MITSUBISHI ELECTRIC

NX-Q-G06

Air Sourced Polyvalent Unit with 2 Scroll Compressors

INTΣGRA

Mitsubishi Electric's **NX-Q-G06** is our range of air sourced simultaneous heating and cooling (polyvalent / 4-pipe) using two high efficiency scroll compressors as standard.

Available in 7 sizes from 56kW to 162kW in cooling the **NX-Q-G06** uses low GWP refrigerant R454B. It is available in two different configurations for noise performance with a wide operating range from -8°C to +18°C evaporator leaving water temperatures (ELWT) and hot water leaving up to 55°C.

The **NX-Q-G06** can also be fitted with a range of options including, energy meters, BEMS cards and on board hydronic kits.

R454B CLIMAVENETA

Key Features & Benefits:

- Low GWP refrigerant R454B provides an environmentally friendly solution
- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors providing a dual refrigeration circuit
- 2 different configurations for noise performance available
- Wide range of options available including: inbuilt hydronic pumps, dual pressure relief valves, BEMS interface cards, EC Fans and many more
- Copper/Aluminium auxiliary heat exchanger with other protection coating options available

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NX-Q-G06			0202P	0252P	0262P	0302P	0402P	0502P	0602P
Cooling With Heat Recovery[*1*2*3]									
Cooling Capacity		kW	56.4	61.6	70.0	83.3	107.3	133.9	169.3
Recovery Heat Exchanger Capacity		kW	70.3	76.8	87.5	103.9	134.1	168.7	213.9
Total Power Input		kW	14.79	16.32	18.64	22.07	28.72	37.33	47.98
TER		kW/kW	8.575	8.485	8.456	8.483	8.404	8.108	7.987
Performance - Heating Only[*4 *2]									
Total Heat Capacity		kW	58.3	64.7	72.3	86.6	110.8	139.3	170.6
COP		kW/kW	3.55	3.58	3.59	3.61	3.60	3.58	3.48
Performance - Cooling Only[*1 *2]									
Total Cooling Capacity		kW	55.7	61.4	68.6	82.0	106.1	132.1	161.5
EER		kW/kW	3.37	3.41	3.29	3.41	3.38	3.32	3.04
Seasonal Performance[*5]									
Prated,c		kW	55.7	61.4	68.6	82.0	106.1	132.1	161.5
SEER			4.03	4.16	3.99	4.11	4.09	4.02	3.70
Electrical Data									
Power Supply		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	400/3+N/50
Max F.L.A[*6]	Total	A	40	43	48	59	79	98	123
Exchangers									
Minimum Water Flow in Cooling[*4]	Evaporator	l/s	1.639	1.750	2.000	2.361	3.056	3.889	4.778
Minimum Water Flow in Heating[*1]	Condenser	l/s	1.639	1.750	2.000	2.361	3.056	3.889	4.778
Refrigerant Circuit									
Compressors		No.	2	2	2	2	2	2	2
Circuits		No.	2	2	2	2	2	2	2
Refrigerant Charge[*7]		kg	20.6	25.6	27.8	33.4	48.2	54.4	54.9
Noise Levels									
Total Sound Pressure[*8]		dB(A)	53	53	53	54	55	56	56
Total Sound Power Level in Cooling[*9]		dB(A)	85	85	85	86	87	88	88
Total Sound Power Level in Heating[*10]		dB(A)	85	85	85	86	87	88	88
Size and Weight[*11]									
Width (A)		mm	2625	2625	2625	3250	3875	4500	4500
Depth (B)		mm	1350	1350	1350	1350	1350	1350	1350
Height (H)		mm	2070	2070	2070	2070	2070	2070	2070
Operation Weight		kg	950	990	1000	1130	1310	1620	1650

NX-Q-G06 /SL			0202P	0252P	0262P	0302P	0402P	0502P
Cooling With Heat Recovery[*1*2*3]								
Cooling Capacity		kW	56.4	61.6	70.0	83.3	107.3	134.0
Recovery Heat Exchanger Capacity		kW	70.3	76.8	87.5	103.9	134.1	168.7
Total Power Input		kW	14.80	16.31	18.65	22.07	28.72	37.22
TER		kW/kW	8.568	8.488	8.448	8.482	8.403	8.135
Performance - Heating Only[*4 *2]								
Total Heat Capacity		kW	59.8	64.5	73.8	87.6	111.8	135.8
COP		kW/kW	3.66	3.62	3.70	3.69	3.68	3.61
Performance - Cooling Only[*1 *2]								
Total Cooling Capacity		kW	56.1	60.6	68.6	81.3	104.0	125.3
EER		kW/kW	3.46	3.33	3.32	3.40	3.32	3.02
Seasonal Performance[*5]								
Prated,c		kW	56.1	60.6	68.6	81.3	104.0	125.3
SEER			4.14	4.08	4.04	4.11	4.02	3.70
Electrical Data								
Power Supply		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
Max F.L.A[*6]	Total	A	42	45	50	61	82	98
Exchangers								
Minimum Water Flow in Cooling[*4]	Evaporator	l/s	1.611	1.750	2.000	2.389	3.056	3.889
Minimum Water Flow in Heating[*1]	Condenser	l/s	1.611	1.750	2.000	2.389	3.056	3.889
Refrigerant Circuit								
Compressors		No.	2	2	2	2	2	2
Circuits		No.	2	2	2	2	2	2
Refrigerant Charge[*7]		kg	25.9	26.9	37.8	44.0	49.7	53.5
Noise Levels								
Total Sound Pressure[*8]		dB(A)	48	48	48	49	50	52
Total Sound Power Level in Cooling[*9]		dB(A)	80	80	80	81	82	84
Total Sound Power Level in Heating[*10]		dB(A)	80	80	80	81	82	84
Size and Weight[*11]								
Width (A)		mm	3250	3250	3250	3875	4500	4500
Depth (B)		mm	1350	1350	1350	1350	1350	1350
Height (H)		mm	2070	2070	2070	2070	2070	2070
Operation Weight		kg	1060	1060	1120	1270	1490	1630

