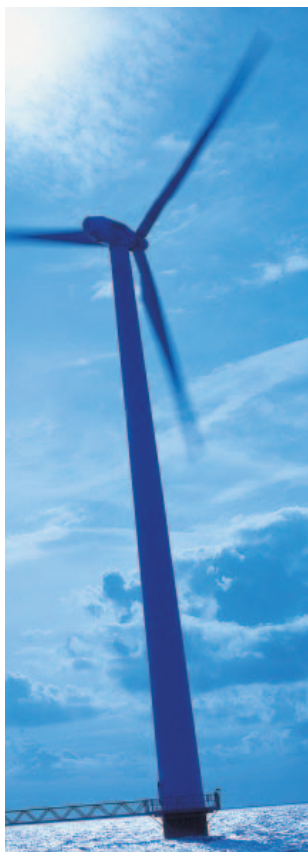




Total Solutions

For process and c°mfort applications

Applied
Systems

2009

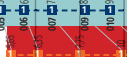


Great in cooling and heating

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PRODUCT PORTFOLIO

Type	Compr.	Refr.	Mode	Reference	Packshot	Page	0	17.5	200
A/C	SWING	R-410A		EWAQ005-007ACV3 EWAQ009-011ACV3		20			
	SCROLL	R-410A		EWAQ009-013ACW1		21			
	SWING	R-410A		EWYQ005-007ACV3 EWYQ009-011ACV3		20			
	SCROLL	R-410A		EWYQ009-013ACW1		21			
	SCROLL	R-407C		EUWAC5-10FZW		22			
				EUWA*5-24KAZW EUWA30-35HZW		24			
				EUWY*5-24KAZW		26			
	R-410A			EWAQ080-260DAYN		28			
				EWYQ080-250DAYN		30			
	SCREW			EWAD120-600MBYNN		38			
				EWAD190-600AJYNN		40			
				EWAD260-650AJYNN/A		42			
				EWAD210-500AJYNN/Q		44			
				EWAD200-600AJYNN/H		46			
				EWAD330-550AJYNN/S*		32			
				EWAD330-550AJYNN/X*		34			
		R-134a		EWYD260-380AJYNN		36			
		R-407C		EWAD650-C18BJYNN		48			
				EWAD650-C21BJYNN/A		50			
				EWAD550-C12BJYNN/Q		52			
				EWAD600-C10BJYNN/Z		54			
				EWAP110-540MBYNN		55			
				EWTP110-540MBYNN		56			
				EWAP800-C18AJYNN		58			
				EWAP850-C18AJYNN/A		60			
C/U	SCREW	R-407C		ERAP110-170MBYNN		97			

05

500

1,000

2,000 kW

A/C = Air Cooled
W/C = Water Cooled
C/U = Condensing Unit
C/L = Condenser Chiller

 = Cooling Only
 = Heating Only
 = Heat Pump
 = Heat Recovery

 = Heating
 = Cooling

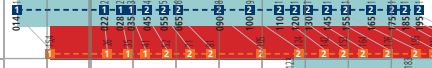
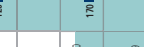
Option Combination & Exceptions:

/A High Efficiency Unit
/Q Standard Efficiency Unit, Extra Low Noise
/H High Ambient Unit
/S High Efficiency Unit, Extra Low Noise
/I Inverter Unit
/X High Efficiency Inverter Unit
• Preliminary Info

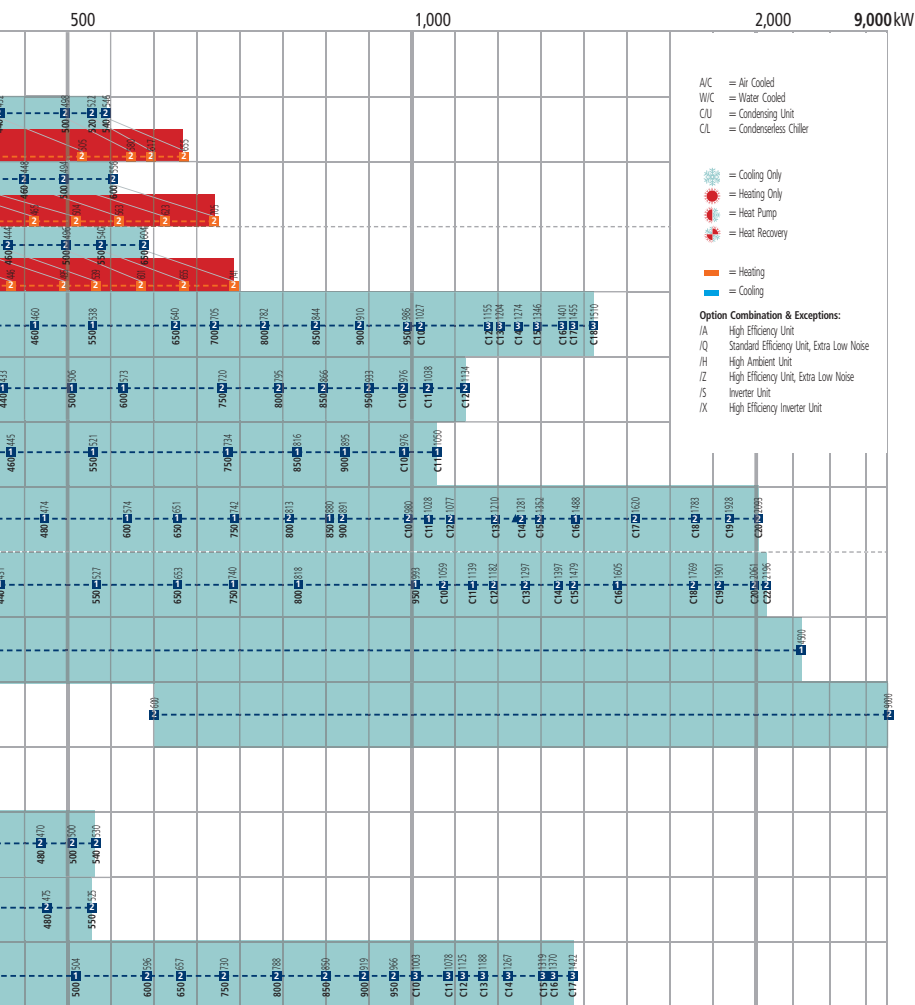
Power Range (kW)	Unit Model	Capacity (kW)
500	500-001	500
500	500-002	500
500	500-003	500
500	500-004	500
500	500-005	500
500	500-006	500
500	500-007	500
500	500-008	500
500	500-009	500
500	500-010	500
500	500-011	500
500	500-012	500
500	500-013	500
500	500-014	500
500	500-015	500
500	500-016	500
500	500-017	500
500	500-018	500
500	500-019	500
500	500-020	500
500	500-021	500
500	500-022	500
500	500-023	500
500	500-024	500
500	500-025	500
500	500-026	500
500	500-027	500
500	500-028	500
500	500-029	500
500	500-030	500
500	500-031	500
500	500-032	500
500	500-033	500
500	500-034	500
500	500-035	500
500	500-036	500
500	500-037	500
500	500-038	500
500	500-039	500
500	500-040	500
500	500-041	500
500	500-042	500
500	500-043	500
500	500-044	500
500	500-045	500
500	500-046	500
500	500-047	500
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500	500-085	500
500	500-086	500
500	500-087	500
500	500-088	500
500	500-089	500
500	500-090	500
500	500-091	500
500	500-092	500
500	500-093	500
500	500-094	500
500	500-095	500
500	500-096	500
500		

PRODUCT PORTFOLIO

06

Type	Compr.	Refr.	Mode	Reference	Packshot	Page	0	17.5	200
W/C	SCROLL	R-407C		EWWP014-065KAW1N EWWP090-195KAW1		70			
	SCREW	R-134a		EWWD120-540MBYNN		72			
			EWWD170-600DJYNN		74				
			EWWD190-650DJYNN/A		76				
			EWWD340-C18EJYNN		80				
			EWWD360-C12EJYNN/A		82				
				EWWD380-C11BJYNN		84			
		R-410A		EWVWQ400-C20AJYNN		86			
				EWVWQ440-C22AJYNN/A		88			
	CENTRI-FUGAL	R-134a		D-DWSC		90			
			D-DWDC		90				
C/L	SCROLL	R-407C		EWLP012-65KAW1N		64			
	SCREW	R-134a		EWLD120-540MBYNN		65			
			EWLD160-550DJYNN		66				
			EWLD320-C17EJYNN		67				

WATER COOLED



PORTFOLIO

08

Type	Compr.	Refr.	Mode	Reference	Products	Integrated Hydronics							Noise & Head Pressure Con							
						Single pump contact	Twin pump contact	Single pump	Twin pump	High ESP pump	High ESP twin pump	Buffer tank	Reduced Noise	Low noise	Inverter fans	Fan Silent				
						OPSC	OPTC	OPSP	OPTP	OPHP	OPHT	OPBT	OPRN	OPLN	OPIF	OPFS				
A/C	SWING	R-410A		EWAQ-ACV3P	005-006-007			STD												
	SCROLL	R-410A		EWYQ-ACV3P	005-006-007			STD												
				EWAQ-ACV3 (7)	009-010-011			STD		•										
				EWAQ-ACW1 (7)	009-011-013			STD		•										
				EWYQ-ACV3 (7)	009-010-011			STD		•										
				EWYQ-ACW1 (7)	009-011-013			STD		•										
		R-407C		EUWAC-FZW	5-8-10															
				EUWAN-KAZW	5-8-10-12-16-20-24															
				EUWAP-KAZW	5-8-10-12-16-20-24						•									
				EUWAB-KAZW	5-8-10-12-16-20-24															
				EUWA-HZW	30-35															
			EUWYN-KAZW	5-8-10-12-16-20-24																
			EUWYP-KAZW	5-8-10-12-16-20-24						•										
			EUWYB-KAZW	5-8-10-12-16-20-24						•										
	R-410A		EWAQ-DAYNN	080-100-130-150-180-210-240-260	•	•	•	•	•		•		•	•(3)						
			EWYQ-DAYNN	080-100-130-150-180-210-230-250	•	•	•	•	•		•		•	•(3)						
	SCREW	R-134a		EWAD-MBYNN	120-150-170-240-300-340 380-460-520-600										•	•				
				EWAD-AJYNN	190-200 230-260-280-300-320-340-360 400 440-480-500-550-600			•(1)	•(2)(3)	•(1)	•(2)(3)			•		•				
				EWAD-AJYNN / A	260-280-320-340-360-380-420 500-550-600-650			•	•	•	•			•		•				
				EWAD-AJYNN / Q	210-240-260-280-300-320-340 400-440-460-500												STD			
				EWAD-AJYNN / H	200-210 240-260-280-300-320-340-400 420-460-480-500-550-600			•(1)	•(2)(3)	•(1)	•(2)(3)					•				
				EWAD-AJYNN/S *	330-360-400-420-460-490-520								•	•		•				
				EWAD-AJYNN/X *	330-360-400-420-460-490-520								•	•		•				
				EWYD-AJYNN	260-280-300 320-340-360-380			•(3)	•(3)	•(3)	•(3)			•		•(3)				
				EWAD-BJYNN	650-700-750-850-900-950-C10-C11-C12-C13 C14-C15-C16-C18			•	•				•	•		•				
				EWAD-BJYNN / A	650-700-800-850-900-950-C10-C11-C12-C13 C14-C15-C16-C17-C18-C19-C20-C21			•	•				•	•		•				
				EWAD-BJYNN / Q	550-600-650-700-750 800-850-900-950-C10-C11-C12			•	•								STD			
				EWAD-BJYNN / Z	600-650-700-850-900-950-C10			•	•								STD			
		R-407C		EWAP-MBYNN	110-140-160-200-280-340-400-460-540										•	•				
				EWTP-MBYNN	110-140-160-200-280-340-400-460-540										•					
				EWAP-AJYNN	800-900-950-C10-C11-C12-C13-C14 C15-C16-C17-C18			•	•					•	•		•			
				EWAP-AJYNN / A	850-900-950-C10-C11-C12-C13-C14 C15-C16-C17-C18			•	•					•	•		•			
			CU	SCREW	R-407C		ERAP-MBYNN	110-150-170									•	•		
			W/C	SCROLL	R-407C		EWWP-KAW1N	014-022-028-035-045-055-065												
							EWWP-KAW1M	045-055-065												
				SCREW	R-134a		EWWD-MBYNN	120-180-240-280-360-440-500-520-540										•		
							EWWD-DJYNN	170-210-260-300-320-380-420-460-500-600											•	
							EWWD-DJYNN / A	190-230-280-320-380-400-460-500 550-650											•	
							EWWD-EJYNN (6)	340-400-460-550-650-700-800-850-900-950-C10-C12-C13-C14-C15-C16-C17-C18												
							EWWD-EJYNN/A (6)	360-440-500-600-750-800-850-950-C10-C11-C12												
		EWWD-BJYNN				380-460-550-750-850-900-C10-C11														
	R-410a				EWWQ-AJYNN	400-480-600-650-750-800-850-900-C10-C11-C12-C13-C14-C15-C16-C17-C18-C19-C20														
					EWWQ-AJYNN / A	440-550-650-750-800-950-C10-C11-C12-C13-C14-C15-C16-C18-C19-C20-C22														
	C/L	SCROLL	R-407C		EWLP-KAW1N	012-020-026-030-040-055-065														
		SCREW	R-134a		EWLD-MBYNN	120-170-240-260-340-400-480-500-540										•				
				EWLD-DJYNN (6)	160-190-240-280-320-360-380-420-480-550										•					
	EWLD-EJYNN (6)	320-400-420-500-600-650-750-800-850-900-950-C10-C11-C12-C12-C14-C15-C16-C17																		

Option Combination & Exceptions:

/A High Efficiency Unit
 /Q Standard Efficiency Unit, Extra Low Noise
 /H High Ambient Unit
 /Z High Efficiency Unit, Extra Low Noise
 /S Inverter Unit
 /X High Efficiency Inverter Unit

A/C Air Cooled
 W/C Water Cooled
 C/F Centrifugal Fan
 C/U Condensing Unit
 C/L Condenserless Chiller

Cooling Only
 Heating Only
 Heat Pump
 Heat Recovery

(1) Unit Length Increase By 230mm
 (2) Unit Length Increase By 310mm
 (3) Not Available With Option OPLN
 (4) High Pressure Side Gauge
 (5) Not Available With Option OPLN - OPRN

(6) OPLR Liquid Receiver option available
 (7) EXRP1H8 option kit available
 * Preliminary info

(8) OP12 & OP03 needs to be added to meet Swedish national law 1992: 16

OPTIONS

Control		Heat Recovery		LWE		Electrical							Refrigerant				Condenser					Misc
Low Ambient	High ESP fans	Total Heat Recovery	Partial Heat Recovery	High Glycol	Low Glycol	Evaporator heater tape	Main switch	Soft starter	Power factor 0,9	A / V meter	Address card	No switchbox	Electronic Expansion Valve	Pressure relief valve	Suction stop valve	Gauges	Coil guards	Blank Cu / Al coils	Cu / Sn coils	Cu / Cu coils	Cu / Ni heat exchanger	Spring Anti Vibration Mounts
OPLA	OPHF	OPTR	OPPR	OPZH	OPZL	OP10	OP52	OP55	OPPF	OP57	OPAC	OPNS	OPEX	OP03	OP12	OPGA	OPCG	OPAL	OPSN	OPCU	OPNI	OPSVM
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	*	*	*	STD	STD		STD	*	*	*			STD	*(3)	*(3)	STD					*	

CHILLER

Type	Compr.	Refr.	Mode	Reference	Gauges					Soft starter	Communication cards							LON gateway	Modbus gateway				Bacnet gateway																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					EGAU58KA	EGAU1072KA	EGAU16KA	EGAU2024KA	EGAU2500H		EGS	EKAC10B	EKAC30A	EKAC200A	EKAC200	EKACPG	EKACBAC		EKAC10N	EGLOWG	EBMS18BA	EBMS18NA		EBMS18G	EBMS18U																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
A/C	SWING	R-410A	❄️	EWAQ005-007ACV3P																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

FAN COIL

Type: FWM, FWL, FWV	1	2	3	4	6	8	10	FWV	FWL	FWM
Description										
Additional single row heat exchanger	ESRH02A6	ESRH03A6	ESRH06A6	ESRH10A6		x	x	x		
Electric heater	EEH01A6 EEH02A6	EEH03A6	EEH06A6	EEH10A6		x	x	x		
2-pipe 3-way valve	E2MV03A6		E2MV06A6	E2MV10A6		x	x	x		
4-pipe 3-way valve	E4MV03A6		E4MV06A6	E4MV10A6		x	x	x		
Fan stop thermostat			YFSTA6			x	x	x		
Air intake & discharge grille	EAIDF02A6	EAIDF03A6	EAIDF06A6	EAIDF10A6		-	-	-		
Supporting feet		ESFV06A6		ESFV10A6		x	-	-		
Supporting feet & grille	ESFVG02A6	ESFVG03A6	ESFVG06A6	ESFVG10A6		x	-	-		
Fresh air intake	EFA02A6	EFA03A6	EFA06A6	EFA10A6		x	-	x		
Rear panel	ERPV02A6	ERPV03A6	ERPV06A6	ERPV10A6		x	x	-		
Controller electronic - remote		CES_RAB10.1				x	x	x		
Controller electronic - remote		CES_RAB30.1				x	x	x		
Controller electronic - remote		CES_RDF10				x	x	x		
Controller electronic - remote		CES_RDF30				x	x	x		
Pipe temperature sensor		CES_QAH11.1				x	x	x		
Pipe holder		CES_ARG86.2				x	x	x		
Control electromechanical		ECFWMB6				x	x	-		
Control electronic - built-in		ECFWEB6				x	x	-		
Control electronic - remote		ECFWER6				x	x	x		
Master slave option		EPIMSA6				x	x	x		
Vertical drainpan		EDPVA6				x	x	x		
Horizontal drainpan		EDPHA6				-	-	x		

Type: FWT, FWF and FWC	FWT	FWC	FWF
Description			
Standard wired remote control		MERCA	
Simplified wired remote control		SRC-COA	
Simplified wired remote control		SRC-HPA	
2-pipe 3-way valve	-	-	MCKA
2-pipe 3-way valve	-	MCKAW2T3VN	
4-pipe 3-way valve	-	MCKAWH4T3VN	
Wireless control for cooling only		WRC-COB	
Wireless control for heat pump		WRC-HPB	
Decoration panel 900 x 900 2-pipe (4)	-	DCP900TB	
Decoration panel 900 x 900 4-pipe (4)	-	DCP900FB	
Decoration panel 600x600	-	-	DCP600

ENVIRONMENTAL AWARENESS



12

AIR CONDITIONING AND THE ENVIRONMENT

Air conditioning systems provide a significant level of indoor comfort, making possible optimum working and living conditions in the most extreme climates.

In recent years, motivated by a global awareness of the need to reduce the burdens on the environment, some manufacturers including Daikin have invested enormous efforts in limiting the negative effects associated with the production and the operation of air conditioners.

Hence, models with energy saving features and improved eco-production techniques have seen the light of day, making a significant contribution to limiting the impact on the environment.

SMART CONTROL BRINGS COMFORT AND REDUCES ENERGY CONSUMPTION

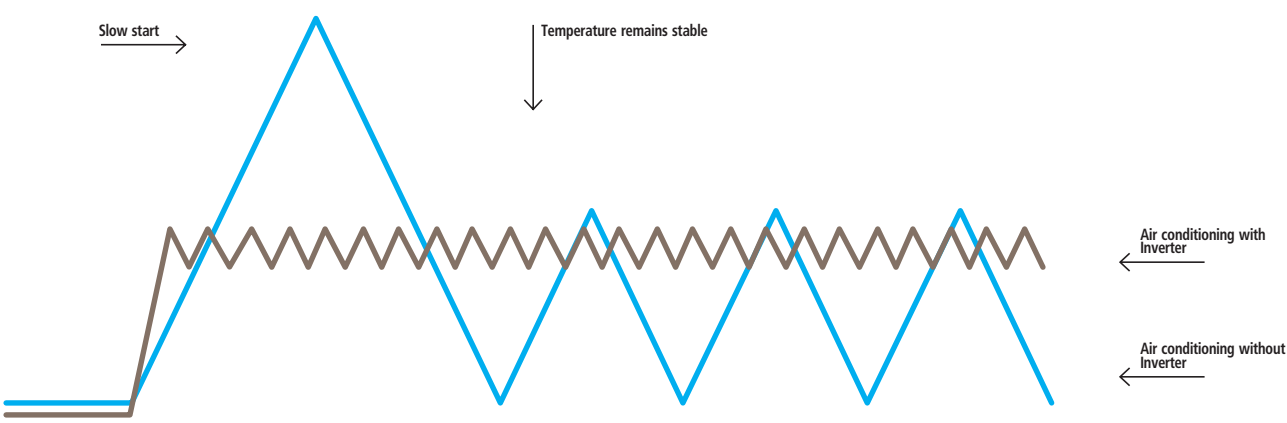
Inverter technology used in the mini-chiller (EWAQ-AC and EWYQ-AC) and in the EWYD-AJYNN allows more precise control of the leaving water condition in function of the load. This leads to energy savings and high comfort levels, ensuring it is never too cool or too hot. This is a major advantage over standard fixed speed models, which use on/off cycling of the compressor, creating greater fluctuations in control conditions.

Inverter technology offers improved levels of comfort:

- › Energy efficient: Continuous matching of load requirement
- › Start-up time is reduced by 1/3
- › Less frequent start/stop cycles
- › Reduced sound pressure levels
- › High EER/COP values



INVERTER TECHNOLOGY





HEAT RECOVERY

In many applications there often exists a simultaneous cooling and heating demand requirement alongside one another. To benefit from this Daikin offers chillers with the option of heat recovery. This option further increases the application flexibility and extends possibilities in the hotel and leisure industry as well as the industrial and process sectors.

By energetically recovering useful heat from the cooling cycle that would otherwise be rejected to the outside, extremely high COPs can be realised in heat recovery mode. The heat recovery unit aims to achieve an optimum balance between cooling and heat recovery to maximize the

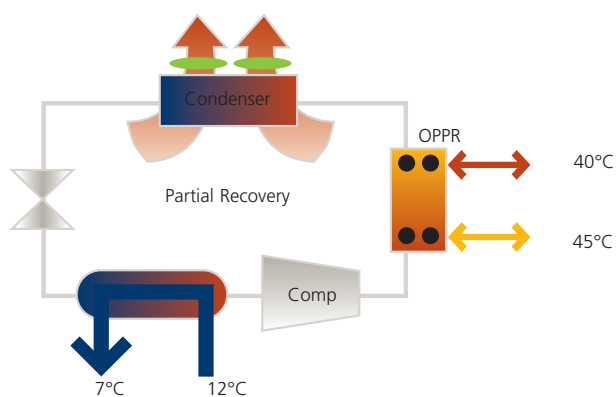
unit efficiency and offer savings in hot water production.

Depending on the temperature requirement either partial heat recovery or full heat recovery may be selected.



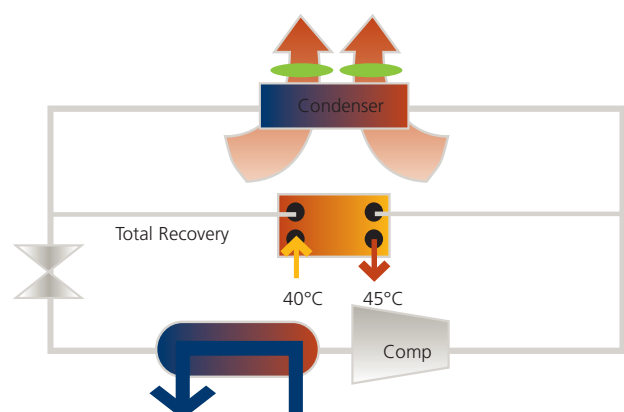
OPPR – Partial recovery

A stainless steel brazed plate heat exchanger is mounted in series between the compressor and air-cooled condenser as a desuperheater. The sensible heat from the hot discharge gas will be recovered, while the latent heat exchange will occur in the air-cooled condenser. The units efficiency is maintained as condensing pressure can be reduced due to air-cooled condenser becoming oversized.



OPTR – Total recovery

A Shell and Tube heat exchanger is mounted in parallel with the air-cooled condenser for full heat recovery of both sensible and latent heat. Hot water temperatures up to 50°C can be achieved.

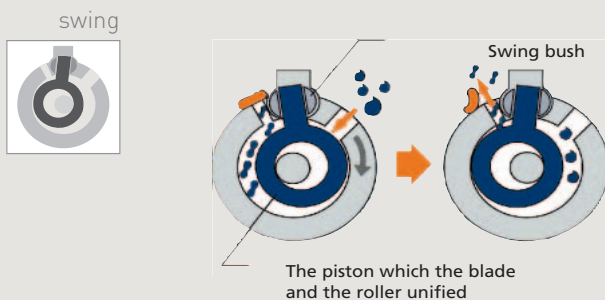


RELIABLE AND EFFICIENT

Whatever the requirements of the customer, large systems requiring constant capacity or smaller systems for flexibility, DAIKIN always provides a reliable and efficient solution.

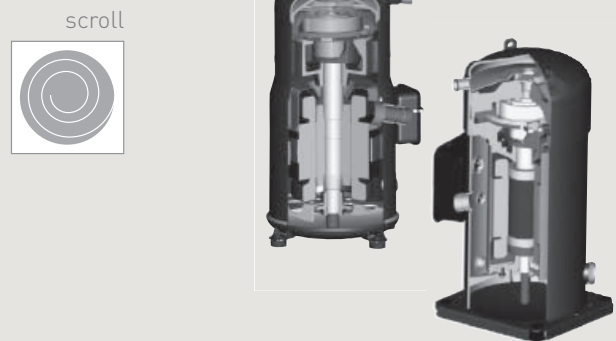
3 COMPRESSOR TYPES FOR ALL APPLICATIONS:

SWING COMPRESSOR:



The mini-chiller range is equipped with a swing compressor. This innovative design by Daikin with fewer moving parts allows smoother more reliable operation with low vibration and low noise levels. The high efficiency motor reduces energy consumption resulting in energy cost savings.

THE SCROLL COMPRESSOR FOR CONTROLLED CAPACITY:

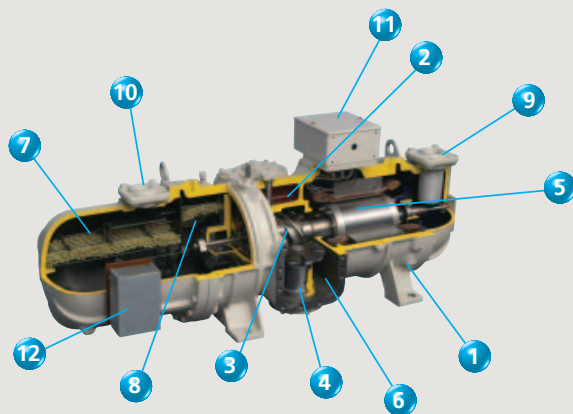


Being compact, the DAIKIN scroll compressor is used with R-407C and R-410A to provide constant reliability and high efficiency right throughout its service life. Designed for small and medium capacities, the scroll compressors are used with air cooled and water cooled chillers within the range of capacities between 9.1 and 281kW.

Characteristics :

- › Compact, simple yet robust design
- › Absence of valves and oscillating connecting mechanisms providing maximum reliability
- › Constant compression guaranteeing low energy consumption
- › Increased compression efficiency thanks to the absence of volumetric re-expansion
- › Low sound level
- › Low starting current

THE SINGLE SCREW STEPLESS COMPRESSOR - FOR HIGH CAPACITY:



- | | |
|----------------|-------------------------------|
| 1. Casing | 7. 2nd stage oil separator |
| 2. Slide valve | 8. Demister (oil separator) |
| 3. Screw rotor | 9. Refrigerant suction |
| 4. Bearing | 10. Refrigerant discharge |
| 5. Motor | 11. Compressor terminal + CTP |
| 6. Gate rotor | 12. Stepper Motor |

The heart of the larger Daikin chillers are semi hermetic single screw compressors, designed, tested and manufactured in Daikin's own laboratories, in order to meet the highest capacity, performance and maintenance specifications. This compressor has been especially developed for operation with R-134a or R-407C and R410A refrigerant, guaranteeing unequalled reliability and many years of efficient operation. The bearing life is 100000hrs with inspection and maintenance intervals every 40000hrs.

Characteristics :

- › Optimal performance through stepless capacity control in function of the chilled water temperature. The unit capacity is infinitely variable from 30 - 100% on single circuit units and 15 - 100% on dual circuit units.
- › Compact, simple yet robust construction.
- › Using a main single screw and two gate rotors, axial and radial forces are balanced thanks to the symmetrical compression guaranteeing low bearing loads.
- › Renowned for its low noise levels and the double walled casing design, add to the attenuation effect.
- › Gate rotors made of polymer material result in closer tolerances with main screw and reduced friction greatly improving compressor efficiency and lifetime.
- › No oil pump necessary – lubrication based on differential pressure principle.
- › Easy access to both compressor and safety devices
- › Star delta starter with low starting current as standard

AIR-COOLED

Air cooled chillers are most frequently used in the chilled water market. Out of its wide range of chillers in cooling only or heat pump version, with or without integrated hydronic components, DAIKIN always offers you a chiller fitting your application needs.

R-410A

R-134a

R-407C

Daikin has taken great care to match major chiller components and refrigerant combinations to a point where high efficiency ranges of technically advanced and closely optimised air and water cooled units are now widely available for use with R-410A, R-407C and R-134a refrigerants.

