-	EWW(L)D~I-	EWWD~H-	EWWQ~B-	EWW(L)D~J-	DWSC & DWDC EWWD-FZXS
									•
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			•						
			•						
			• (014-045)						

Accessories - Fan coil units

	FWM~D / FWL~D / FWV~D										FWS~A / FWR~A / FWZ~A			
Network & control systems	1	15	2	25	3	35	4	6	8	10	2	3	6	8
Wired remote control (Standard)	FWEC1A										-			
Wired remote control (Advanced)	FWEC2A										-			
Wired remote control (Advanced Plus)	FWEC3A										FWEC3A			
Controller electromechanical	ECFWMB6										-			
On board mounting kit	FWECKA										FWECKA			
Wall mounting kit	FWFCKA										FWFCKA			
Wired remote control (Cooling only)	-										-			
Wired remote control (Heat pump)	-										-			
Wireless controller (Cooling only)	-										-			
Wireless controller (Heat pump)	-										-			
Temperature sensor kit	FWTSKA										FWTSKA			
Relative humidity sensor kit	FWHSKA										FWHSKA			
Fan stop thermostat	YFSTA6										-			
Master slave interface	EPIMSB6										-			
Power interface	-										-			
Optional PCB for MOD-bus connection	-										-			

	FWM~D / FWL~D / FWV~D										FWS~A / FWR~A / FWZ~A			
Valves	1	15	2	25	3	35	4	6	8	10	2	3	6	8
3-ways 230V on/off valve kit (2-pipe)	E2MV03A6						E2MV06A6		E2MV10A6		E2MV03A6			E2MV10A6
3-ways 230V on/off valve kit (4-pipe)	E1MV03A6						E4MV06A6		E4MV10A6		E4MV03A6			E4MV10A6
2-ways 230V on/off valve kit (cooling heat exchanger)	E2MV2B07A6								E2MV2B10A6		E2MV2B07A6			E2MV2B10A6
2-ways 230V on/off valve kit (additional heat exchanger)	E2MV2B07A6										E2MV2B07A6			
Simplified 3-ways 230V on/off valve kit (2-pipe)	E2MVD03A6						E2MVD06A6		E2MVD10A6		E2MVD03A6		E2MVD06A6	E2MVD10A6
Simplified 3-ways 230V on/off valve kit (4-pipe)	E4MVD03A6						E4MVD06A6		E4MVD10A6		E4MVD03A6		E4MVD06A6	E4MVD10A6
3-ways 24V on/off valve kit (2-pipe)	E2M2V03A6						E2M2V06A6		E2M2V10A6		E2M2V03A6		E2M2V06A6	E2M2V10A6
3-ways 24V on/off valve kit (4-pipe)	E4M2V03A6						E4M2V06A6		E4M2V10A6		E4M2V03A6		E4M2V06A6	E4M2V10A6
3-ways proportional valve kit (2-pipe)	E2MPV03A6						E2MPV06A6		E2MPV10A6		-			
3-ways proportional valve kit (4-pipe)	E4MPV03A6						E4MPV06A6		E4MPV10A6		-			
2-ways 24V on/off valve kit (cooling heat exchanger)	E2M2V207A6								E2M2V210A6		E2M2V207A6			E2M2V210A6
2-ways 24V on/off valve kit (additional heat exchanger)	E2M2V207A6										E2M2V207A6			
2-ways proportional valve kit (cooling heat exchanger)	E2MPV207A6								E2MPV210A6		-			
2-ways proportional valve kit (additional heat exchanger)	E2MPV207A6										-			
3-ways 230V on/off valve kit (additional heat exchanger)	-										-			
2-ways 230V on/off valve kit (2-pipe)	-										-			
2-ways 230V on/off valve kit (4-pipe)	-										-			

	FWF~C
Panels	**All sizes**
Decoration panel 600x600 (2-pipe)	DCP600TB
Decoration panel 4-way blow	-
Decoration panel round flow cassette standard	-