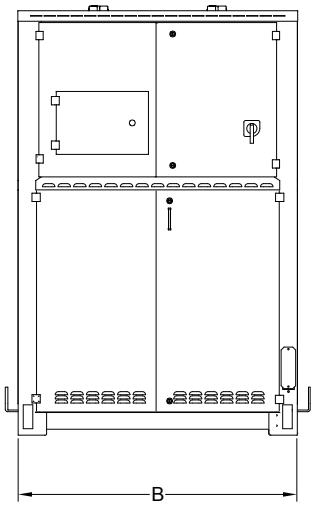
Eurovent Certified Data

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. Plant (side) heat exchanger water (in/out) 12°C/7°C; Plant (side) heat exchanger water (in/out) 40°C / 45°C. 4. Plant (side) exchanger hot water temperature (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H. 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. Theoretical - refer to serial plate for actual charge volumes. b 8. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level. 9. Sound power level in cooling, outdoors, on the basis of measurement taken in compliance with ISO 9614. 10. Sound power level in heating, outdoors. 11. Unit in standard configuration, without option accessories.

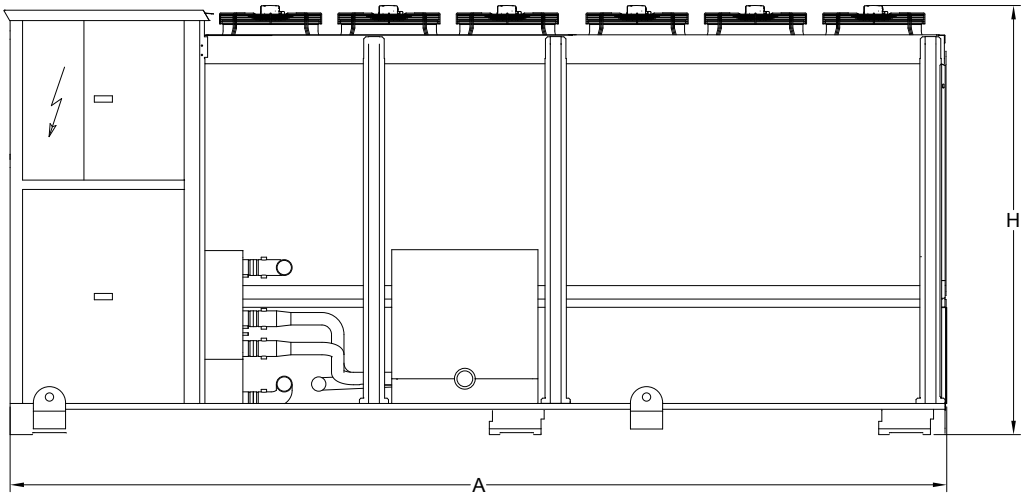
NX-Q-G06 DIMENSIONS AND CLEARANCES

All dimensions are in millimetres.