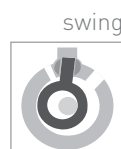
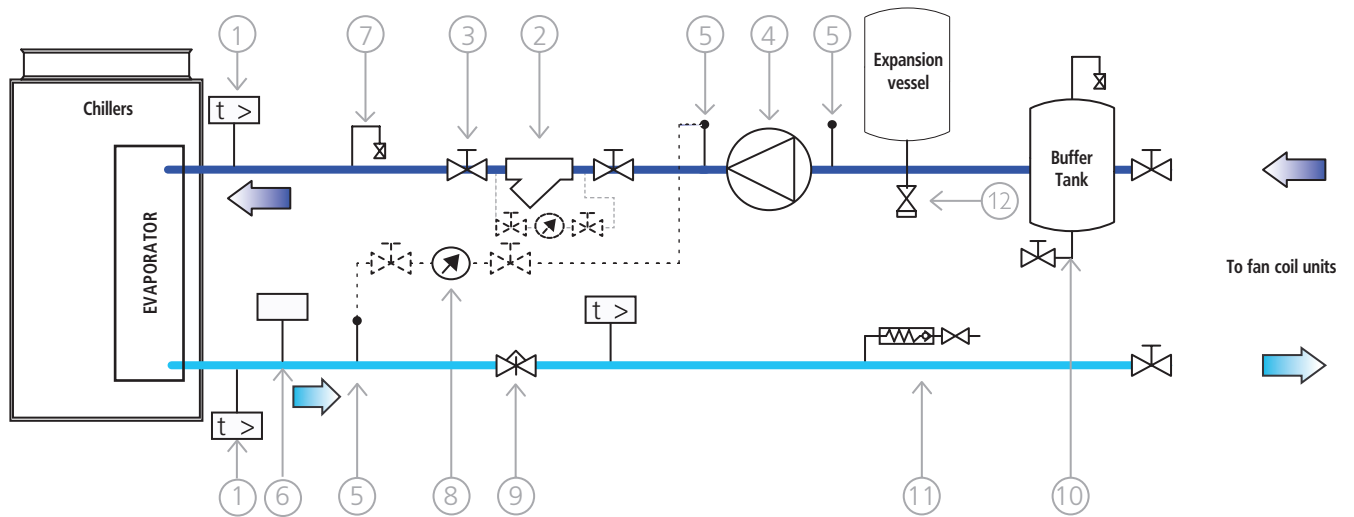


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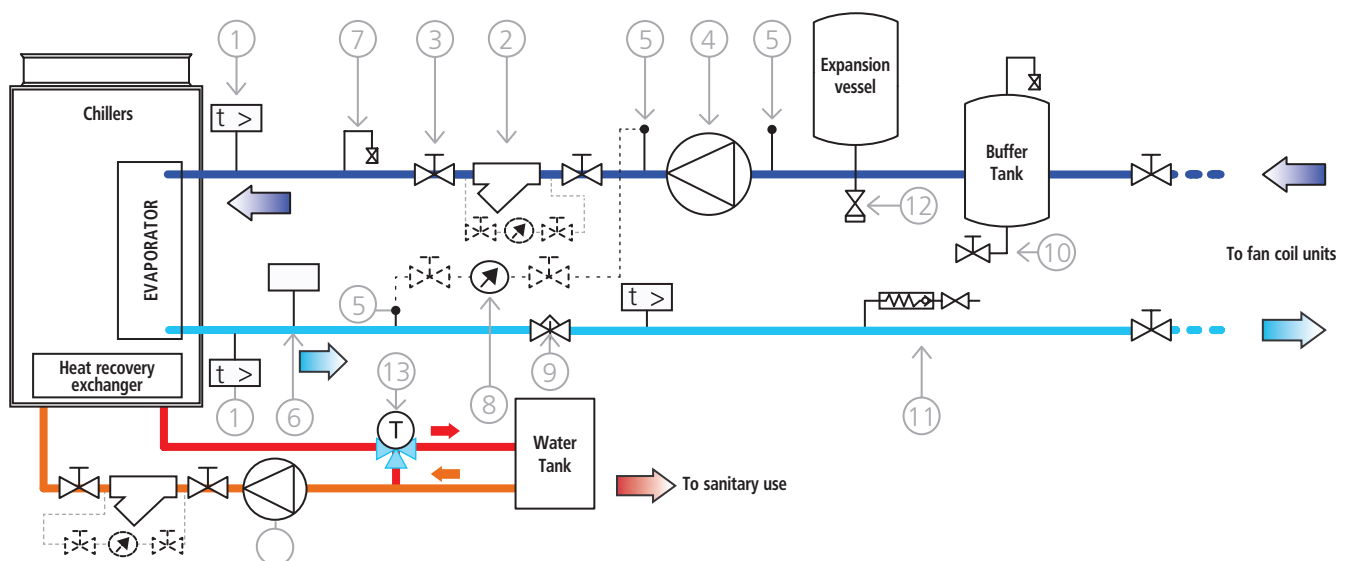
EWYQ-ACV3 / EWAQ-ACV3	20	EWAD-AJYNN/A	42
EWYQ-ACV3/W1 / EWAQ-ACV3/W1	21	EWAD-AJYNN/Q	44
EUWAC-FZW	22	EWAD-AJYNN/H	46
EUWA*-KAZW	24	EWAD-BJYNN	48
EUWY*-KAZW	26	EWAD-BJYNN/A	50
EWAQ-DAYN	28	EWAD-BJYNN/Q	52
EWYQ-DAYN	30	EWAD-BJYNN/Z	54
EWAD-AJYNN/S	32	EWAP-MBYN	55
EWAD-AJYNN/X	34	EWTP-MBYN	56
EWYD-AJYNN	36	EWAP-AJYNN	58
EWAD-MBYN	38	EWAP-AJYNN/A	60
EWAD-AJYNN	40		

AIR COOLED CHILLER



- | | | |
|-----------------------|-------------------|--------------------|
| 1. Temperature sensor | 5. Pressure port | 9. Balancing valve |
| 2. Filter | 6. Flow switch | 10. Drain valve |
| 3. Shut-off valve | 7. Air purge | 11. Charging valve |
| 4. Pump | 8. Pressure gauge | 12. Safety valve |

HEAT RECOVERY CHILLER



- | | | | |
|-----------------------|-------------------|--------------------|------------------|
| 1. Temperature sensor | 5. Pressure port | 9. Balancing valve | 13. Mixing valve |
| 2. Filter | 6. Flow switch | 10. Drain valve | |
| 3. Shut-off valve | 7. Air purge | 11. Charging valve | |
| 4. Pump | 8. Pressure gauge | 12. Safety valve | |



STRENGTHS

- › Optimised for use with R-410A.
- › Inverter controlled swing compressor
 - Precise temperature control
 - No buffer tank required.
- › PE treated condenser coil.
- › Heating operation from -15°C to 43°C.
- › Integrated hydronics
 - valves, filter, flow switch
 - 3 speed pump
 - 6l expansion vessel.
- › Adaptive control possibility.

OPTIONS

(factory mounted)

- › Evaporator heater tape.



ELECTRONIC CONTROL

CONTROL

- › Leaving water control.
- › Setpoint in heating & cooling.

AVAILABLE INPUTS

- › Voltage free contact:
 - ON/OFF.
 - Cooling/Heating changeover.
- › Schedule timer:
 - ON/OFF.
 - Dual setpoint.
 - Silent operation.

EWYQ-ACV3

EWAQ-ACV3



air-cooled

swing

**R-410A**

COOLING ONLY / HEATING & COOLING				005	006	007
Capacity (Eurovent)	Cooling	kW		5.2	6.0	7.1
	► Heating	kW		5.65	6.35	7.75
Nominal input (Eurovent)	Cooling	kW		1.89	2.35	2.95
	► Heating	kW		1.97	2.24	2.83
EER				2.75	2.55	2.41
► COP (Eurovent)				2.87	2.83	2.74
Dimensions	Height x Width x Depth	mm		805x1,190x360		
Weight	Machine weight	kg		100		
	Operating Weight	kg		104		
Water Heat Exchanger	Type			Brased plate		
	Minimum water volume in the system	l		10		
	Water flow rate	l/min		12		
	Nominal Water Flow	Cooling	l/min	14.9	17.2	20.4
		Heating	l/min	17.5	19.5	23.5
Air heat exchanger	Type			Tube type		
External static Pressure	Cooling	kPa		49.4	45.1	38.3
	Heating	kPa		44.5	40.3	30.7
Expansion vessel	Volume	l		6		
Compressor	Type			Hermetically sealed swing compressor		
	Model	Quantity		1		
Sound Power	Cooling	dB(A)		62		
Operation Range	Water side	Cooling	°C	5 ~ 20		
		► Heating	°C	25 ~ 50		
	Air side	Cooling	°CDB	10 ~ 43		
		► Heating	°CDB	-15 ~ 25		
Refrigerant circuit	Refrigerant type			R-410A		
	Refrigerant charge	kg		1.7		
	No of circuits			1		
	Refrigerant control			Inverter		
Power Supply				1~/230V/50Hz		
Piping connections	Water heat exchanger inlet / outlet			1" mbsp		
	Water heat exchanger drain			hose nipple 1/2" fbsp		

► only applicable for EWYQ-ACV3



STRENGTHS

- › Optimised for use with R-410A.
- › Inverter controlled scroll compressor
- › ESEER up to 4.7
- › Sound operation down to 62dB(A)
- › Built-in hydraulic module
 - No buffer tank required
 - Standard pump included
- › Available in single phase and three phase

OPTIONS

(factory mounted)

- › High ESP pump (up to 90kPa)
- › Evaporator heater tape

OPTION KIT

- › Digital I/O PCB



air-cooled



EWYQ-ACV3/W1

EWAQ-ACV3/W1

COOLING ONLY/HEAT PUMP			009ACV3*	010ACV3*	011ACV3*	009ACW1*	011ACW1*	013ACW1*
Capacity (Eurovent)	Cooling	kW	8.5	9.5	11.0	9.0	11.0	13.0
	▶ Heating	kW	10.0	11.5	13.0	11.0	12.5	14.0
Nominal input (Eurovent)	Cooling	kW	-					
	▶ Heating	kW	-					
EER			2.84	2.82	2.66	2.94	2.91	2.37
▶ COP			3.37	3.39	3.35	3.48	3.30	3.21
Dimensions	Height x Width x Depth	mm	1,420 x 1,420 x 320 (384 including feet)					
Weight	Machine weight	kg	145	145	145	145	145	145
	Operating weight	kg	-					
Water Heat Exchanger	Type		-					
	Minimum water volume in the system		-					
	Water flow rate	Min	-					
	Nominal	Cooling	-					
	Water Flow	▶ Heating	-					
				-				
Air heat exchanger	Type		-					
External static Pressure	Cooling	kPa	-					
	Heating	kPa	-					
Expansion vessel	Volume	l	-					
Compressor	Type		Hermetically sealed scroll compressor					
	Model	Quantity	-					
Sound Power	Cooling	dBa	64	64	64	64	64	69
	▶ Heating	dBa	64	64	64	64	64	66
Operation Range	Water side	Cooling	5~22					
		▶ Heating	-15~35					
	Air side	Cooling	10~46					
		▶ Heating	25~50					
Refrigerant circuit	Refrigerant type		R-410A					
	Refrigerant charge	kg	< 3					
	No of circuits		-					
	Refrigerant control		-					
Power Supply			1N~/230V/50Hz			3N~/400V/50Hz		
Piping connections	Water heat exchanger inlet / outlet		-					
	Water heat exchanger drain		-					

Note:

▶ only applicable for EWYQ-ACV3 and EWYQ-ACW1

* grey cells contain preliminary data



EUWAC-FZW

air-cooled

scroll



R-407C

STRENGTHS

- › Daikin scroll compressor
- › Standard reverse phase protection
- › High fan static pressure (up to 150Pa)
- › Operation down to -10°C ambient temperature
- › Pressure gauges

OPTIONS (factory mounted)

- › Chilled water temperature down to - 5°C (ZH) or -10°C (ZL)

ACCESSORIES (kit)

- › Filter
- › BMS gateway (MODBUS / J-BUS / BACNET protocol)
- › Remote user interface
- › Hydraulic module (see page 83)

CONTROL

- › Microprocessor control
- › Water inlet temperature control

EUWAC8FZW



ELECTRONIC CONTROL

AVAILABLE INPUTS / OUTPUTS

Input

- › ON / OFF (per circuit)
- › Pump / flow switch

Output

- › Compressor operation
- › Summary alarm
- › Pump relay contact

Cooling only				5	8	10
Capacity	Cooling	kW		11.60	18.40	23.80
Nominal input	Cooling	kW		5.25	7.78	9.85
EER				2.21	2.37	2.42
Capacity Steps		%		100-0		
Dimensions	(Height x Width x Depth)	mm		1,345x856x630	1,290x1,180x630	1,395x1,330x630
Unit		kg		164	224	261
Operating Weight		kg		166	228	266
Water Heat Exchanger	Type			Brased plate, one per circuit		
	Minimum water volume in the system	l		101	153	212
	Water flow rate	Min	l/min	16	23	28
		Nominal	l/min	33	53	68
		Max	l/min	64	92	112
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins		
Sound Power	Cooling	dBA		63	66	69
Compressor	Type			Hermetically sealed scroll compressor		
	Model	Quantity		1		
Refrigerant circuit	Refrigerant type			R-407C		
	Refrigerant charge	kg		2.1	3.9	4.7
	No of circuits			1		
	Refrigerant control			Thermostatic expansion valve		
Power Supply				3N~/400V/50Hz		
Piping connections	Evaporator water inlet/outlet			fbsp 1"field installation		

STRENGTHS

- › Integrated hydraulic module (models B and P).
- › Built-in buffer tank (model B).
- › Daikin scroll compressor.
- › Standard main isolator switch.
- › Standard water flow switch.
- › Standard filter (delivered as a kit with the unit).
- › Operation down to -15°C ambient temperature.
- › Standard reverse phase protection.
- › Standard condenser protection grille.
- › Freeze-up protection and prevention.
- › PE treated condenser coil.



EUWA*-KAZW

air-cooled



R-407C

OPTIONS (factory mounted)

- › Chilled water temperature down to -5°C (OPZH) or -10°C (OPZL).
- › High ESP fans (50Pa) (OPHF).
- › Pump size up (OPHP).

ACCESSORIES (kit)

- › Refrigerant pressure gauges.
- › BMS gateway
- › (MODBUS/J-BUS/BACNET protocol).
- › Remote user interface.
- › 200l buffer tank.
- › Soft starter (single circuit).

CONTROL

- › Microprocessor control.
- › Water inlet temperature control.

AVAILABLE INPUTS / OUTPUTS

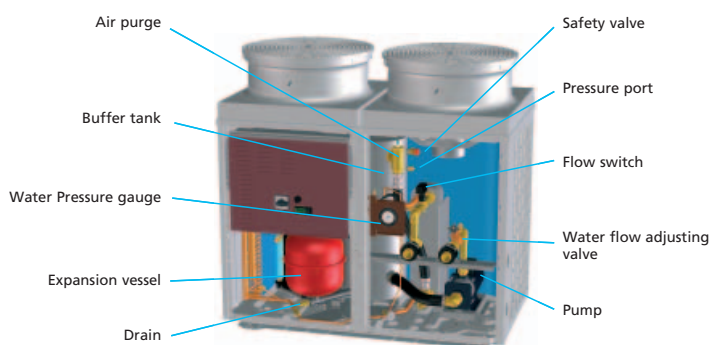
Input

- › Remote ON/OFF.
- › Pump contact.

Output

- › Compressor operation.
- › Summary alarm.
- › Pump relay contact.

HYDRAULIC AND REFRIGERANT DIAGRAM



Cooling only			N5	P5	B5	N8	P8	B8	N10	P10	B10	N12	P12	B12	N16	P16	B16	N20	P20	B20	N24	P24	B24					
Capacity	Cooling	kW	11.30		17.90				22.50				26.50				37.00				46.60				55.30			
Nominal input	Cooling	kW	4.52	4.64	4.64	7.38	7.39	7.39	8.79	8.74	8.74	11.50			15.20	15.00	15.00	18.10	17.90	17.90	24.00							
EER			2.5	2.44	2.44	2.43	2.42	2.42	2.56	2.57	2.57	2.3			2.43	2.47	2.47	2.57	2.6	2.6	2.3							
Capacity Steps		%	0-100						0-100						0-50-100						0-50-100							
Dimensions	(Height x Width x Depth)	mm	1,230x1,290x734						1,450x1,290x734						1,321x2,580x734				1,541x2,580x734				1,541x2,580x734					
Unit		kg	150	168	180	215	229	241	245	259	271	248	262	274	430	448	460	490	508	520	496	514	526					
Operating Weight		kg	152	171	239	218	232	300	248	262	330	251	265	335	436	457	525	496	518	586	503	524	592					
Water Heat Exchanger	Type		Brased plate																									
	Minimum water volume in the system		l	54			85			108			126			88			111			132						
	Water flow rate	Min	l/min	16			26			32			38			53			67			79						
		Nominal	l/min	32			51			64			76			106			134			158						
		Max	l/min	65			102			129			152			212			267			317						
Air heat exchanger		Type		Cross fin coil/Hi-X tubes and PE coated waffle louvre fins																								
Buffer tank volume		Volume	l	-	55	-	55	-	55	-	55	-	55	-	55	-	55	-	55	-	55	-	55					
Sound Power		Cooling	dBA	67			76			78						79			81									
Compressor	Type		Cross fin coil/Hi-X tubes and PE coated waffle louvre fins																									
	Model	Quantity	1												2													
Refrigerant circuit	Refrigerant type		R-407C																									
	Refrigerant charge		kg	3.9			4.6			6.0			4.6			5.9			6.0									
	No of circuits		1												2													
	Refrigerant control		Thermostatic expansion valve																									
Power Supply			3N~/400V/50Hz																									
Piping connections		Evaporator water inlet/outlet		1-1/4"15 mm												2"15 mm												

STRENGTHS

- › Integrated hydraulic module
(models B and P)
- › Built-in buffer tank (model B)
- › Daikin scroll compressor
- › Standard main isolator switch
- › Standard water flow switch
- › Standard filter
(delivered as a kit with the unit)
- › Operation down to -15°C
ambient temperature
- › Standard reverse phase protection
- › Standard condenser protection grille
- › Freeze-up protection and prevention
- › PE treated condenser coil



EUWY* - KAZW



air-cooled

scroll



R-407C

OPTIONS (factory mounted)

- › Chilled water temperature down
to -5°C (OPZH) or -10°C (OPZL)
- › High ESP fans (50Pa) (OPHF)
- › Pump size up (OPHP)

ACCESSORIES (kit)

- › Refrigerant pressure gauges.
- › BMS gateway
- › (MODBUS/J-BUS/BACNET protocol)
- › Remote user interface
- › 200l buffer tank
- › Soft starter (single circuit)

CONTROL

- › Microprocessor control
- › Water inlet temperature control

AVAILABLE INPUTS / OUTPUTS

Input

- › Remote ON/OFF
- › Pump contact
- › Remote cool/heat selection

Output

- › Compressor operation
- › Summary alarm
- › Pump relay contact

Heat Pump			N5	P5	B5	N8	P8	B8	N10	P10	B10	N12	P12	B12	N16	P16	B16	N20	P20	B20	N24	P24	B24
Capacity	Cooling	kW	9.10		17.10		21.00		25.00		34.20		40.00		50.00								
	Heating	kW	11.90		18.50		24.00		27.00		37.00		46.00		54.00								
Nominal input	Cooling	kW	3.78		7.45	7.46		8.57		11.40		14.90		16.30		22.80							
	Heating	kW	4.59		7.10		9.10		10.80		14.20		17.40		21.60								
EER			2.41		2.3	2.29		2.45		2.19		2.3		2.45		2.19							
COP			2.59		2.61		2.64		2.5		2.61		2.64		2.5								
Capacity Steps		%	0-100												0-50-100								
Dimensions	(Height x Width x Depth)	mm	1,230x1,290x734						1,450x1,290x734						1,321x2,580x734				1,541x2,580x734				
Unit		kg	163	181	193	227	241	253	258	272	284	258	272	284	455	473	485	516	534	546	516	534	546
Operating 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		Brased plate																				
	Minimum water volume in the system		l	43		82		100		119		82		96		119							
	Water flow rate	Min	21		31		38		45		61		72		89								
		Max	68		106		137		155		212		263		309								
	Nominal Water pressure drop	Cooling	kPa	10		25		24		33		12		19									
Heating		kPa	17		29		31		38		14		16		22								
Air heat exchanger	Type		Cross fin coil/Hi-X tubes and PE coated waffle louvre fins																				
Buffer tank volume	Volume		l	-	55	-	55	-	55	-	55	-	55	-	55	-	55	-	55	-	55		
Sound Power		Cooling	dBA	67		76		78				79				81							
Compressor	Type		Hermetically sealed scroll compressor																				
	Model	Quantity	1												2								
Refrigerant circuit	Refrigerant type		R-407C																				
	Refrigerant charge	kg	4.6		4.7		5.4				10.2				10.8				11.2				
	No of circuits		1												2								
	Refrigerant control		Thermostatic expansion valve																				
Power Supply			3N~/400V/50Hz																				
Piping connections	Evaporator water inlet/outlet		1-1/4"15mm												2"15mm								

STRENGTHS

- › Wide capacity range: 80 to 260kW with 8 cooling only models
- › R-410A refrigerant
- › Multiple refrigerant circuits and multiple compressors per circuit
- › Reliable and efficient scroll with high EER values
- › Good part load efficiency (seasonal EER)
- › Anti-corrosion treated aluminium coils
- › Low operating noise levels
- › Easy 'plug and play' installation
- › Unit dimensions allow easy transport
- › Fans protected against abnormal operation (4 - 8 fans depending on unit size)
- › Safety valves in each circuit
- › Electronic circuit breakers
- › Electronic expansion valve



EWAQ-DAYN

- › 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 side of unit
- › Increased reliability via 2 independent refrigerant circuits
- › Dual circuit heat exchanger (from >100 kW)
- › Non hermetic filter/dryer
- › New Daikin controller (Pcso) with user friendly and powerful LCD interface

air-cooled



R-410A

OPTIONS (factory mounted)

- › Single pump contactor (OPSC)
- › Twin pump contactor (OPTC)
- › Single pump (OPSP)
- › Twin pump (OPTP) (1 pump house, dual motor)
- › High ESP pump (OPHP) (single pump only)
- › Buffer tank (OPBT)
- › Inverter fans (OPIF) (Not available with option OPLN)
- › Glycol 0°C / -10°C (OPZL)
- › Dual pressure relief valve (OP03)
- › Evaporator heater tape (OP10)
- › Option valves (discharge-, liquid line- and suction stop valve)
- › A-meter / V-meter (OP57)
- › Low Noise (OPLN) (=OPIF + compressor housing)
- › Condenser protection grills (OPCG)

EWAQ130-150DAYN



ELECTRONIC CONTROL



ACCESSORIES (kit)

- › Gateway for LON (EKLONPG)
- › Gateway for BACNET (EKBNPG)
- › Address card (EKACPG)
- › Remote user interface (EKRUPG)



Cooling only				080	100	130	150	180	210	240	260	
Capacity	Cooling	kW		80	105	131	152	182	209	236	254	
Nominal input	Cooling	kW		26.4	36.2	46.6	56.3	64.5	74.6	82.8	94.0	
EER				3.03	2.90	2.81	2.70	2.82	2.80	2.85	2.70	
Capacity Steps		%	0-50-100			0-25-50-75-100		21/29-43/50/57-71/79-100		22/28-40/50/56-72/78-100		0-25-50-75-100
Dimensions	(Height x Width x Depth)	mm	2,311x2,000x2,566			2,311x2,000x2,631		2,311x2,000x3,081		2,311x2,000x4,850		
Unit		kg	1,350	1,400	1,500	1,550	1,800	1,850	3,150	3,250		
Operating Weight		kg	1,315	1,415	1,517	1,569	1,825	1,877	3,189	3,292		
Water Heat Exchanger	Type		Brased plate									
	Minimum water volume in the system		l	358	470	295	341	408	468	529	569	
	Water flow rate	Min	l/min	115	151	188	218	261	300	339	364	
		Max	l/min	459	602	754	871	1,043	1,198	1,355	1,456	
	Nominal Water pressure drop	Cooling	kPa	59	58	52	49	52	53	51	47	
Air heat exchanger	Type		Cross fin coil / Hi-Xss tubes and PE coated									
Sound Power		Cooling	dBA	86		88	89	90		91		
Compressor	Type		Scroll compressor									
	Model	Quantity	2		4							
Refrigerant circuit	Refrigerant type		R-410A									
	Refrigerant charge		kg	33		19	25	29		28	39	
	No of circuits		1		2							
	Refrigerant control		Electronic expansion valve									
Power Supply			3~/400V/50Hz									
Piping connections	Water heat exchanger inlet / outlet		3"od						3"			
	Water heat exchanger drain		1/2" g									

STRENGTHS

- › Wide capacity range: 80 to 250kW with 8 heat pump models
- › R-410A refrigerant
- › Multiple refrigerant circuits and multiple compressors per circuit
- › Reliable and efficient scroll with high EER values
- › Good part load efficiency (seasonal EER)
- › Anti-corrosion treated aluminium coils
- › Low operating noise levels
- › Easy 'plug and play' installation
- › Unit dimensions allow easy transport
- › Fans protected against abnormal operation (4 - 8 fans depending on unit size)
- › Safety valves in each circuit
- › Electronic circuit breakers
- › Electronic expansion valve



EWYQ-DAYN

- › 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 side of unit
- › Increased reliability via 2 independent refrigerant circuits
- › Dual circuit heat exchanger (from >100 kW)
- › Non hermetic filter/dryer
- › New Daikin controller (Pcso) with user friendly and powerful LCD interface

air-cooled



R-410A

OPTIONS (factory mounted)

- › Single pump contactor (OPSC)
- › Twin pump contactor (OPTC)
- › Single pump (OPSP)
- › Twin pump (OPTP) (1 pump house, dual motor)
- › High ESP pump (OPHP) (single pump only)
- › Buffer tank (OPBT)
- › Inverter fans (OPIF) (Not available with option OPLN)
- › Glycol 0°C / -10°C (OPZL)
- › Dual pressure relief valve (OP03)
- › Evaporator heater tape (OP10)
- › Option valves (discharge-, liquid line- and suction stop valve)
- › A-meter / V-meter (OP57)
- › Low Noise (OPLN) (=OPIF + compressor housing)
- › Condenser protection grills (OPCG)

EWYQ130-150DAYN



ELECTRONIC CONTROL



ACCESSORIES (kit)

- › Gateway for LON (EKLONPG)
- › Gateway for BACNET (EKBNPG)
- › Address card (EKACPG)
- › Remote user interface (EKRUPG)



Heat Pump				080	100	130	150	180	210	230	250		
Capacity	Cooling	kW		77	100	136	145	183	211	231	252		
	Heating	kW		87.7	114	149	165	199	225	258	281		
Nominal input	Cooling	kW		26.5	36.2	47.6	55.7	63.8	75.3	82.2	93.5		
	Heating	kW		30.0	38.1	49.6	58.8	68.0	77.0	84.2	96.6		
EER				2.91	2.76	2.86	2.6	2.87	2.8	2.81	2.70		
COP				2.92	2.99	3	2.81	2.93	2.92	3.06	2.91		
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	
Dimensions	(Height x Width x Depth)		mm	2,311x2,000x2,566		2,311x2,000x2,631		2,311x2,000x3,081		2,311x2,000x4,850			
Unit				kg	1,400	1,450	1,550	1,600	1,850	1,900	3,200	3,300	
Operating Weight			kg	1,415	1,465	1,567	1,619	1,875	1,927	3,239	3,342		
Water Heat Exchanger	Type			Brased plate									
	Minimum water volume in the system			l	393	511	334	370	446	504	578	629	
	Water flow rate	Min	l/min	110	143	195	208	262	302	331		361	
		Max	l/min	503	654	854	946	1,141	1,290	1,479		1,611	
	Nominal Water pressure drop	Cooling / Heating	kPa	36/47	36/47	43 / 51	38 / 49	41 / 48	44 / 50	39 / 48		38 / 46	
Air heat exchanger		Type		Cross fin coil / Hi-Xss tubes and PE coated									
Sound Power		Cooling	dBA	86		88	89	90		91			
Compressor	Type			Scroll compressor									
	Model	Quantity		2		4							
Refrigerant circuit	Refrigerant type			R-410A									
	Refrigerant charge		kg	33	37	22		32		39			
	No of circuits			1		2							
	Refrigerant control			Electronic expansion valve									
Power Supply				3~/400V/50Hz									
Piping connections	Water heat exchanger inlet / outlet			3" od								3"	
	Water heat exchanger drain			1/2" g									



EWAD-AJYNN/S

air-cooled
INVERTER



STRENGTHS

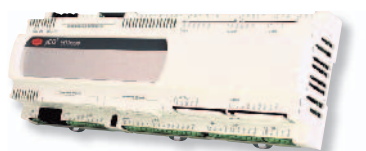
- › All models are PED pressure vessel approved
- › Inverter stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 329–515kW
- › 2 truly independent refrigerant circuits
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- › Quick start-up
- › Standard electronic expansion valve
- › ESEER up to 4.70
- › Good part load efficiency
- › Power factor $>0.95 \cos \varphi$

OPTIONS (factory mounted)

- › Total heat recovery
- › Partial heat recovery
- › Reduced noise / Low noise
- › Current limit display
- › High pressure manometers
- › Coil guards

STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Suction stop valve
- › Main switch



ELECTRONIC CONTROL

ACCESSORIES

- › Communication cards
(EKAC200J – EKACBAC – EKACLON)
- › Remote user interface (EKRPCJ)
- › Buffer tanks
(EKBT500N – EKBTC10N –
EKBT500C – EKBTC500C)
- › Sequencing panel (EKCSCII)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232
(EKCON)