FWD~A							FWB~B			FWP~A		FWE ~C	FWT~C	FWC~B	FWF~C	FWF~B
4	6	8	10	12	16	18	2-4	5-7	8-10	2-4	5-7	All sizes	All sizes	All sizes	All sizes	All sizes
FWEC1A							FWEC1A			-		FWEC1A	MERCA	BRC315D	MERCA	BRC315D
FWEC2A							FWEC2A			-		FWEC2A	-	-	-	-
FWEC3A							FWEC3A			FWEC3A		FWEC3A	-	-	-	-
-							-			-		-	-	-	-	-
-							-			-		-	-	-	-	-
FWFCKA							FWFCKA			FWFCKA		FWFCKA	-	-	-	-
-							-			-		-	SRC-COB	-	SRC-COB	-
-							-			-		-	SRC-HPB	-	SRC-HPB	-
-							-			-		-	-	-	-	-
-							-			-		-	WRC-HPC	-	-	-
FWTSKA							FWTSKA			FWTSKA		FWTSKA	-	-	-	-
FWHSKA							FWHSKA			FWHSKA		FWHSKA	-	-	-	-
YFSTA6							YFSTA6			-		-	-	-	-	-
EPIMSB6							EPIMSB6			-		EPIMSB6	-	-	-	-
-					EPIB6		-			-		-	-	-	-	-
-							-			-		-	-	EKFCMBCB	-	EKFCMBCB

FWD-A							FWB~B			FWP~A		FWE~C	FWC~B	FWF~C	FWF~B
4	6	8	10	12	16	18	2-4	5-7	8-10	2-4	5-7	All sizes	All sizes	All sizes	All sizes
ED2MV04A6	ED2MV10A6			ED2MV12A6	ED2MV18A6		-			-		EK2MV3B10C5	EKMV3C09B	MCKCW2T3VN	EKMV3C09B
ED2MV04A6	ED2MV10A6			2x ED2MV12A6	2x ED2MV18A6		-			-		EK4MV3B10C5	2 x EKMV3C09B	-	2 x EKMV3C09B
-							-			-		-	-	-	-
-							E2MV207A6		E2MV210A6	E2MV207A6		-	-	-	-
-							-			-		-	-	-	-
-							-			-		-	-	-	-
-							-			-		-	-	-	-
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-							-			-		-	-	-	-
-							-			-		-	-	-	-
-							-			-		-	-	-	-
-							E2MV307A6		E2MV310A6	E2MV307A6		-	-	-	-
-							-			-		EK2MV2B10C5	EKMV2C09B	-	EKMV2C09B
-							-			-		EK4MV2B10C5	2 x EKMV2C09B	-	2 x EKMV2C09B

Accessories - Fan coil units and air handling units

	FWM~D / FWL~D / FWV~D										FWS~A / FWR~A / FWZ~A			
Other accessories	**1**	**15**	**2**	**25**	**3**	**35**	**4**	**6**	**8**	**10**	**2**	**3**	**6**	**8**
Electric heater (Standard)	EEH01A6	EEH02A6		EEH03A6		EEH06A6			EEH10A6		EEH02A6	EEH03A6	EEH06A6	EEH10A6
Electric heater (Big)	-										-			
Fresh air intake	EFA02A6			EFA03A6		EFA06A6			EFA10A6		EFA02A6	EFA03A6	EFA06A6	EFA10A6
Additional heat exchanger	ESRH02A6			ESRH03A6		ESRH06A6			ESRH10A6		ESRH02A6	ESRH03A6	ESRH06A6	ESRH10A6
Air intake & discharge grille	EAIDF02A6			EAIDF03A6		EAIDF06A6			EAIDF10A6		EAIDF02A6	EAIDF03A6	EAIDF06A6	EAIDF10A6
Rear panel	ERPV02A6			ERPV03A6		ERPV06A6			ERPV10A6		ERPV02A6	ERPV03A6	ERPV06A6	ERPV10A6
Supporting feet	ESFV06A6								ESFV10A6		ESFV06A6			ESFV10A6
Supporting feet & grille	ESFVG02A6			ESFVG03A6		ESFVG06A6			ESFVG10A6		ESFVG02A6	ESFVG03A6	ESFVG06A6	ESFVG10A6
Plenum box with circular connections	EPCC02A6 (only for FWM-D)			EPCC03A6 (only for FWM-D)		EPCC06A6 (only for FWM-D)			EPCC10A6 (only for FWM-D)		EPCC02A6 (only for FWS-A)	EPCC03A6 (only for FWS-A)	EPCC06A6 (only for FWS-A)	EPCC10A6 (only for FWS-A)
Vertical auxiliary drainpan	EDPVB6										EDPVB6			
Horizontal auxiliary drainpan	EDPHB6										EDPHB6			

