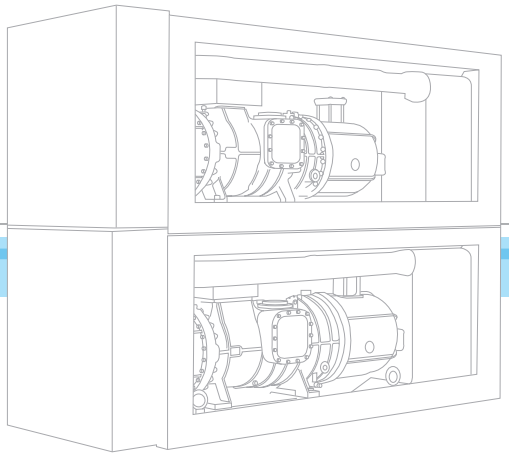
DAIKIN

EPLE04-24



Water-cooled chillers
Remote condenser chillers

EUW40-200MAXY
EUWL40-200MXY
Applied systems

OPTIMISED DESIGN R-134a

Compact line

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.

Flexible *application*

- 9 models available with cooling capacities ranging from 123 to 546kW and heating capacities from 148 to 659kW
- ideal for use in severe weather conditions and over a wide operation range.
- 2 independent circuits from 120hp onwards
- remote condenser version available (EUWL40-200MX)
- compact, simple and robust construction

Easy *installation*

- standard fitted with victaulic joints on evaporator and condenser pipes
- victaulic joints absorb vibrations, reduce operating sound and thermal deflection and simplify chiller piping and installation.
- They can accommodate 8° angles and guarantee stress free, leak tight water piping connection.

A range to rely on.

Single screw *compressor*

All chillers in this range are fitted with a G-type semi hermetic single screw compressor
NEW: high efficiency motor, screw shape, design of slide valves, gate rotor shaft

BENEFIT:
- overall COP increase of 5 to 10% compared to the previous series
- unequalled reliability for increased long life operation
- overhaul only necessary after 4.5 years of continuous operation

Electronic *control*

- advanced pco² control
- detailed information on and accurate control of all functional parameters by easy menu scrolling: schedule timer, floating set point, free cooling, double evaporator pump, manual pump on, date and time information, daily pump on.
- chilled water temperatures down to -10°C on standard unit.
  (Parameter in the service menu of the DDC controller must be set by the installer)
- changeable digital input/output such as remote on/off, remote cooling/heating, dual setpoint and limit capacity.
- self diagnostic and can be set up in several languages.
- Lead lag function is standard
- standard equipped with night setback and peak load limitation.
- optional digital controller can be installed up to 600 m from the unit.
- thanks to the standard DICN, simultaneous operation of up to 4 chillers is allowed.
  This function enables a Daikin 2MW chiller plant to be operated via a single controller.

Heat *exchanger*

- plate heat exchanger offers a maximum heat exchange between refrigerant and the water circuit.
- the use of this plate heat exchanger results in a compact unit:
  single and double circuits have the same small footprint (2,672mm x 898mm)
- new shell & tube condenser reducing drastically the amount of refrigerant.

EUW(L)-M(A)XY			40	60	80	100
Nominal capacity	cooling (EUW)	kW	123	183	249	273
	cooling (EUWL)	kW	116	170	235	265
	heating (EUW)	kW	148	217	292	329
Nominal input	cooling (EUW)	kW	29.6	47	64	71.6
	cooling (EUWL)	kW	32.4	50.4	67.4	78.7
	heating (EUW)	kW	35.2	55.3	74.5	85.3
EER (EUW/EUWL)			4.16 / 3.58	3.89 / 3.37	3.89 / 3.49	3.81 / 3.37
COP			4.20	3.92	3.92	3.86
Capacity steps		%	100-74-48			100-74-48-36
Refrigerant circuit	type		R-134a			
	charge (1)	kg	18	35	37	38
	control		thermostatic expansion valve		electronic expansion valve	
	oil type		FVC68D			
	oil charge	l	7.5	10	10	14
Compressor	type		Semi-hermetic single screw compressor			
No. of circuits/compressors			1/1			
Dimensions		mm	1,014 x 2,672 x 898			
Machine weight (EUW(L))		kg	993 (884)	1,263(1,100)	1,515 (1,332)	1,613 (1,418)
Sound power level	standart/Low Noise option	dB(A)	91/85	95/89	96/90	96/90
Casing	material / colour		Polyester painted galvanised steel plate / Ivory white - Munsell 5Y7.5/1			
Piping connections	evaporator water in/outlet		3" victaulic			
	evaporator water drain		field installation			
	condenser water inlet/outlet		2" 1/2 victaulic	3" victaulic		
	condenser water drain		M6			
	relief device outlet		1 x 1"	2 x 1"		
Operation range	leaving water condenser	°C	20°C ~ 50°C			
	condensing temperature	°C	25°C ~ 55°C			
	leaving water evaporator	°C	-10°C ~ 20°C			
Power supply		Y1	3~/50Hz/400V			

