

# MEHP-iS-G07

## Reversible Air Sourced Heat Pump with Inverter Scroll Compressors

Mitsubishi Electric's **MEHP-iS-G07** is our flagship reversible air sourced heat pump using 1 or 2 Variable Speed Drive (VSD) scroll compressors for comfort heating and cooling.

Manufactured to the highest quality it can provide hot water up to 65°C and has industry leading Seasonal Coefficient of Performance (SCOP). With a compact design, it can operate in ambient conditions as low as -20°C quietly and effectively.

The **MEHP-iS-G07** comes with design with features such as hydrophilic treatment on heat exchangers, trace heating for the condensate tray and smart defrost logic as standard. With options for advance LAN network controls, multiple units can work in a heat pump group to cover your commercial heating application.



### Key Features & Benefits:

- Industry leading seasonal performance (SCOP)
- Quiet operation in a compact footprint with high water leaving water temperatures allows for versatile applications
- Variable speed fans with Brushless DC motors (BLDC) and inverter compressors in an acoustic enclosure as standard
- Lower GWP Refrigerant R32
- Wide range of options available including: inbuilt hydronic pumps, buffer vessels, energy meters, Smart LAN functions and many more
- Proprietary Smart Coordinated Defrost for optimal defrosting in a group using Lan MultiManager or Manager 3000+



MEHP-iS-G07			0051	0061	0071	0082	0092	0102	0112
<b>Performance - Heating Only</b>									
<b>EN14511 Values<sup>1,2</sup></b>									
Total Heating Capacity	kW		50.00	60.00	70.00	80.00	90.00	100.3	110.3
COP	kW/kW		3.44	3.38	3.15	3.32	3.12	3.35	3.18
<b>Seasonal Performance - Low Temperature<sup>4</sup></b>									
Rated Heat Output at Tdesignh	kW		40.0	48.0	55.0	64.0	72.0	80.0	89.0
SCOP			4.39	4.33	4.34	4.35	4.12	4.30	4.32
Performance ηs	%		172	170	171	171	162	169	170
<b>Seasonal Performance - Medium Temperature<sup>4</sup></b>									
Rated Heat Output at Tdesignh	kW		40.0	48.0	48.0	64.0	64.0	82.0	82.0
SCOP			3.43	3.37	3.37	3.37	3.23	3.39	3.43
Performance ηs	%		134	132	132	132	126	133	134
<b>Performance - Cooling Only</b>									
<b>EN14511 Value<sup>1,3</sup></b>									
Cooling Capacity	kW		48.00	53.00	60.00	68.30	74.10	85.90	93.80
EER	kW/kW		2.81	2.64	2.34	2.73	2.45	2.68	2.48
<b>Seasonal Performance<sup>5</sup></b>									
Prated,C	kW		48.0	53.0	60.0	68.3	74.1	85.9	93.8
SEER			4.63	4.58	4.46	4.49	4.46	4.81	4.75
Performance ηs	%		182	180	175	177	175	189	187
<b>Electrical Data</b>									
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
Max F.L.A. <sup>6</sup>	Total	A	52	60	60	78	78	93	93
<b>Exchangers</b>									
Minimum Water Flow		l/s	1.667	1.667	1.667	2.222	2.222	2.778	2.778
Minimum Water Content	System	l	400	480	560	640	720	800	880
<b>Refrigerant Circuit</b>									
Compressors	No.		1	1	1	2	2	2	2
Circuits	No.		1	1	1	1	1	1	1
Refrigerant			R32	R32	R32	R32	R32	R32	R32
Theoretical Refrigerant Charge	kg		13.50	13.50	12.00	17.50	17.00	21.50	20.50
<b>Fans</b>									
Quantity	No.		2	2	2	3	3	4	4
Airflow		m3/s	5.89	5.89	5.89	8.89	8.89	11.77	11.77
<b>Noise Levels</b>									
Total Sound Pressure <sup>7</sup>		dB(A)	59	60	62	62	63	63	63
Total Sound Power Level in Cooling <sup>8,9</sup>		dB(A)	77	78	80	80	81	82	82
Total Sound Power Level in Heating <sup>8,10</sup>		dB(A)	77	78	80	80	81	82	82
<b>Size and Weight<sup>11</sup></b>									
Width (A)		mm	2085	2085	2085	2600	2600	3225	3225
Depth (B)		mm	1100	1100	1100	1100	1100	1100	1100
Height (H)		mm	2400	2400	2400	2400	2400	2400	2400
Operation Weight		kg	710	710	710	960	960	1085	1085

■ Eurovent Certified Data

1. Values in compliance with EN14511.

2. Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H

3. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.