Mechanical options	**FWC-BT/BF**	**FWF-BT/BF**
Decoration Panel - Standard (Round flow)	BYCQ140CW1	-
Decoration Panel - White (Round flow)	BYCQ140CW1W	-
Decoration Panel (4-way blow)	-	BYFQ60B
Sealing member of air discharge outlet	KDBHQ55C140	KDBH44BA60
Long-life filter	KAFP551K160	KAFQ441BA60
Fresh air intake kit (20% fresh air) (Direct installation)	KDDQ55C140	-
Fresh air intake kit (Direct installation)	-	KDDQ44XA60
Panel spacer	KDBQ44B60	-

Control options	**FWF-BT/BF**	**FWC-BT/BF**
Infrared remote control (H/P)	BRC7E530	BRC7F532F
Infrared remote control (C/O)	BRC7E531	BRC7F533F
Remote sensor	KRCS01-1	KRCS01-4
Remote ON / OFF	EKROROA	-

Control options	**FWF-BT/BF- FWC-BT/BF**
Remote control wired	BRC315D7
Central remote control	DCS302CA51
Intelligent touch controller	DCS601C51C
Unified ON/OFF controller	DCS301BA51
Electrical installation box with earth terminal (2 blocks)	KJB212A
Electrical installation box with earth terminal (3 blocks)	KJB311A
Electrical installation box	KJB411A
Schedule timer	DST301BA51
Wiring adapter for electrical appendices	KRP4AA53
Wiring adapter for electrical appendices	KRP2A52
Noise filter (for electromagnetic interface use only)	KEK26-1A
Installation box for adaptor PCB	KRP1BA101
Installation box for adaptor PCB	KRP1H98
Optional PCB for MOD-bus connection	EKFCMBCB7
2-way valve - On / Off	EKMV2C09B7
3-way valve - On / Off	EKMV3C09B7
Valve control PCB	EKRP1C11

FWD-A							FWB~B			FWP~A	
4	6	8	10	12	16	18	2-4	5-7	8-10	2-4	5-7
EDEH04A6	EDEHS06A6	EDEHS10A6		EDEHS12A6	EDEHS18A6		Factory mounted			Factory mounted	
EDEH04A6	EDEHB06A6	EDEHB10A6		EDEHB12A6	EDEHB18A6		-			-	
EDMFA04A6	EDMFA06A6	EDMFA10A6		EDMFA12A6	EDMFA18A6		-			-	
-							EAH04A6	EAH07A6	EAH10A6	EAH04A6	EAH07A6
-							-			-	
-							-			-	
-							-			-	
-							-			-	
-							-			-	
EDDPV10A6 17				EDDPV18A6 17			-			-	
EDDPH10A6 21				EDDPH18A6 21			-			-	