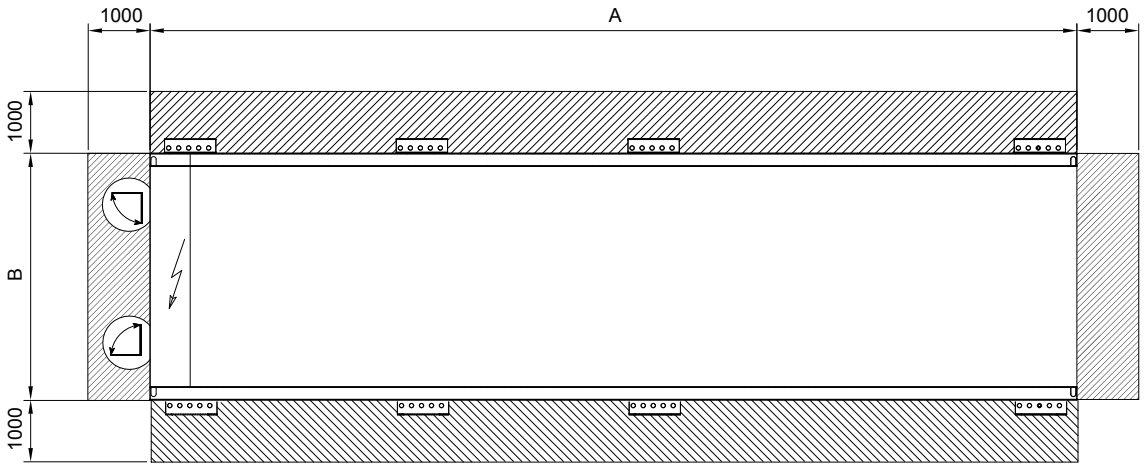
FRONT VIEW



SIDE VIEW



TOP VIEW



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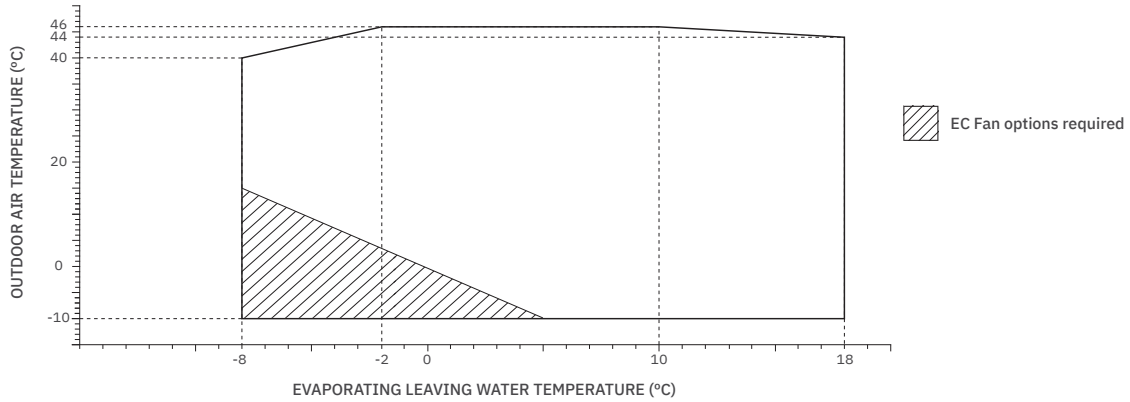
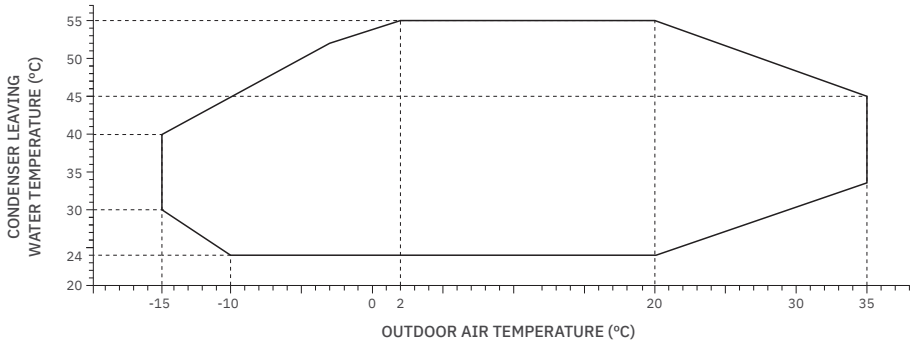
NX-Q-G06 OPERATING ENVELOPES

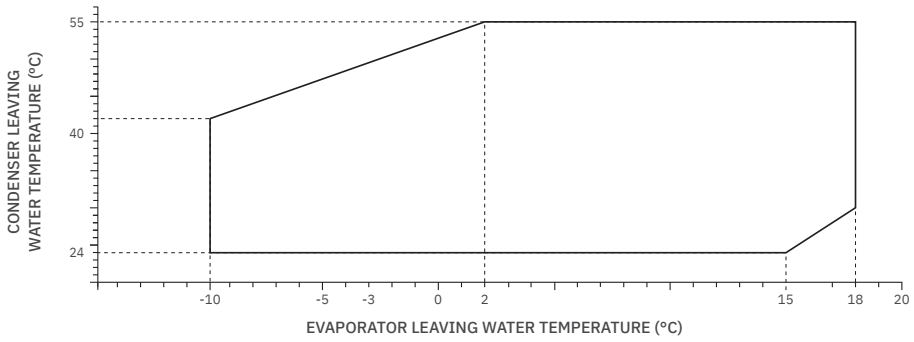
Cooling



Heating



Cooling with Heat Recovery



Note: Operating envelopes shown are indicative and should not be used only for design. Equipment to be used in low or negative ambient temperatures must be fitted with the low ambient options available. Equipment operating with low or negative evaporating leaving water temperature should use suitable type and concentration of glycol or similar. Additional installation considerations may be required at the limits of the operating envelope. For specific recommendations and limits of each model, please contact your local sales representative.

MITSUBISHI ELECTRIC
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).

Effective as of September 2024

Green Gateway greengateway.mitsubishielectric.co.uk