

EW-HT

R134a Water to Water Heat Pump

(70 to 279kW)

The Climaveneta **EW-HT** is perfect for applications where very high temperature water is needed.

With the ability to provide hot water up to 78°C, the operating parameters of the EW-HT make it the ideal solution for a wide range of commercial applications, by being used in combination with our INTEGRA range of 4-pipe systems for applications such as residential and commercial buildings, industrial process heat recovery (including IT Cooling) and district heating systems.



Key Features & Benefits:

- Wide operating range, with hot water production up to 78°C (evaporator water outlet up to 40°C)
- Maximum reliability with two independent refrigerant circuits, designed to ensure maximum efficiency at full load
- Compact design
- Electronic expansion valve supplied as standard



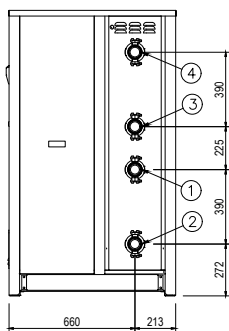


MODEL		0152	0182	0202	0262	0302	0412	0512	0612
POWER SUPPLY	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE - HEATING ONLY¹									
HEATING CAPACITY	kW	70.2	79.3	92.5	113	139	181	225	279
TOTAL POWER INPUT	kW	17.0	18.9	22.0	27.9	34.2	43.7	55.1	67.6
COP	kW/kW	4.13	4.20	4.20	4.05	4.08	4.14	4.08	4.13
PERFORMANCE - HEATING ONLY (EN14511 VALUE)^{1,2}									
HEATING CAPACITY	kW	70.4	79.5	92.7	113	140	181	225	280
COP	kW/kW	4.01	4.07	4.08	3.94	3.98	4.04	4.01	4.06
SEASONAL ENERGY EFFICIENCY (Reg. EU 813/2013)^{3,9}									
PDESIGN	kW	38.6	43.6	50.0	61.6	78.1	104	128	157
SCOP		3.27	3.39	3.45	3.30	3.30	3.25	3.27	3.30
PERFORMANCE η_{sp} ⁸	%	123	128	130	124	124	122	123	124
EXCHANGERS¹									
HEAT EXCHANGER WATER FLOW (USER / SOURCE)	l/s	2.15 / 2.62	2.42 / 2.97	2.83 / 3.47	3.45 / 4.19	4.26 / 5.18	5.52 / 6.74	6.87 / 8.35	8.54 / 10.41
HEAT EXCHANGER PRESSURE DROP (USER / SOURCE)	kPa	23.9 / 45.4	25.0 / 46.7	24.2 / 51.8	24.2 / 53.8	19.7 / 49.7	19.8 / 50.1	19.8 / 37.6	20.1 / 37.7
REFRIGERANT CIRCUIT									
COMPRESSORS	No.	2	2	2	2	2	2	2	2
NUMBER OF CIRCUITS	No.	2	2	2	2	2	2	2	2
TYPE OF REGULATION		STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
MINIMUM CAPACITY STEPS	%	50	50	50	50	50	50	50	50
TYPE OF REFRIGERANT		R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
REFRIGERANT CHARGE	kg	6	7	8	9	10	11	12	13
OIL CHARGE	kg	5	7	7	7	7	9	14	13
NOISE LEVEL									
SOUND POWER LEVEL ^{5,6}	dB(A)	74	74	74	76	76	78	78	80
SOUND PRESSURE LEVEL ⁴	dB(A)	58	58	58	60	60	62	62	64
DIMENSIONS AND WEIGHT⁷									
WIDTH	mm	1223	1223	1223	1223	1223	1223	1223	1223
DEPTH	mm	877	877	877	877	877	877	877	877
HEIGHT	mm	1496	1496	1496	1496	1496	1496	1496	1496
OPERATING WEIGHT	kg	365	380	390	415	430	610	675	740

Notes: 1. Plant (side) heat exchanger water (in/out) 70°C/78°C; Source (side) heat exchanger water (in/out) 45°C/40°C. 2. Values in compliance with EN14511. 3. Seasonal space heating energy efficiency class MEDIUM TEMPERATURE in AVERAGE climate conditions. [REGULATION (EU) N. 813/2013]. 4. Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level. 5. Sound power on the basis of measurements made in compliance with ISO 9614. 6. Sound power level in heating, indoors. 7. Unit in standard configuration/execution, without optional accessories. 8. Seasonal space heating energy efficiency. 9. Fixed flow rate and variable temperature calculation. The units highlighted in this publication contain HFC R134a [GWP₁₀₀ 1430] fluorinated greenhouse gases.

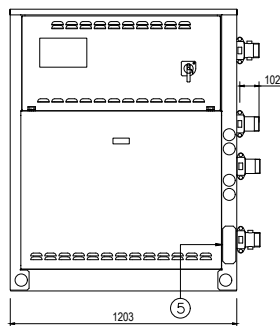
DIMENSIONS

SIDE VIEW

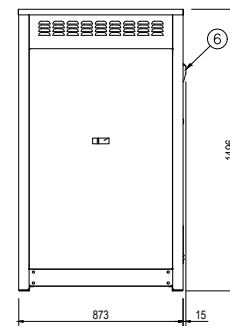


- ① EVAPORATOR WATER INLET
- ② EVAPORATOR WATER OUTLET
- ③ CONDENSER WATER INLET
- ④ CONDENSER WATER OUTLET
- ⑤ POWER INLET
- ⑥ MAIN ISOLATOR HANDLER

FRONT VIEW



SIDE VIEW



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Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

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