D-AHU PROFESSIONAL

Construction type		SP 65	SP 45	FP 50	FP 25
Profile	Aluminium	standard	standard	standard	standard
	Anodized aluminium	option	option	option	option
	Aluminium with thermal break	option	option	option	option
	Anodized aluminium with thermal break	option	option	option	option
Corner	Glass fibre reinforced nylon	standard	standard	standard	standard
Panel insulation	Polyurethane foam density 45 kg/m³ thermal conductivity 0.020 W/m*K fire reaction class 1	standard	standard	standard	standard
	Mineral wool density 90 kg/m³ thermal conductivity 0.037 W/m*K (referred to 20°C) fire reaction class 0	option	option	option	option
External sheet material	Grey Plastisol covered galvanized steel	standard	standard	standard	standard
	Pre-coated galvanized steel	option	option	option	option
	Galvanized steel	option	option	option	option
	Aluminium	option	option	option	option
	AISI 304 stainless steel	option	option	option	option
Internal sheet material	Galvanized steel	standard	standard	standard	standard
	Pre-coated galvanized steel	option	option	option	option
	Grey Plastisol covered galvanized steel	option	option	option	option
	Aluminium	option	option	option	option
	AISI 304 stainless steel	option	option	option	option
Base frame	Aluminium	standard (from size 1 to size 17)	standard (from size 1 to size 17)	standard (from size 1 to size 17)	standard (from size 1 to size 17)
	Galvanized steel	standard (from size 18 to size 27)	standard (from size 18 to size 27)	standard (from size 18 to size 27)	standard (from size 18 to size 27)
Handle	Glass fibre reinforced nylon	standard	standard	standard	standard
Type	Compression type	standard	standard	standard	standard
	Hinge function type (possibility to remove door)	option	option	option	option

D-AHU EASY

Construction type		DS 50	DS 25
Profile	Aluminium	Standard	Standard
Corner	Glass fibre reinforced nylon	Standard	Standard
Panel insulation	Polyurethane foam thermal conductivity 0.024 W/m*K	Standard (density 45 kg/m³)	standard (density 47 kg/m³)
External sheet material	Pre-coated galvanized steel (RAL 9002)	Standard	Standard
Internal sheet material	Galvanized steel	Standard	Standard
Base frame	Aluminium	Standard	Standard
Handle	Glass fibre reinforced nylon	Standard	Standard
Type	Compression type	Standard	Standard

Options - Refrigeration

		LRYEQ16AY1	LREQ5BY1	LREQ6BY1	LREQ8BY1	LREQ10BY1	LREQ12BY1	LREQ15BY1	LREQ20BY1	LREQ15BY1R	LREQ20BY1R
Digital pressure gauge kit		BHGP26A1	BHGP26A1								
Pressure gauge kit		-	KHGP26B140							-	
Snowbreak hood	Kit (Inlet + Outlet)	KPS26C504	KPS26C160		KPS26C280			KPS26C504		-	
	Air outlet	KPS26C504T	KPS26C160T		KPS26C280T			KPS26C504T		-	
	Left side air inlet	KPS26C504L	KPS26C504L							-	
	Right side aire inlet	KPS26C504R	KPS26C504R							-	
	Back side air inlet	KPS26C504B	KPS26C160B		KPS26C280B			KPS26C504B		-	
Central drain pan kit		KWC26C450	KWC26C160		KPS26C280			KPS26C450		KPS26C450*	
Communication box		BRR9AV1	BRR9AV1							BBR9A1V1**	
Booster unit		-	LCBKQ3AV19							-	
Suction branch pipe for multi		-	-							EKHRQ7M7 ***	

* required for each module

** software update required (to be executed during commissioning)

*** obligatory

Options - Control systems

		DCM601A51	DMS504B51	DMS502A51
		intelligent Touch Manager	LonWorks Interface	BACnet Interface
iTM plus adapter		DCM601A52		
iTM integrator		DCM601A53		
iTM ppd software		DCM002A51		
iTM energy navigator software		DCM008A51		
WAGO I/O	Modbus communication unit	WGDCMCPLR		
	DC24V power supply unit:	787-712		
	DC24V power supply unit:	750-613		
	Connector:	750-960		
	Terminator module:	750-600		
	Di module:	750-400, 750-432		
	Do module:	750-513/000-001		
	Ai module:	750-454, 750-479		
	Thermistor module:	750-461/020-000		
Interface adapter for connection to RA units			KRP928A2S	KRP928A2S
Interface adapter for connection to R-407C/R-22 Sky Air units			DTA102A52	DTA102A52
Interface adapter for connection to R-410A Sky Air units			DTA112B51	DTA112B51
DIII board				DAM411B51
Digital input/output				DAM412B51

