

EW-HT-G05

High Temperature Water-to-Water Heat Pump

The Climaveneta **EW-HT** is perfect for applications requiring high temperature water of up to 78°C, a key feature for your decarbonisation project by complimenting your air sourced heat pumps to create a cascade system, replacing fossil fuel heating systems.

Designed with a compact footprint for indoor placement, installation is straightforward with low GWP refrigerant R513A, which being non-flammable, has an ASHRAE A1 safety class. With its 2 independent circuits, it can operate in part load to improve efficiency during low-demand periods and comes available with several options such as touch screen display, refrigerant leak detection and Master-Client group controls.

With a wide operating envelope, the **EW-HT** can support a range of commercial applications by interfacing between your low temperature hot water (LTHW) circuit and your Hot Water (HW) circuit. It can also be harmonised with our INTEGRA range of Simultaneous Heating & Cooling equipment (4-pipe) for commercial buildings, industrial process heat recovery (including IT Cooling) and district heating systems.



Key Features & Benefits:

- High temperature water (78°C) for replacing fossil fuel heating systems
- Low GWP Refrigerant R513A (GWP₁₀₀ = 631)*
- Compact footprint of only 1m²
- High temperature supply water of up to 78°C
- Advanced controls with W3000+ microprocessor
- Reliable and efficient with 2 independent refrigerant circuits
- Compatible with Master-Client controls, Keyboard In Pocket (KIP) interface and Building Energy Management System (BEMS) via interface cards
- Factory fitted options such as refrigerant leak detection, touch screen display, energy meter and additional soundproofing available

*IPCC AR4



EW-HT-G05			0182	0202	0262	0302
Performance - Heating Only						
Gross Value¹						
Total Heating Capacity		kW	72.9	85.9	105	129
Total Power Input		kW	19.8	22.9	28.6	34.3
COP		kW/kW	3.68	3.75	3.68	3.77
EN14511 Values^{1 2}						
Total Heat Capacity		kW	73.0	86.0	105.2	129.3
COP		kW/kW	3.64	3.71	3.64	3.73
Seasonal Performance - Medium Temperature^{3 9}						
Rated heat output at Tdesignh		kW	42	48.0	60	74
SCOP			3.15	3.11	3.10	3.19
Performance η_s ⁸		%	118	116	116	120
Electrical Data						
Power Supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
F.L.A. ⁷	Total	A	38	43	49	64
Exchangers						
Minimum Water Content	User Side	l	270	319	390	480
Minimum Water Flow	Source Side	l/s	1.33	1.65	1.98	2.29
Heat Exchanger in Heating¹						
Water Flow	User Side	l/s	2.23	2.63	3.21	3.95
Pressure Drop ²	User Side	kPa	15.90	14.00	14.20	15.80
Water Flow	Source Side	l/s	2.62	3.11	3.78	4.68
Pressure Drop ²	Source Side	kPa	19.3	17.7	18.2	20.9
Refrigerant Circuit						
Compressors		No.	2	2	2	2
No. of Capacity Steps		No.	2	2	2	2
Circuits		No.	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS
Minimum Capacity Step		%	50	50	50	50
Refrigerant			R513A	R513A	R513A	R513A
Refrigerant Charge		kg	8.40	8.80	10.50	10.90
Oil Charge			6.80	6.80	6.60	6.80
Noise Levels						
Total Sound Pressure ⁴		dB(A)	58	58	60	60
Total Sound Power Level in Heating ^{5 6}		dB(A)	74	74	76	76
Size and Weight⁷						
Width (A)		mm	1223	1223	1223	1223
Depth (B)		mm	877	877	877	877
Height (H)		mm	1496	1496	1496	1496
Operation Weight		kg	380	390	415	430

