MEHP-iB-G07

Air Sourced Reversible Heat Pump

Mitsubishi Electric's **MEHP-iB-G07** heat pump provides compact and convenient solution to your small-scale heating needs.

Designed to meet the highest of quality standards, the **MEHP-iB-G07** uses both twin-rotary and scroll compressors (depending on size), optimised for using the low GWP refrigerant R32.

As a reversible heat pump it can provide both heating and cooling very efficiently, with inverter driven compressors and EC fans as standard, enhancing energy saving at part load conditions.

With an EC hydronic pump, hydronic flow switch, expansion vessel and advance controls all integrated, the **MEHP-iB-G07** is a 'plug-&-play' solution, made simpler with options available such as BMS interface cards, anti-vibration mounts and buffer tanks that fit within the unit's footprint.

R32

Key Features & Benefits:

- Extended heating envelope
- Up to 60°C supply water temperature
- Operates down to -20°C ambient temperatures
- Smart defrost for improved efficiency and performance
- Exceptional SCOP LT (A+++)*
- Compact design
- Plug & Play with Integrated hydronic pump, flow switch and expansion vessel

*Regulation (EU) No. 813/2013

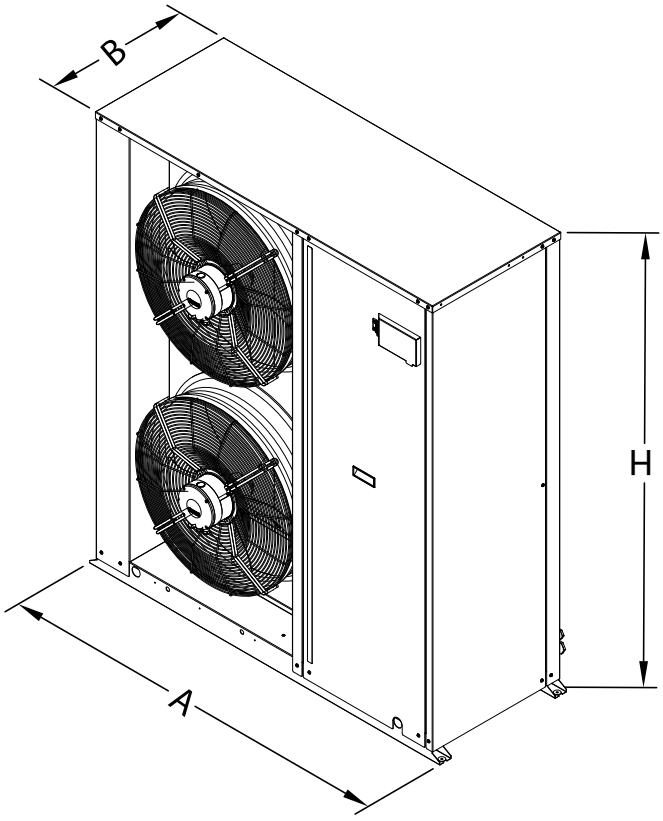
MEHP-iB-G07			07V	09V	11V	15V	15Y	18Y	23Y	27Y	35Y	40Y
Performance - Heating Only												
Gross Value[*1]												
Total Heating Capacity		kW	6.74	8.77	11.24	15.04	15.27	17.24	23.80	27.23	34.19	40.86
Total Power Input		kW	2.05	2.46	3.28	4.50	4.24	4.85	6.72	8.02	10.69	11.56
COP		kW/kW	3.29	3.57	3.42	3.33	3.61	3.55	3.51	3.39	3.20	3.53
EN14511 Values[*1 *2]												
Total Heat Capacity		kW	6.68	8.72	11.20	15.00	15.20	17.10	23.70	27.10	34.00	40.70
COP		kW/kW	3.26	3.55	3.42	3.32	3.57	3.52	3.52	3.38	3.18	3.52
Seasonal Performance - Low Temperature[*3]												
Rated heat output at Tdesignh		kW	5	6	8	10	10	14	18	21	26	31
SCOP			4.46	4.57	4.47	4.21	4.71	4.61	4.76	4.51	4.45	4.62
Performance η_s		%	176	180	176	165	185	182	187	177	175	182
Seasonal Performance - Medium Temperature[*4]												
Rated heat output at Tdesignh			4	6	8	9	9	12	15	19	23	29
SCOP			2.85	3.2	3.21	2.85	3.21	3.25	3.42	3.21	3.21	3.48
Performance η_s		%	111	125	126	111	125	127	134	125	125	136
Performance - Cooling Only												
Gross Value[*5]												
Total Cooling Capacity		kW	6.20	7.72	10.37	13.49	13.52	15.62	19.70	25.85	30.90	35.82
Total Power Input		kW	2.04	2.67	3.49	4.36	4.25	5.57	6.98	8.71	11.16	12.33