Options - Heating

Daikin Altherma hybrid heat pump	
Remote user interface (DE, FR, NL, IT)	EKRUCBL1
Remote user interface (EN, SV, NO, FI)	EKRUCBL2
Remote user interface (EN, ES, EL, PT)	EKRUCBL3
Remote user interface (EN, TR, PL, RO)	EKRUCBL4
Remote user interface (DE, CS, SL, SK)	EKRUCBL5
Remote user interface (EN, HR, HU, BG)	EKRUCBL6
Remote user interface (EN, DE, RU, DA)	EKRUCBL7
Propane set	EKHY075787
Concentric connection Ø 80/125	EKHY090717
Eccentric connnection Ø 80	EKHY090707
Cover plate 35	EKHY093467
Installation jig	EKHYMNT1
Drain pan for reversible H/B	EKHYDP1
Thermistor recirculator	EKTH2
Roof Terminal PP/GLV 60/100 AR460	EKFGP6837
Weather Slate Steep Pb/GLV 60/100 18°-22°	EKFGS0518
Weather Slate Steep Pb/GLV 60/100 23°-27°	EKFGS0519
Weather Slate Steep PF 60/100 25°-45°	EKFGP7910
Weather Slate Steep Pb/GLV 60/100 43°-47°	EKFGS0523
Weather Slate Steep Pb/GLV 60/100 48°-52°	EKFGS0524
Weather Slate Steep Pb/GLV 60/100 53°-57°	EKFGS0525
Weather Slate Flat Alu 60/100 0°-15°	EKFGP1296
Weather Slate Flat Alu 60/100	EKFGP6940
Wall Terminal Kit PP/GLV 60/100	EKFGP2978
Wall Terminal Kit low profile PP/GLV 60/100	EKFGP2977
Extension PP/GLV 60/100 x 500mm	EKFGP4651
Extension PP/GLV 60/100 x 1000mm	EKFGP4652
Elbow PP/GLV 60/100 30°	EKFGP4664
Elbow PP/GLV 60/100 45°	EKFGP4661
Elbow PP/GLV 60/100 90°	EKFGP4660
Meas. Tee with Inspection Panel PP/GLV 60/100	EKFGP4667
Wall Bracket Dn.100	EKFGP4631
Wall Terminal Kit PP/GLV 60/100	EKFGP1292
Wall Terminal Kit low profile PP/GLV 60/100	EKFGP1293
Plume Managment Kit 60 UK Only	EKFGP1294
Flue Deflector 60 UK Only	EKFGP1295
PMK Elbow 60 90 UK Only	EKFGP1284
PMK Elbow 60 45° (2 pcs) UK Only	EKFGP1285
PMK Extension 60 L=1000 incl. breaket UK Only	EKFGP1286

Daikin Altherma low temperature split	4-8 kW	11-16 kW
Drain pan for outdoor (excl heater)	EKDP008CA	
Drain pan heater	EKDPH008CA	
U-beams for outdoor	EKFT008CA	
Remote sensor for outdoor	EKRSCA1	
User interface (EN, DE, FR, NL, IT, ES)	EKRUCAL1	
User interface (EN, SV, NO, CS, TR, PT)	EKRUCAL2	
Indoor drain pan for new wall mounted H/B	EKHBDPCA2	
PC cable	EKPCCAB1	
Digital I/O PCB		EKRP1HBAA
Bottom plate heater		EKBPHTH16A
Drain kit		EKDK04
Snowcover		EK016SNCA
Demand PCB		EKRP1AHTA
Remote indoor sensor		KRCS01-1B
Drain pan for indoor wall munted		EKHBDPCA2
Booster heater for tank integrated design		EKBSHCA3V3

Daikin Altherma low temperature monobloc	6-8 kW	11-16 kW
Back up heater	EKBUHBA6V3	
Cable	EKCOMCAB1	
Digital I.O PCB		EKRP1HBAA
Bottom plate heater		EKBPHTH16A
Drain kit		EKDK04