COOLING ONLY			330	360	400	420	460	490	520	
Capacity (Eurovent)	Cooling	kW	329	358	395	423	459	488	515	
Capacity Steps		%	13.5 + 100							
EER			2.74	2.63	2.68	2.66	2.74	2.71	2.67	
ESEER			4.59	4.60	4.55	4.59	4.57	4.70	4.60	
Dimensions	(Height x Width x Depth)	mm	2,355x2,224x4,352		2,355x2,224x5,252		2,355x2,224x6,152			
Weight	Machine weight	kg	4,190		4,590		5,070			
	Operating Weight	kg	4,440		4,840		5,320			
Water Heat Exchanger Evaporator	Type		Shell and tube							
	Minimum water volume in the system	l	1,277	1,389	1,533	1,641	1,781	1,893	1,998	
	Water volume	l	271	264		256		248		
	Water flow rate	Min	l/min	515	565	622	673	727	768	814
		Nominal	l/min	943	1,026	1,132	1,213	1,316	1,399	1,476
		Max	l/min	1,360	1,491	1,637	1,759	1,935	2,025	2,139
Nominal water pressure drop	Cooling	kPa	60	61	72	67	78	69	76	
Air heat exchanger	Type		Louvered fins							
Fan	Nominal air flow	m³/min	1,960		2,450		2,940			
	Speed	rpm	700							
Compressor	Type		Single screw compressor							
	Model	Quantity	2							
Sound Power	Cooling	dBA	102.8		103.2		103.6			
Operation Range	Water side	Min~Max	-9.5 (OPZL)~-15							
	Air side	Min~Max	-10~32							
Refrigerant circuit	Refrigerant type		R-134a							
	Refrigerant charge	kg	80		100		120			
	No of circuits		2							
	Refrigerant control		Electronic expansion valve							
Power Supply			3~/400V/50Hz							
Piping connections	Evaporator water inlet/outlet		168.30							



EWAD-AJYNN/X air-cooled

HIGH EFFICIENCY INVERTER



STRENGTHS

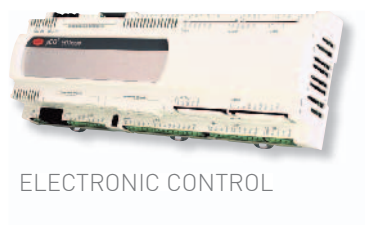
- › High efficiency inverter
- › ESEER up to 5.01
- › Up to 48°
- › All models are PED pressure vessel approved
- › Inverter stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 329-515kW
- › EER up to 3.03
- › 2 truly independent refrigerant circuits
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- › Good part load efficiency
- › Power factor $> 0.95 \cos \varphi$
- › Quick start-up
- › Standard electronic expansion valve

STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Suction stop valve
- › Main switch

OPTIONS (factory mounted)

- › Total heat recovery
- › Partial heat recovery
- › 20mm insulation on evaporator
- › Current limit display
- › High pressure manometers
- › Ambient outside temperature sensor and set-point reset
- › Coil guards
- › Reduced noise/Low noise



ELECTRONIC CONTROL

ACCESSORIES

- › Communication cards
(EKAC200J – EKACBAC – EKACLON)
- › Remote user interface (EKRUPI)
- › Buffer tanks
(EKBT500N – EKBTC10N –
EKBT500C – EKBTC500C)
- › Sequencing panel (EKCSII)
- › Plant visor (EKPVI)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232
(EKCON)

COOLING ONLY			330	360	400	420	460	490	520	
Capacity (Eurovent)	Cooling	kW	329	358	395	423	459	488	515	
Capacity Steps		%	13.5 + 100							
EER			2.78	2.66	2.73	2.70	2.79	2.75	2.71	
ESEER			4.79	4.82	4.78	4.84	4.81	5.01	4.84	
Dimensions	(Height x Width x Depth)	mm	2,355x2,224x4,352			2,355x2,224x5,252		2,355x2,224x6,152		
Weight	Machine weight	kg	4,190			4,590		5,070		
	Operating Weight	kg	4,440			4,840		5,320		
Water Heat Exchanger Evaporator	Type		Shell and tube							
	Minimum water volume in the system	l	1,277	1,389	1,533	1,641	1,781	1,893	1,998	
	Water volume	l	271	264		256		248		
	Water flow rate	Min	l/min	515	565	622	673	727	768	814
		Nominal	l/min	943	1,026	1,132	1,213	1,316	1,399	1,476
		Max	l/min	1,360	1,491	1,637	1,759	1,935	2,025	2,139
Nominal water pressure drop	Cooling	kPa	60	61	72	67	78	69	76	
Air heat exchanger	Type		Louvered fins							
Fan	Nominal air flow	m³/min	1,960			2,450		2,940		
	Speed	rpm	700							
Compressor	Type		Single screw compressor							
	Model	Quantity	2							
Sound Power	Cooling	dBA	102.8			103.2		103.6		
	Water side	Min~Max	°CDB -9.5 (OPZL)~15							
Refrigerant circuit	Air side	Min~Max	°CDB -10~32							
	Refrigerant type		R-134a							
	Refrigerant charge	kg	80			100		120		
	No of circuits		2							
	Refrigerant control		Electronic expansion valve							
Power Supply			3~/400V/50Hz							
Piping connections	Evaporator water inlet/outlet		168.30							



EWYD-AJYNN air-cooled


R-134a

STRENGTHS

- › Cooling function available on demand
- › Doubling up of major components provides the equivalent of two chiller units in one base frame
- › Excellent EER and COP values
- › Extremely low operating noise during part load cycles
- › No electric current surge
- › Inverter
- › Optimized defrost cycles
- › Optimum ESEER values
- › Partial heat recovery available
- › PID microprocessor control
- › Power factor up to 0.95 cos ϕ
- › Rapid set-point achievement
- › Significant savings in installation costs
- › Substantial cost savings compared to a traditional gas boiler installation

- › Twin independent refrigerating circuits ensure operational back up and unit reliability
- › Wide operating range

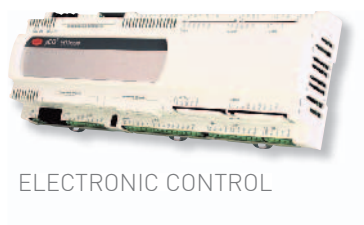
STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Suction stop valve
- › Main switch
- › Electronic expansion valve

OPTIONS (factory mounted)

- › Partial heat recovery
- › Fan silent
- › Gauges (High pressure side gauge)
- › Coil guards
- › Blank Cu/Al coils

EWYD-AJYNN



ELECTRONIC CONTROL

ACCESSORIES

- › Communication cards
(EKAC200J – EKACBAC - EKACLON)
- › Remote user interface (EKRUPI)
- › Buffer tanks
(EKBT500N - EKBTC10N -
EKBT500C - EKBTC500C)
- › Sequencing panel (EKCSII)
- › Plant visor (EKPVI)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232
(EKCON)



Heat Pump			260	280	300	320	340	360	380	
Capacity	Cooling	kW	255	275	298	321	343	368	385	
	Heating	kW	274	306	330	341	361	397	412	
Nominal input	Cooling	kW	89.8	99.3	108	116	123	132	142	
	Heating	kW	89.5	99.1	108	117	123	131	139	
EER			2.84	2.77	2.76	2.77	2.79		2.71	
COP			3.06	3.09	3.06	2.91	2.93	3.03	2.96	
Dimensions	(Height x Width x Depth)	mm	2,335x2,254x3,547				2,335x2,254x4,783			
Unit		kg	3,370				4,020			
Operating Weight		kg	3,500				4,150			
Water Heat Exchanger	Type		Shell and tube							
	Nominal Water pressure drop	Cooling	kPa	60	65	74	50	53	60	65
		Heating	kPa	69	79	90	56	58	69	74
Air heat exchanger		Type		Grooved tubes and ALU coated loured fins						
Sound Power		Cooling	dBA	99.5			100.4			
Compressor	Type		Semi-hermetic single screw compressor							
	Model	Quantity	2							
Refrigerant circuit	Refrigerant type		R-134a							
	Refrigerant charge	kg	76		84	96	104			
	No of circuits		2							
Power Supply			3~/400V/50Hz							
Piping connections	Evaporator water inlet/outlet		5"							



EWAD-MBYN

air-cooled



R-134a

STRENGTHS

- › DAIKIN stepless single screw compressor
- › Operation down to -15°C ambient temperature
- › Standard reverse phase protection
- › Freeze-up protection and prevention
- › PE treated condenser coil
- › VICTAULIC joints
- › Standard discharge shut-off valve
- › DICN operation as standard within same series
- › Flow switch
- › Modular design
- › High energy efficiency ratio

OPTIONS (factory mounted)

- › Main isolator switch
- › Condenser protection grilles
- › Low noise (-5 to -7dB(A))
- › Compressor suction stop valve
- › Ampere & Voltmeter (read-out on switchbox)
- › Chilled water temperature down to -5°C (ZH) or -10°C (ZL)
- › Hi-ESP fans
- › Dual pressure relief valve

ACCESSORIES (kit)

- › Leaving water control sensor for DICN
- › BMS gateway. (MODBUS/J-BUS/BACNET protocol)
- › Remote user interface (EKRUPC)

EWAD170MBYNN



CONTROL

- › Microprocessor control
- › Water inlet or outlet temperature control
- › Leaving water control sensor for DICN

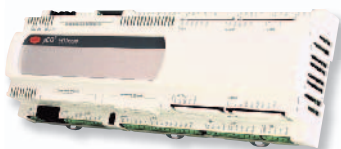
AVAILABLE INPUTS / OUTPUTS

Input

- › ON / OFF (per circuit)
- › Dual setpoint
- › Pump / flow switch

Output

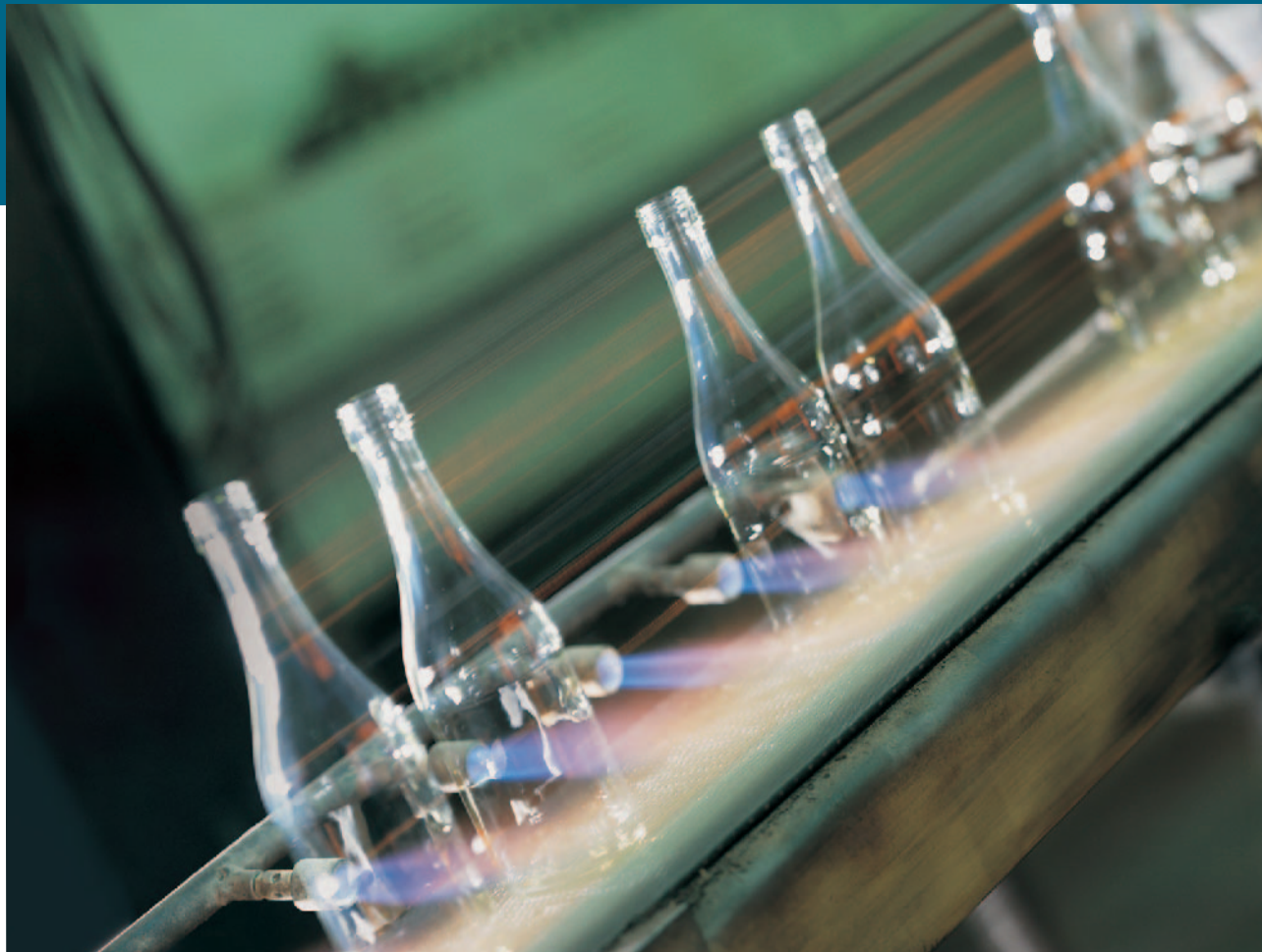
- › Compressor operation
- › Summary alarm (per circuit)
- › Pump relay contact



ELECTRONIC CONTROL



Cooling only				120	150	170	240	300	340	380	460	520	600
Capacity			kW	121	149	171	226	286	330	372	449	525	605
Nominal input	Cooling		kW	41.1	54.1	64.9	83.7	105	136	130	170	210	263
EER				2.94	2.75	2.63	2.7	2.72	2.43	2.86	2.64	2.5	2.3
Capacity Steps			%	30-100			15-100						
Dimensions	(Height x Width x Depth)		mm	2,221x3,973x1,109			2,250x4,280x2,238			2,250x5,901x2,238			
Unit			kg	1,391	1,600	1,705	2,710	3,210	3,260	5,335	5,595	5,775	5,855
Operating Weight			kg	1,441	1,663	1,768	2,790	3,340	3,390	5,497	5,779	5,959	6,039
Water Heat Exchanger	Type			Shell and tube									
	Minimum water volume in the system		l	590	730	840	550	700	810	910	1,100	1,280	1,480
	Water flow rate	Min	l/min	150	200		300	395		540	640		870
		Max	l/min	490	725		930	1,165		1,580	1,880		
	Nominal Water pressure drop	Cooling	kPa	40.1	18.6	24.8	41	36.6	49.1	20.8	25.6	35.1	46.6
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins									
Sound Power		Cooling	dBA	87	94	92	90	97	95	97	98	100	101
Compressor	Type			Semi-hermetic single screw compressor									
	Model	Quantity		1			2						
Refrigerant circuit	Refrigerant type			R-134a									
	Refrigerant charge	kg		26	37	42	30	41	44	65	70		
	No of circuits			1			2						
	Refrigerant control			Thermostatic expansion valve						Electronic expansion valve			
Power Supply				3~/400V/50Hz									
Piping connections	Evaporator water inlet/outlet			3" vc 1/2" g-f uni-iso 228/1	4" victaulic coupling 1/2" g-f uni-iso 228/1			5" victaulic coupling 1/2" g-f uni-iso 228/1		6" victaulic coupling 1/2" g-f uni-iso 228/1			



EWAD-AJYNN

air-cooled



R-134a

STRENGTHS

- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 184–588kW
- › Condenser protection grilles are available throughout the whole range
- › 2 truly independent refrigerant circuits
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- › Several operating sound levels down to 93dB

STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Suction stop valve
- › Main switch

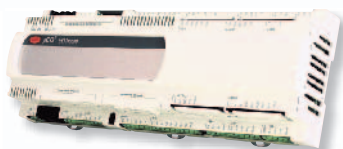
OPTIONS (factory mounted)

- › Single pump
- › Twin pump
- › High ESP pump
- › High ESP twin pump
- › Total heat recovery
- › Partial heat recovery
- › Reduced noise (440-480-500-550-600) / Low noise
- › Fan silent
- › Low ambient
- › Power factor 0.9 cos φ
- › Gauges
- › Coil guards
- › Soft starter (400-440-480-500-550 600)
- › Blank Cu/Al coils
- › Electronic expansion valve



ACCESSORIES

- › Communication cards
(EKAC200J – EKACBAC – EKACLON)
- › Remote user interface (EKRUPCI)
- › Buffer tanks
(EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- › Sequencing panel (EKCSCII)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON)



ELECTRONIC CONTROL

COOLING ONLY			190	200	230	260	280	300	320	340	360	400	440	480	500	550	600	
Capacity	Cooling	kW	184.0	197.8	225.0	245.0	261.0	275.0	298.4	321.0	370.0	401.3	451.0	478.7	510.1	551.0	588.0	
Nominal input	Cooling	kW	81.3	79.6	84.6	93.5	101.3	108.3	119.4	123.4	133.4	155.7	167.0	177.6	186.9	195.6	202.9	
EER			2.26	2.48	2.66	2.62	2.58	2.54	2.50	2.60	2.77	2.58	2.70	2.69	2.73	2.82	2.90	
Capacity Steps		%	12.5 - 100															
Dimensions	(Height x Width x Depth)	mm	2,340 x 2,235 x 2,240		2,340 x 2,235 x 3,140					2,340 x 2,235 x 4,040		2,340 x 2,235 x 3,140		2,340 x 2,235 x 4,040				
Unit		kg	2,380	2,466	2,766		2,806	2,846		3,166	3,186	3,552	3,932	3,997	4,052	4,092	4,122	
Operating Weight		kg	2,405	2,497	2,859		2,896	2,936		3,279	3,299	3,680	4,102	4,161	4,216	4,252	4,282	
Water Heat Exchanger	Type		Plate to plate heat exchanger		Shell and tube													
	water volume	l	25	31	93		90		113		128	170	164		160			
	Water flow rate	Min	l/min	311	374	327	333	361	368		503	512	920.32	1,240.87	1,317.08	1,403.20	1,516.00	1,617.81
		Nominal	l/min	527	567	645	702	748	788	855	920	1,061	1,150.41	1,292.57	1,371.96	1,461.67	1,579.17	1,685.22
	Max	l/min	985	1,182	1,033	1,053	1,141	1,162	1,164	1,590	1,618	1,380	1,551.09	1,646.35	1,754.00	1,895.01	2,022.26	
Air heat exchanger		Type	Grooved tubes and ALU coated louvred fins															
Sound Power		Cooling	dBA	93.7		94.3				94.7	97.2	95.8	96.7			98.2	98.7	
Compressor	Type		Semi-hermetic single screw compressor															
	Model	Quantity	2															
Refrigerant circuit	Refrigerant type		R-134a															
	Refrigerant charge	kg	44	60			70	80				70	80	78	76			
	No of circuits		2															
Power Supply			3~/400V/50Hz															
Piping connections	Evaporator water inlet/outlet		3"1/2" gas			4"1/2" gas					1/2" gas							



EWAD-AJYNN/A air-cooled

HIGH EFFICIENCY



R-134a

STRENGTHS

- › High Efficiency
- › Eurovent class A: EER up to 3.21
- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 247-626.6kW
- › 2 truly independent refrigerant circuits
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- › Several operating sound levels down to 96dB
- › Condenser protection grilles are available throughout the whole range

STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Suction stop valve
- › Main switch

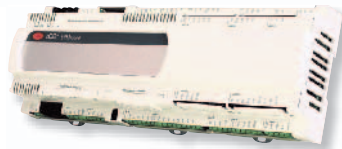
OPTIONS (factory mounted)

- › Single pump
- › Twin pump
- › High ESP pump
- › High ESP twin pump
- › Total heat recovery
- › Partial heat recovery
- › Fan silent
- › Low ambient
- › Power factor 0.9 cos φ
- › Gauges
- › Coil guards
- › Soft starter (500-550-600-650)
- › Blank Cu/Al coils
- › Electronic expansion valve



ACCESSORIES

- › Communication cards
(EKAC200J – EKACBAC - EKACLON)
- › Remote user interface (EKRUPCI)
- › Buffer tanks
(EKBT500N - EKBTC10N -
EKBT500C - EKBTC500C)
- › Sequencing panel (EKCSCII)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232
(EKCON)



ELECTRONIC CONTROL

Cooling only				260	280	320	340	360	380	420	500	550	600	650
Capacity	Cooling	kW		247.0	275.0	301.5	327.0	351.0	376.0	401.0	501.4	531.5	582.2	626.6
Nominal input	Cooling	kW		79.2	87.3	94.2	103.8	112.8	120.2	127.5	160.6	170.9	183.5	195.4
EER				3.12	3.15	3.20	3.15	3.11	3.13	3.15	3.12	3.11	3.17	3.21
Capacity Steps		%		12.5 - 100										
Dimensions	(Height x Width x Depth)	mm		2,340x2,235x3,140			2,340x2,235x4,040					2,340x2,235x4,940		
Unit		kg		2,866	3,186	3,286	3,366	3,376	3,321	3,386	4,252	4,642	4,652	
Operating Weight		kg		2,959	3,299	3,399	3,530	3,535	3,480	3,545	4,515	4,905	4,908	
Water Heat Exchanger	Type			Shell and tube										
	Water volume	l		93	113	164	159	263	256					
	Water flow rate	Min	l/min	373	489	495	537	586	593	598	1,152.09	1,221.25	1,337.75	1,439.77
		Nominal	l/min	708	788	864	937	1,006	1,078	1,150	1,440.11	1,526.57	1,672.19	1,799.71
		Max	l/min	1,180	1,546	1,565	1,697	1,853	1,876	1,890	1,728.14	1,831.88	2,006.63	2,159.66
Air heat exchanger	Type			Grooved tubes and ALU coated loured fins										
Sound Power	Cooling	dBA		96.8	97.2	99.7	98.7	99.2						
Compressor	Type			Semi-hermetic single screw compressor										
	Model	Quantity		2										
Refrigerant circuit	Refrigerant type			R-134a										
	Refrigerant charge	kg		80	100	110	95	110	80	104				
	No of circuits			2										
Power Supply				3~/400V/50Hz										
Piping connections	Evaporator water inlet/outlet			4"1/2" gas								1/2" gas		



EWAD-AJYNN/Q air-cooled


R-134a

EXTRA LOW NOISE

STRENGTHS

- › Standard efficiency extra low noise
- › Several operating sound levels down to 84dB
- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 203–500.8kW
- › 2 truly independent refrigerant circuits
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- › Condenser protection grilles are available throughout the whole range

OPTIONS (factory mounted)

- › Total heat recovery
- › Partial heat recovery
- › Fan silent
- › Power factor 0.9 cos φ
- › Gauges
- › Coil guards
- › Soft starter (400-440-460-500)
- › Blank Cu/Al coils
- › Electronic expansion valve

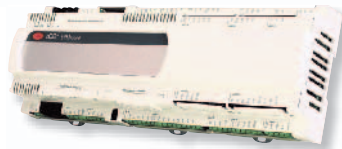
STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Suction stop valve
- › Main switch



ACCESSORIES

- › Communication cards
(EKAC200J – EKACBAC - EKACLON)
- › Remote user interface (EKRUPCI)
- › Buffer tanks
(EKBT500N - EKBTC10N -
EKBT500C - EKBTC500C)
- › Sequencing panel (EKCSCII)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232
(EKCON)



ELECTRONIC CONTROL

Cooling only				210	240	260	280	300	320	340	400	440	460	500
Capacity	Cooling	kW	203.0	231.1	252.7	270.8	286.1	299.4	308.8	400.5	428.5	458.4	500.8	
Nominal input	Cooling	kW	79.8	85.2	93.7	104.5	114.5	126.1	136.3	156.0	173.8	182.4	189.9	
EER			2.54	2.71	2.70	2.59	2.50	2.37	2.27	2.57	2.47	2.51	2.64	
Capacity Steps		%	12.5 - 100											
Dimensions	(Height x Width x Depth)	mm	2,340x2,235x3,140		2,340x2,235x4,040							2,340x2,235x4,940		
Unit		kg	3,046	3,366	3,466	3,546	3,556			3,567	3,722	3,912	3,972	
Operating Weight		kg	3,136	3,479	3,579	3,710	3,715			3,737	3,892	4,076	4,136	
Water Heat Exchanger	Type		Shell and tube											
	Water volume	l	90	113		164	159			170		164		
	Water flow rate	Min	l/min	364	474	483	518	566	572	571	918.27	982.47	1,051.02	1,148.24
		Nominal	l/min	582	662	724	776	820	858	885	1,147.84	1,228.09	1,313.78	1,435.30
		Max	l/min	1,152	1,500	1,527	1,637	1,790	1,809	1,807	1,377.41	1,473.70	1,576.54	1,722.36
Air heat exchanger		Type	Grooved tubes and ALU coated louvred fins											
Sound Power		Cooling	dBA	84.3	84.7							85.7	86.2	
Compressor	Type		Semi-hermetic single screw compressor											
	Model	Quantity	2											
Refrigerant circuit	Refrigerant type		R-134a											
	Refrigerant charge	kg	80		100	110			72	80	83	86		
	No of circuits		2											
Power Supply			3~/400V/50Hz											
Piping connections	Evaporator water inlet/outlet		1/2" gas											



EWAD-AJYNN/H air-cooled


R-134a

HIGH AMBIENT

STRENGTHS

- › High ambient
- › Up to 48°
- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 194.6–600.4kW
- › EER up to 3.03
- › 2 truly independent refrigerant circuits
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- › Several operating sound levels down to 96dB

OPTIONS (factory mounted)

- › Single pump
- › Twin pump
- › High ESP pump
- › High ESP twin pump
- › Total heat recovery
- › Partial heat recovery
- › Fan silent
- › Power factor 0.9 cos φ
- › Gauges
- › Coil guards
- › Soft starter (420-460-480-500-550-600)
- › Blank Cu/Al coils
- › Electronic expansion valve

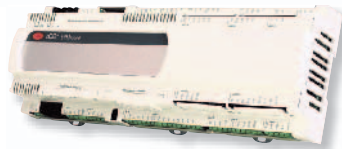
STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Suction stop valve
- › Main switch



ACCESSORIES

- › Communication cards
(EKAC200J – EKACBAC - EKACLON)
- › Remote user interface (EKRUPCI)
- › Buffer tanks
(EKBT500N - EKBTC10N -
EKBT500C - EKBTC500C)
- › Sequencing panel (EKCSCII)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232
(EKCON)



ELECTRONIC CONTROL

Cooling only			200	210	240	260	280	300	320	340	400	420	460	480	500	550	600
Capacity	Cooling	kW	194.6	208.3	233.5	256.1	273.7	289.3	306.4	335.6	381.2	426.0	468.1	502.1	529.5	561.0	600.4
Nominal input	Cooling	kW	77.2	75.6	83.0	91.0	97.8	103.9	112.1	120.3	127.4	146.5	160.3	170.8	180.1	192.2	198.4
EER			2.52	2.76	2.81	2.80	2.78	2.73	2.79	2.99	2.91	2.92	2.94	2.92	2.92	3.03	
Capacity Steps		%	12.5 - 100														
Dimensions	(Height x Width x Depth)	mm	2,340x2,235x2,240			2,340x2,235x3,140				2,340x2,235x4,040				2,340x2,235x4,940			
Unit		kg	2,380	2,466	2,766	2,806	2,846	3,166	3,186	3,942	4,202	4,277	4,332	4,392	4,402		
Operating Weight		kg	2,405	2,497	2,859	2,896	2,936	3,279	3,299	4,112	4,372	4,441	4,496	4,552	4,562		
Water Heat Exchanger	Type		Plate to plate heat exchanger						Shell and tube								
	Water volume	l	25	31	93	90	113	170	164	160							
	Water flow rate	Min	l/min	314	378	331	337	366	369	373	507	518	976.74	1,073.26	1,151.22	1,214.04	1,286.27
		Nominal	l/min	558	597	669	734	785	829	878	962	1,093	1,220.92	1,341.58	1,439.03	1,517.55	1,607.83
		Max	l/min	994	1,194	1,045	1,065	1,157	1,167	1,179	1,603	1,638	1,465.11	1,609.90	1,726.83	1,821.07	1,929.40
Air heat exchanger	Type		Grooved tubes and ALU coated louvred fins														
Sound Power	Cooling	dBA	98.2	98.8	99.2	101	96.7	99.7	99.2	99.7							
Compressor	Type		Semi-hermetic single screw compressor														
	Model	Quantity	2														
Refrigerant circuit	Refrigerant type		R-134a														
	Refrigerant charge	kg	44	60	70	80	76	86	95	104							
	No of circuits		2														
Power Supply			3~/400V/50Hz														
Piping connections	Evaporator water inlet/outlet		1/2" gas														



EWAD-BJYNN

air-cooled



R-134a

STRENGTHS

- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 640–1772kW
- › EER range up to 2.93
- › 2-3-4 truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- › Several operating sound levels down to 100dB

STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Main switch
- › Electronic expansion valve

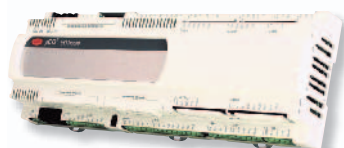
OPTIONS (factory mounted)

- › Suction stop valve
- › Single pump
(650-700-750-850-900-950-10-11-12-13)
- › Twin pump
(650-700-750-850-900-950-10-11-12-13)
- › Total heat recovery
- › Partial heat recovery
- › High ESP fans
- › Reduced noise / Low noise
- › Fan silent
- › Low ambient
- › Power factor 0.9 cos φ
- › A/V meter
- › Gauges
- › Coil guards
- › Soft starter
- › Blank Cu/Al coils



