

MECH-iS-G07

Air Cooled Chiller with Inverter Scroll Compressors

Mitsubishi Electric's **MECH-iS-G07** is our flagship air cooled chiller using 1 or 2 Variable Speed Drive (VSD) scroll compressors for comfort cooling.

Manufactured to the highest quality, it can provide cold water down to -12°C has an industry leading Seasonal Energy Efficiency Ratio (SEER). With its use of axial-flow variable speed fans with Brushless DC motors, it allows for low noise levels whilst maintaining a compact form factor.

The **MECH-iS-G07** comes with an array of standard design features such as antivibration feet and electrical panel ventilation. With on-board advance LAN network controls, multiple units can work in a chiller group to cover your commercial cooling application. Smart management features allow for dynamic and efficient resource and load management.



Key Features & Benefits:

- Industry leading seasonal performance (SEER)
- Extremely quiet unit in a compact design
- Wide operating envelope down to -20°C ambient*
- 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
- Aluminum micro-channel heat exchangers as standard with options for copper/aluminum coils with protection coating

*Additional low temperature protections may be required.



MECH-iS-G07			0051	0061	0071	0082	0092	0102	0112
Performance - Cooling O	nly								
EN 14511 Values*1*2	-								
Total Cooling Capacity		kW	50.0	60.0	70.0	80.0	90.0	100.0	110.0
EER		kW/kW	3.28	3.11	2.58	3.02	2.74	3.15	2.87
Seasonal Performance ⁷³									
Prated,c		kW	50.0	60.0	70.0	80.0	90.0	100.0	110.0
SEER			5.29	5.28	4.98	5.15	5.12	5.32	5.29
Performance ns		%	209.0	208.0	196.0	203.0	202.0	210.0	209.0
Electrical Data									
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
F.L.A.*4	Total	А	52	60	60	78	78	93	93
Exchangers									
Minimum Water Flow	Heat Exchanger	l/s	1.67	1.67	1.67	2.22	2.22	2.78	2.78
Minimum Water Content	System	I	200	200	280	360	360	440	440
Refrigerant Circuit									
Compressors		No.	1	1	1	2	2	2	2
Circuits		No.	1	1	1	1	1	1	1
Refrigerant			R32						
Theoretical Refrigerant Charge		kg	8	8	8	11	11	13	13
Fans									
Quantity		No.	2	2	2	3	3	4	4
Airflow		m3/s	6.86	7.01	7.01	9.84	9.84	12.97	12.97
Noise Levels									
Total Sound Pressure ^{*5}		dB(A)	45	46	48	48	49	50	50
Total Sound Power Level in Cooling ^{*6*7}		dB(A)	77	78	80	80	81	82	82
Size and Weight ^{*8}									
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	630	630	630	830	830	940	940

Eurovent Certified Data

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. Data valid for standard units without any additional options and only indicative. Contact your local representative for support.

5. 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.

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

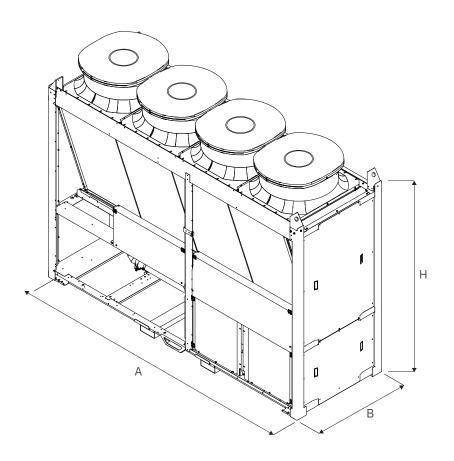
7. Sound power level in cooling, outdoors.

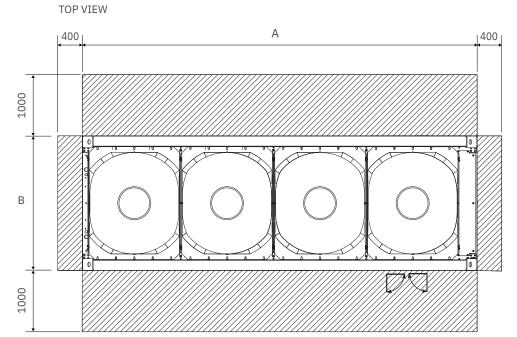
8. Unit in standard configuration, without option accessories.

ELCA Engine ver.4.6.4.0

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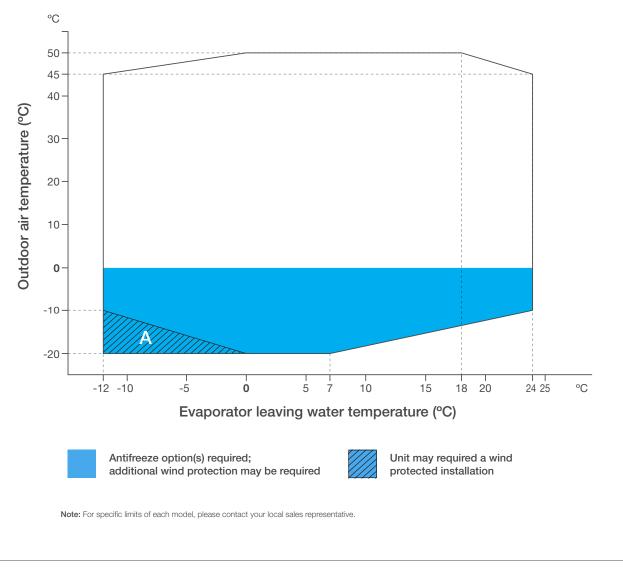
MECH-IS-G07 DIMENSIONS AND CLEARANCES







MECH-IS-G07 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 electricial/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), R134 (GWP:4108), R5134 (GWP:4108

Effective as of September 2024