4. Seasonal space heating energy efficiency class [REGULATION (EU) N. 813/2013] - Average Weather Conditions. Calculation with variable waterflow and variable temperature.

5. Parameter calculated according to [REGULATION (EU) N. 2016/2281]

6. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook.

7. 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.

8. Sound power level on the basis of measurement taken in compliance with ISO 9614.

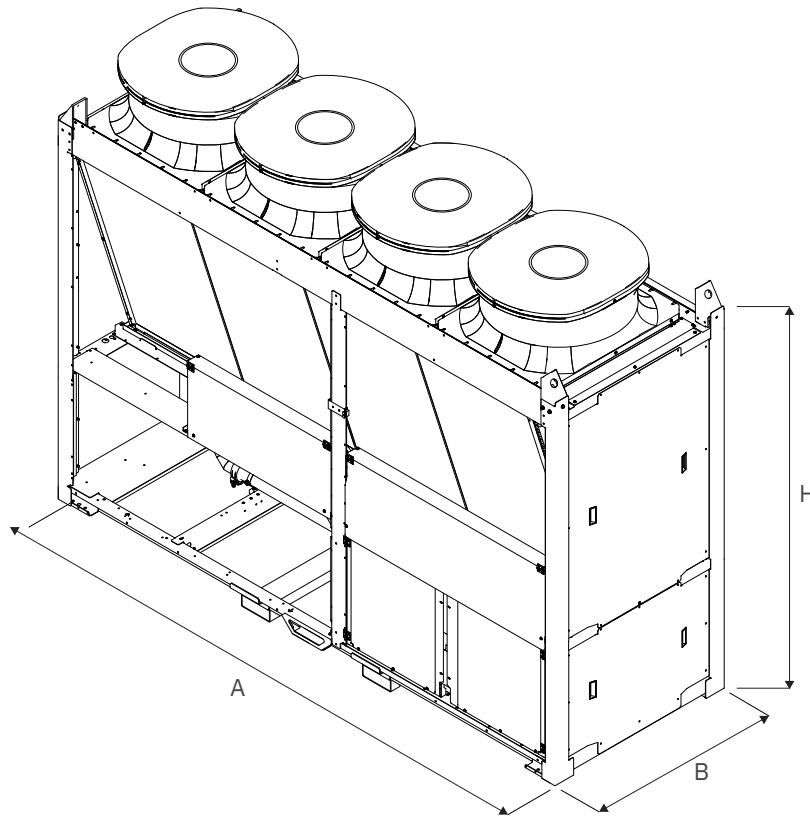
9. Sound power level in cooling, outdoors.

10. Sound power level in heating, outdoors.

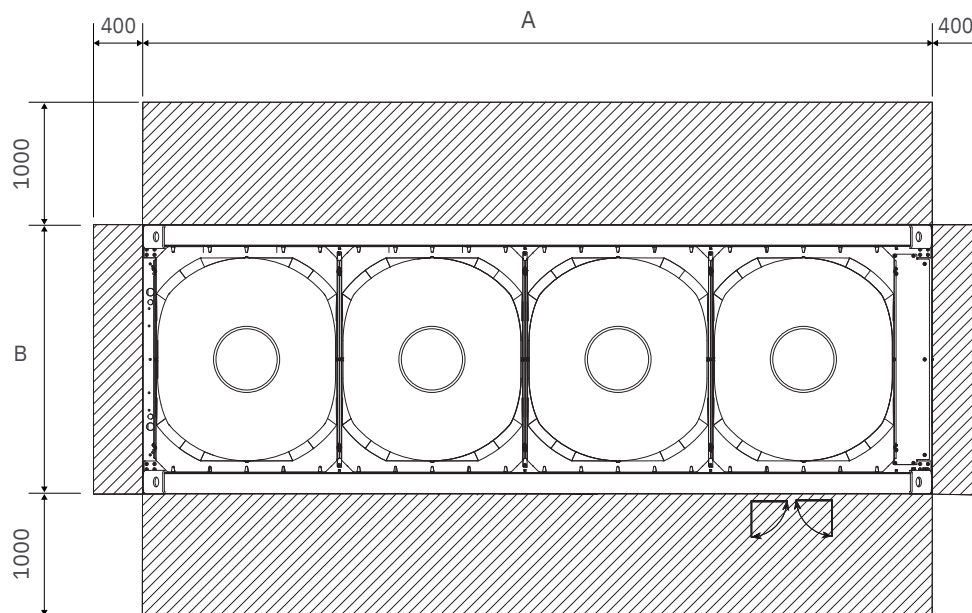
11. Unit in standard configuration, without option accessories.