ACCESSORIES

- › Communication cards
(EKAC200J – EKACLON)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPECK)
- › Buffer tanks (EKBT500N - EKBTC10N -
EKBT500C - EKBTC500C)
- › Sequencing panel (EKCSCL)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON)



ELECTRONIC CONTROL

Cooling only				650	700	750	850	900	950	C10	C11	C12	C13	C14	C15	C16	C18		
Capacity	Cooling	kW		640	700	761	817	886	988	1057	1109	1166	1226	1322	1520	1641	1772		
Nominal input	Cooling	kW		233	250	271	290	302	358	372	396	417	435	452	540	580	604		
EER				2.75	2.8	2.81	2.82	2.93	2.76	2.84	2.8		2.82	2.92	2.81	2.83	2.93		
Capacity Steps			%	stepless 12.5 - 100					stepless 8.3 - 100					stepless 6.25 - 100					
Dimensions	(Height x Width x Depth)		mm	2,520x2,230x5,310				2,520x2,230x6,210		2,520x2,230x7,400		2,520x2,230x8,270		2,520x2,230x9,200		2,520x2,230x11000		2,520x2,230x11,900	
Unit			kg	4,910	4,990	5,256	5,480	5,580	7,550	7,830		8,420		8,570	9,552	10,632	10,832		
Operating Weight			kg	5,130	5,200	5,520	5,734	5,834	7,970	8,250		8,830		8,980	10,024	11,140	11,340		
Water Heat Exchanger	Type			Shell and tube															
	Water volume		l	254			246			415			402			254 + 246		246 + 246	
	Water flow rate	Min	l/min	960	962	840	844	1,136	1,011	1,015	1,408	1,406	1,412	1,413	1,867	1,684	2,295		
		Nominal	l/min	1,834	2,007	2,182	2,343	2,540	2,832	3,029	3,180	3,341	3,515	3,791	4,359	4,704	5,081		
	Max	l/min	3,035	3,043	2,655	2,670	3,593	3,197	3,210	4,453	4,445	4,464	4,467	5,904	5,327	7,258			
Air heat exchanger	Type			Grooved tubes and ALU coated louvred fins															
Sound Power		Cooling	dB(A)	100				101	100	101				102			103		
Compressor	Type			Semi-hermetic single screw compressor															
	Model	Quantity		2					3					4					
Refrigerant circuit	Refrigerant type			R-134a															
	Refrigerant charge		kg	99	108	118	128	153	162	172	182	192	236	256					
	No of circuits			2					3					4					
	Refrigerant control			Electronic expansion valve															
Power Supply				3~/400V/50Hz															
Piping connections	Evaporator water inlet/outlet			victaulic, diameter 168.3mm 1/2" gas					victaulic, diameter 219.1mm 1/2" gas					victaulic, diameter 168.3mm 1/2" gas					



EWAD-BJYNN/A air-cooled


R-134a

HIGH EFFICIENCY

STRENGTHS

- › High efficiency
- › EER range up to 3.33
- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 667–1920kW
- › 2-3-4 truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- › Several operating sound levels down to 100dB

STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Main switch
- › Electronic expansion valve

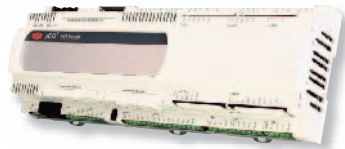
OPTIONS (factory mounted)

- › Suction stop valve
- › Single pump
(650-700-750-800-850-900-950-10-11-12-13-14-15)
- › Twin pump (650-700-800-850-900-950-10-11-12-13-14-15)
- › Total heat recovery
- › Partial heat recovery
- › High ESP fans
- › Reduced noise / Low noise
- › Fan silent
- › Low ambient
- › Power factor 0.9 $\cos \varphi$
- › A/V meter
- › Gauges
- › Coil guards
- › Soft starter
- › Blank Cu/Al coils



ACCESSORIES

- › Communication cards
(EKAC200J – EKACLON)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPECK)
- › Buffer tanks
(EKBT500N – EKBTC10N –
EKBT500C – EKBTC500C)
- › Sequencing panel (EKCSCL)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232
(EKCON)



ELECTRONIC CONTROL

Cooling only			650	700	800	850	900	950	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	
Capacity	Cooling	kW	667	723	800	855	903	926	974	1,038	1,094	1,177	1,222	1,282	1,354	1,430	1,557	1,710	1,806	1,920	
Nominal input	Cooling	kW	223	237	259	278	292	287	294	343	355	377	399	415	433	430	520	558	584	603	
EER			2.99	3.05	3.09	3.08	3.09	3.23	3.31	3.03	3.08	3.12	3.06	3.09	3.13	3.33	2.99	3.06	3.09	3.18	
Capacity Steps		%	stepless 12.5 - 100							stepless 8.3 - 100							stepless 6.25 - 100				
Dimensions	(Height x Width x Depth)	mm	2,520x2,230 x6,210		2,520x2,230 x7,110		2,520x2,230 x8,300		2,520x2,230 x9,200		2,520x2,230 x10,100		2,520x2,230 x11,000		2,520x2,230 x12,800		2,520x2,230 x13,670				
Unit		kg	5,205	5,419	5,660	5,790	5,890	6,333	6,563	8,420		8,950		9,390	9,540	10,355	10,960	11,168	11,368	12,144	
Operating Weight		kg	5,410	5,624	5,910	6,040	6,140	6,589	6,967	8,830		9,360		9,800	9,950	10,931	11,420	11,678	11,878	13,036	
Water Heat Exchanger	Type		Shell and tube																		
	Water volume	l	254		246		244	392	415			402			533	254+246	246+246	392+392			
	Water flow rate	Min	l/min	956	966	843	845	1,141	1,266	1,861	1,015	1,017	1,407		1,410	1,418	1,988	1,861	1,697	2,293	3,711
		Nominal	l/min	1,911	2,072	2,293	2,450	2,589	2,656	2,792	2,976	3,136	3,375	3,504	3,676	3,882	4,099	4,463	4,903	5,178	5,504
	Max	l/min	3,022	3,055	2,666	2,673	3,608	4,004	5,885	3,209	3,217	4,450		4,458	4,483	6,287	5,886	5,366	7,250	11,734	
Air heat exchanger	Type		Grooved tubes and ALU coated louvred fins																		
Sound Power	Cooling	dBA	101	100	101						102			103		102	103				
Compressor	Type		Semi-hermetic single screw compressor																		
	Model	Quantity	2						3						4						
Refrigerant circuit	Refrigerant type		R-134a																		
	Refrigerant charge	kg	107	116	126	136	146	156	165	174	184	194	204	214	224	252	272	282			
	No of circuits		2						3						4						
Power Supply			3~/400V/50Hz																		
Piping connections	Evaporator water inlet/outlet		victaulic, diameter 168.3mm 1/2" gas						victaulic, diameter 219.1mm 1/2" gas						victaulic, diameter 168.3mm 1/2" gas			v Ø 219.1 mm 1/2" gas			



EWAD-BJYNN/Q air-cooled


R-134a

EXTRA LOW NOISE

STRENGTHS

- › Standard efficiency extra low noise
- › Several operating sound levels down to 86dB
- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 538–1197kW
- › EER range up to 2.76
- › 2-3-4 truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops

OPTIONS (factory mounted)

- › Suction stop valve
- › Single pump
- › Twin pump
- › Total heat recovery
- › Partial heat recovery
- › High ESP fans (50-600-650-700-750-900-950-10-11-12)
- › Power factor 0.9 cos φ
- › A/V meter
- › Gauges
- › Coil guards
- › Soft starter
- › Blank cu/al coils

STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Main switch
- › Electronic expansion valve



ACCESSORIES

- › Communication cards
(EKAC200J – EKACLON)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPEK)
- › Buffer tanks (EKBT500N - EKBTC10N -
EKBT500C - EKBTC500C)
- › Sequencing panel (EKCSII)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON)



ELECTRONIC CONTROL

Cooling only			550	600	650	700	750	800	850	900	950	C10	C11	C12	
Capacity	Cooling	kW	538	604	667	725	780	805	893	944	1,015	1,056	1,102	1,197	
Nominal input	Cooling	kW	223	235	249	267	286	335	347	361	371	390	407	434	
EER			2.41	2.57	2.68	2.72	2.73	2.4	2.57	2.61	2.74	2.71		2.76	
Capacity Steps		%	stepless 12.5 - 100					stepless 8.3 - 100							
Dimensions	(Height x Width x Depth)	mm	2,520x2,230x5,310	2,520x2,230x6,210		2,520x2,230x7,110		2,520x2,230x8,300		2,520x2,230x9,200		2,520x2,230x10,100		25,20x2,230x11,000	
Unit		kg	5,230	5,445	5,659	5,900	6,030	8,190		8,725		9,310		9,750	
Operating Weight		kg	5,440	5,650	5,864	6,150	6,280	8,610		9,150		9,720		10,160	
Water Heat Exchanger	Type		Shell and tube												
	Water volume		l	261	254		246		424	415			402		
	Water flow rate	Min	l/min	716	953	956	841	839	1,053	1,008	1,012	1,013	1,397	1,406	1,413
		Nominal	l/min	1,543	1,731	1,912	2,078	2,235	2,307	2,559	2,705	2,909	3,028	3,160	3,431
		Max	l/min	2,263	3,013	3,023	2,661	2,652	3,330	3,187	3,199	3,203	4,417	4,447	4,467
Air heat exchanger		Type		Grooved tubes and ALU coated loured fins											
Sound Power		Cooling	dBA	86			87						88		89
Compressor	Type		Semi-hermetic single screw compressor												
	Model	Quantity	2						3						
Refrigerant circuit	Refrigerant type		R-134a												
	Refrigerant charge		kg	98	107	116	126	136	147	156	165	174	184	194	204
	No of circuits		2						3						
	Refrigerant control		Electronic expansion valve												
Power Supply			3~/400V/50Hz												
Piping connections	Evaporator water inlet/outlet		victaulic, diameter 168.3mm 1/2" gas						victaulic, diameter 219.1mm 1/2" gas						



STRENGTHS

- › High efficiency and extra low noise
- › EER range up to 2.75
- › Several operating sound levels down to 86dB
- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 569–1013kW
- › 2-3-4 truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops

STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Main switch
- › Electronic expansion valve

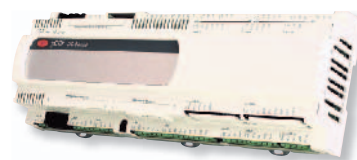
OPTIONS

(factory mounted)

- › Single pump
- › Twin pump
- › Total heat recovery
- › Partial heat recovery
- › High ESP fans (600-650-700-950-10)
- › Fan silent
- › Power factor 0.9 cos φ
- › Suction stop valve
- › A/V meter
- › Gauges
- › Coil guards
- › Soft starter
- › Blank Cu/Al coils

ACCESSORIES (kit)

- › Communication cards (EKAC200J – EKACLON)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPEK)
- › Buffer tanks (EKBT500N – EKBTC10N – EKBT500C – EKBTC500C)
- › Sequencing panel (EKCSCL)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON)



ELECTRONIC CONTROL

EWAD-BJYNN/Z

air-cooled

**R-134a**

HIGH EFFICIENCY - EXTRA LOW NOISE

Cooling only				600	650	700	850	900	950	C10
Capacity	Cooling	kW		569	631	668	840	914	953	1013
Nominal input	Cooling	kW		220	241	268	328	342	367	368
EER				2.59	2.62	2.49	2.56	2.67	2.6	2.75
Capacity Steps			%	steplless 12.5 - 100			steplless 8.3 - 100			
Dimensions	(Height x Width x Depth)		mm	2520x2230x6210	2520x2230x7110		2520x2230x9200	2520x2230x10100		2520x2230x11000
Unit			kg	5659	5900	6030	8725	9310	9750	
Operating Weight			kg	5864	6150	6280	9150	9720		10160
Water Heat Exchanger	Type			Shell and tube						
	Water volume		l	254	246		415	402		
	Water flow rate	Min	l/min	958	843		1032	1318	1317	1325
		Nominal	l/min	1631	1808	1914	2409	2620	2731	2903
		Max	l/min	3028	2665	2666	3263	4169	4164	4189
Air heat exchanger	Type			Grooved tubes and ALU coated loured fins						
Sound Power		Cooling	dBA	86			87	88		
Compressor	Type			Semi-hermetic single screw compressor						
	Model	Quantity		2			3			
Refrigerant circuit	Refrigerant type			R-134a						
	Refrigerant charge		kg	106	115	124	159	168	177	186
	No of circuits			2			3			
Power Supply				3~/400V/50Hz						
Piping connections	Evaporator water inlet/outlet			victaulic, diameter 168.3mm1/2" gas			victaulic, diameter 219.1mm1/2" gas			



OPTIONS (factory mounted)

- › dual pressure relief valve on the condenser.
- › Main isolator switch.
- › Condenser protection grilles.
- › Low noise (-5 to -7dB(A)).
- › Compressor suction stop valve
- › Ampere & Voltmeter (read-out on switchbox).
- › Hi-ESP fans.
- › Inverter fans.
- › Heat Recovery (see also p. 52)

AVAILABLE INPUTS / OUTPUTS

Input

- › ON / OFF (per circuit).
- › Dual setpoint through analog signal.
- › Floating setpoint.
- › Pump / flow switch.

Output

- › Compressor operation.
- › Summary alarm (per circuit).
- › Pump relay contact.

STRENGTHS

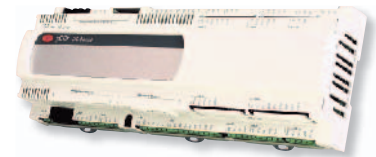
- › DAIKIN steplless single screw compressor
- › Operation down to -15°C ambient temperature
- › Standard reverse phase protection
- › Freeze-up protection and prevention
- › PE treated condenser coil
- › VICTAULIC joints and filter as standard
- › DICN operation as standard within same series
- › Chilled water temperature down to 5°C(ZH) or -10°C(ZL) (user setting)
- › Standard discharge shut-off valve
- › Standard flow switch
- › Modular design

ACCESSORIES (kit)

- › leaving water control sensor for DICN.
- › BMS card.
- › BMS gateway (MODBUS/J-BUS/BACNET protocol).
- › Remote user interface (EKPUPC).

CONTROL

- › Microprocessor control.
- › Water inlet or outlet temperature control
- › Weekly operating schedule.



ELECTRONIC CONTROL

screw

**R-407C**

air-cooled

EWAP-MBYN

55

EWAP-MBYN

screw

Cooling only			110	140	160	200	280	340	400	460	540	
Capacity	Cooling	kW	111.00	144.00	164.00	199.00	285.00	349.00	395.00	468.00	541.00	
Nominal input	Cooling	kW	41.90	51.80	64.30	78.10	108.00	140.00	156.00	189.00	222.00	
EER			2.65	2.78	2.55		2.64	2.49	2.53	2.48	2.44	
Capacity Steps		%	30-100						15-100			
Dimensions	(Height x Width x Depth)	mm	2250x2346x2238			2250x4280x2238			2250x5901x2238			
Unit		kg	1417	1571	1660	2203	2583	2633	4865	4988	5111	
Operating Weight		kg	1425	1584	1676	2223	2610	2667	4939	5069	5199	
Water Heat Exchanger	Type		Brased plate, one per circuit									
	Water volume		l	540	700	800	970	1390	1710	970	1140	1320
	Water flow rate	Min	l/min	160	205	235	285	410	500	565	670	775
		Max	l/min	640	825	940	1140	1640	2000	2265	2680	3100
	Nominal Water pressure drop		Cooling	kPa	50.0	48.0	41.0	31.0	42.0	52.0	35.0	39.0
Air heat exchanger	Type		Cross fin coil/Hi-X tubes and PE coated waffle louvre fins									
Sound Power		Cooling	dBA	91	96	97	99	100	101			
Compressor	Type		Semi-hermetic single screw compressor									
	Model	Quantity	1									
Refrigerant circuit	Refrigerant type		R-407C									
	Refrigerant charge	kg	27.0	39.0	42.0	58.0	84.0	128.0	129.0	130.0		
	No of circuits		1						2			
	Refrigerant control		Thermostatic expansion valve									
Power Supply			3~/400V/50Hz									
Piping connections	Evaporator water inlet/outlet		flexible coupling + counterpipe for welding 3"odfield installation			flexible coupling + counterpipe for welding 3"od1/4" g		flexible coupling + counterpipe for welding 3"1/4" g		flexible coupling + counterpipe for welding 5"1/4" g		
	Relief device outlet		compressor: 1"npt				compressor: 2x1"npt		compressor: 2x(1"npt)	compressor: 1x(1"npt) + 1x(2x1"npt)	compressor: 2x(2x1"npt)	



EWTP-MBYN heat recovery

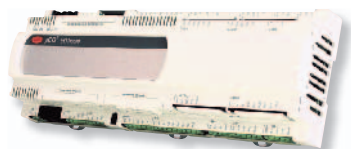
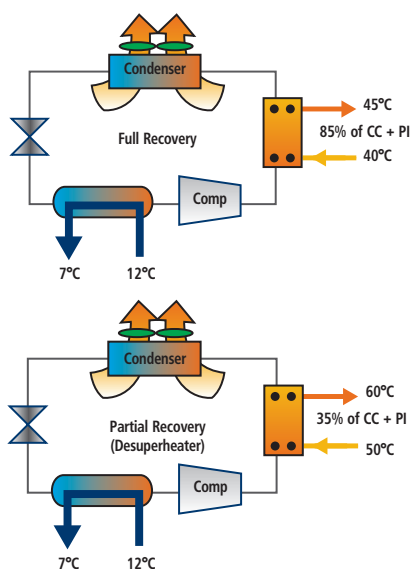

R-407C

BASED ON EWAP-MBYN

In many applications there often exists a simultaneous cooling and heating demand requirement alongside one another. To benefit from this Daikin offer the full range of R-407C EWTP110-540MBYN chillers with heat recovery. This option further increases the application flexibility and extends possibilities in the hotel and leisure industry as well as the industrial and process sectors.

By energetically recovering useful heat from the cooling cycle that would otherwise be rejected to outside COPs of up to 5.62 can be realized in heat recovery mode. The heat recovery unit aims to achieve an optimum balance between cooling and heat recovery to maximize the unit efficiency and offer savings in hot water production. For full heat recovery both sensible and latent heat exchange will occur in the recovery exchanger. Inverter fans will be used to control the recovery outlet water temperature, by throttling back the airflow and maintaining the required condensing temperature.

As a desuperheater the sensible heat from the hot discharge gas will be recovered, while the latent heat exchange will occur in the air-cooled condenser. The units efficiency is maintained as condensing pressure can be reduced due to air-cooled condenser becoming oversized. Hot water temperatures up to 70°C can be achieved.



ELECTRONIC CONTROL

Heat recovery				110	140	160	200	280	340	400	460	540	
Capacity	Cooling	kW		107.00	138.00	158.00	191.00	274.00	335.00	379.00	449.00	520.00	
	Cooling during heat recovery	kW		97.70	126.00	144.00	171.00	251.00	311.00	337.00	401.00	465.00	
	Heat recovery	kW		116.00	148.00	176.00	208.00	301.00	377.00	407.00	434.00	441.00	
Nominal input	Cooling	kW		43.70	54.00	67.00	81.30	113.00	146.00	163.00	197.00	232.00	
	Heat recovery	kW		39.40	47.80	62.40	73.20	103.00	132.00	142.00	177.00	214.00	
EER				2.45	2.56	2.36	2.35	2.42	2.29	2.33	2.28	2.24	
COP				5.44	5.73	5.13	5.17	5.36	5.21	5.24	4.71	4.24	
Capacity Steps			%	30-100 (stepless)						15-100 (stepless)			
Dimensions	(Height x Width x Depth)		mm	2250x2346x2238				2250x4280x2238		2250x5901x2238			
Unit			kg	1465	1629	1723	2266	2646	2727	4990	5113	5236	
Operating Weight			kg	1483	1654	1752	2299	2692	2784	5090	5220	5350	
Water Heat Exchanger	Type			Brased plate, one per circuit									
	Minimum water volume in the system			l	520	680	770	930	1340	1640	930	1100	1270
	Water flow rate	Min	l/min	160	205	235	285	410	500	565	670	775	
		Max	l/min	640	825	940	1140	1640	2000	2265	2680	3100	
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and chromate coated waffle louvre fins									
Sound Power		Cooling	dBa	89	94		95	96	98	99			
Compressor	Type			Semi-hermetic single screw compressor									
	Model	Quantity		1									
Refrigerant circuit	Refrigerant type			R-407C									
	Refrigerant charge		kg	32.0	46.0	49.0	70.0	110.0		79.0	80.0		
	No of circuits			1						2			
	Refrigerant control			Thermostatic expansion valve									
Power Supply				3~/400V/50Hz									
Piping connections	Evaporator water inlet/outlet			flexible coupling + counterpipe for welding 3" od field installation			flexible coupling + counterpipe for welding 3" 1/4" g			flexible coupling 5" 1/4" g			
	Heat recovery condenser inlet/outlet			2" g									



EWAP-AJYNN

air-cooled



R-407C

STRENGTHS

- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-407C
- › Cooling range: 790–1650kW
- › EER range up to 2.35
- › 2 -3 truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
- › Several operating sound levels down to 101dB

STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Main switch
- › Electronic expansion valve

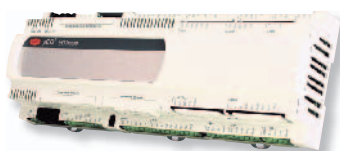
OPTIONS (factory mounted)

- › Single pump (800-900-950-10-11-12-13-14)
- › Twin pump (800-900-950-10-11-12-13-14)
- › Total heat recovery
- › Partial heat recovery
- › High ESP fans
- › Reduced noise / Low noise
- › Fan silent
- › Low ambient
- › Power factor 0.9 cos ϕ
- › Suction stop valve
- › A/V meter
- › Gauges
- › Coil guards
- › Soft starter
- › Blank cu/al coils



ACCESSORIES

- › Communication cards
(EKAC200J – EKACLON)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKUPCK)
- › Buffer tanks (EKBT500N - EKBTC10N -
EKBT500C - EKBTC500C)
- › Sequencing panel (EKCSCII)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON)



ELECTRONIC CONTROL

COOLING ONLY			800	900	950	C10	C11	C12	C13	C14	C15	C16	C17	C18	
Capacity	Cooling	kW	790	875	944	1026	1092	1158	1284	1354	1426	1516	1583	1650	
Nominal input	Cooling	kW	340	373	405	442	476	507	546	578	609	647	682	717	
EER			2.32	2.35	2.33	2.32	2.29	2.28	2.35	2.34			2.32	2.3	
Capacity Steps		%	stepless 12.5-100						stepless 8.3-100						
Dimensions	(Height x Width x Depth)	mm	2520x6210x2230	2520x7110x2230	2520x8010x2230	2520x9170x2230	2520x10070x2230	2520x10970x2230	2520x11870x2230						
Unit		kg	5165	5425	5555	5795	5905	7990	8305	8435	8890	8905	9155	9265	
Operating Weight		kg	5430	5710	5840	6070	6180	8270	8775	8905	9360	9350	9600	9710	
Water Heat Exchanger	Type		Shell and tube												
	Water volume		l	278	271	256	263	432	419						
	Water flow rate	Min	l/min	882	1090	1096	1371	1373	1212	1614	1626	1642	2357	2359	2365
		Nominal	l/min	2265	2508	2706	2941	3130	3320	3681	3882	4088	4346	4538	4730
		Max	l/min	2788	3445	3465	4337	4341	3833	5104	5141	5192	7453	7460	7479
Air heat exchanger	Type		Grooved tubes and ALU coated louvred fins												
Sound Power		Cooling	dBA	101	102	103			104						
Compressor	Type		Semi-hermetic single screw compressor												
	Model	Quantity	2					3							
Refrigerant circuit	Refrigerant type		R-407C												
	Refrigerant charge	kg	120	130	140	150	160	180	190	200	210	220	230	240	
	No of circuits		2					3							
	Refrigerant control		Electronic expansion valve												
Power Supply			3~/400V/50Hz												
Piping connections	Evaporator water inlet/outlet		victaulic, diameter 219.1mm 1/2" gas						victaulic, diameter 273mm 1/2" gas						



EWAP-AJYNN/A air-cooled

HIGH EFFICIENCY



R-407C

STRENGTHS

- › High efficiency
- › Several operating sound levels down to 102dB
- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-407C
- › Cooling range: 854–1729kW
- › EER range up to 2.69
- › 2 -3 truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return

STANDARD AVAILABLE

- › Glycol application
- › Evaporator heater
- › Main switch
- › Electronic expansion valve

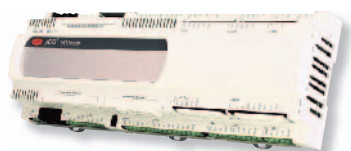
OPTIONS (factory mounted)

- › Suction stop valve
- › Single pump (800-900-950-10-11-12-13-14)
- › Twin pump (800-900-950-10-11-12-13-14)
- › Total heat recovery
- › Partial heat recovery
- › High ESP fans
- › Reduced noise / Low noise
- › Fan silent
- › Low ambient
- › Power factor 0.9 cos φ
- › A/V meter
- › Guages
- › Coil guards
- › Soft starter
- › Blank Cu / Al coils



ACCESSORIES

- › Communication cards (EKAC200J – EKACLON)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPEK)
- › Buffer tanks (EKBT500N - EKBTC10N - EKBTC500C - EKBTC500C)
- › Sequencing panel (EKCSCL)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON)



ELECTRONIC CONTROL

Cooling only				850	900	950	C10	C11	C12	C13	C14	C15	C16	C17	C18
Capacity	Cooling	kW		854	954	1028	1124	1196	1253	1357	1427	1497	1595	1644	1729
Nominal input	Cooling	kW		319	354	386	424	458	476	512	542	575	611	654	678
EER				2.67	2.69	2.66	2.65	2.61	2.63	2.65	2.63	2.60	2.61	2.51	2.55
Capacity Steps		%		stepless 12.5-100					stepless 8.3-100						
Dimensions	(Height x Width x Depth)	mm		2520x8010x2230	2520x8910x2230	2520x9810x2230	2520x11870x2230	2520x12770x2230	2520x13670x2230	2520x14570x2230					
Unit		kg		5900	6170	6290	6525	6645	9050	9505	9625	10060	10075	10410	10470
Operating Weight		kg		6185	6440	6560	6780	6900	9320	9980	10100	10530	10520	10860	10920
Water Heat Exchanger	Type			Shell and tube											
	Water volume	l		271	256	270	278	432	419						
	Water flow rate	Min	l/min	1084	1351	1374	1169	1176	1560	1629	1643	1634	2346	2356	2390
		Nominal	l/min	2448	2735	2947	3222	3429	3592	3890	4091	4291	4572	4713	4957
		Max	l/min	3428	4271	4345	3696	4934	5153	5195	5166	7417	7452	7559	
Air heat exchanger	Type			Grooved tubes and ALU coated loured fins											
Sound Power	Cooling	dBA		102	103	104	105								
Compressor	Type			Semi-hermetic single screw compressor											
	Model	Quantity		2	3										
Refrigerant circuit	Refrigerant type			R-407C											
	Refrigerant charge	kg		160	170	180	190	200	240	250	260	270	280	290	300
	No of circuits			2	3										
	Refrigerant control			Electronic expansion valve											
Power Supply				3~/400V/50Hz											
Piping connections	Evaporator water inlet/outlet			victaulic, diameter 219.1mm 1/2" gas						victaulic, diameter 273mm 1/2" gas					

CONDENSERLESS

Daikin offers you flexible condenserless chillers with remote condenser, which can be used to satisfy applications with special requirements in the field of available space, sound level or extreme operating conditions. In these exceptional cases, remote condenser solutions can be preferred over standard air-cooled or water-cooled solutions.