EER		kW/kW	3.04	2.89	2.98	3.10	3.18	2.80	2.82	2.96	2.76	2.91
EN14511 Values[*5 *2]												
Total Cooling Capacity		kW	6.68	8.72	11.20	15.00	15.20	17.10	23.70	27.10	34.00	40.72
EER		kW/kW	3.26	3.55	3.42	3.32	3.57	3.52	3.52	3.38	3.18	3.52
Seasonal Performance[*6]												
Prated,c		kW	6.3	7.8	10.4	13.6	13.6	15.7	19.8	26.0	31.1	36.0
SEER			4.74	4.68	4.73	4.45	5.17	5.01	4.88	4.82	4.81	4.93
Performance η_s		%	187.0	184.0	186.0	175.0	204.0	197.0	192.0	190.0	189.0	194.0
Electrical Data												
Power Supply		V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50
F.L.A.[*7]	Total	A	19	20	25	30	12	13	17	24	26	32
Exchangers												
Minimum Water Flow	Heat Exchanger	l/s	0.181	0.225	0.303	0.378	0.397	0.458	0.578	0.742	0.906	1.050
Minimum Water Content	System	l	36	60	75	71	74	80	113	181	187	193
Heat Exchanger User Side in Heating												
Water Flow		l/s	0.325	0.423	0.543	0.726	0.737	0.832	1.149	1.314	1.65	1.972
Pressure Drop[*1]		kPa	9.59	11.4	13	15.7	16.2	15.9	19.7	20.1	22.9	24.5
Heat Exchanger User Side in Cooling												
Water Flow		l/s	0.297	0.369	0.496	0.645	0.647	0.747	0.942	1.236	1.477	1.713
Pressure Drop[*5]		kPa	7.98	8.66	10.8	12.4	12.5	12.8	13.2	17.8	18.4	18.4
Refrigerant Circuit												
Compressors		No.	1	1	1	1	1	1	1	1	1	1
Circuits		No.	1	1	1	1	1	1	1	1	1	1
Regulation			Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Minumum Capacity Step		%	32	41	40	28	29	28	29	40	33	29
Refrigerant			R32	R32	R32	R32	R32	R32	R32	R32	R32	R32
Refrigerant Charge[*8]		kg	1.90	3.50	3.60	3.90	3.90	4.55	6.20	6.90	8.85	9.30
Oil Charge			0.35	0.40	0.70	1.20	1.00	1.00	1.00	2.30	2.30	2.30
RC (ASHRAE)[*9]		kg/kW	0.31	0.46	0.35	0.29	0.29	0.29	0.32	0.27	0.29	0.26
Fans												
Quantity		No.	1	1	2	2	2	2	1	2	2	2
Airflow[*1]		m^3/s	0.93	1.02	1.84	1.84	1.84	1.95	2.34	4.52	4.35	4.75
Power Input		kW	0.11	0.11	0.22	0.22	0.22	0.22	0.39	0.78	0.78	0.78
Noise Levels												
Total Sound Pressure[*10]		dB(A)	53	53	54	55	55	56	61	62	63	64
Total Sound Power Level in Cooling[*11 *12]		dB(A)	67	68	69	70	70	71	76	78	79	80
Total Sound Power Level in Heating[*11 *13]		dB(A)	65	65	69	70	70	70	76	78	79	78
Size and Weight[*14]												
Width (A)		mm	900	900	900	900	900	1450	1450	1450	1450	1700
Depth (B)		mm	370	420	420	420	420	550	550	550	550	650
Height (H)		mm	940	1240	1240	1390	1390	1200	1200	1700	1700	1700
Operation Weight		kg	82	105	115	115	135	170	200	260	280	315