MEHP-iS-G07 DIMENSIONS AND CLEARANCES

All dimensions are in millimetres.

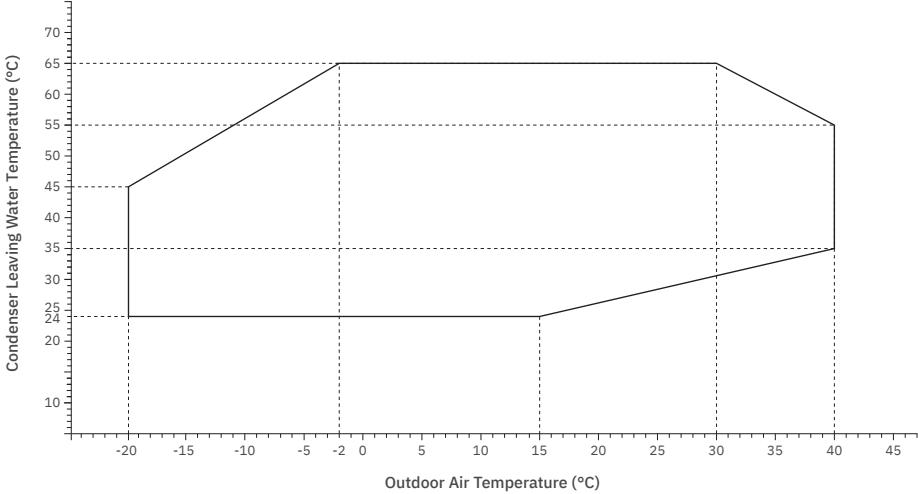


TOP VIEW

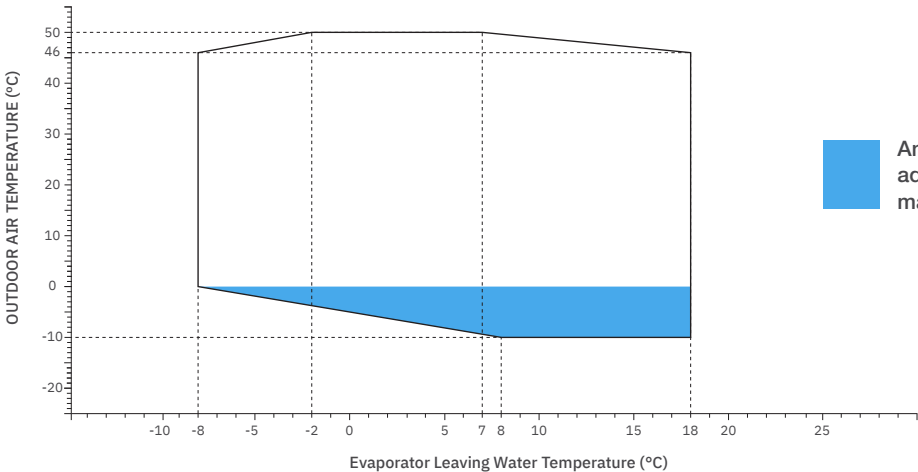


**MEHP-iS-G07 OPERATING ENVELOPES**

**Heating Mode**



**Cooling Mode**



Antifreeze option(s) required; additional wind protection may be required

Note: For specific limits of each model, please contact your local sales representative.



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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 IP CC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of September 2024