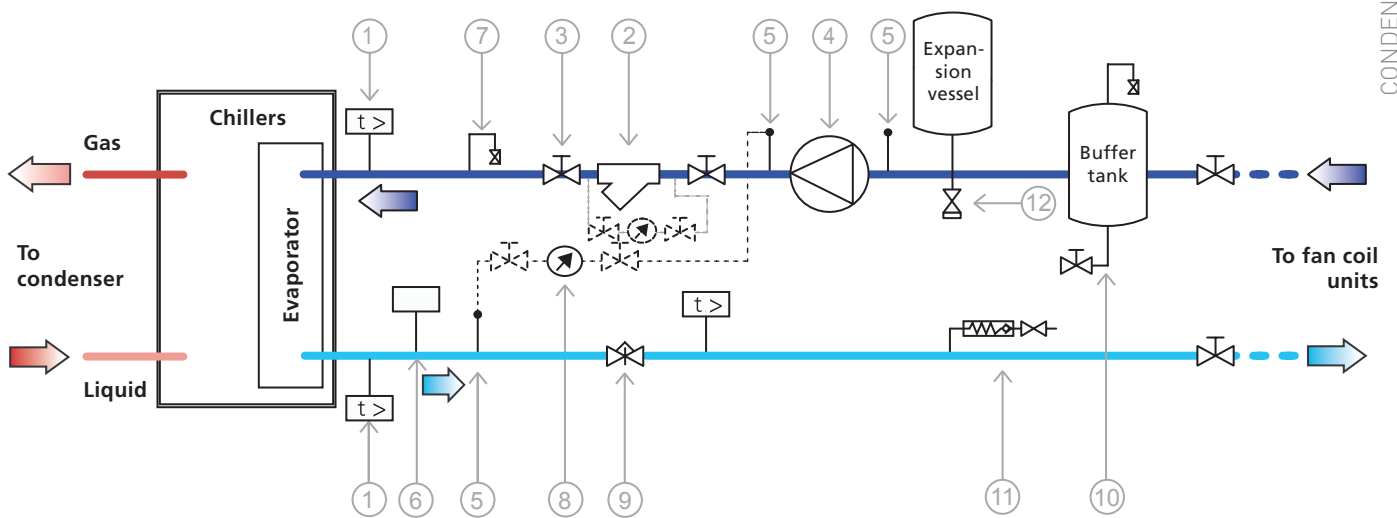
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1. Temperature sensor
2. Filter
3. Shut-off valve
4. Pump
5. Pressure port
6. Flow switch
7. Air purge
8. Pressure gauge
9. Balancing valve
10. Drain valve
11. Charging valve
12. Safety valve



CONDENSERLESS





STRENGTHS

- › One of the most compact units in the market (60cm x 60cm x 60cm for models 012 to 030)
- › Daikin scroll compressor
- › Standard main isolator switch
- › Basic hydraulic components : included as a kit with the unit: flow switch, air purge, filter + shut-off valves
- › Standard reverse phase protection

OPTIONS

(factory mounted)

- › Chilled water temperature down to - 5°C (ZH) or -10°C (ZL)

ACCESSORIES (kit)

- › Compressor soundproof material (-3dBA)
- › Hydraulic module (see page 83)
- › BMS gateway (MODBUS/J-BUS / BACNET protocol)
- › Remote user interface

CONTROL

- › Microprocessor control
- › Water inlet temperature control

AVAILABLE INPUTS / OUTPUTS

Input

- › Remote ON / OFF
- › Pump contact

Output

- › Compressor operation
- › Summary alarm
- › Pump relay contact



ELECTRONIC CONTROL

EWLP-KAW1N condenserless

scroll



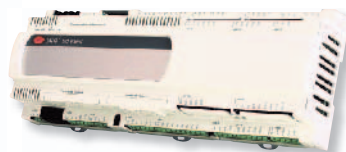
R-407C



Cooling only				012	020	026	030	040	055	065
Capacity	Cooling	kW		12.1	20.0	26.8	31.2	40.0	53.7	62.4
Nominal input	Cooling	kW		4.2	6.6	8.5	10.1	13.4	17.8	20.3
EER				2.88	3.03	3.15	3.09	2.99	3.02	3.07
Capacity Steps		%	1					2		
Dimensions	(Height x Width x Depth)	mm	600x600x600					600x600x1200		
Unit		kg	108	141	147	151	252	265	274	
Water Heat Exchanger	Type		Brased plate							
	Minimum water volume in the system		l	62	103	134	155	205	268	311
	Water flow rate	Min	l/min	17	29	38	45	57	77	89
		Nominal	l/min	35	57	77	89	115	154	179
		Max	l/min	69	115	153	179	229	307	358
Sound Power		Cooling	dBA	64			71	67		74
Compressor	Type		Hermetically sealed scroll compressor							
	Model	Quantity	1					2		
Refrigerant circuit	Refrigerant type		R-407C							
	No of circuits		1					2		
	Refrigerant control		Thermostatic expansion valve							
Power Supply			3N~/400V/50Hz							
Piping connections	Evaporator water inlet/outlet		fbsp 25field installation					fbsp 40field installation		
	Liquid line connection		9.52 flare	12.7 flare			2x12.7 flare			
	Discharge line connection		12.7 flare	19.1 flare			2x19.1 flare			



ELECTRONIC CONTROL



STRENGTHS

- › DAIKIN stepless single screw compressor
- › Compact and modular design
- › Standard phase sequence controller
- › VICTAULIC joints
- › DICN operation as standard within same series
- › Standard discharge shut-off valve
- › Standard flow switch
- › Standard filter

OPTIONS (factory mounted)

- › Main isolator switch
- › Low noise (-6dB(A))
- › Compressor suction stop valve

- › Ampere and Voltmeter (read-out on switchbox)
- › Chilled water temperature down to -5°C (ZH) or -10°C (ZL)
- › Dual pressure relief valve

ACCESSORIES (kit)

- › BMS gateway (MODBUS / J-BUS / BACNET protocol)
- › Remote user interface

CONTROL

- › Microprocessor control
- › Water inlet temperature control
- › Weekly operation schedule

AVAILABLE INPUTS / OUTPUTS

Input

- › ON / OFF
- › Pump contact
- › Dual setpoint through analog signal
- › Floating set point

Output

- › Compressor operation
- › Summary alarm
- › Fan-condenser relay contacts
- › Pump relay contact

screw

**R-134a**

Compact line

EWLD-MBYN

65

EWLD-MBYN

screw

Cooling only				120	170	240	260	340	400	480	500	540
Capacity	Cooling	kW		116.00	170.00	235.00	265.00	340.00	405.00	470.00	500.00	530.00
Nominal input	Cooling	kW		32.00	49.80	66.50	77.90	99.60	116.00	133.00	144.00	156.00
EER				3.63	3.41	3.53	3.4	3.41	3.49	3.53	3.47	3.4
Capacity Steps			%	30-100 stepless				15-100 stepless				
Dimensions	(Height x Width x Depth)	mm	1018x2681 (3051)x930	1018x2681 (3254)x930				2000x2681 (3254)x930				
Unit			kg	891	1110	1342	1428	2220	2452	2684	2770	2856
Operating Weight			kg	907	1130	1369	1462	2260	2497	2738	2831	2924
Water Heat Exchanger	Type			Brased plate, one per circuit								
	Minimum water volume in the system		l	570	830	1150	1300	830	990	1150	1220	1295
	Water flow rate	Min	l/min	175	265	350	400	525	625	700	750	800
		Nominal	l/min	333	487	674	760	975	1161	1347	1434	1520
		Max	l/min	700	1070	1400	1600	2100	2500	2800	3000	3200
Sound Power			Cooling	dBA	87	93	94	93	96			
Compressor	Type			Semi-hermetic single screw compressor								
	Model	Quantity		1				2				
Refrigerant circuit	Refrigerant type			R-134a								
	No of circuits			1				2				
	Refrigerant control			Thermostatic expansion valve		Electronic expansion valve		Thermostatic expansion valve	Electronic expansion valve			
Power Supply				3~/400V/50Hz								
Piping connections	Evaporator water inlet/outlet			3'' od vc field installation	3'' victaulic coupling field installation							
	Liquid line connection			7/8''	1'' 1/8	1'' 3/8		2x1/8''	1''1/8 + 1''3/8	2x1'' 3/8		
	Discharge line connection			2'' 1/8			2'' 5/8	2x(2''1/8)			2'' 1/8+2'' 5/8	2x(2''5/8)



STRENGTHS

- › Cooling range: 161-526kW
- › EER range: 3.48-3.70
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › 1 or 3 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

STANDARD AVAILABLE

- › Glycol application
- › Main switch
- › Suction stop valve

- › Gauges
- › Electronic expansion valve

OPTIONS (factory mounted)

- › Partial heat recovery
- › Power factor 0.9 cos φ
- › A/V meter
- › Low noise
- › Soft starter
- › Liquid receiver

- › Modem (EKMODEM – EKGSMOD)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPECK)
- › Sequencing panel (EKCSCII)
- › Buffer tanks (EKBT500N – EKBTC10N – EKBTC500C – EKBTC10C)
- › Plant visor (EKPV2J)

ACCESSORIES

- › Communication cards (EKAC200J – EKACBAC – EKACLON)
- › Converter RS485 to RS232
- › Converter RS485 to USB

EWLD-DJYNN condenserless


R-134a

Cooling only				160	190	240	270	320	360	400	420	480	550
Capacity (Eurovent)	Cooling	kW		160.6	189	244	270.4	315.5	352.2	381.1	428.3	475.7	525.9
Nominal input (Eurovent)	Cooling	kW		45.4	54.3	65.9	74.6	90.6	99.7	108.6	120	131.5	148
Capacity Steps		%		25-100 (stepless)				12.5-100 (stepless)					
EER				3.54	3.48	3.7	3.62	3.48	3.53	3.51	3.57	3.62	3.55
Dimensions	(Height x Width x Depth)	mm		1,860x1,000x3,700				1,942x1,100x4,400					
Weight	Machine weight	kg		1,280		1,398		2,442		2,446		2,501	
	Operating Weight	kg		1,337		1,516		2,560		2,670			
Water Heat Exchanger	Type			Shell and tube - direct expansion									
	Water volume		l	1,151	1,354	1,749	1,938	1,130	1,262	1,365	1,535	1,704	1,884
	Water flow rate	Min	l/min	230.20	270.90	349.74	387.58	452.22	504.83	546.25	613.90	681.84	753.80
		Nominal	l/min	460.39	541.81	699.47	775.16	904.44	1,009.65	1,092.50	1,227.81	1,363.69	1,507.60
		Max	l/min	649.15	763.95	986.26	1,092.97	1,275.27	1,423.61	1,540.42	1,731.21	1,922.80	2,125.71
Nominal water pressure drop		Cooling	kPa	48	69	43	53	64	63	72	54		68
Compressor	Type			Semi-hermetic single screw compressor									
	Model	Quantity		1				2					
Sound Power		Cooling	dBA	88				90.5					
Operating Range	Evaporator	Min~Max	°C	-8 ~ 15									
	Condensing Temperature	Min~Max	°C	25 ~ 50									
Refrigerant circuit	Refrigerant type			R-134a									
	Refrigerant charge		kg	5				10					
	No of circuits			1				2					
	Refrigerant control			Electronic expansion valve									
Power Supply				3~/400V/50Hz									
Piping connections	Evaporator water inlet/outlet			88.9		114.3				139.7			



OPTIONS (factory mounted)

- › Total heat recovery
- › Partial heat recovery
- › Power factor 0.9 $\cos \varphi$
- › A/V meter
- › Soft starter
- › Liquid receiver

- › Backet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPCK)
- › Sequencing panel (EKSCSII)
- › Buffer tanks (EKBT500N – EKBTC10N – EKBT500C – EKBTC10C)
- › Plant visor (EKP2VJ)

ACCESSORIES

- › Communication cards (EKAC200J – EKACBAC – EKACLON)
- › Converter RS485 to RS232
- › Converter RS485 to USB
- › Modem (EKMODEM – EKGSMOD)



condenserless

EWLD-EJYNN

Cooling only				320	400	420	500	600	650	750	800	850	900	950	C10	C11	C12	C13	C14	C15	C16	C17	
Capacity (Eurovent)	Cooling			kW	328	391	428	504	596	657	730	788	850	919	966	1,003	1,078	1,125	1,188	1,267	1,319	1,370	1,422
Nominal input (Eurovent)	Cooling			kW	83.8	100	116	137	165	181	198	214	231	252	271	279	296	312	329	347	366	386	405
EER					3.91		3.69	3.68	3.61	3.63	3.69	3.68		3.65	3.56	-							
Dimensions	(Height x Width x Depth)		mm	1,921x1,461x3,338					2,113x1,350x4,332						2,398x2,153x4,470								
Weight	Machine weight		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				
	Operating 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			Shell and tube																			
	Water flow rate	Nominal	l/min	939	1,119.8	1,227.6	1,445.6	1,709.6	1,884.1	2,093	2,258.3	2,436.5	2,634	2,768.2	2,874.6	3,090.3	3,223.9	3,407	3,631.7	3,780.2	3,928.8	4,077.4	
	Nominal water pressure drop	Cooling	kPa	33.7	46.27	47.28	54.12	48.57	38.96	51.57	47.15	46.98	58.35	45.07	52.23	45.67	49.28	41.21	50.8	54.6	58.53	62.57	
Compressor	Type			Screw compressor																			
	Model	Quantity		1				2							3								
Sound Power		Cooling	dBA	93.6	94.6	96.6		96.9	97.3	97.8	98.8	99.8	98.3	98.6	99.8	100.6	101.2	101.8					
Operating Range	Evaporator	Min~Max	°CDB	-8 (OPZL)~15																			
	Condensor	Min~Max	°CDB	-																			
	Water side	Min~Max	°CDB	-																			
	Air side	Min~Max	°CDB	-																			
	Condensing temperature	Min~Max	°CDB	-																			
	Evaporating temperature	Min~Max	°CDB	-																			
Refrigerant circuit	Refrigerant type			R-134a																			
	Refrigerant charge		kg	5																			
	No of circuits			1				2							3								
	Refrigerant control			Electronic expansion valve																			
Power Supply				3~/400V/50Hz																			
Piping connections	Evaporator water inlet/outlet			168.30											219.10								

WATER-COOLED

Daikin offers you compact water-cooled chiller units which require only very limited space in a machine room.

Used for commercial or industrial applications, these chillers generate cold and hot water, which can be used for chilling, heating, or even both at the same time.

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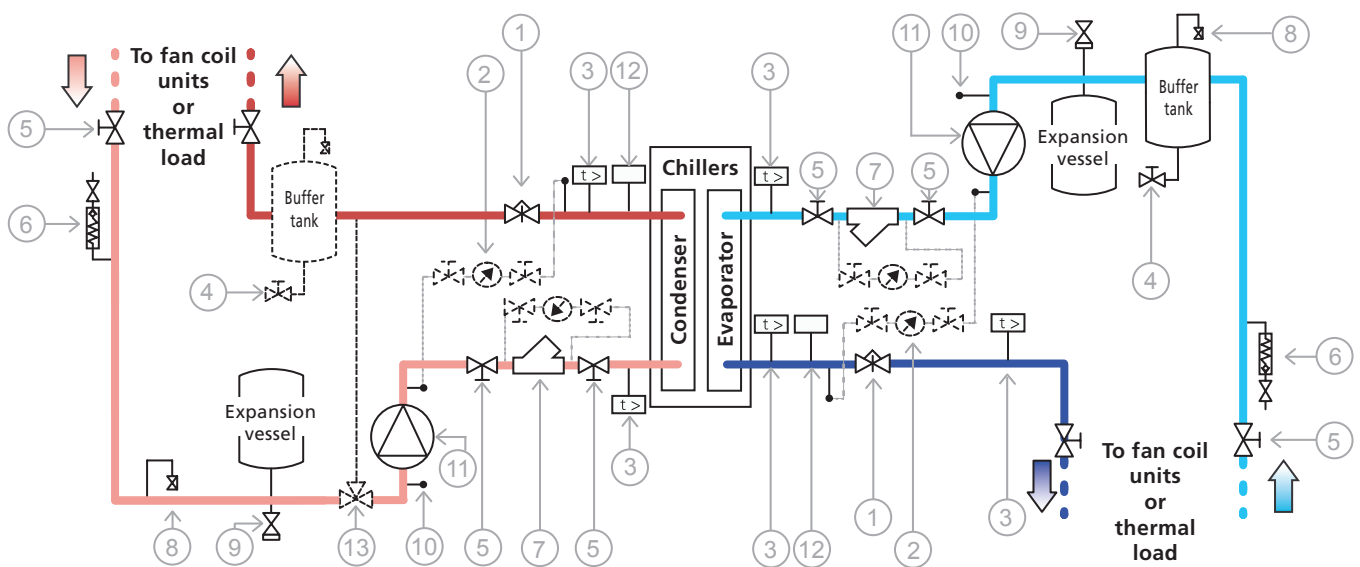
EWWP-KAW1N	70	D-DWSC/D-DWDC	90
EWWD-MBYN	72		
EWWD-DJYNN	74		
EWWD-DJYNN/A	76		
EWWD-CJYNN	78		
EWWD-EJYNN	80		
EWWD-EJYNN/A	82		
EWWD-BJYNN	84		
EWWQ-AJYNN	86		
EWWQ-AJYNN/A	88		

1. Balancing valve
2. Pressure gauge
3. Temperature sensor
4. Drain valve
5. Shut-off valve
6. Charging valve
7. Filter
8. Air purge
9. Safety valve
10. Pressure port
11. Pump
12. Flow switch
13. Bypass valve



69

WATER COOLED CHILLER



WATER-COOLED

STRENGTHS

- › One of the most compact units in the market (60cm x 60cm x 60cm for models 014 to 035)
- › Daikin scroll compressor
- › Standard reverse phase protection
- › Extension possible up to 195kW

FOR SINGLE MODULE UNITS

- › Standard main isolator switch
- › Basic hydraulic components for KA-series included with the unit as a kit: flow switch, air purge, filter + shut-off valves for both condenser and evaporator

OPTIONS

(factory mounted)

- › Chilled water temperature down to - 5°C (OPZH) or -10°C (OPZL)

ACCESSORIES (kit)

- › Compressor soundproof material (-3dBA)
- › Hydraulic module (see page 83)
- › BMS gateway (MODBUS/J-BUS / BACNET protocol)
- › Remote user interface

CONTROL

- › Microprocessor control
- › Water inlet temperature control
- › Cold water or hot water regulation

AVAILABLE INPUTS / OUTPUTS

Input

- › Remote ON / OFF
- › Pump contact
- › Cool/heat selection

Output

- › Compressor operation
- › Summary alarm
- › Pump relay contact



ELECTRONIC CONTROL

scroll



R-407C

EWWP-KAW1N water-cooled

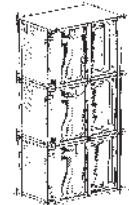
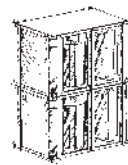
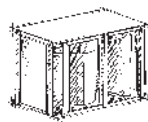
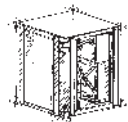
Cooling only/heating only			014	022	028	035	045	055	065	90	100	110	120	130	145	155	165	175	185	195	
Capacity	Cooling	kW	13.0	21.5	28.0	32.5	43.0	56	65.0	86.0	99.0	112	121	130	142	155	168	177	186	195	
Nominal input	Cooling	kW	3.61	5.79	7.48	8.75	12.1	16	18.3	23.6	27.3	31.0	33.1	35.2	39.1	42.8	46.5	48.6	50.7	52.8	
EER			3.60	3.71	3.74	3.71	3.55	3.5	3.55	3.64	3.63	3.61	3.66	3.69	3.63	3.62	3.61	3.64	3.67	3.69	
Capacity Steps		%	1				2			4				6							
Dimensions	(Height x Width x Depth)	mm	600x600x600				600x600x1200			1200x600x1200				1800x600x1200							
Unit		kg	118	155	165	172	300	320	334	600	620	640	654	668	920	940	960	974	988	1002	
Water Heat Exchanger	Type		Brased plate																		
	Minimum water volume in the system		l	62	103	134	155	205	268	311	205	268		311		205		268			311
	Water flow rate	Min	l/min	24	39	51	59	79	102	118	157	181	205	221	237	260	283	307	323	339	355
		Nominal	l/min	48	78	102	118	157	205	237	314	362	410	442	474	519	567	614	647	679	711
	Max	l/min	95	157	203	237	314	410	474	629	724	819	883	948	1038	1133	1229	1293	1357	1422	
Sound Power		Cooling	dBA	64			71	67		74	71			75	77	73		76	78	79	
Compressor	Type		Hermetically sealed scroll compressor																		
	Model	Quantity	1				2			4				6		8			6		
Refrigerant circuit	Refrigerant type		R-407C																		
	Refrigerant 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		
	No of circuits		1				2			4				6							
	Refrigerant control		Thermostatic expansion valve																		
Power Supply			3N~/400V/50Hz																		
Piping connections	Evaporator water inlet/outlet		fbsp 25 field installation				fbsp 40 field installation			2 x 2 x fbsp 38 field installation				3 x 2 x fbsp 38 field installation							
	Condenser water inlet/outlet		fbsp 25 field installation				fbsp 40 field installation			2 x 2 x fbsp 38 field installation				3 x 2 x fbsp 38 field installation							



EWWP090-130KAW1N



EWWP145-130KAW1N



SELECTION TABLE		1 MODULE (KA-series)							2 MODULES (KA-series)					3 MODULES (KA-series)					
Capacity index		014	022	028	035	045	055	065	090	100	110	120	130	145	155	165	175	185	195
Cooling capacity (kW)		13	21.5	28	32.5	43	56	65	86	99	112	121	130	142	155	168	177	186	195
Heating capacity (kW)		16	26.2	35.3	41	52.5	71	81	105	124	142	153	164	176	195	213	224	235	246
UNIT + CONTROL (factory mounted)	EWWP014KAW1N	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP022KAW1N	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP028KAW1N	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP035KAW1N	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP045KAW1N	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP055KAW1N	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
UNIT ONLY (Without Control)	EWWP065KAW1N	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
	EWWP045KAW1M	-	-	-	-	1	-	-	2	1	-	-	-	2	1	-	-	-	-
	EWWP055KAW1M	-	-	-	-	-	1	-	-	1	2	1	-	1	2	3	2	1	-
	EWWP065KAW1M	-	-	-	-	-	-	1	-	-	-	1	2	-	-	-	1	2	3
CONTROL (Kit)	ECB 1 MUW	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-
	ECB 2 MUW	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-	-	-
	ECB 3 MUW	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1

For example: for a 121 kW -HP system, select :
EWWP055KAW1
+ EWWP065KAW1



EWWD-MBYN

water-cooled



R-134a

STRENGTHS

- › Compact and modular design.
- › DAIKIN stepless single screw compressor.
- › Standard reverse phase protection.
- › VICTAULIC joints.
- › DICN operation as standard within same series.
- › Standard discharge shut-off valve.
- › Standard filter, flow switch.

ACCESSORIES (kit)

- › BMS gateway (MODBUS/J-BUS / BACNET protocol).
- › Remote user interface (EKRUPC).

CONTROL

- › Microprocessor control.
- › Water inlet or outlet temperature control.
- › Weekly operating schedule.

OPTION (factory mounted)

- › Main isolator switch.
- › Low noise (-5 to -7dB(A)).
- › Compressor suction stopvalve.
- › Ampere & Voltmeter
(read-out on switchbox).
- › Chilled water temperature down to -
5°C (ZH) or -10°C (ZL).
- › Dual pressure relief valve.

EWWD120MBYN



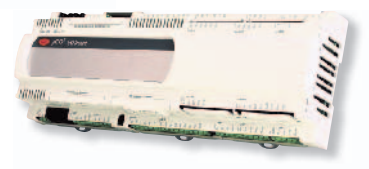
AVAILABLE INPUTS / OUTPUTS

Input

- › ON / OFF.
- › Pump contact.
- › Dual setpoint through analog signal.
- › Floating setpoint.

Output

- › Compressor operation.
- › Summary alarm (per circuit).
- › Pump relay contact.



ELECTRONIC CONTROL



Cooling only/heating only				120	180	240	280	360	440	500	520	540	
Capacity	Cooling		kW	123.00	183.00	249.00	273.00	366.00	432.00	498.00	522.00	546.00	
	Heating		kW	147.00	216.00	290.00	327.00	431.00	505.00	580.00	617.00	655.00	
Nominal input	Cooling		kW	28.70	45.20	61.60	69.20	90.50	107.00	123.00	131.00	138.00	
	Heating		kW	34.50	54.00	72.80	83.40	108.00	127.00	146.00	156.00	167.00	
EER				4.29	4.05	4.04	3.95	4.04		4.05	3.98	3.96	
COP				4.26	4	3.98	3.92	3.99	3.98	3.97	3.96	3.92	
Capacity Steps			%	30-100 stepless				15-100 stepless					
Dimensions	(Height x Width x Depth)		mm	1018x2681 (3051)x930	1018x2681 (3254)x930			2000x2681 (3254)x930					
Unit			kg	1000	1273	1527	1623	2546	2800	3034	3150	3346	
Operating Weight			kg	1032	1318	1588	1693	2636	2906	3156	3281	3485	
Water Heat Exchanger	Type			Shell and tube									
	Minimum water volume in the system		l	600	890	1220	1330	895	1055	1215	1275	1335	
	Water flow rate	Min	l/min	217	336	450	520	670	790	900	970	1040	
		Nominal	l/min	435	654	890	981	1309	1545	1781	1871	1962	
			Max	l/min	800	1050	1230	1370	2100	2290	2470	2600	2730
Pressure			Cooling	dBA	87	93	94	93	96				
Compressor	Type			Semi-hermetic single screw compressor									
	Model	Quantity		1				2					
Refrigerant circuit	Refrigerant type			R-134a									
	Refrigerant charge		kg	18.0	35.0	37.0	38.0	70.0	72.0	74.0	75.0	76.0	
	No of circuits			1				2					
	Refrigerant control			Thermostatic expansion valve		Electronic expansion valve		Thermostatic expansion valve	Electronic expansion valve				
Power Supply				3~/400V/50Hz									
Piping connections	Evaporator water inlet/outlet			3" od vc field installation	3" victaulic coupling field installation								
	Condensor water inlet/outlet			2" 1/2 victaulic m6	3" victaulic m6								
	Relief device outlet			1x1"	2x1"			3x1"	4x1"				



EWWD-DJYNN water-cooled


R-134a

STRENGTHS

- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 165.5–555.7kW
- › EER range up to 4
- › 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

STANDARD AVAILABLE

- › Glycol application
 - › Suction stop valve
 - › Main switch
 - › Gauges
- Electronic expansion valve

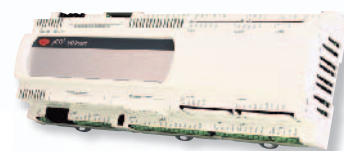
OPTIONS (factory mounted)

- › Total heat recovery
- › Partial heat recovery
- › Power factor 0.9 cos ϕ
- › A/V meter
- › Low noise
- › Soft starter
- › Cu/Ni heat exchanger



ACCESSORIES

- › Communication cards (EKAC200J – EKACLON)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPCK)
- › Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- › Sequencing panel (EKCSCII)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON)



ELECTRONIC CONTROL

Cooling only			170	210	260	300	320	380	420	460	500	600	
Capacity	Cooling	kW	165.5	201.2	252.8	280.4	333.9	372.2	402.5	448.3	493.7	555.7	
Nominal input	Cooling	kW	42.1	50.7	64.9	75.4	84.3	93.1	101.4	115.1	129.0	150.2	
EER			3.93	3.97	3.9	3.72	3.96	4	3.97	3.89	3.83	3.7	
Capacity Steps		%	steplless 25-100					steplless 12.5-100					
Dimensions	(Height x Width x Depth)	mm	1860x3435x920					1880x4305x860					
Unit		kg	1393	1410	1503		2687	2697	2702	2757	2762		
Operating Weight		kg	1470	1480	1650		2840	2850	2860	2970			
Water Heat Exchanger	Type		Shell and tube										
	Water volume		l	13	15			26	28	30			
	Water flow rate	Min	l/min	303	357	363	368	603	659	718	726	729	741
		Nominal	l/min	595	722	911	1020	1199	1334	1445	1615	1785	2024
		Max	l/min	959	1128	1147	1162	1908	2083	2270	2296	2305	2344
Sound pressure		Cooling	dB(A)	69.7					71.7				
Compressor	Type		Semi-hermetic single screw compressor										
	Model	Quantity	1					2					
Refrigerant circuit	Refrigerant type		R-134a										
	Refrigerant charge		kg	50					100				
	No of circuits		1					2					
	Refrigerant control		Electronic expansion valve										
Power Supply			3~/400V/50Hz										
Piping connections	Evaporator water inlet/outlet		1/2" gas										



EWWD-DJYNN/A water-cooled


R-134a

HIGH EFFICIENCY

STRENGTHS

- › High efficiency
- › EER range up to 4.7
- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 186.4–603.9kW
- › 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

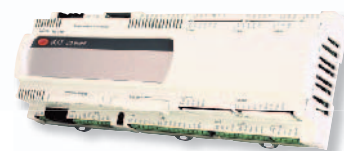
STANDARD AVAILABLE

- › Glycol application
- › Suction stop valve
- › Main switch
- › Gauges
- › Electronic expansion valve

OPTIONS (factory mounted)

- › Total heat recovery (190-230-28-320-380-400-460-500)
- › Partial heat recovery
- › Power factor 0.9 cos ϕ
- › A/V meter
- › Low noise
- › Soft starter
- › Cu/Ni heat exchanger

- › Communication cards
(EKAC200J – EKACLON)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPCK)
- › Buffer tanks (EKBT500N – EKBTC10N –
EKBT500C – EKBTC500C)
- › Sequencing panel (EKCSCII)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON)



ELECTRONIC CONTROL

Cooling only			190	230	280	320	380	400	460	500	550	650	
Capacity	Cooling	kW	186.4	223.3	276.5	306.7	366.3	408.2	443.6	496	540.5	603.9	
Nominal input	Cooling	kW	39.7	48.1	59.3	71.4	79.3	87.2	95	104.8	114.4	137.7	
EER			4.7	4.64	4.66	4.3	4.62	4.68	4.67	4.73	4.72	4.39	
Capacity Steps		%	steplless 25-100				steplless 12.5-100						
Dimensions	(Height x Width x Depth)	mm	1860x3435x920				1880x4305x860						
Unit		kg	1650	1665	1680		2800	2945	2955	2975	2990		
Operating Weight		kg	1800	1810	1820		3020	3280	3290	3315	3340		
Water Heat Exchanger	Type		Shell and tube										
	Water volume		l	22	25			44	47	50	59	68	
	Water flow rate	Min	l/min	497	550	609	648	994	1089	1202	1362	1533	1542
		Nominal	l/min	648	778	963	1084	1277	1420	1544	1722	1877	2126
		Max	l/min	1572	1740	1925	2048	3145	3444	3801	4306	4847	4877
Sound Power		Cooling	dBA	69.7				71.7					
Compressor	Type		Semi-hermetic single screw compressor										
	Model	Quantity	1				2						
Refrigerant circuit	Refrigerant type		R-134a										
	Refrigerant charge		kg	50				100					
	No of circuits		1				2						
	Refrigerant control		Electronic expansion valve										
Power Supply			3~/400V/50Hz										