NOTE: 1. For refrigerant charge of EUWL-MX, please consult the databook

EUW(L)-M(A)XY			120	140	160	180	200
Nominal capacity	cooling (EUW)	kW	366	432	498	522	546
	cooling (EUWL)	kW	340	405	470	500	530
	heating (EUW)	kW	434	509	583	621	659
Nominal input	cooling (EUW)	kW	94	111	128	136	143
	cooling (EUWL)	kW	101	118	135	146	157
	heating (EUW)	kW	111	130	149	160	171
EER (EUW/EUWL)			3.89 / 3.37	3.95 / 3.43	3.95 / 3.48	3.93 / 3.42	3.94 / 3.38
COP			3.91	4.04	4.07	4.08	4.05
Capacity steps		%	100-87-74-61-50-37-24			100-87-74-68-61-55-50-42-37-24-18	100-87-74-68-61-55-42-37-24-18
Refrigerant circuit	type		R-134a				
	charge (1)	kg	70	72	74	75	76
	control		2 x thermostatic expansion valve	1x thermost. exp. valve+1x electr. exp. valve	2 x electronic expansion valve		
	oil type		FVC68D				
	oil charge	l	10	2 x 10	2 x 10	10 + 14	2 x 14
Compressor	type		Semi-hermetic single screw compressor				
No. of circuits/compressors			2/2				
Dimensions		mm	2,000 x 2,672 x 898				
Machine weight (EUW(L))		kg	2,526 (2,200)	2,778 (2,432)	3,030 (2,664)	3,128 (2,750)	3,326 (2,836)
Sound power level	standart/Low Noise option	dB(A)	98/92	99/93	99/93	99/93	99/93
Casing	material / colour		Polyester painted galvanised steel plate / Ivory white - Munsell 5Y7.5/1				
Piping connections	evaporator water in/outlet		3" victaulic				
	evaporator water drain		field installation				
	condenser water inlet/outlet		3" victaulic				
	condenser water drain		M6				
	relief device outlet		2 x 1"	3 x 1"	4 x 1"		
Operation range	leaving water condenser	°C	20°C ~ 50°C				
	condensing temperature	°C	25°C ~ 55°C				
	leaving water evaporator	°C	-10°C ~ 20°C				
Power supply		Y1	3~/50Hz/400V				

NOTE: 1. For refrigerant charge of EUWL-MX, please consult the databook

Option Number	Option description	model-type		unit size									Availability
		-	s	40	60	80	100	120	140	160	180	200	
Completely combinable options													
op03	dual pressure relief valve on the condenser (EUW)	o	std	o	o	o	o	o	o	o	o	o	factory mounted
op12	suction stop valve	o	std	o	o	o	o	o	o	o	o	o	factory mounted
op52	main isolator switch	o	o	o	o	o	o	o	o	o	o	o	factory mounted
op57	a-meter, V-meter	o	o	o	o	o	o	o	o	o	o	o	factory mounted
OPLN	low noise operation	o	o	o	o	o	o	o	o	o	o	o	factory mounted
Available kits													
EKCLWS	Leaving water controlsensor for DICN	o	o	o	o	o	o	o	o	o	o	o	kit
EKAC200A	BMS card	o	o	o	o	o	o	o	o	o	o	o	kit
EKBMSMBA	BMS gateway modbus / j-bus protocol	o	o	o	o	o	o	o	o	o	o	o	kit
EKBMSBNA	BMS gateway bacnet protocol	o	o	o	o	o	o	o	o	o	o	o	kit

Model type for PED approval (-)
Model type for SA approval (s)

To install EKBMSMBA, EKBMSBNA --> EKAC200A needs to be installed on the unit
o available
std standard

Measuring *conditions*

1. Nominal cooling capacities are based on: evaporator: 12°C/7°C • condenser 30°C/35°C (EUW); condensing temperature 45°C (EUWL) • liquid temperature 40°C (EUWL)
2. Nominal heating capacities are based on: evaporator: 10°C/5°C • condenser 40°C/45°C
3. The sound power level is an absolute value indicating the "power" which a sound source generates.

Daikin products are distributed by:

Specifications are subject to change without prior notice.

DAIKIN EUROPE N.V.
Zandvoordestraat 300
B-8400 Oostende, Belgium
Internet: http://www.daikineurope.com

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

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