Eurovent Certified Data

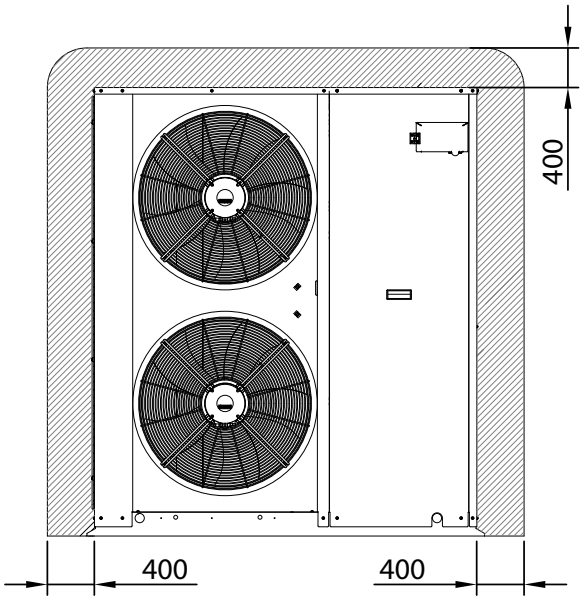
Notes: 1. Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C -87% R.H. 2. Values in compliance with EN14511. 3. Seasonal space heating energy efficiency class Low Temperature [Regulation (EU) N. 813/2013]. Average Weather Conditions. Type of calculation with variable flow and variable temperature. 4. Seasonal space heating energy efficiency class Medium Temperature [Regulation (EU) N. 813/2013]. Average Weather Conditions. Type of calculation with variable flow and variable temperature. 5. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C. 6. Parameter calculated according to [Regulation (EU) N. 2016/2281]. 7. Values calculated referring to the version with the maximum number of fans working at the max absorbed current. Safety values to be considered when cabling the unit for power supply and line-protection. Data valid for standard units without any additional options and only indicative. Refer to databook. 8. Theoretical - refer to serial plate for actual charge volumes. 9. Rate in accordance with AHRI standard 550/590. 10. Average sound pressure level at 1m distance, unit on a reflective surface; non-binding value calculated from the sound power level. 11. Sound power on the basis of measurement taken in compliance with ISO 9614. 12. Sound power level in cooling, outdoors. 13. Sound power level in heating, outdoors. 14. Unit in standard configuration, without option accessories.

MEHP-iB-G07 DIMENSIONS AND CLEARANCES

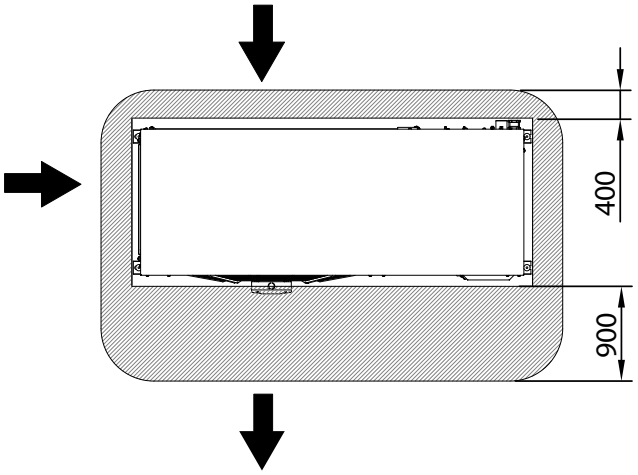
All dimensions are in millimetres.



