

MECH-iB-G07

Air Sourced Chiller

Mitsubishi Electric's **MECH-iB-G07** chiller provides compact and convenient solution to your small-scale cooling needs.

Designed to meet the highest of quality standards, the range uses variable speed scroll compressors optimised for using the low GWP refrigerant R32.

The **MECH-iB-G07** can provide efficient cooling, 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 **MECH-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 cooling envelope
- Compact design
- Providing fluid leaving temperatures as low as -12°C
- Operates down to -20°C ambient temperatures
- Low GWP R32 Refrigerant
- High seasonal efficiency (EER, SEER, SEPR)
- Plug & Play with Integrated hydronic pump, flow switch and expansion vessel



MECH-iB-G07			15Y	18Y	23Y	27Y	35Y	40Y
Performance - Cooling Onl	ly							
Gross Value ^{*1}								
Total Cooling Capacity		kW	14.93	17.79	21.03	27.73	32.51	38.19
Total Power Input		kW	4.83	5.23	6.50	8.42	9.90	11.88
EER		kW/kW	3.09	3.40	3.23	3.29	3.28	3.21
EN14511 Values*1*2								
Total Cooling Capacity		kW	15.00	17.90	21.10	27.80	32.70	38.40
EER		kW/kW	3.10	3.40	3.25	3.31	3.30	3.23
Seasonal Performance*3								
Prated, c		kW	15.0	17.9	21.1	27.8	32.7	38.4
SEER			5.23	5.4	5.66	5.39	5.46	5.24
Performance ηs		%	206.0	213.0	223.0	212.0	215.0	207.0
Electrical Data								
Power Supply To	otal	V/ph/Hz	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.*4		А	11	12	15	20	24	28
Exchangers								
Minimum Water Flow H	leat Exchanger	l/s	0.389	0.464	0.581	0.728	0.856	0.986
Minimum Water Content S	ystem	I	75	90	115	140	165	193
Heat Exchanger User Side	in Cooling*1 *2							
Water Flow		l/s	0.714	0.851	1.005	1.326	1.554	1.827
Pressure Drop		kPa	15.2	21.6	15.1	20.5	25.1	23.8
Refrigerant Circuit								
Compressors		l/s	1	1	1	1	1	1
Circuits		kPa	1	1	1	1	1	1
Regulation			Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Minumum Capacity Step		%	32	34	29	30	26	26
Refrigerant			R32	R32	R32	R32	R32	R32
Refrigerant Charge*5		kg	2.10	2.83	3.60	4.74	5.67	6.00
Oil Charge			1.00	1.00	1.00	2.30	2.30	2.30
RC (ASHRAE)*6		kg/kW	0.14	0.16	0.17	0.17	0.18	0.16
Fans								
Quantity		No.	2	2	1	2	2	2
Airflow		m³/s	1.84	1.95	2.34	4.52	4.35	4.75
Power Input		kW	0.22	0.22	0.39	0.78	0.78	0.78
Noise Levels								
Total Sound Pressure*7		dB(A)	39	40	45	46	47	48
Total Sound Power Level in (Cooling*8 *9	dB(A)	70	71	76	78	79	80
Size and Weight*10								
Width (A)		mm	900	900	1450	1450	1450	1700
Depth (B)		mm	420	420	550	550	550	650
Height (H)		mm	1390	1390	1200	1700	1700	1700
Operation Weight		kg	144	155	207	256	272	306

Eurovent Certified Data

- Notes:

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

 2. Values in compliance with EN14511

 3. Parameter calculated according to [Regulation (EU) N. 2016/2281]

 4. 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.