Daikin Altherma Flex Type

options for outdoor unit	EKHVMRD	EKHVMYD
Refnet header	KHRQ(M)22M29H8	KHRQ(M)23M29H8
Refnet header	KHRQ(M)22M64H8	KHRQ(M)23M64H8
Refnet joint	KHRQ(M)22M20T8	KHRQ(M)23M20T8
Refnet joint	KHRQ(M)22M29T8	KHRQ(M)23M29T8
Refnet joint	KHRQ(M)22M64T8	KHRQ(M)23M64T8
central drain pan kit	KWC25C450	KWC25C450

options for indoor unit	
Stand alone kit	EKFMAHTB
I/O PCB	EKRP1HBAA
Demand PCB	EKRP1AHTA
Remote user interface	EKRUAHTB
Individual billing - connection kit	EKMBIL1
Back up heater kit	EKBUHAA6V3
Back up heater kit	EKBUHAA6W1

Daikin Altherma high temperature split	
Bottom plate heater	EKBPHTH16A
Digital I/O PCB	EKRP1HBAA
Demand PCB	EKRP1AHTA
Remote user interface	EKRUAHTB
Back up heater for HT	EKBUHAA6V3
Back up heater for HT	EKBUHAA6W1
Refrigerant stop valves	EKRSVHTA
UK tank kit	EKUHWHTA
Compatibility kit 1	EKMKHT1A
Compatibility kit 2	EKMKHT2A

Tanks	EKHWS	EKHWP	EKHTS
Wall bracket	EKWBSWW150		
Connection kit EKHWP300 for low temperature (heating only / heating and cooling)		EKDVCPLT3HX	
Connection kit EKHWP500 for low temperature (heating only)		EKDVCPLT5H	
Connection kit EKHWP500 for low temperature (heating and cooling)		EKDVCPLT5X	
Connection kit for high temperature and VRV indoor HXHD125 (EKHWP300/EKHWP500)		EKEPHT3H / EKEPHT5H	
Connection kit for Daikiin Altherma Flex Type (heating only)		EKEPHT3H	
Connection kit for Daikiin Altherma Flex Type (heating and cooling)		EKEPHT3H + 156034	
3 way valve		3-W-UV2	
Booster heater with melting fuse (900mm)		EKBH3S	
Option kit (EKHTS / EKHTSU)			EKFMALTA / EKUHWHTA

Heat pump convector	
Valve kit	EKVKHPC

Solar collectors	
Mounting kit on roof (antracite)	EKSRCAP
Mounting kit on roof (red)	EKSRCRP
Mounting kit on roof (excl. Roof tile)	EKSRCP
Gravity brake	16 50 70
Flow sensor	FLS12
Flow regulating valve with flow rate indicator	FLG
Connection set for additional heat source	EWS
Hot water recirculation kit	ZKL
Thermostatic antiscald mixing valve + 1" screw connection set	VTA32 + 156016
Solar Expansion vessel 12l	MAGS12
Solar Expansion vessel 25l	MAGS25
Solar Expansion vessel 35l	MAGS35
Pressureless Connection piping between solar panel & pump station: 15 meter	CON 15
Pressureless Connection piping between solar panel & pump station: 20 meter	CON 20
Unpressurised elongation pipe 2.5 m including couplings	CON X 25
Unpressurised elongation pipe 5 m including couplings	CON X 50
Unpressurised elongation pipe 10 m including couplings	CON X 100
Unpressurised elongation for inlet pipe 8 meter	CON XV 80
Pressure solar pipe DN16 - 15m	CON15P16
Connectors DN16	CONXP16
Pressure solar pipe DN20 - 15m	CON15P20
Connectors DN20	CONXP20
Connectors DN20	CON CP16
Connectors DN20	CON CP20
Mounting kit IN-ROOF	RCIP
Mounting kit FLAT ROOF	RCFP
Additional roof breakthrough for opposite side connection	CON FE
Connection kit between 2 solar panels	FIX VBP
Connection kit between 2 rows of Collectors	CON RVP
Connection kit between 2 rows of Collectors	CON LCP
Mounting support for V26P	FIX MP 130
Mounting support for H26P	FIX MP 200
Mounting support for V21P	FIX MP 100
Suporting shell for pressureless connection pipe	TS
Standard mounting set for on-roof mounting suitable for roof tiles	FIX AD
Variable height mounting set for on-roof mounting suitable for roof tiles	FIX ADP
Mounting set for on-roof mounting	FIX ADD
Mounting set for on-roof mounting suitable for flat tiles e.g. shingles	FIX ADS
Mounting set for on-roof mounting suitable for corrugated plates	FIX - WD
Mounting set for on-roof mounting suitable for metal roofs	FIX BD
Basic IN ROOF installation kit for 2 EKSV21P	IBV21P
Extension IN ROOF installation kit for 1 additional EKSV21P	IEV21P
Basic IN ROOF installation kit for 2 EKSV26P	IBV26P
Extension IN ROOF installation kit for 1 additional EKSV26P	IEV26P
IN ROOF covering slate complementing kit	FIX-IES
Basic FLAT ROOF support frame for 2 EKSV26P	FB V26P
Extension FLAT ROOF support frame for additional EKSV26P	FE V26P
Basic FLAT ROOF support frame for 1 EKSH26P	FB H26P
Extension FLAT ROOF support frame for additional EKSH26P	FE H26P
Release tool	FIX LP
Glycol fluid 20 l	GFL