EWWD-CJYNN water-cooled


R-134a

STRENGTHS

- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 334–1893kW
- › EER up to 4.68
- › 1-2-3-4 truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops

STANDARD AVAILABLE

- › Glycol application
- › Main switch
- › Gauges
- › Electronic expansion valve

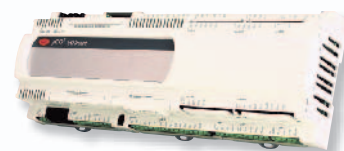
OPTIONS (factory mounted)

- › Total heat recovery
- › Partial heat recovery
- › Power factor 0.9 cos φ
- › Suction stop valve
- › A/V meter
- › Soft starter
- › Cu/Ni heat exchanger



ACCESSORIES

- › Communication cards
(EKAC200J – EKACLON)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPEK)
- › Buffer tanks (EKBT500N - EKBTC10N -
EKBT500C - EKBTC500C)
- › Sequencing panel (EKCSII)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON)



ELECTRONIC CONTROL

Cooling only			340	400	480	550	700	750	800	900	950	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19		
Capacity	Cooling	kW	334	399	462	510	666	735	792	871	934	1074	1139	1205	1268	1331	1394	1525	1629	1761	1893		
Nominal input	Cooling	kW	81.1	90.1	102	109	160	170	180	194	207	250	261	273	284	297	309	344	366	391	416		
EER			4.12	4.43	4.53	4.68	4.16	4.32	4.4	4.49	4.51	4.3	4.36	4.41	4.46	4.48	4.51	4.43	4.45	4.5	4.55		
Capacity Steps		%	stepless 25-100				stepless 12.5-100				stepless 8.3-100				stepless 6.25-100								
Dimensions	(Height x Width x Depth)	mm	1970x3310x900				2070x4300x1290				2320x3770x2160				2320x5151x2240								
Unit		kg	1830	1855	1886	1965	3395	3495	3515	3560	3590	4960	4980	5110	5135	5175	5205	6790	6830	6890	6940		
Operating Weight		kg	2000	2030	2050	2160	3640	3910	3940	3990	4020	5410	5430	5630	5660	5710	5740	7580	7630	7690	7730		
Water Heat Exchanger	Type		Shell and tube																				
	Water volume		l	30	35	34	36	60	63	70	75	80	95	100	105	110	115	120	135	140	150	160	
	Water flow rate	Min	l/min	626	720	817	936	1232	1348	1447	1527	1635	1974	2059	2173	2284	2364	2473	2749	2895	3164	3268	
		Max	l/min	1980	2278	2584	2960	3896	4261	4577	4829	5170	6244	6512	6872	7222	7475	7821	8692	9156	10006	10336	
		Nominal	l/min	1188	1404	1614	1776	2370	2592	2784	3054	3270	3798	4014	4236	4452	4668	4884	5358	5718	6168	6618	
Sound pressure		Cooling	dBA	75.2	76.2	78.2	77.8	78.2	78.7	79.8	80.7	79.2	79.5	79.8	80.6	81.2	81.8	80.3	81.9	82.8			
Compressor	Type		Semi-hermetic single screw compressor																				
	Model	Quantity	1				2				3				4								
Refrigerant circuit	Refrigerant type		R-134a																				
	Refrigerant charge	kg	53	63	73	77	106	116	126	136	146	169	179	189	199	209	219	232	252	272	292		
	No of circuits		1				2				3				4								
	Refrigerant control		Electronic expansion valve																				
Power Supply			3~/400V/50Hz							3~/380-440V/50Hz													
Piping connections	Evaporator water inlet/outlet		1/2" gas																				



EWWD-EJYNN water-cooled



screw

**R-134a**

STRENGTHS

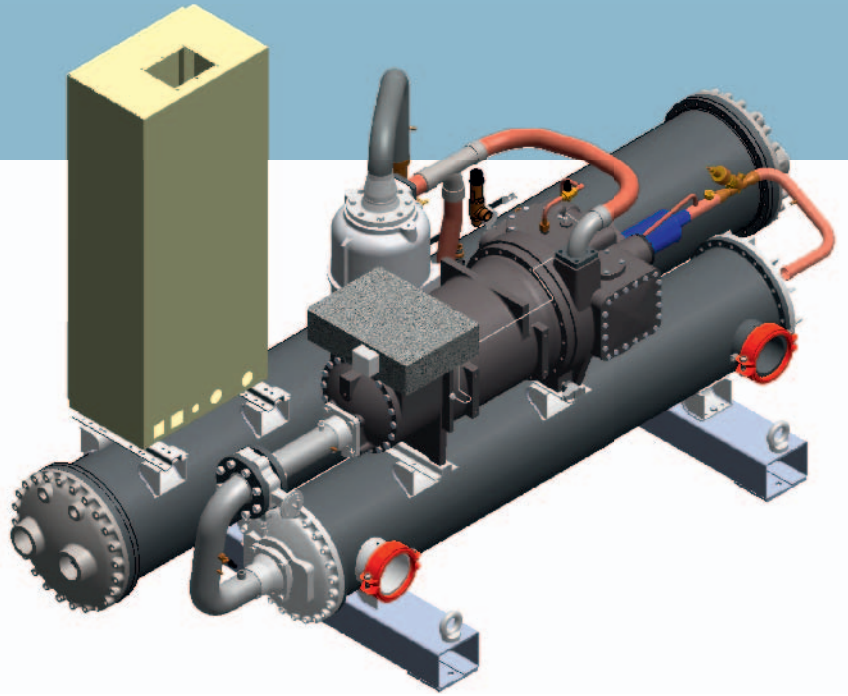
- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 333-1,510 kW
- › EER range: 4.28-4.66
- › 1-2-3 truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- › Partial and total heat recovery option available

STANDARD AVAILABLE

- › Glycol application
- › Main switch
- › Gauges
- › Electronic expansion valve

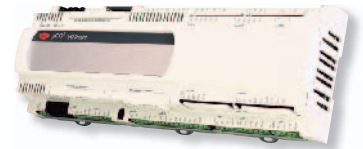
OPTIONS (factory mounted)

- › Total heat recovery
- › Partial heat recovery
- › Power factor 0.9 cos φ
- › Suction stop valve
- › A/V meter
- › Soft starter
- › Cu/Ni heat exchanger
- › Dual pressure relief valve



ACCESSORIES

- › Communication cards
(EKAC200J – EKACLON – EKACBAC)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRPCK)
- › Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- › Sequencing panel (EKSCSII - for cooling only application)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON) or USB (EKCONUSB)



ELECTRONIC CONTROL

COOLING ONLY / HEATING ONLY			340	400	460	550	650	700	800	850	900	950	C10	C12	C13	C14	C15	C16	C17	C18		
Capacity (Eurovent)	Cooling	kW	333	394	460	538	640	705	782	844	910	986	1,027	1,155	1,204	1,274	1,346	1,401	1,455	1,510		
Nominal input (Eurovent)	Cooling	kW	71.45	85.84	100.86	120.36	141.34	155.85	171.32	185.55	200.01	218.45	236.91	254.34	267.7	282.46	298.23	316.48	334.72	352.96		
EER			4.66	4.59	4.56	4.47	4.53	4.52	4.56	4.55	4.51	4.33	4.54	4.50	4.51	4.51	4.43	4.35	4.28			
Dimensions	(Height x Width x Depth)	mm	1,983x1,430x3,533						2,245x1,350x4,769						2,398x2,153x4,470							
Weight	Machine weight	kg	2,640	2,745	2,772	5,056	5,121	5,205	5,219	5,233	5,268	6,079	6,097	6,136	6,174	6,192	6,210	6,228				
	Operating Weight	kg	5,051	5,203	5,244	9,543	9,623	9,730	9,754	9,779	9,826	6,718	6,744	6,776	6,805	6,831	6,856	6,883				
Water Heat Exchanger Evaporator	Minimum water volume in the system		l	1,058	1,263	1,478	1,729	868	957	1,088	1,144	1,204	1,346	1,356	718	754	793	832	871	909	948	
	Water flow rate	Min	l/min	179.4	214.2	250.5	293.1	356.9	393.2	447.3	470.2	494.7	553.3	557.5	651.2	684	719.1	755.3	790.2	825.1	860	
		Nominal	l/min	954.1	1,128.7	1,318.1	1,542.6	1,834.6	2,019.8	2,242.3	2,420.6	2,609.2	2,827.4	2,943.9	3,312.1	3,451.6	3,652.1	3,859.2	4,015.7	4,172.2	4,328.8	
		Max	l/min	1,614.6	1,898.8	2,214.4	2,587.7	3,021.1	3,320.3	3,687.3	3,994	4,233.4	4,642.1	4,701.7	5,368.5	5,581.7	5,965.6	6,344.2	6,588.5	6,832.8	7,077.1	
	Nominal water pressure drop	Cooling	kPa	37.02	50.09	53.74	61.91	55.15	44.15	58.38	53.42	53.15	66.29	51.25	51.73	55.72	44.69	57.68	61.96	66.37	70.92	
Water Heat Exchanger Condenser	Type		Shell and tube																			
	Minimum water volume in the system		l	1,871	2,199	2,568	2,864	1,538	1,676	1,855	1,977	2,102	2,257	2,278	1,237	1,303	1,372	1,440	1,486	1,533	1,579	
	Water flow rate	Min	l/min	317	372.3	435.8	484.8	632.2	688.9	762.6	812.6	864.1	927.9	936.4	1,122.5	1,182.3	1,244.5	1,306.2	1,348.5	1,390.7	1,433	
		Nominal	l/min	1,158.9	1,374.8	1,607.2	1,887.6	2,239.8	2,466.5	2,733.4	2,952.5	3,182.6	3,453.6	3,623	4,041.2	4,219	4,461.9	4,714.1	4,922.9	5,131.8	5,340.6	
		Max	l/min	1,868.3	2,207	2,576.6	3,017.3	3,516.5	3,870.2	4,296.6	4,654.2	4,940.1	5,416.2	5,532.1	6,265.4	6,523.5	6,963.4	7,401.7	7,709.2	8,016.7	8,324.2	
Nominal water pressure drop	Cooling	kPa	26.35	27.95	29.76	25.65	24.78 + 24.78	25.41 + 26.37	27.85 + 27.85	28.04 + 25.97	26.45 + 26.45	22.86 + 24.04	23.82 + 23.82	24.08 + 24.08	24.08 + 24.08	24.08 + 24.08	24.08 + 24.08	24.08 + 24.08	24.08 + 24.08	24.08 + 24.08		
Compressor	Type		Screw compressor																			
	Model	Quantity	1			2																
Sound Power	Cooling	dBA	93.6	94.6	96.6	96.9	97.3	97.8	98.9	99.8	98.3	98.6	100.6	101.2	101.8							
Operation Range	Evaporator	Min~Max	-8 (OPZL)~15																			
	Condensor	Min~Max	15~55																			
Refrigerant circuit	Refrigerant type		R-134a																			
	Refrigerant charge		kg	54	52		108	106	104			156										
	No of circuits		1			2																
	Refrigerant control		Electronic expansion valve										-									
Power Supply			3~/400V/50Hz																			
Piping connections	Evaporator water inlet/outlet		168.30																			
	Condensor water inlet/outlet		5"																			



EWWD-EJYNN/A

water-cooled



screw



R-134a

HIGH EFFICIENCY

STRENGTHS

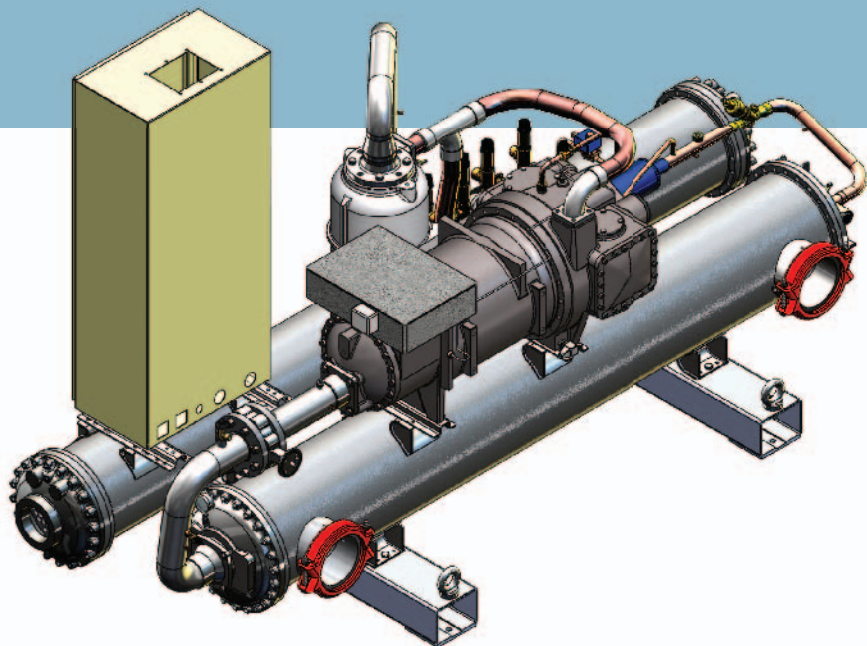
- › High efficiency
- › All models are PED pressure vessel approved
- › Stepless single-screw compressor
- › Optimised for use with R-134a
- › Cooling range: 362-1,134 kW
- › EER range: 4.72-5.12
- › 1 or 2 truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops

STANDARD AVAILABLE

- › Glycol application
- › Main switch
- › Gauges
- › Electronic expansion valve

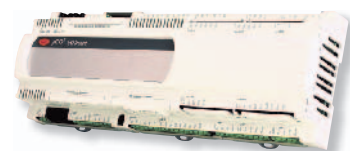
OPTIONS (factory mounted)

- › Power factor 0.9 cos ϕ
- › Suction stop valve
- › A/V meter
- › Soft starter
- › Cu/Ni heat exchanger
- › Dual pressure relief valve



ACCESSORIES

- › Communication cards
(EKAC200J – EKACLON – EKACBAC)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPCK)
- › Buffer tanks (EKBT500N - EKBTC10N - EKBT500C - EKBTC500C)
- › Sequencing panel (EKSCII - for cooling only application)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON) or USB (EKCONUSB)



ELECTRONIC CONTROL

COOLING ONLY / HEATING ONLY			360	440	500	600	750	800	850	950	C10	C11	C12	
Capacity (Eurovent)	Cooling	kW	362	433	506	573	720	795	866	933	976	1,038	1,134	
Nominal input (Eurovent)	Cooling	kW	70.68	85.32	100.09	120.35	141.56	155.84	170.45	184.75	199.04	219.92	239.92	
EER			5.12	5.08	5.06	4.76	5.09	5.1	5.08	5.05	4.9	4.72	4.73	
Dimensions	(Height x Width x Depth)	mm	1,983x1,430x3,533					2,245x1,350x4,769						
Weight	Machine weight	kg	2,640	2,745	2,772		5,056	5,121	5,205	5,219	5,233	5,268		
	Operating Weight	kg	5,051	5,203	5,244		9,543	9,623	9,730	9,754	9,779	9,826		
Water Heat Exchanger Evaporator	Type		Shell and tube											
	Minimum water volume in the system	l	1,127	1,350	1,582	1,801	948	1,052	1,146	1,240	1,301	1,382	1,515	
	Water flow rate	Min	191.1	229	268.2	305.3	389.8	432.6	471	509.7	534.9	567.9	622.8	
		Nominal	l/min	1,036.6	1,241.5	1,451.2	1,642.6	2,063.2	2,278.4	2,483.4	2,676	2,797.6	2,975.2	3,249.8
		Max	l/min	2,280.1	2,720.9	3,170.1	3,559.6	4,479.1	4,925.7	5,368.3	5,762.2	6,003.3	6,395.9	6,960.6
Water Heat Exchanger Condenser	Nominal water pressure drop	Cooling	kPa	64	48	54	68	58	68	56	64	72	46	52
	Type		Shell and tube											
	Minimum water volume in the system	l	1,923	2,262	2,653	2,938	1,604	1,758	1,901	2,060	2,187	2,295	2,457	
	Water flow rate	Min	l/min	326.1	384.2	450	497.7	659.3	722.5	781.4	846.9	898.8	943.5	1,010
		Nominal	l/min	1,239.2	1,486.1	1,738.1	1,987.6	1,234.8	1,498.8	1,485	1,708.8	1,684.2	1,987.2	1,969.2
Max		l/min	2,034.8	2,432.7	2,836.1	3,206.3	3,996.8	4,396.3	4,797.9	5,150.9	5,384.9	5,766.7	6,270.7	
Compressor	Nominal water pressure drop	Cooling	kPa	47.67	47.19	51.37	66.03	48.07	46.92	49.83		64.97		
	Type		Screw compressor											
Sound Power	Model	Quantity	1					2						
	Cooling	dB(A)	93.6	94.6	96.6		96.9	97.3	97.8	98.9	99.8	98.3	98.6	
Operation Range	Evaporator	Min~Max	-8 (OPZL)~-15											
	Condensor	Min~Max	15~55											
	Water side	Min~Max	-											
	Air side	Min~Max	-											
	Condensing temperature	Min~Max	-											
	Evaporating temperature	Min~Max	-											
Refrigerant circuit	Refrigerant type		R-134a											
	Refrigerant charge	kg	54	52			108	106	104					
	No of circuits		1					2						
	Refrigerant control		Electronic expansion valve											
Power Supply			3~400V/50Hz											
Piping connections	Evaporator water inlet/outlet		168.30					219.10						
	Condensor water inlet/outlet		4"											



EWWD-BJYNN water-cooled


R-134a

STRENGTHS

- › All models are PED pressure vessel approved
- › 1 and 2 stepless single-screw compressors
- › Optimised for use with R-134a
- › Cooling range: 369–1050kW
- › Super high efficiency: EER up to 5.83
- › Very high EER values at part loads condition
- › Flooded evaporator
- › Expansion valve with liquid level control

STANDARD AVAILABLE

- › Main switch
- › Gauges
- › Electronic expansion valve

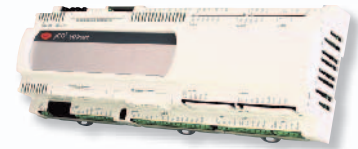
OPTIONS (factory mounted)

- › Glycol application
- › Suction stop valve
- › A/V meter
- › Soft starter
- › Cu/Ni heat exchanger



ACCESSORIES

- › Communication cards
(EKAC200J – EKACLON)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPCK)
- › Buffer tanks (EKBT500N - EKBTC10N -
EKBT500C - EKBTC500C)
- › Sequencing panel (EKCSCII)
- › Plant visor (EKPV2J)
- › Modem (EKMODEM – EKGSMOD)
- › Converter RS485 to RS 232 (EKCON)



ELECTRONIC CONTROL

Cooling only			380	460	550	750	850	900	C10	C11	
Capacity	Cooling	kW	369	445	521	734	816	895	976	1050	
Nominal input	Cooling	kW	65	77.9	90	129	142	155	167	180	
EER			5.68	5.71	5.79	5.69	5.75	5.77	5.84	5.83	
Capacity Steps		%	stepless 25-100			stepless 12.5-100					
Dimensions	(Height x Width x Depth)	mm	2250x3625x1551	2250x3860x1551		2300x4145x1743		2300x4145x1808		2300x4145x1910	
Unit		kg	3089	3370	3603	5546	5636	6007	6448	6598	
Operating Weight		kg	3250	3588	3870	5911	6045	6460	6972	7163	
Water Heat Exchanger	Type		Flooded shell and tube								
	Water volume		l	83	111	133	181	199	243		263
	Water flow rate	Min	l/min	665	948	1086	1478	1703	1904	1924	2146
		Nominal	l/min	1244	1499	1752	2474	2746	3010	3277	3526
		Max	l/min	2103	2998	3435	4675	5386	6020	6085	6786
Sound Power		Cooling	dBA	78	79	80	81	81.5	82	82.5	83
Compressor	Type		Semi-hermetic single screw compressor								
	Model	Quantity	1			2					
Refrigerant circuit	Refrigerant type		R-134a								
	Refrigerant charge	kg	130	165	180	200	215	230	274	290	
	No of circuits		1								
	Refrigerant control		Electronic expansion valve								
Power Supply			3~/400V/50Hz								
Piping connections	Evaporator water inlet/outlet		1/2" gas								



EWWQ-AJYNN water-cooled



screw

**R-410A**

STRENGTHS

- › Cooling range: 388-2,093kW
- › EER range up to 4.62
- › ESEER up to 5.37
- › 1 or 2 stepless single-screw compressors
- › 1 or 2 truly independent refrigerant circuits
- › Optimised for use with R-410A
- › Shell and tube heat exchanger
- › Standard electronic expansion valve
- › Compact design
- › Partial heat recovery available
- › All models are PED pressure vessel approved

STANDARD AVAILABLE

- › Glycol application
- › Main switch
- › Gauges
- › Electronic expansion valve

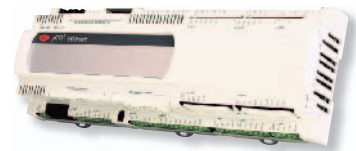
OPTIONS (factory mounted)

- › Partial heat recovery
- › Power factor 0.9 cos φ
- › A/V meter
- › Soft starter
- › Pressure relief valve
- › Suction stop valve



ACCESSORIES

- › Communication cards
(EKAC200J – EKACBAC – EKACLON)
- › Converter RS485 to RS232
- › Converter RS485 to USB
- › Modem (EKMODEM – EKGSMOD)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPCK)
- › Sequencing panel (EKCSCL)
- › Plant visor (EKPV2J)



ELECTRONIC CONTROL

COOLING ONLY			400	480	600	650	750	800	850	900	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20			
Capacity (Eurovent)	Cooling	kW	387.96	474.13	574.36	651.45	742.14	812.53	880.09	891.19	980.45	1,028.15	1,077.43	1,210.09	1,281.09	1,352.09	1,488.14	1,620.34	1,783.43	1,928.13	2,092.73			
Nominal input (Eurovent)	Cooling	kW	87.37	106.27	130.44	147.86	169.73	175.22	206.4	194.02	212.97	245.47	236.90	261.72	279.05	296.39	339.95	375.37	408.72	441.58	475.47			
Capacity Steps		%	25-100 (stepless)								12.5-100 (stepless)				12.5-100 (stepless)									
EER			4.44	4.46	4.4	4.41	4.37	4.64	4.26	4.59	4.6	4.19	4.55	4.62	4.59	4.56	4.38	4.32	4.36	4.37	4.40			
ESEER			4.95	4.98	4.97	4.72	5.37	4.60	5.36	5.34	4.53	5.33	5.36	5.35	5.29	4.93	4.82	4.89	4.87					
Dimensions	Height x Width x Depth	mm	1,846x1,065x3,431 2,000x1,226x3,440 1,846x1,266x3,581 2,170x1,350x4,902 1,846x1,266x3,581 2,170x1,350x4,902 1,846x1,266x3,581 2,170x1,350x4,902 2,455x1,350x4,835 2,547x1,350x4,844 2,547x1,350x4,809																					
Weight	Machine weight	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			
	Operating 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		Shell and tube																					
	Water volume	l	124	118	176	170	274	344	266	344	325	251	325	538			505			495	539	527		
	Water flow rate	Min	l/min	664	812	986	1,118	1,225	1,385	1,279	1,522	1,673	1,283	1,845	2,062	2,188	2,314	2,391	2,501	2,925	3,267	3,667		
		Max	l/min	1,258	1,354	1,860	2,108	2,415	2,649	2,859	3,189	3,342	3,492	3,937	4,160	4,383	4,840	5,255	5,785	6,238	6,768			
	Nominal water pressure drop	Cooling	kPa	49.43	64.65	45.04	47.92	54.74	53.80	50.22	63.54	59.07	57.23	70.01	45.37	50.28	55.40	59.86	69.74	89.42	98.78	122.57		
Water Heat Exchanger Condenser	Type		Shell and tube																					
	Water volume	l	79	92	84	162	97	79	102	79	92	104	52	60	60	68	54	54	61	61	77			
	Water volume	l	-				79	-		92	-		60	68		54	57	61	77					
	Water flow rate	Min	l/min	813	994	1,210	1,371	1,506	1,683	1,579	1,854	2,037	1,589	2,251	2,508	2,664	2,821	2,937	3,080	3,595	4,015	4,500		
Max		l/min	1,541	1,878	2,282	2,587	2,968	3,220	3,530	3,882	4,139	4,260	4,789	5,066	5,345	5,945	6,472	7,112	7,666	8,307				
	Nominal water pressure drop	Cooling	kPa	60.15	64.35	67.91	66.02	16.46	64.44	20.43	66.55	67.64	25.92	70.09	73.40	69.77	16.52	19.31	16.93	17.08	15.02			
Compressor	Type		Semi hermetic single screw compressor																					
	Model	Quantity	1				2		1		2		2											
Sound Power	Cooling	dB(A)	100.2	101.2	102.3	101.5	104.7	102.3	104.7	105.1	103.2	104.7	105.2	106.5	105.8	106.2	106.6	107.1	107.5					
Operation Range	Evaporator	Min~Max	-4~10																					
	Condenser	Min~Max	25~45																					
Refrigerant circuit	Refrigerant type		R-410A																					
	Refrigerant charge	kg	80	90	100	85+85	100	85+85	100	95+95	100+100	130+130												
	No of circuits		1				2	1	2	1	2													
	Refrigerant control		Electronic expansion valve																					
Power Supply			3~400V/50Hz																					
Piping connections	Evaporator water inlet/outlet		168.30		219.10								273.00				273.00							
	Condenser water inlet/outlet		5"	5"	5"	6"	5"	6"	5"	6"	5"	6"	5"	6"	5"	6"	5"	6"	5"	6"				



EWWQ-AJYNN/A water-cooled


R-410A

STRENGTHS

- › Cooling range: 431-2,196kW
- › EER range up to 5.09
- › ESEER up to 5.98
- › 1 or 2 stepless single-screw compressors
- › 1 or 2 truly independent refrigerant circuits
- › Optimised for use with R-410A
- › Shell and tube heat exchanger
- › Standard electronic expansion valve
- › Compact design
- › Partial heat recovery available
- › All models are PED pressure vessel approved

STANDARD AVAILABLE

- › Glycol application
- › Main switch
- › Gauges
- › Electronic expansion valve

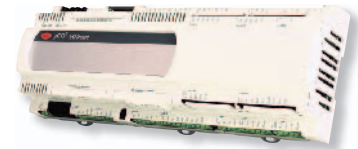
OPTIONS (factory mounted)

- › Partial heat recovery
- › Power factor 0.9 cos ϕ
- › A/V meter
- › Soft starter
- › Pressure relief valve
- › Suction stop valve



ACCESSORIES

- › Communication cards (EKAC200J – EKAC-BAC –EKACLON)
- › Converter RS485 to RS232
- › Converter RS485 to USB
- › Modem (EKMODEM – EKGSMOD)
- › Bacnet gateway (EKBMSBNJ)
- › Remote user interface (EKRUPCK)
- › Sequencing panel (EKCSCL)
- › Plant visor (EKPV2J)



ELECTRONIC CONTROL

COOLING ONLY			440	550	650	750	800	950	C10	C11	C12	C13	C14	C15	C16	C18	C19	C20	C22		
Capacity (Eurovent)	Cooling	kW	431	527	653	740	818	993	1,059	1,139	1,182	1,297	1,397	1,479	1,605	1,769	1,901	2,061	2,196		
Nominal input (Eurovent)	Cooling	kW	86.67	104.72	128.28	145.95	162.04	196.57	209.49	232.06	233.11	257.54	274.77	291.86	321.48	356.36	390.31	425.94	460.72		
Capacity Steps		%	25-100 (stepless)						12.5-100 (stepless)			12.5-100 (stepless)									
EER			4.97	5.03	5.09	5.07	5.05		5.06	4.91	5.07	5.04	5.08	5.07	4.99	4.96	4.87	4.84	4.77		
ESEER			5.58	5.61	5.69	5.67	5.64	5.39	5.89	5.28	5.87	5.88	5.98	5.93	5.67	5.71	5.48	5.50	5.38		
Dimensions	Height x Width x Depth	mm	2,000x1,211x3,987			2,000x1,210x3,985		2,000x1,440x3,981		2,453x1,350x4,985		2,453x1,350x4,985		2,547x1,350x4,844		2,547x1,350x4,809					
Weight	Machine weight	kg	2,322	2,403		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		
	Operating 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		Shell and tube																		
	Water volume	l	220	213	200	334	325	538	587	538	575	563	551		495	484	535	527			
	Water flow rate	Min	l/min	733	898	1,114	1,262	1,438	1,733	1,805	1,994	2,016	2,213	2,383	2,523	2,811	3,097	3,334	3,617	3,862	
		Max	l/min	1,407	1,718	2,133	2,419	2,651	3,234	3,462	3,695	3,862	4,237	4,563	4,823	5,219	5,749	6,158	6,671	7,094	
	Nominal water pressure drop	Cooling	kPa	55.77	68.81	71.54	64.27	57.46	53.85	53.69	68.89	64.23	55.13	67.85	75.14	70.1	89.12	91.3	113.04	126.77	
Water Heat Exchanger Condenser	Type		Shell and tube																		
	Water volume	l	52	69	81	86	83	91	69	91	73	76	75	86	91	91	91	91	91	91	
	Water volume	l	-						70			76			86		91				
	Water flow rate	Min	l/min	881	1,076	1,332	1,511	1,723	2,076	2,162	2,400	2,414	2,652	2,852	3,021	3,374	3,721	4,019	4,365	4,672	
		Max	l/min	1,691	2,552		2,896	3,176	3,875	4,147	4,447	4,624	5,077	5,461	5,774	6,264	6,908	7,422	8,049	8,581	
Nominal water pressure drop	Cooling	kPa	50.16	39.75	42.38	46.94	59.79	64.73	40.10	83.56	47.93	48.17	49.20	46.82	44.26	61.21	60.50	79.00			
Compressor	Type		Semi-hermetic single screw compressor																		
	Model	Quantity	1						2		103.8	2									
Sound Power	Cooling	dB(A)	100.9	101.7	102.6	102.7	102.0	102.9	105.2	103.8	105.6	106.1	106.5		105.8	106.2	106.6	107.1	107.5		
Operation Range	Evaporator	Min~Max	-4~10																		
	Condenser	Min~Max	25~45																		
Refrigerant circuit	Refrigerant type		R-410A																		
	Refrigerant charge	kg	95			110	130	120+120	130	120+120			130+130								
	No of circuits		1						2		1	2									
	Refrigerant control		Electronic expansion valve																		
Power Supply			3~400V/50Hz																		
Piping connections	Evaporator water inlet/outlet		219.10							273.00											
	Condenser water inlet/outlet		5"							5"											

DAIKIN WATER COOLED CHILLERS WITH CENTRIFUGAL COMPRESSORS

- › 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

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

Dual compressor

- › D-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)

D-DWSC/D-DWDC water-cooled

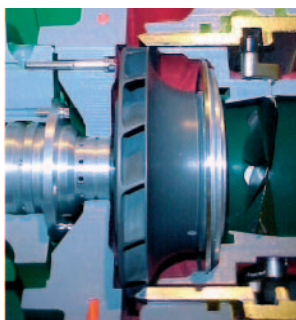


R-134a

UNMATCHED UNLOADING

Unloading to 10% of full load for a D-DWSC single compressor chiller and 5% for a D-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.