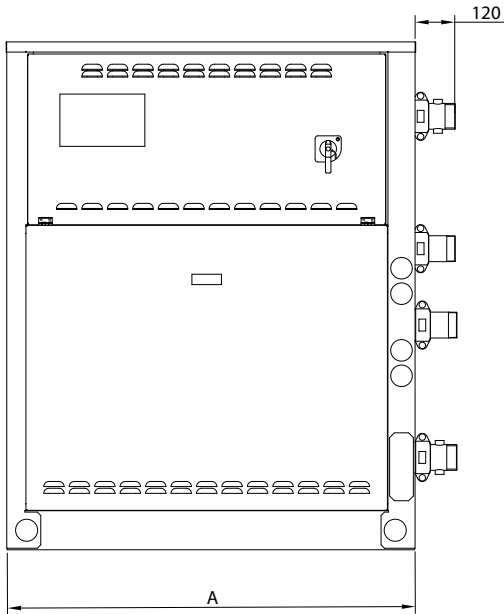
Notes:

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.

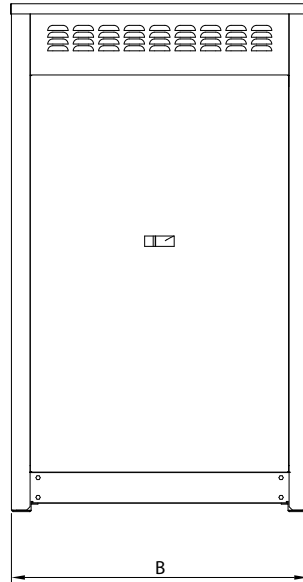
EW-HT-G05 DIMENSIONS

All dimensions are in millimetres.