POWER SUPPLY

T1 = 3~, 220V, 50Hz
V1 = 1~, 220-240V, 50Hz
VE = 1~, 220-240V/220V, 50Hz/60Hz*
V3 = 1~, 230V, 50Hz
VM = 1~, 220~240V/220~230V, 50Hz/60Hz
W1 = 3N~, 400V, 50Hz
Y1 = 3~, 400V, 50Hz

* For VE power supply only 1~, 220-240V, 50Hz data is displayed in this catalogue.

MEASURING CONDITIONS

AIR CONDITIONING

1) nominal cooling capacities are based on:	
Indoor temperature	27°CDB/19°CWB
Outdoor temperature	35°CDB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m
2) nominal heating capacities are based on:	
Indoor temperature	20°CDB
Outdoor temperature	7°CDB/6°CWB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m

APPLIED SYSTEMS

Air cooled	Cooling only	Evaporator: 12°C/7°C	Ambient: 35°CDB
	Heat pump	Evaporator: 12°C/7°C	Ambient: 35°C
		Condenser: 40°C/45°C	Ambient: 7°CDB/6°CWB
Water cooled	Cooling only	Evaporator: 12°C/7°C	
		Condenser: 30°C/35°C	
	Heating only	Evaporator: 12°C/7°C	
		Condenser: 40°C/45°C	
Condenserless chiller		Evaporator: 12°C/7°C	
		Condensing temperature: 45°C / liquid temperature: 40°C	
Fan coil units	Cooling	Room temperature: 27°CDB /19°CWB	
		Water inlet/outlet temperature: 7°C/12°C	
	Heating	Room temperature: 20°C	
		2 pipe: Water inlet temperature: 50°C (same water flow as in cooling mode) 4 pipe: Water inlet/outlet temperature: 70°C/60°C	

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks).
The sound power level is an absolute value indicating the "power" which a sound source generates.
For more detailed information please consult our technical databooks.

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Daikin Altherma hybrid heat pump

The natural combination

Up to 35% efficiency increase compared to condensing boiler

Gas condensing boiler of 33 kW

Most economical mode to operate

Hybrid technology

Heating and domestic hot water

COP in heat pump operation: 5.04

Heat pump and gas condensing boiler in one, the best of two technologies!

The Daikin Altherma hybrid heat pump is the ideal solution for the replacement of a gas boiler. Depending on the outdoor temperature, energy prices and the internal heat load, the Daikin Altherma hybrid heat pump smartly chooses between the heat pump and/or the gas boiler, always selecting the most economical mode to operate.

Find out more on www.daikin.eu

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altherma

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The present publication supersedes ECPEN13-500_P3
Printed in Belgium by Lannoo (www.lannooprint.be), a company whose concern for the environment is set in the EMAS and ISO 14001 systems.
Responsible editor: Daikin Europe N.V., Zandvoordestraat 300, B-8400 Oostende