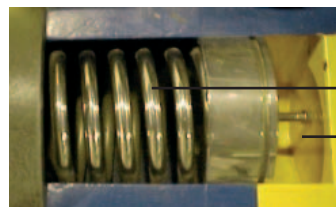
Moveable diffuser closing off impeller discharge area

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.



Piston

Lubricant reservoir



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.

R-134a



water-cooled D-DWSC/D-DWDC

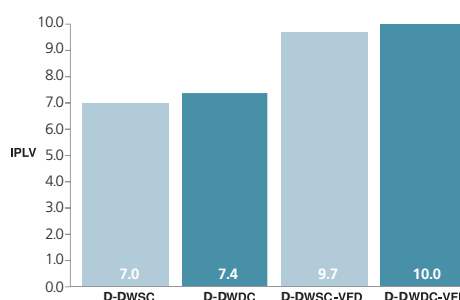
ONE D-DWDC DUAL COMPRESSOR CHILLER VERSUS TWO SINGLE COMPRESSOR CHILLERS

- › 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 operations 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



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

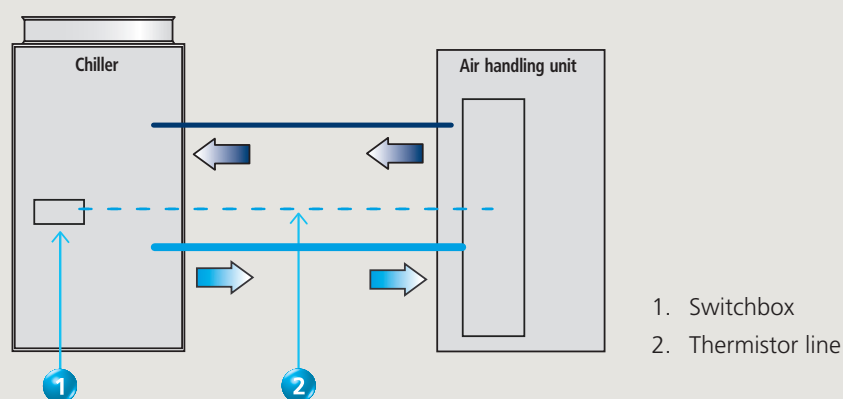
CONDENSING UNITS

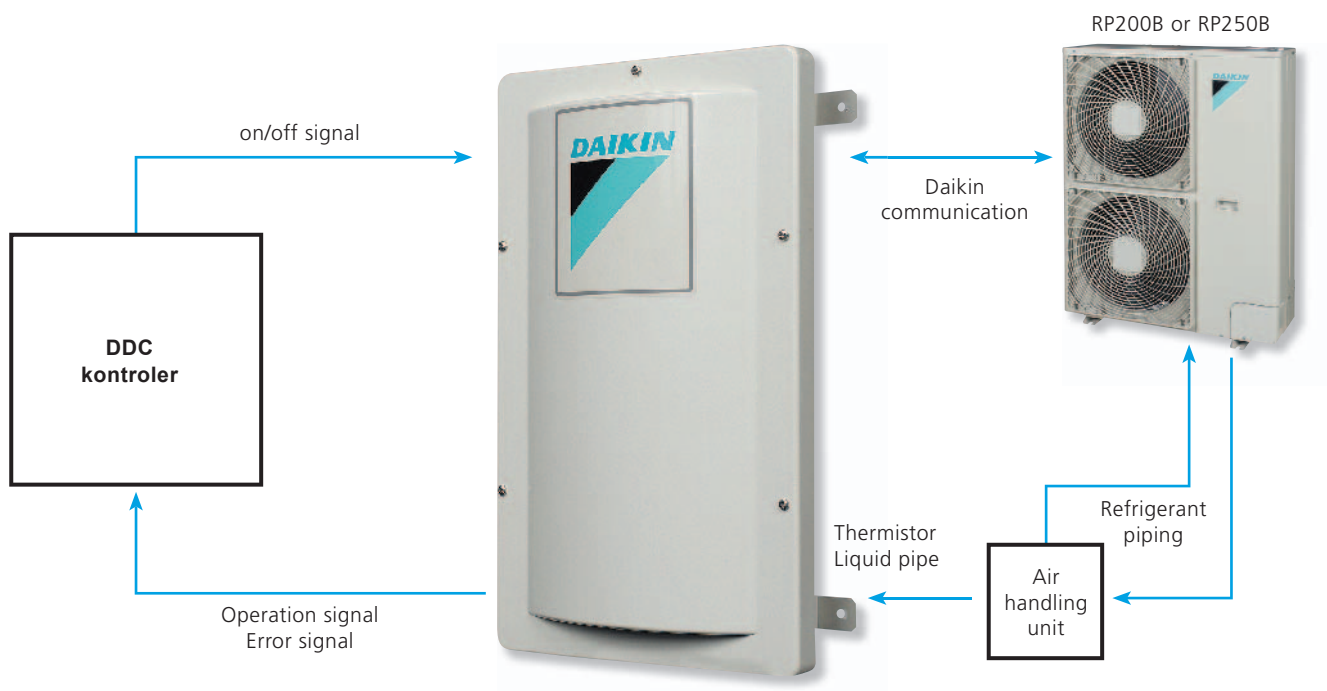
The Daikin condensing units can be used in a wide variety of air conditioning, refrigeration and ventilation applications.

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PIPING DIAGRAM FOR COMFORT COOLING APPLICATION





condensing units **RP-EKRPER**

93

Outdoor Unit				RP200B7W1	RP250B7W1
Dimensions	(Height x Width x Depth)	mm		1220x1290x700	1440x1290x700
Weight		kg		194	206
Operation Range	Cooling	Min~Max	°CDB	-5~46	
Sound pressure level	Cooling		dBA	56	56
Sound power level	Cooling		dBA	77	77
Refrigerant		Type		R-407C	
Power Supply				3N~/400V/50Hz	
Piping connections	Liquid (OD)/Gas/Drain	mm		12.7 / 28.6 / 26	15.9 / 28.6 / 26
Piping Length (Maximum)		m		50	
Max. internunit level difference		m		30	

Communication Box				EKRPER
dimensions	unit	H	mm	357
		W	mm	240
		D	mm	78
weight	unit	kg		2.5
material	unit			resin
colour	unit			Ivory white

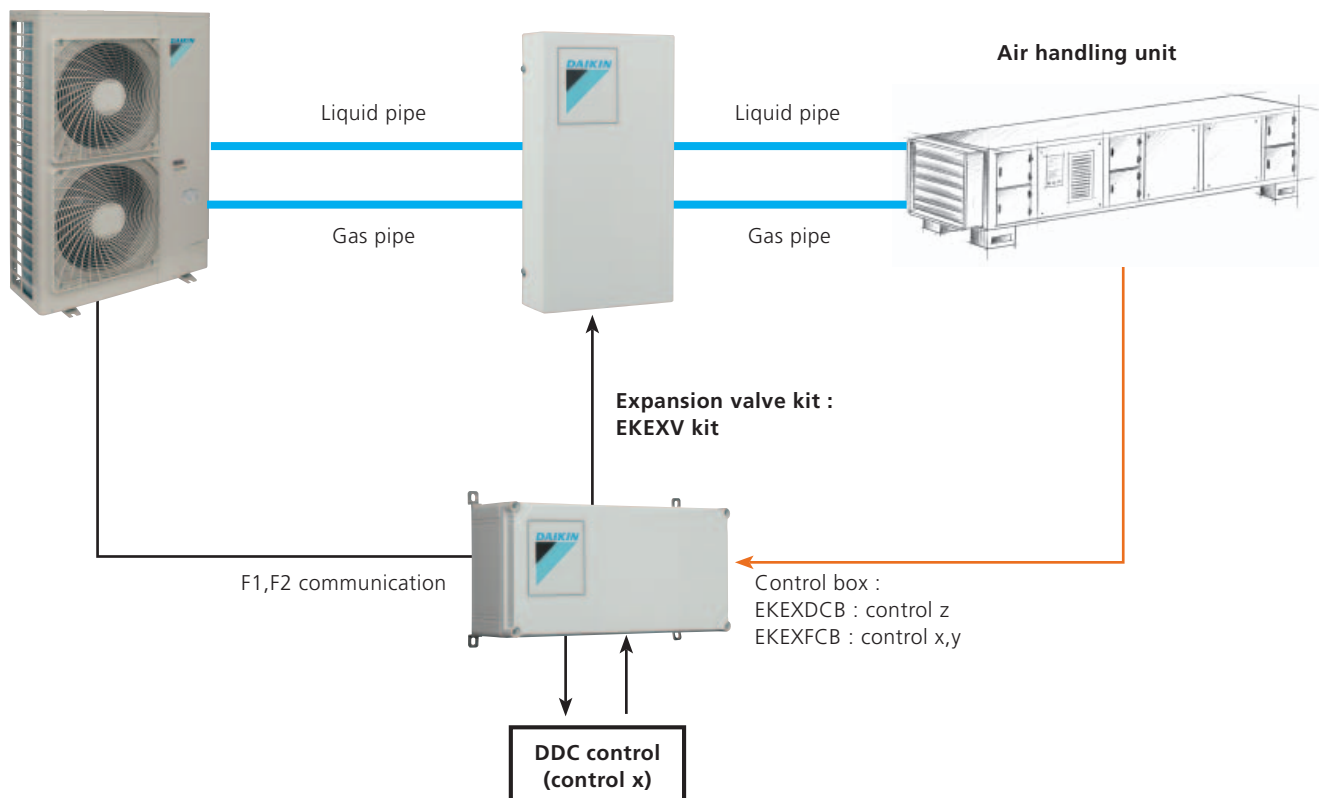


A new range of R-410A inverter condensing units for pair application with air handling units.

- › Inverter controlled units
- › Large capacity range (from 71 to 140 class)
- › Cooling only
- › R-410A
- › Flexible control possibilities:
 - › Control x:
control of air temperature (discharge temperature, suction temperature, room temperature) via external device (DDC controller)
 - › Control y:
control of evaporating temperature via Daikin control (no DDC controller needed)
 - › Control z:
control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed)
- › Wide range of expansion valve kits available

ERX for air handling applications (pair)

Cooling only			ERX100A9V1	ERX125A9V1	ERX140A9V1
Outdoor units					
Cooling capacity		kW	11.8	14.2	15.8
Power input	Cooling	kW	3.52	4.33	4.98
EER	Nominal		3.35	3.28	3.17
Casing	Color		Daikin White		
	Material		Painted galvanized steel plate		
Dimensions	HxWxD	mm	1,345x900x320		
Weight		kg	120		
Sound pressure level	Cooling	Nominal	dB(A) 50	51	53
Sound power level	Cooling	Nominal	dB(A) 66	67	69
Operation range	Cooling	Min-Max	°CDB -5 ~ 46		
Refrigerant type			R-410A		
Piping connections	Liquid	mm	ø9.52		
	Gas	mm	ø15.9		ø19.1
	Drain	mm	ø26x3		
Piping length	Max	m	50		
Power supply		V3	1 ~, 220-240V, 50Hz		



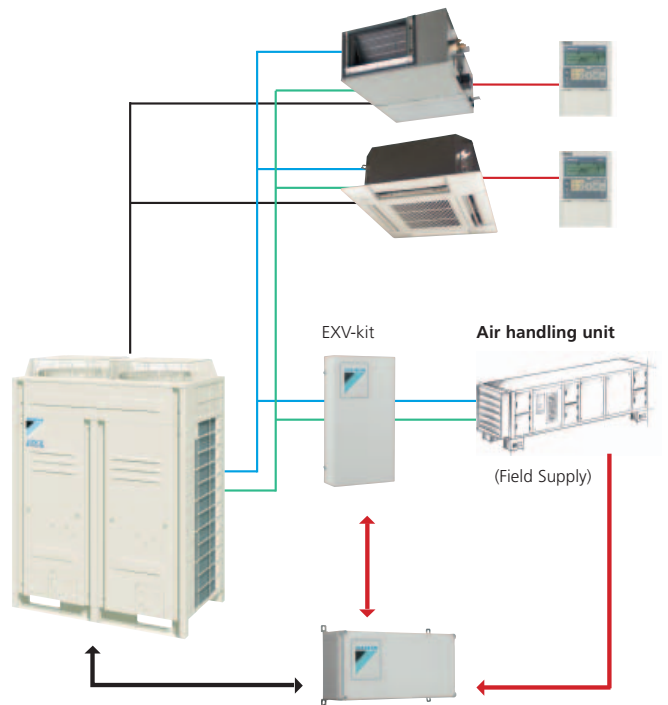
Cooling only				ERX125AW1	ERX200AW1	ERX250AW1
Outdoor units						
Cooling capacity			kW	14.0	22.4	28.0
Power input		Cooling	kW	3.52	5.56	7.42
EER		Nominal		3.98	4.03	3.77
Casing		Color		Daikin White		
		Material		Painted galvanized steel plate		
Dimensions		HxWxD	mm	1680x930x765		
Weight			kg	157	185	238
Sound pressure level	Cooling	Nominal	dB(A)	54	57	58
Sound power level	Cooling	Nominal	dB(A)	72	78	78
Operation range	Cooling	Min-Max	°CDB	-5.0 ~ 43.0		
Refrigerant type				R-410A		
Piping connections		Liquid	mm	ø9.52		
		Gas	mm	ø15.9	ø19.1	ø22.2
Power supply			V3	3N~, 400V, 50Hz		

Combination table

Outdoor unit		Control box		Expansion valve kit							Options
		control z	control x or y	class 63	class 80	class 100	class 125	class 140	class 200	class 250	Central drain kit
		EKEXDCBA	EKEXFCBA	EKEXV63	EKEXV80	EKEXv100	EKEXV125	EKEXV140	EKEXV200	EKEXV250	
1ph	ERX100A9V1	P	P	P	P	P	P	-	-	-	X
	ERX125A9V1	P	P	P	P	P	P	P	-	-	X
	ERX140A9V1	P	P	-	P	P	P	P	-	-	X
3ph	ERX125A9V1	-	-	P	P	P	P	P	-	-	-
	ERX200A9V1	P	P	-	-	P	P	P	P	P	-
	ERX250A9V1	P	P	-	-	-	P	P	P	P	-

P: Pair: Combination depending on air handling units coils volume.
x: Possibility to connect.

— gas pipe — F1, F2 communication
— liquid pipe



- › A R-410A inverter condensing units range for multi application with air handling units.
- › Inverter controlled units
- › Large capacity range (from 5 to 18HP)
- › Cooling only
- › R-410A
- › Control z:
control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed)
- › Large range of expansion valve kits available
- › BRC1D52 is used to set the set point temperature (connected to the EKEXMCB).

scroll



R-410A

INVERTER

VRV for air handling application

Cooling only

RXQ-P(A)				5	8	10	12	14	16	18
Capacity range		HP	5	8	10	12	14	16	18	
Capacity	Cooling	kw	14.0	22.4	28.0	33.5	40.0	45.0	49.0	
Power input (Nominal)	Cooling	kw	3.52	5.56	7.42	9.62	12.4	14.2	16.2	
Dimensions	(Height x Width x Depth)		mm	1,680x635x765			1,680x930x765			1,680x1,240x765
Weight		kg	157	185	238		315		323	
Sound Level	Sound Power	Cooling	dBA	72	78		80		83	
	Sound Pressure	Cooling	dBA	54	57	58	60		63	
Air Flow Rate (nominal at 230V)	Cooling	m³/min	95	171	185	196	233		239	
Operation Range	Cooling	Min~Max	°CDB	-5.0~43.0						
Refrigerant			R-410A							
Power Supply			3N~/400V/50Hz							
Max n° of indoor units to be connected			8	13	16	19	23	26	29	
Piping connections	Liquid (OD)/Gas	mm	9.5 / 15.9	9.5 / 19.1	9.5 / 22.2	12.7 / 22.2	12.7 / 28.6		15.9 / 28.6	

Combination table

Outdoor unit		Control box	Expansion valve kit							
		control z	class 50	class 63	class 80	class 100	class 125	class 140	class 200	class 250
		EKEXMCB	EKEXV50	EKEXV63	EKEXV80	EKEXv100	EKEXV125	EKEXV140	EKEXV200	EKEXV250
3ph	RXQ5P	x	x	x	x	x	x	x	x	x
	RXQ8P	x	x	x	x	x	x	x	x	x
	RXQ10P	x	x	x	x	x	x	x	x	x
	RXQ12P	x	x	x	x	x	x	x	x	x
	RXQ14PA	x	x	x	x	x	x	x	x	x
	RXQ16PA	x	x	x	x	x	x	x	x	x
	RXQ18PA	x	x	x	x	x	x	x	x	x



OPTIONS (factory mounted)

- › Main isolator switch.
- › Condenser protection grilles.
- › Low noise (down to -6dB(A)).
- › Ampere & Voltmeter (read-out on switchbox).
- › Hi-ESP fans.

ACCESSORIES (kit)

- › BMS gateway (MODBUS/J-BUS/ BACNET protocol).
- › Remote user interface.

CONTROL

- › Return air or room temperature control.
- › Weekly operating schedule.

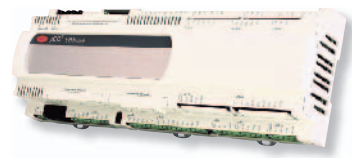
AVAILABLE INPUTS / OUTPUTS

Input

- › ON / OFF.
- › Dual setpoint through analog signal.
- › Air flow switch.
- › Capacity limit.

Output

- › Compressor operation.
- › Summary alarm.



ELECTRONIC CONTROL

STRENGTHS

- › DAIKIN stepless single screw compressor.
- › Operation down to -15°C ambient temperature.
- › Standard reverse phase protection.
- › Freeze-up protection and prevention.
- › PE treated condenser coil.
- › Liquid stop valve.
- › Discharge stop valve.
- › Standard suction stop valve.

screw

**R-407C**

condensing units

ERAP-MBYN

97

ERAP-MBYN

screw

Cooling only				110	150	170
Capacity	Cooling	kW		114.00	150.00	171.00
Nominal input	Cooling	kW		42.10	52.40	65.20
EER				2.71	2.86	2.62
Capacity Steps		%		30-100		
Dimensions	(Height x Width x Depth)		mm	2250x2346x2238		
Unit		kg		1326	1440	1516
Air heat exchanger	Type		Cross fin coil/Hi-X tubes and PE coated waffle louvre fins			
Sound Power		Cooling	dBA	91	96	
Compressor	Type		Semi-hermetic single screw compressor			
	Model	Quantity		1		
Refrigerant circuit	Refrigerant type		R-407C			
	Refrigerant charge		kg	5.5		7.5
	No of circuits		1			
Power Supply			3~/400V/50Hz			
Piping connections	Suction line connection		2" 1/8			
	Liquid line connection		7/8"			
	Relief device outlet		compressor: 1"npt			

CONDENSER DRY COOLER



MHVC / SHVC
Type: duct
Fan: centrifugal
Capacity: 6 – 375 kW



SHV/EHV/SAV/EAV
Type: horizontal or vertical
Fan: axial
Capacity: 3 – 1,236 kW



SDHV/SHVD/EHVD
Type: V-shape
Fan: axial
Capacity: 185 – 2,405 kW

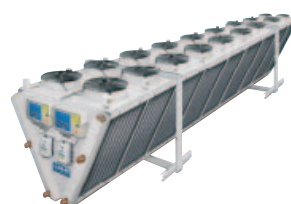
CONDENSER

- › Single coil, both for vertical and horizontal installation, or double coil (V shape) ventilated condensers for air conditioning and for industrial process cooling.
- › High efficiency compact heat exchangers with inner grooved 3/8 copper tubes for a reduced refrigerant charge
- › Patented "Safetubes system"
- › Extreme low noise and energy saving models available
- › Capacities from 3 up to more than 2,400 kW

KAPACITET	5	10	250	500	750	1000	1500	2000	2500
MHVC / SHVC									
SHV / EHV / SAV / EAV									
SDHV / SHVD / EHVD									



SHV/EHV/SAV/EAV
Type: horizontal or vertical
Fan: axial
Capacity: 11 – 996 kW



SDHV/SHVD/EHVD
Type: V-shape
Fan: axial
Capacity: 147 – 1,973 kW

DRY COOLER

- › Single coil, both for vertical and horizontal installation, or double coil (V shape) dry coolers for air conditioning and for industrial process cooling
- › High efficiency compact heat exchangers with 3/8" copper tubes
- › Patented "Safetubes system"
- › Low noise and energy saving models available
- › Capacities from 11 up to nearly 2,000 kW

KAPACITET	5	10	250	500	750	1000	1500	2000	2500
SHL / EHL									
SDHL / SHLD / EHLD									

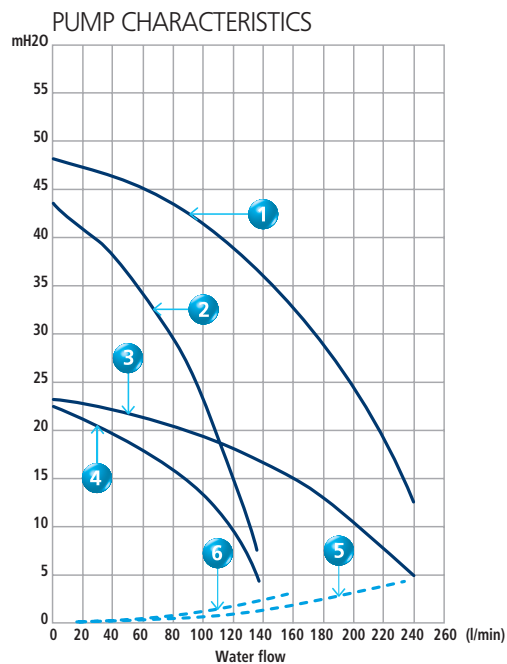
HYDRONIC KIT

EHMC15AV1010



STRENGTHS

- › 100l buffer tank.
- › Freeze-up protection (heater tape).
- › Single pump.
- › 12l expansion vessel.
- › Standard dual pressure ports.



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

EHMC-AV hydraulic module

99

EHMC-AV			10		15		30	
			1010	1080	1010	1080	1010	1080
Nominal flow	l/min	62		88		187		
External static pressure	mHZO	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		
Sond pressure	dBA	52		52		52		
Power supply		V1	230V/1~/50Hz					
Operation range	Water side	°CDB	-10°C ~ 55°C					
	Air side	°CDB	-10°C ~ 43°C					
Piping connections	Evaporator water inlet/outlet		1" BSPF		2" BSPF		2-1/2" BSPF	
	Drain connection		1/2"					

EKBT buffer tank

Type	Content	Description
EKBT	200l	Buffer tank with casing
EKBT500N	500l	Buffer tank
EKBTC10	1000l	Buffer tank
EKBT500C	500l	Buffer tank with casing
EKBTC10C	1000l	Buffer tank with casing

VENTILATION

Daikin ventilation products are a highly efficient means of turning a water chiller, heat pump or hot water boiler into an efficient, quiet air conditioning system. These units are an effective solution to provide a comfortable environment for both commercial and residential applications.

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106	FWM		
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4-way blow ceiling mounted cassette FWF

101

- › Wide operating range
- › Quiet operation with auto-swing comfort
- › Easy to install and maintain
- › 3 speed fan motor
- › Double-intake centrifugal fans
- › 4 way air discharge and air swing
- › Air suction from underneath
- › High power air flow
- › Slim front panel and aesthetic design
- › Tile size decoration panel
- › Removable washable air filter (self-extinguishing class 1)
- › Built-in high pressure drain pump (up to 700mm condensate water can be pumped)
- › Wireless controller as standard with decoration panel kit

FWF
fan coils

FWF			2-pipe		
			02	03	04
Power input		W	51	75	78
Capacity	Cooling capacity	Total capacity kW	2.34	4.10	4.25
	Heating capacity (2-pipe)	kW	3.22	5.12	5.42
Dimensions	HxWxD	mm	250x570x570		
Machine weight		kg	22.0	23.0	
Sound level	Sound power	dBA	54	53	56
Water pressure drop	Cooling	kPa	67.3	68.6	68.8
	Heating	kPa	61.9	70.5	71.2
Fan	Air flow rate	m³/h	662		731
Water connections	Std. heat exchanger	inch	3/4		
Required power supply		V / f / Hz	220-240 / 1 / 50		



MERCA

WRC

SRC



FWC08AAT

- › Wide operating range
- › Quiet operation with auto-swing comfort
- › Easy to install and maintain
- › Flexibility (2-pipe or 4-pipe)
- › 3 speed fan motor
- › Double-intake centrifugal fans
- › 4 way air discharge and air swing
- › Air suction from underneath
- › High power air flow
- › Slim front panel and aesthetic design
- › Removable washable air filter (self-extinguishing class 1)
- › Built-in high pressure drain pump (up to 700mm condensate water can be pumped)
- › Wireless controller as standard with decoration panel kit



FWC 4-way blow ceiling mounted cassette

FWC			2-pipe					4-pipe				
			07	08	10	11	12	02	03	04	05	06
Power input		W	127	151	164	192	253	122	138	153	184	232
Capacity	Cooling capacity	Total capacity kW	6.63	7.50	8.80	9.95	10.80	3.81	3.96	4.63	5.01	5.16
	Heating capacity (2-pipe)	kW	8.40	9.50	11.00	12.00	12.90	-				
	Heating capacity (4-pipe)	kW	-					10.55	10.99	12.51	13.48	13.77
Dimensions	HxWxD	mm	335x820x821									
Machine weight		kg	31.0	32.0	35.0	38.0	40.0	31.0	32.0	35.0	38.0	40.0
Sound level	Sound power	dBA	52	55	60	61	64	52	55	60	61	64
Water pressure drop	Cooling	kPa	24.8	30.8	41.6	52.2	69.3	3.56	3.78	4.94	5.7	5.96
	Heating	kPa	21.4	26.8	35.3	45.2	64.1	-				
Fan	Air flow rate	m³/h	1,310	1,380	1,560	1,740	1,840	1,310	1,380	1,560	1,740	1,840
Water connections	Std. heat exchanger	inch	3/4"									
Required power supply		V/f/Hz	220-240 / 1 / 50									



- › Wide operating range
- › Quiet operation with auto-swing comfort
- › Easy to install and maintain
- › 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)
- › Slim and compact aesthetic design
- › 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



wall mounted unit **FWT**

103

fan coils FWT

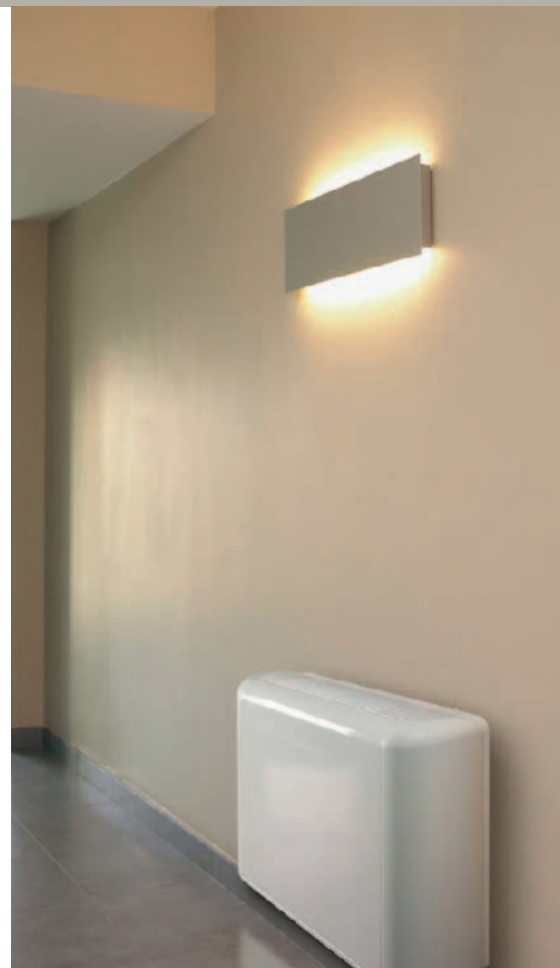
FWT				2-pipe				
				02	03	04	05	06
Power input			W	24	25	29	66	69
Capacity	Cooling capacity	Total capacity	kW	2.34	2.78	3.22	4.54	5.28
	Heating capacity (2-pipe)		kW	3.02	3.75	4.10	6.01	6.74
Dimensions	HxWxD		mm	260x799x198		260x899x198		304x1,062x222
Machine weight			kg	10.0	12.0		16.0	
Sound level	Sound power		dBA	53		55	61	64
Water pressure drop	Cooling		kPa	48.3	64.7	69.3	50.3	69.3
	Heating		kPa	42	58.6	60.6	50.6	70.6
Fan	Air flow rate		m³/h	467	510		1,070	1,121
Water connections			Std. heat exchanger	1/2"				
Required power supply			V/f/Hz	220-240 / 1 / 50				