FRONT VIEW

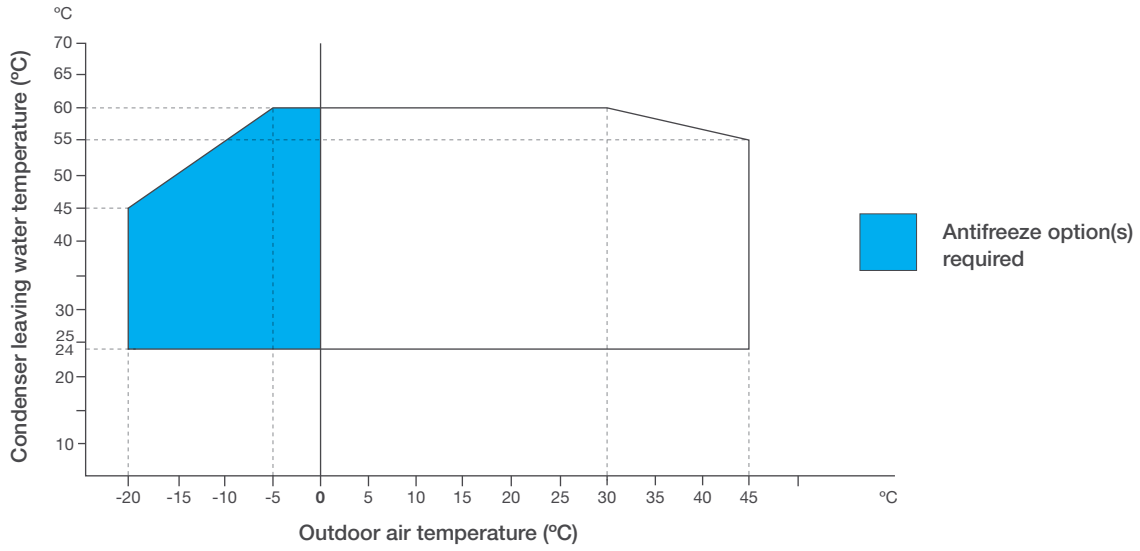


TOP VIEW

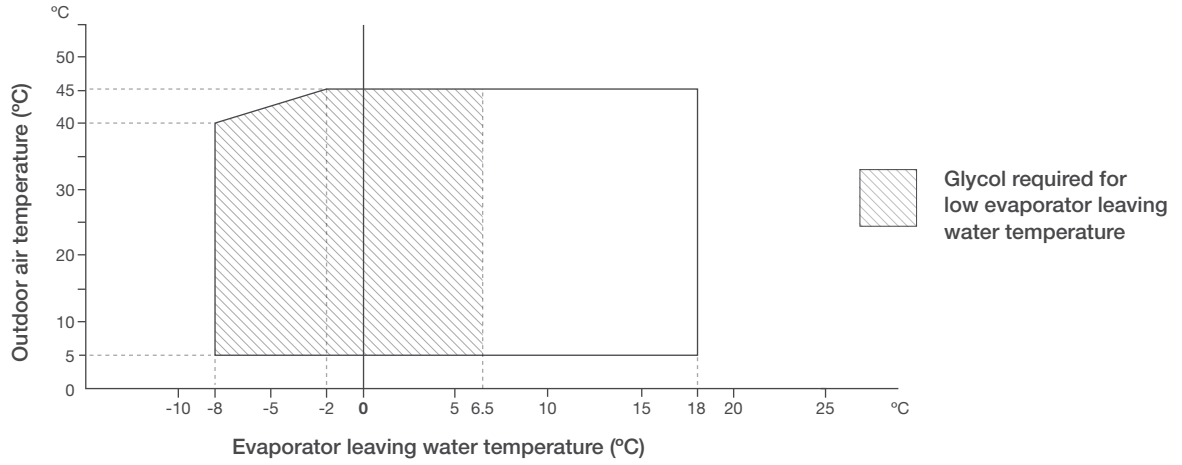


MEHP-iB-G07 OPERATING ENVELOPES

Heating



Cooling



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

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Changes for the Better

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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).

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Green Gateway greengateway.mitsubishielectric.co.uk