



Egea RWP

**Water cooled chillers and heat pumps
Motoevaporating units
Capacities from 21 to 340 kW**

The EGEA-RWP series is a product that has been designed for the climate control of medium to large areas such as offices, shops, pubs and restaurants. The carefully manufactured product uses a water-type condensation process through a brazed plate heat exchanger thereby creating the conditions for the construction of compact units that are efficient and extremely quiet compared with radial and axial fans ones.

The available versions make it possible to select the model and the solution best adapted for the type of system served.



>Versions


- F** cooling only version available in 16 different sizes.
- H** heat pump version with cycle inversion on refrigerant circuit available in 8 different sizes (up to size 80).
- HW** heat pump version with cycle inversion on hydraulic circuit available in 16 different sizes.
- ME** motoevaporating unit available in 16 different sizes.


>Accessories

- Evaporator electric heater.**
- Remote control.**
- Antivibration mounts.**
- Refrigerant pressure gauges.**
- Pressure switch valve (ME version excluded).**
- Water filter.**



>Main technical data

Egea RWP		21	26	34	40	45	55	70	80	110
Cooling capacity ¹	kW	23,6	28,4	37,1	42,5	42,8	56,8	74,2	85,6	110,4
Input power ¹	kW	5,2	6,7	8,9	10,3	10,4	13,4	17,8	20,6	28,0
Heating capacity ² (only H)	kW	27,8	36,8	48,2	55,5	55,6	73,6	96,5	111,3	145,3
Power supply		400V - 3 - 50 Hz								
Nominal input current	A	8,7	11,3	15,0	17,3	17,5	22,5	28,6	34,6	94,0
Compressor type		Hermetic scroll								
Compressors / Circuits	n°	1/1	1/1	1/1	1/1	2/1	2/1	2/1	2/1	2/1
Capacity steps		1	1	1	1	2	2	2	2	2
Evaporator / number		Plate / 1								
Liquid flow rate	m ³ /h	3.7	4.9	6.4	7.3	7.4	9.8	12.8	14.7	19,0
Pressure drop	kPa	28	28	30	31	18	19	21	23	24
Condenser / number		Plate / 1 (ME version excluded)								
Liquid flow rate	m ³ /h	4,6	6,0	7,9	9,1	9,2	12,1	15,8	18,3	23,8
Pressure drop	kPa	50	48	69	69	28	29	32	35	33
Sound pressure 	dB(A)	49	49	51	51	50	50	53	53	55
Total maximum current	A	17,0	25,0	29,0	35,0	38,0	50,0	60,0	70,0	100,0
Starting current	A	98,0	120,0	150,0	175,0	106,7	131,3	200,0	192,3	265,0
Hydraulic connections		1"	1"	1"	1"	2"	2"	2"	2"	2"


Egea RWP		140	150	170	200	220	250	280	310	340
Cooling capacity ¹	kW	137,0	148,4	171,2	196,0	220,8	247,4	273,9	306,5	336,3
Input power ¹	kW	34,3	35,6	41,2	48,6	56,0	62,4	68,7	83,8	94,7
Heating capacity ² (only H)	kW	179,8	192,8	222,6	256,6	290,6	325,2	359,5	400,6	440,3
Power supply		400V - 3 - 50 Hz								
Nominal input current	A	57,6	59,8	69,2	81,7	94,1	104,9	107,9	147,5	164,7
Compressor type		Hermetic scroll								
Compressors / Circuits	n°	2/1	4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2
Capacity steps		2	4	4	4	4	4	4	4	4
Evaporator / number		Plate / 1								
Liquid flow rate	m ³ /h	23,6	25,5	29,4	33,7	38,0	42,6	47,1	52,7	57,8
Pressure drop	kPa	29	49	47	40	40	42	46	32	39
Condenser / number		Plate / 1 (ME version excluded)								
Liquid flow rate	m ³ /h	29,5	31,6	36,5	42,1	47,6	53,3	58,9	66,4	73,3
Pressure drop	kPa	34	33	34	33	35	35	36	52	63
Sound pressure 	dB(A)	55	55	55	58	58	58	58	58	58
Total maximum current	A	138,0	120,0	140,0	170,0	200,0	238,0	276,0	298	320
Starting current	A	339,0	260,0	280,0	335,0	365,0	439,0	477,0	545	580
Hydraulic connections		2"	2"	2"	2"	DN 80 Victaulic				

cooling

heating

¹ Inlet/outlet temp. 30/35 °C, evap inlet/outlet 12/7 °C.
For ME version: cond. temp. 40 °C, inlet/outlet temp. 12/7 °C.

² Inlet/outlet temp. 40/45 °C, evap inlet/outlet 15/10 °C.

 Sound pressure at 1 m in free field.



>Characteristics

Compressors: hermetic scroll complete with internal thermal protection. Direct start up. Cooling capacity control through capacity steps depending on the number of compressors installed. The compressors are housed in a special soundproof compartment.

Evaporators: of the brazed plate stainless steel heat exchanger type with anti-condensate closed-cell polyurethane insulation. A differential pressure switch is installed on all the units to protect the exchanger.

Condensers: stainless steel plate type. In the HW version, a differential pressure switch is installed to protect the exchanger.

Control and safety devices: microprocessor type, different for the single and twin circuit units but in

both cases including the control of the cooling capacity on one or more cooling capacity steps based on the monitoring of the water back from the system, setting of the operating parameters, display of the evaporator inlet and outlet temperature and display of the alarms. setting of the compressor protection timing, reset of the alarms, automatic start up after power failure.

Electrical panel: made with double door execution, it includes an automatic general switch, thermomagnetic switches to protect the auxiliary circuit, contactors for compressors and fans. Terminal plate.

Cooling circuit: all the cooling circuit components are welded. It includes: drier-filter, thermostatic expansion valve, manual reset

high pressure switch, automatic reset low pressure switch, high and low pressure safety valves.

Structure: base and structural part made of high-thickness galvanised steel sheet, epoxy painted, external panels made of aluminium up to size 110, galvanised steel sheet epoxy painted for all the other sizes. Stainless steel bolts and screws.



Electronic expansion valve



Compact unit with water condensation and scroll compressors

Very quiet operation



>Sizes and weights

			21	26	34	40	45	55	70	80	110
Length	L	mm	604	604	604	604	1.129	1.129	1.129	1.129	1.400
Width	W	mm	584	584	584	584	710	710	710	710	720
Height	H	mm	1.402	1.402	1.402	1.402	1.580	1.580	1.580	1.580	1.580
Weight		kg	171	194	206	233	350	396	420	470	650

			140	150	170	200	220	250	280	310	340
Length	L	mm	1.400	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Width	W	mm	720	720	720	720	720	720	720	720	720
Height	H	mm	1.580	1.580	1.580	1.580	1.580	1.580	1.580	1.908	1.908
Weight		kg	701	840	942	1.104	1.305	1.367	1.412	1.444	1.450



>Accessories compatibility

	21-40	45-110	140-170	200-340
Main switch	●	●	●	●
Differential pressure switch	●	●	●	●
Microprocessor	●	●	●	●
On/off free contact	●	●	●	●
General alarm free contact	●	●	●	●
Electronic expansion valve	○	○	○	○
Antivibration mounts	○	○	○	○
Evaporator electric heater	○	○	○	○
Refrigerant pressure gauges	○	○	○	○
Pressure switch valve (ME off)	○	○	–	–
Remote control	○	○	○	○
Water filter	○	○	–	–

● Standard, ○ Optional, – Not available.