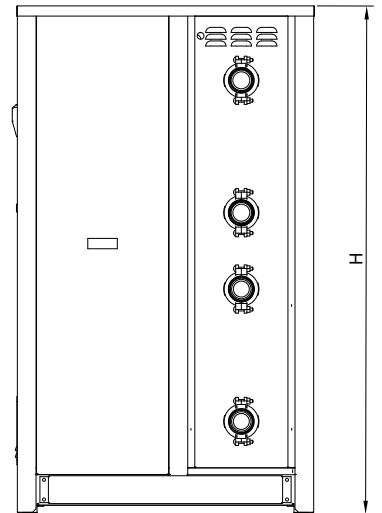
FRONT VIEW



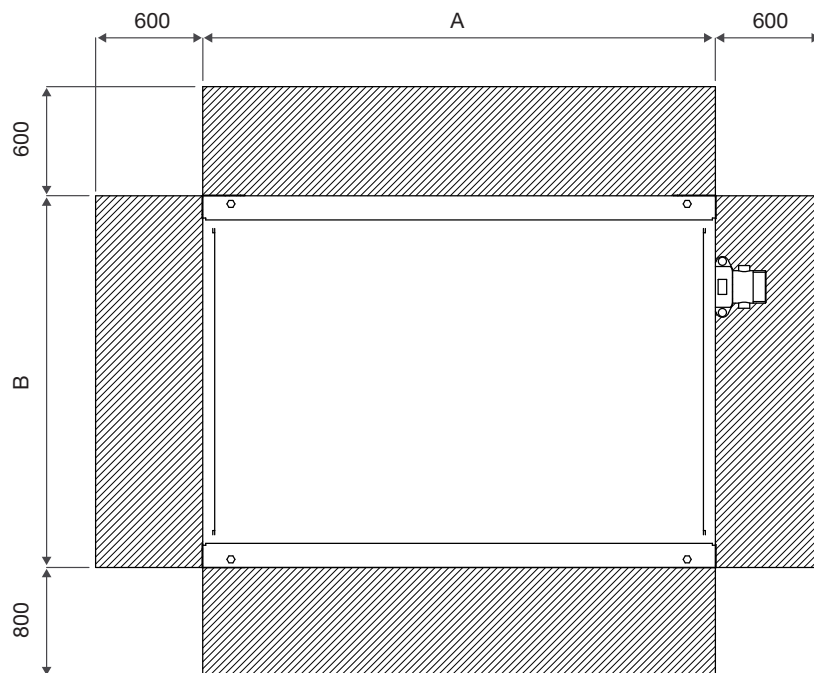
LEFT SIDE VIEW



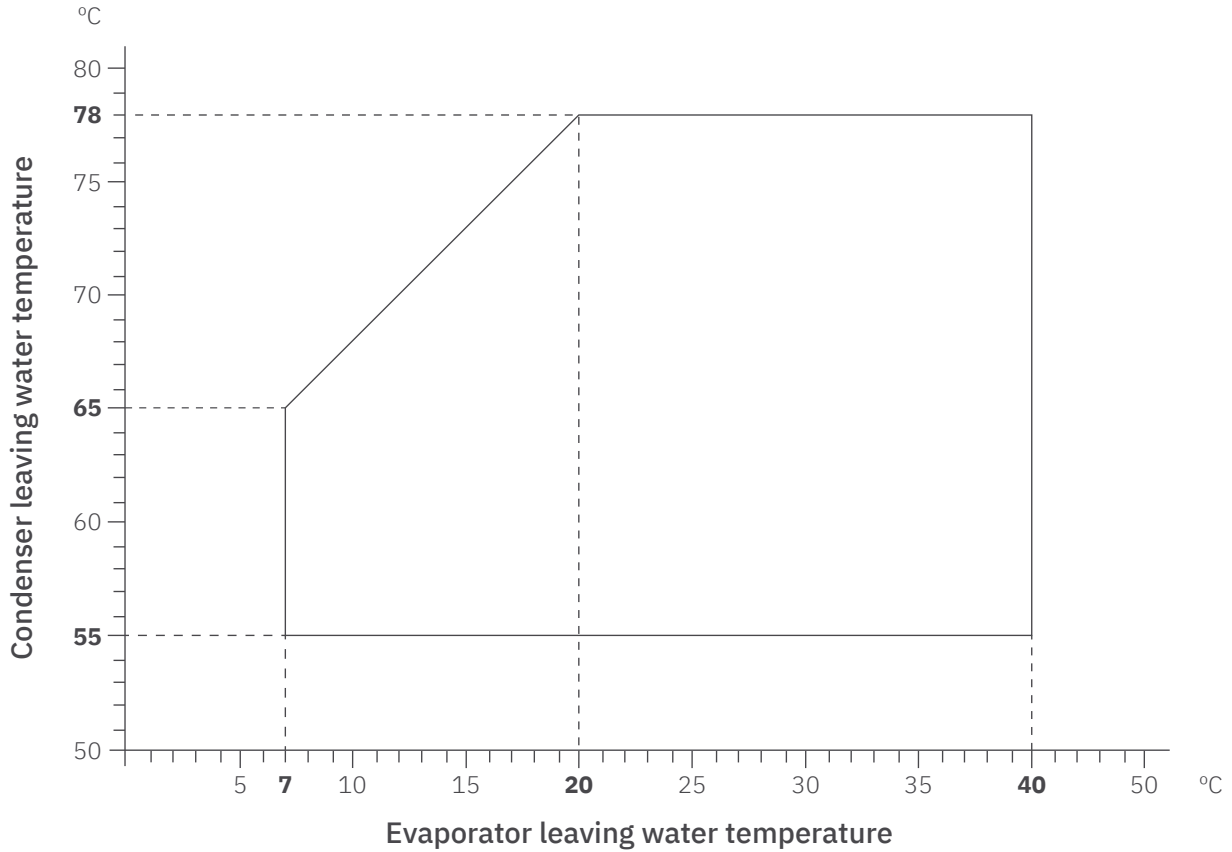
RIGHT SIDE VIEW



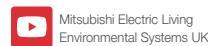
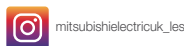
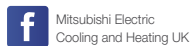
TOP VIEW



OPERATING ENVELOPES



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Note: 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), R290 (GWP:3), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R454C (GWP:148), 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).

Effective as of June 2024