 5. Theoretical refer to serial pate for actual change volumes

 6. Rate in accordance with AHRI standard 550/590

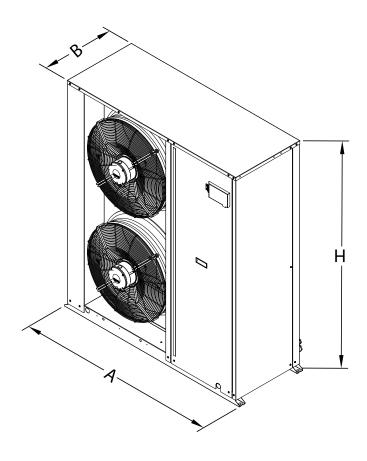
 7. Average sound pressure level at 1 m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

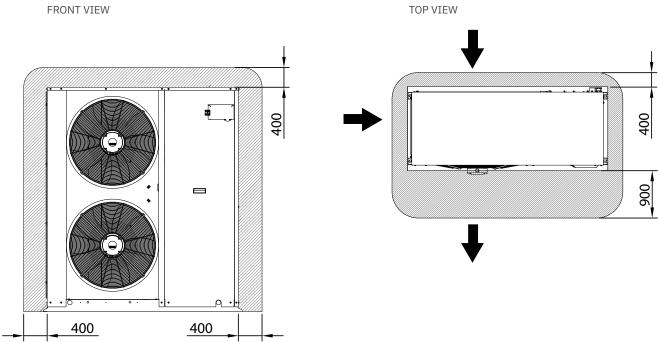
 8. Sound power on the basis of measurement taken in compliance with ISO 9614.

 9. Sound power level in cooling, outdoors.

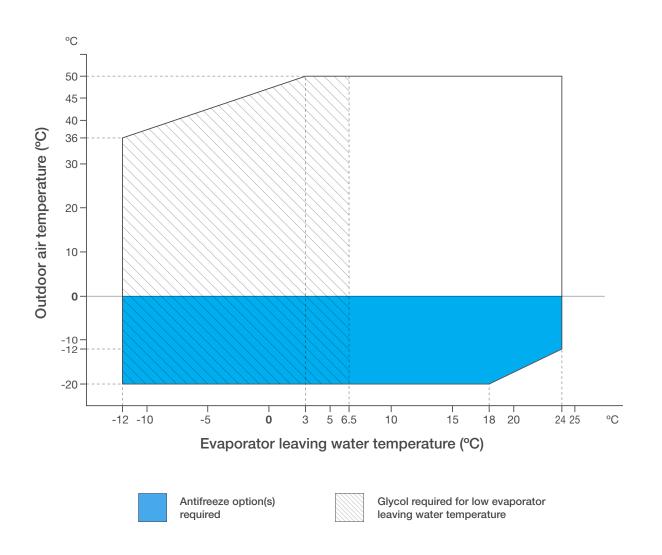
 10. Unit in standard configuration, without option accessories.

Chiller





MECH-iB-G07 OPERATING ENVELOPES



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



Telephone: 01707 282880 email: chillers@meuk.mee.com les.mitsubishielectric.co.uk













UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division, Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880 Fax: 01707 278881 IRELAND Mitsubishi Electric Europe, Westgate Business Park, Ballymount, Dublin 24, Ireland. Telephone: (01) 419 8800 Fax: (01) 419 8890 International code: (003531)

Country of origin: United Kingdom - Italy - Turkey - Japan - Thailand - Malaysia. @Mitsubishi Electric Europe 2024. Mitsubishi and Mitsubishi Electric are trademarks of Mitsubishi Electric Europe B.V. The company reserves the right to make any variation in technical specification to the equipment described, or to withdraw or replace products without prior notification or public announcement. Mitsubishi Electric is constantly developing and improving its products. All descriptions, illustrations, chavings and specifications in this publication present only general particulars and shall not form part of any contract. All goods are supplied subject to the Company's General Conditions of Sale, a copy of which is available on request. Third-party product and brand names may be trademarks or registered trademarks of their respective owners.

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), R92 (GWP-36), R420 (GWP-1675), R407C (GWP-1774), R134a (GWP-1430), R513A (GWP-551), R454B (GWP-348), R454B (GWP-1342a (GWP-710), Tense SWP-1440), R513A (GWP-1450), R513A (GWP-1550), R407C (GWP-1550), R407C (GWP-1650) or R134a (GWP-1300).

Effective as of August 2024