ECFWER6 RAB RDF

FFW02CAT

- › Quick fixing system for wall mounting
- › 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
- › Quick removal of washable filter
- › Electrical heater : no relay up to 2kW capacity
- › Electrical heater : equipped with two overheat cut-out thermostats



FWV floor standing unit

FWV01-10C*				2-pipe (*=TN or TV)								4-pipe (*=FN or FV)							
				01	02	03	04	06	08	10	01	02	03	04	06	08	10		
Power input				W	37	53	56	98		182	244	37	53	56	98		182	244	
Capacity	Cooling capacity	Total capacity	kW	1.54	2.09	2.93	4.33	4.77	6.71	8.02	1.46	1.90	2.87	4.33	4.67	6.64	7.88		
		Sensible capacity	kW	1.20	1.51	2.11	3.15	3.65	4.91	5.96	1.14	1.51	2.07	3.15	3.57	4.85	5.85		
	Heating capacity (2-pipe)		kW	2.14	2.57	3.81	5.63	6.36	7.83	10.03	-								
	Heating capacity (4-pipe)		kW	-								1.90	2.10	3.08	5.05	5.30	7.91	9.30	
Dimensions	HxWxD		mm	564x774x226		564x984x226	564x1194x226		564x1404x251		564x774x226		564x984x226	564x1194x226		564x1404x251			
Machine weight				kg	19	20	25	30	31	41		20	21	26	32	33	44		
Sound level		Sound power		dBA	45	50	47	52	56	61	66	45	50	47	52	56	61	66	
Water pressure drop	Cooling		kPa	13		11	12	14	12	19	13		11	12	14	12	19		
	Heating		kPa	9	11	9		10	9	16	7	8	5	10		8	9		
Fan	Air flow rate		m³/h	319	344	442	706	785	1011	1393	307	327	431	690	763	998	1362		
Water connections		Std. heat exchanger		inch	1/2					3/4		1/2					3/4		
Required power supply				V/f/Hz	230/1/50														
Water flow	Cooling		l/h	265	359	504	745	820	1,154	1,343	251	327	494	745	803	1,142	1,355		
	Heating		l/h	265	359	504	745	820	1,154	1,343	196	182	286	396	465	694	816		
Coil	Water volume	heating	l	-								0.5	0.7	1	1.4		2.1		
Maximum absorbed current				W	0.17	0.24	0.25	0.44	0.43	0.80	1.12	0.17	0.24	0.25	0.44	0.43	0.80	1.12	

* : TN (2-pipe, without valves) - TV (2-pipe, with ON/OFF 3-way valves) - FN (4-pipe, without valves) - FV (4-pipe, with ON/OFF 3-way valves)



- › Quick fixing system for wall/ceiling mounting
- › 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
- › Quick removal of washable filter
- › Electrical heater : no relay up to 2kW capacity
- › Electrical heater : equipped with two overheat cut-out thermostats



flexi type unit **FWL**

105

FWL
fan coils

FWL01-10C*				2-pipe (*=TN or TV)								4-pipe (*=FN or FV)							
				01	02	03	04	06	08	10	01	02	03	04	06	08	10		
Power input			W	37	53	56	98		182	244	37	53	56	98		182	244		
Capacity	Cooling capacity	Total capacity	kW	1.54	2.09	2.93	4.33	4.77	6.71	8.02	1.46	1.90	2.87	4.33	4.67	6.64	7.88		
		Sensible capacity	kW	1.20	1.51	2.11	3.15	3.65	4.91	5.96	1.14	1.51	2.07	3.15	3.57	4.85	5.85		
	Heating capacity (2-pipe)		kW	2.14	2.57	3.81	5.63	6.36	7.83	10.03	-								
	Heating capacity (4-pipe)		kW	-								1.90	2.10	3.08	5.05	5.30	7.91	9.30	
Dimensions	HxWxD		mm	564x774x226		564x984x226	564x1194x226		564x1404x251		564x774x226		564x984x226	564x1194x226		564x1404x251			
Machine weight			kg	20	21	27	32	33	44		21	22	28	34	35	46			
Sound level	Sound power		dBA	45	50	47	52	56	61	66	45	50	47	52	56	61	66		
Water pressure drop	Cooling		kPa	13		11	12	14	12	19	13		11	12	14	12	19		
	Heating		kPa	9	11	9		10	9	16	7	8	5	10		8	9		
Fan	Air flow rate		m³/h	319	344	442	706	785	1011	1393	307	327	431	690	763	998	1362		
Water connections	Std. heat exchanger		inch	1/2					3/4		1/2					3/4			
Required power supply			V/f/Hz	230/1/50															
Water flow	Cooling		l/h	265	359	504	745	820	1,154	1,343	251	327	494	745	803	1,142	1,355		
	Heating		l/h	265	359	504	745	820	1,154	1,343	196	182	286	396	465	694	816		
Coil	Water volume	heating	l	-								0.5	0.7	1	1.4		2.1		
Maximum absorbed current			W	0.17	0.24	0.25	0.44	0.43	0.80	1.12	0.17	0.24	0.25	0.44	0.43	0.80	1.12		

* : TN (2-pipe, without valves) - TV (2-pipe, with ON/OFF 3-way valves) - FN (4-pipe, without valves) - FV (4-pipe, with ON/OFF 3-way valves)



ECFWER6



RAB



RDF



FWM01C



FWM01C

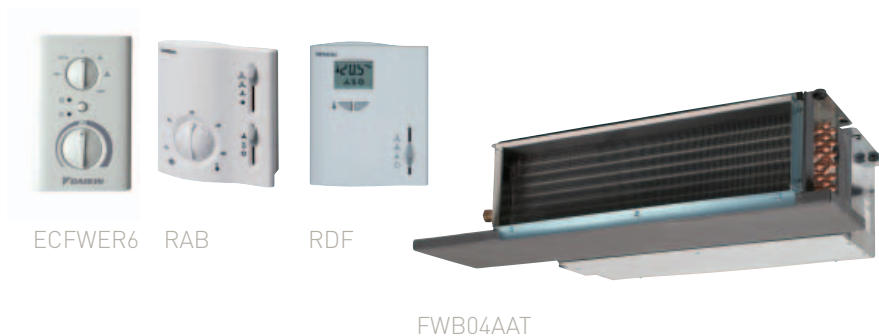
- › Quick fixing system for wall/ceiling mounting
- › Pre-assembled 3-way/4-port ON/OFF valves are available
- › Valve packages are insulated, no extra drain pan required
- › Valve packages contain balancing valves and sensor pocket
- › Fast-on connections for electrical options : no tools needed
- › Quick removal of washable filter
- › Electrical heater : no relay up to 2kW capacity
- › Electrical heater : equipped with two overheat cut-out thermostats



FWM flexi type unit

FWM01-10C*				2-pipe (*=TN or TV)								4-pipe (*=FN or FV)									
				01	02	03	04	06	08	10	01	02	03	04	06	08	10				
Power input				W	37	53	56	98		182	244	37	53	56	98		182	244			
Capacity	Cooling capacity	Total capacity	kW	1.54	2.09	2.93	4.33	4.77	6.71	8.02	1.46	1.90	2.87	4.33	4.67	6.64	7.88				
		Sensible capacity	kW	1.20	1.51	2.11	3.15	3.65	4.91	5.96	1.14	1.51	2.07	3.15	3.57	4.85	5.85				
	Heating capacity (2-pipe)		kW	2.14	2.57	3.81	5.63	6.36	7.83	10.03	-										
	Heating capacity (4-pipe)		kW	-								1.90	2.10	3.08	5.05	5.30	7.91	9.30			
Dimensions	HxWxD		mm	535x584x224		535x794x224		535x1004x224		535x1214x249		535x584x224		535x794x224		535x1004x224		535x1214x249			
Machine weight				kg	14	15	19		23		32		15	16	20		25		34		
Sound level		Sound power		dBA	45	50	47		52	56	61	66	45	50	47		52	56	61	66	
Water pressure drop	Cooling		kPa	13		11		12	14	12	19	13		11		12	14	12	19		
	Heating		kPa	9	11	9		10		9	16	7	8	5		10		8	9		
Fan	Air flow rate		m³/h	319	344	442		706	785	1011	1393	307	327	431		690	763	998	1362		
Water connections		Std. heat exchanger		inch	1/2					3/4			1/2					3/4			
Required power supply				V/f/Hz	230/1/50																
Water flow	Cooling		l/h	265	359	504	745	820	1,154	1,343	251	327	494	745	803	1,142	1,355				
	Heating		l/h	265	359	504	745	820	1,154	1,343	196	182	286	396	465	694	816				
Coil	Water volume	heating	l	-								0.5	0.7	1	1.4		2.1				
Maximum absorbed current				W	0.17	0.24	0.25	0.44	0.43	0.80	1.12	0.17	0.24	0.25	0.44	0.43	0.80	1.12			

* : TN (2-pipe, without valves) - TV (2-pipe, with ON/OFF 3-way valves) - FN (4-pipe, without valves) - FV (4-pipe, with ON/OFF 3-way valves)



ECFWER6 RAB

RDF

FWB04AAT

- › Height of the units only 240mm for all the sizes
- › 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
- › Standard air filter : removable from the bottom



concealed ceiling unit **FWB**

107

FWB
fan coils

FWB02-10AT			2-pipe									
			02	03	04	05	06	07	08	09	10	
Power input			W	106			192			294		
Capacity	Cooling capacity	Total capacity	kW	2.61	3.14	3.49	5.08	5.45	6.47	7.57	8.67	10.34
		Sensible capacity	kW	1.88	2.16	2.34	3.60	3.87	4.40	5.23	5.96	6.90
	Heating capacity (2-pipe)		kW	5.47	6.01	6.47	10.31	11.39	12.28	15.05	16.85	18.78
	Heating capacity (4-pipe)*		kW	3.14			5.99			12.80		
Dimensions	HxWxD		mm	239x1039x609			239x1389x609			239x1739x609		
Machine weight			kg	23	24	26	31	33	35	43	45	48
Sound level			Sound power	dBA			60			69		
Water pressure drop	Cooling		kPa	8	14	11	15	8	14	21		26
	Heating		kPa	7	10	8	12	7	10	16	15	18
Fan	Air flow rate		m³/h	400			800			1200		
	Available pressure		Pa	71			65			59		
Water connections	Std. heat exchanger		inch	3/4								
Required power supply			V/f/Hz	230/1/50								
Water flow	Cooling		l/h	448	539	598	873	936	1,111	1,299	1,488	1,774
	Heating		l/h	275			526			1,123		
Maximum absorbed current			W	0.51			0.94			1.28		

* : 4-pipe = 2-pipe + option Additional heat exchanger



ECFWER6 RAB

RDF

FWB02JT

- › Wide operating range
- › Quiet operation via enlarged fan wheels
- › Easy maintenance: filter can be removed from both sides and beneath (maximum filter size is 400mm)
- › Flexibility (2-pipe or 4-pipe)
- › 4 speed fan motor (3 selectable)
- › Direct driven centrifugal fans
- › Flexibility via interchangeable water connection side
- › High power air flow
- › Slim and compact aesthetic design
- › Available static pressure of 30 Pa
- › Extended drain pan as standard
- › Filter as standard
- › Plenum as standard
- › Insulated with self-extinguishing class 1 heat insulation
- › Electronic room thermostat



FWB-J concealed ceiling unit

FWB-J				2-pipe											4-pipe							
				02	03	04	05	06	07	08	09	10	11	02	03	04	06	07	08	10		
Power input			W	34	53	57	54	86	121	117	134	164	166	34	51	54	84	117	137	163		
Capacity	Cooling capacity	Total capacity	kW	1.64	2.67	2.99	3.34	4.81	5.31	6.16	7.26	8.49	8.99	1.67	2.67	3.03	4.88	5.33	6.53	8.21		
	Heating capacity (2-pipe)		kW	2.16	3.62	3.97	4.11	6.30	7.47	8.09	9.64	11.57	11.71	2.12	3.69	3.87	6.40	7.52	9.01	11.09		
	Heating capacity (4-pipe)		kW	-											2.49	3.92	4.43	6.70	8.16	9.56	11.68	
Dimensions	HxWxD		mm	251 x814 x590	251 x984 x590	251 x1,114 x590	251 x1,314 x590	251 x1,564 x590	251 x1,664 x590	251 x1,924 x590	251 x814 x590	251 x984 x590	251 x1,114 x590	251 x1,314 x590	251 x1,564 x590	251 x1,664 x590	251 x1,924 x590					
Machine weight			kg	20.0	23.0	28.0	31.0	33.0	44.0	48.0	52.0	50.0	56.0	22.0	27.0	31.0	36.0	48.0	52.0	56.0		
Sound level	Sound power		dBA	47.5	52	49	50	52			55	55.5	56	47	52	50	52		55	56		
Water pressure drop	Cooling	kPa	10.91	8.34	15.64	11.22	31.31	12.56	7.62	9.83	21.71	16.81	10.95	8.24	15.67	29.95	9.24	12.49	19.38			
	Heating	kPa	8.86	6.76	12.84	9.21	25.87	11.13	6.57	8.60	18.56	14.46	8.94	6.64	12.84	24.16	7.89	9.67	16.50			
Fan	Air flow rate	m³/h	262	428	431	428	757	945	950	1,066	1,463	1,341	220	424	437	747	898	1,112	1,385			
	Available pressure		Pa	30																		
Water connections			Std. heat exchanger	3/4																		
Required power supply			V/f/Hz	220-240 / 1 / 50																		



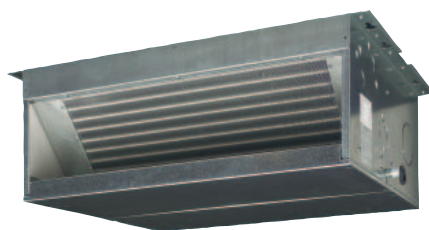
ECFWER6



RAB



RDF



FWD04A



FWD04A



- › Quick fixing system for wall/ceiling mounting
- › Straight duct connector is mounted to discharge side
- › Standard air filter : removable from the bottom

flexi type unit **FWD**

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FWD
fan coils

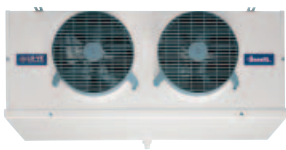
FWD04-18A*				2-pipe (*=T)								4-pipe (*F)							
				04	06	08	10	012	016	018	04	06	08	10	012	016	018		
Power input			W	234	349	443		714	1197		234	349	443		714	1197			
Capacity	Cooling capacity	Total capacity	kW	3.90	6.20	7.80	8.82	11.90	16.40	18.30	3.90	6.20	7.80	8.82	11.90	16.40	18.30		
		Sensible capacity	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)		kW	4.49	6.62	9.21		15.86	21.15		-								
	Heating capacity (4-pipe)		kW	-								4.05	7.71	9.43	10.79	14.45	19.81	21.92	
Dimensions	HxWxD		mm	280 x754 x559	280 x964 x559	280 x1174 x559		280 x1174 x559	352 x1384 x718		280 x754x 559	280 x964 x559	280 x1174 x559		352 x1174 x718	352 x1384 x718			
Machine weight			kg	35	43	50	52	71	83	86	33	41	47	49	65	77	80		
Sound level	Sound power		dBA	66	69	72		74	78		66	69	72		74	78			
Water pressure drop	Cooling		kPa	17	24		16	26	34	45	17	24		16	26	34	45		
	Heating		kPa	9	15	13		12	16		14	20		13	21	28	37		
Fan	Air flow rate		m³/h	800	1250	1600		2200	3000		800	1250	1600		2200	3000			
	Available pressure		Pa	63	53	63	59	92	138	128	66	58	68	64	97	145	134		
Water connections	Std. heat exchanger		inch	3/4				1			3/4				1				
Required power supply			V/f/Hz	230/1/50															
Water flow	Cooling		l/h	674	1,064	1,339	1,514	2,056	2,833	3,14	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			

* : T(2-pipe) - F(4-pipe)

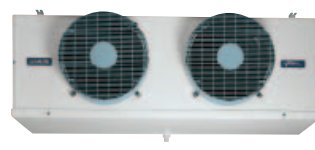
Air coolers for big storage, freezing and working cold rooms with positive and negative temperature for the industry. The heat exchanger of the air cooler is made of high efficiency copper tubes with internal special helical profile for the water/glycol solution. Several models available with different fin spacings and for capacities from 1 up to more than 160 kW.

Air cooler

S2HCW



S3HCW



SHDNW / SHDSW



SHAW





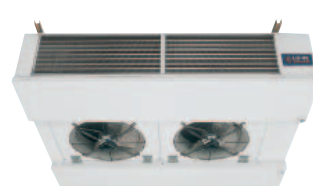
LU-VE

111

NHIW / HILW



HDIW



CHSW



LHSW



air cooler LU-VE



- › Air handling units for filtering, heating, cooling, humidifying, and air drying
- › Air handling units with heat recovery
- › Air handling units for outdoor or roof top installation
- › Air handling units for process industry
- › Air handling units in hygienic execution for hospital and clean room
- › Air handling units with indirect gas fired heating
- › Air handling units for swimming pool applications



Air handling unit 1.000 m³/h-124.000 m³/h



HEAT RECOVERY SYSTEMS

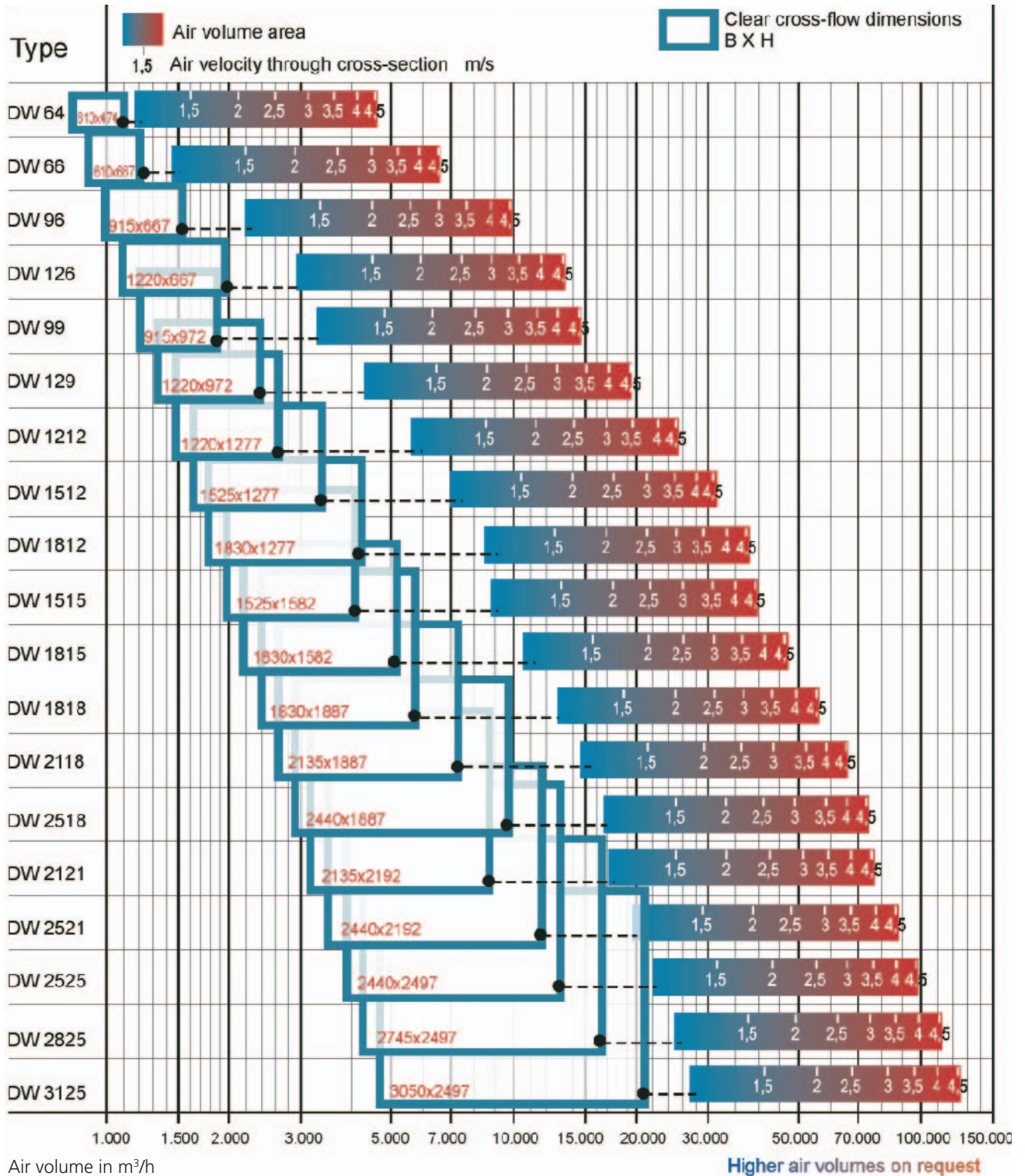
There are different types of heat recovery systems available:

- › Coil loop system
- › Plate heat exchanger
- › Heat wheel
- › Accublock
- › Heat pipe
- › ...





Range selection diagramm for DW 64-3125





UATP-A

- › 'Plug and Play' installation: the single unit configuration requires no additional piping work as both the indoor and outdoor sides are pre-connected.
- › Refrigerant is factory pre-charged to ensure clean and efficient operation.
- › The air volume and static pressure required can be adjusted according to the requirement because of the use of a belt driven fan.
- › The flat top design of the unit allows for maximum utilization of warehouse and container space.
- › High efficiency and reliable scroll compressor.
- › Convertible: fan can be mounted in two directions (Class 240-280-320-450-560).
- › Coil with anti-corrosion treatment.



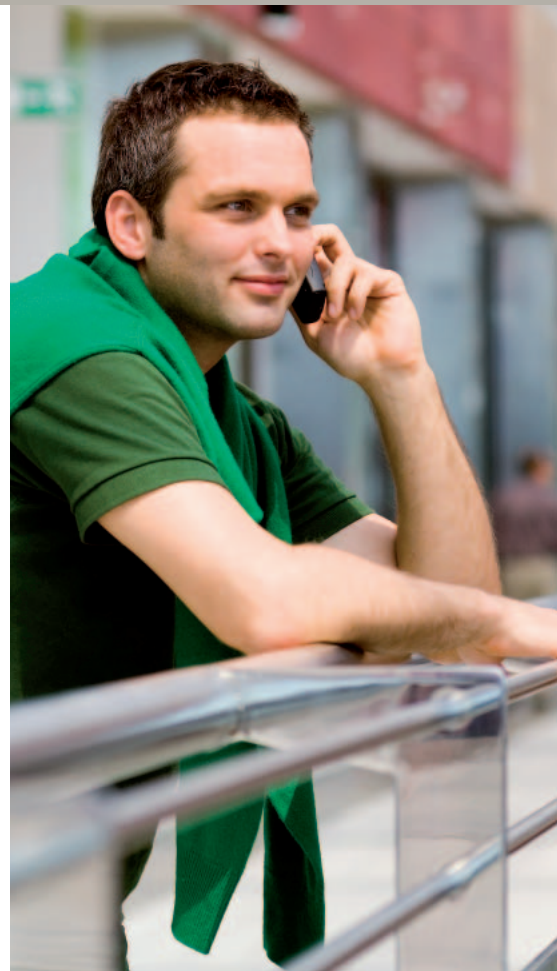
UATP-A rooftop

Cooling only				NON-INVERTER									
Outdoor Units				UATP180AMY1	UATP240AMY1	UATP280AMY1	UATP320AMY1	UATP450AMY1	UATP560AMY1	UATP700AMY1	UATP850AMY1	UATPC10AMY1	UATPC12AMY1
Capacity	Cooling	Minimum	kW	17.291	21.101	27.842	32.238	41.030	55.684	67.406	82.939	97.007	121.624
		Nominal	kW	5.89	8.70	11.60	12.18	17.20	25.10	28.70	40.16	41.87	48.80
EER	Cooling			2.94	2.43	2.40	2.65	2.39	2.22	2.35	2.07	2.32	2.49
Air Flow Rate evaporator	Cooling	m³/min		51	80	100	102	160	190	227	263	312	354
External Static Pressure			Pa	98				196		294			
Condensation Drain Size	Diameter	mm		25.4									
Casing	Colour			Light Grey									
	Material			Electro galvanised mild steel									
Dimensions	HxWxD	mm		1000x1100x1530	1000x1300x1530			1200x1990x1670		1735x2250x2800		1974x2252x3180	
Weight	Unit	kg		295	370	400	425	665	765	1200	1350	1510	1600
Air Flow Rate condensor	Cooling	m³/min		127	160		227	320		566			
Operation Range	Cooling	Min-Max	°CDB	20°C - 46°C									
Sound Level	Sound Power		dBA	63	65	66	68	70	70	74	74	80	80
Refrigerant	Type			R-407C									
Power Supply				3~/50Hz/380-415V									



UATYP-A

- › 'Plug and Play' installation: the single unit configuration requires no additional piping work as both the indoor and outdoor sides are pre-connected.
- › Refrigerant is factory pre-charged to ensure clean and efficient operation.
- › The air volume and static pressure required can be adjusted according to the requirement because of the use of a belt driven fan.
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- › High efficiency and reliable scroll compressor.
- › Convertible: fan can be mounted in two directions (Class 240-280-320-450-560).
- › Coil with anti-corrosion treatment.



rooftop

UATYP-A

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Heat pump				NON-INVERTER									
Outdoor Units				UATYP180AMY1	UATYP240AMY1	UATYP280AMY1	UATYP320AMY1	UATYP450AMY1	UATYP560AMY1	UATYP700AMY1	UATYP850AMY1	UATYPC10AMY1	UATYPC12AMY1
Capacity	Cooling	Minimum	kW	16.705	21.101	25.790	29.307	43.668	55.684	67.406	82.939	101.110	109.609
	Heating	Nominal	kW	20.222	22.566	29.89	35.755	46.891	67.406	74.733	92.317	102.290	126.314
EER	Cooling			2.44	2.51	2.38	2.28	2.64	2.63	2.31	2.17	2.34	2.27
COP	Heating			3.06	2.99	3.05	3.11	2.98	3.32	2.85	2.65	2.45	2.70
Air Flow Rate evaporator	Cooling		m³/min	51	80	100	102	160	190	226	263	312	354
External Static Pressure			Pa	98				196		294			
Condensation Drain Size	Diameter	(OD)	mm	25.4									
Casing	Colour	Light Grey											
	Material	Electro galvanised mild steel											
Dimensions	Unit	HxWxD	mm	1000x1100x1530				1200x1990x1800		1735x2250x2800		1974x2252x3180	
Weight	Unit		kg	320	385	415	440	700	800	12000	1350	1510	1600
Air Flow Rate condensor	Cooling		m³/min	127	160		283	320		566			
Operation Range	Cooling	Min-Max	°CDB	20°C – 46°C									
	Heating	Min-Max	°CWD	-15°C – 20°C									
Sound Level	Sound Power		dBa	63	65	66	68	70	70	74	74	80	80
Refrigerant	Type			R-407C									
Power Supply				3~/50Hz/380-415V									

MEASURING CONDITIONS

CHILLERS

Air-cooled	Cooling	Water 7°C / 12°C	Ambient temperature : 35°C
	Heating	Water 45°C / 50°C	Ambient temperature : 7°C
Remote condenser	Cooling	Water 7°C / 12°C	Condensing temp : 45°C
			Liquid temp. : 40°C
Water-cooled	Cooling	Evaporator water : 7°C / 12°C	Water condenser : 30°C / 35°C
	Heating	Evaporator water : 7°C / 12°C	Water condenser : 40°C / 45°C
Condensing units	Suction dewpoint : 5°C		Ambient temperature : 35°C

FAN COILS

Measuring conditions (at nominal air flow and ESP): COOLING: air temperature entering the unit: 27°C/19°C, water temperature entering the unit 7°C, water temperature leaving the unit 12°C - HEATING: room air temperature 20°C, for 2-pipe units: water temperature entering 50°C - water flow rate same as for the cooling test, for 4-pipe units: water temperature entering 70°C - water temperature leaving 60°C



NOTES

DAIKIN

Air Conditioning

Your Daikin technical adviser will advise you professionally and comprehensively and an on site, non binding consultation will enable a tailor-made solution to be developed for you.



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of environmental friendly products. This challenge demands the eco design and development of a wide range of products and an energy management system; which involves energy conservation and reduction of waste.



All Daikin units comply with the European Union regulations concerning the safety of appliances.



Daikin Europe N.V. participates in the Eurovent Certification Programme. The products comply with those listed in the Eurovent directory.



The ISO 14001 standard guarantees an effective environmental management system and contributes to the protection of human health and the environment against any possible repercussions of Daikin activities, products and services as well as the retention and enhancement of environmental quality.



The quality management system of Daikin Europe N.V. is recognised by the LRQA in conformity with the ISO 9001 standard. ISO 9001 relates to quality assurance pertaining to the planning, development and construction of products as well as the services offered in connection with these products.

Daikin products are available at:

