

NX-Q-G06

Air Sourced Polyvalent Unit
with 4 Scroll Compressors



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

Available in 7 sizes from 136kw to 298kw in cooling the **NX-Q-G06** uses low GWP refrigerant R454B. It is available in three 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.



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



NX-Q-G06			0604	0704	0804	0904	1004	1104	1204
Cooling With Heat Recovery^{1,2,3}									
Cooling Capacity	kW		144.6	165.6	186.1	210.9	235.9	269.0	303.7
Recovery Heat Exchanger Capacity	kW		188.8	216.0	243.1	274.6	306.3	350.8	395.0
Total Power Input	kW		47.72	54.57	61.63	68.87	76.32	88.71	99.91
TER	kW/kW		6.987	6.993	6.963	7.049	7.105	6.987	7.003
Performance - Heating Only^{4,12}									
Total Heat Capacity	kW		157.5	174.6	197.1	220.5	250.9	288.4	323.7
COP	kW/kW		2.92	2.90	2.94	2.98	2.94	2.99	3.00
Performance - Cooling Only^{1,12}									
Total Cooling Capacity	kW		143.5	159.3	180.9	202.3	230.1	265.6	298.0
EER	kW/kW		2.58	2.45	2.53	2.52	2.55	2.62	2.63
Seasonal Performance⁵									
Prated,c	kW		143.5	159.3	180.9	202.3	230.1	265.6	298.0
SEER			3.52	3.52	3.67	3.75	3.59	3.75	3.83
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
Max F.L.A. ⁶	Total	A	115	133	152	169	193	218	243
Exchangers									
Minimum Water Flow in Cooling ⁴	Evaporator	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
Minimum Water Flow in Heating ¹	Condenser	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
Refrigerant Circuit									
Compressors	No.		4	4	4	4	4	4	4
Circuits	No.		2	2	2	2	2	2	2
Refrigerant Charge ⁷	kg		38.3	38.4	54.2	57.3	60.5	72.5	97.2
Noise Levels									
Total Sound Pressure ⁸		dB(A)	60	60	60	61	62	63	63
Total Sound Power Level in Cooling ⁹		dB(A)	92	92	92	93	94	95	95
Total Sound Power Level in Heating ¹⁰		dB(A)	92	92	92	93	94	95	95
Size and Weight¹¹									
Width (A)	mm		3110	3110	3110	4110	4110	4110	4110
Depth (B)	mm		2220	2220	2220	2220	2220	2220	2220
Height (H)	mm		2150	2150	2150	2150	2150	2150	2150
Operation Weight	kg		1660	1730	1850	2130	2370	2540	2680

NX-Q-G06 /LN			0604	0704	0804	0904	1004	1104	1204
Cooling With Heat Recovery^{1,2,3}									
Cooling Capacity	kW		144.8	165.7	186.3	211.1	236.1	269.3	304.1
Recovery Heat Exchanger Capacity	kW		188.8	216.1	243.2	274.6	306.4	351.0	396.1
Total Power Input	kW		47.50	54.31	61.35	68.60	75.96	88.27	99.33
TER	kW/kW		7.023	7.031	7.000	7.080	7.143	7.027	7.050
Performance - Heating Only^{4,12}									
Total Heat Capacity	kW		150.2	165.8	186.4	212.2	238.7	273.2	304.9
COP	kW/kW		2.98	2.94	2.96	3.02	2.99	3.00	2.98
Performance - Cooling Only^{1,12}									
Total Cooling Capacity	kW		137.0	150.5	169.7	190.8	217.9	249.9	278.8
EER	kW/kW		2.47	2.27	2.30	2.31	2.39	2.40	2.36
Seasonal Performance⁵									
Prated,c	kW		137.0	150.5	169.7	190.8	217.9	249.9	278.8
SEER			3.59	3.56	3.57	3.70	3.60	3.75	3.72
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
Max F.L.A. ⁶	Total	A	115	133	152	169	193	218	243
Exchangers									
Minimum Water Flow in Cooling ⁴	Evaporator	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
Minimum Water Flow in Heating ¹	Condenser	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
Refrigerant Circuit									
Compressors	No.		4	4	4	4	4	4	4
Circuits	No.		2	2	2	2	2	2	2
Refrigerant Charge ⁷	kg		38	38	54	57	61	73	97
Noise Levels									
Total Sound Pressure ⁸		dB(A)	54	54	54	55	56	57	57
Total Sound Power Level in Cooling ⁹		dB(A)	86	86	86	87	88	89	89
Total Sound Power Level in Heating ¹⁰		dB(A)	87	87	87	88	89	90	90
Size and Weight¹¹									
Width (A)	mm		3110	3110	3110	4110	4110	4110	4110
Depth (B)	mm		2220	2220	2220	2220	2220	2220	2220
Height (H)	mm		2150	2150	2150	2150	2150	2150	2150
Operation Weight	kg		1660	1730	1850	2130	2370	2540	2680

■ 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. 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.

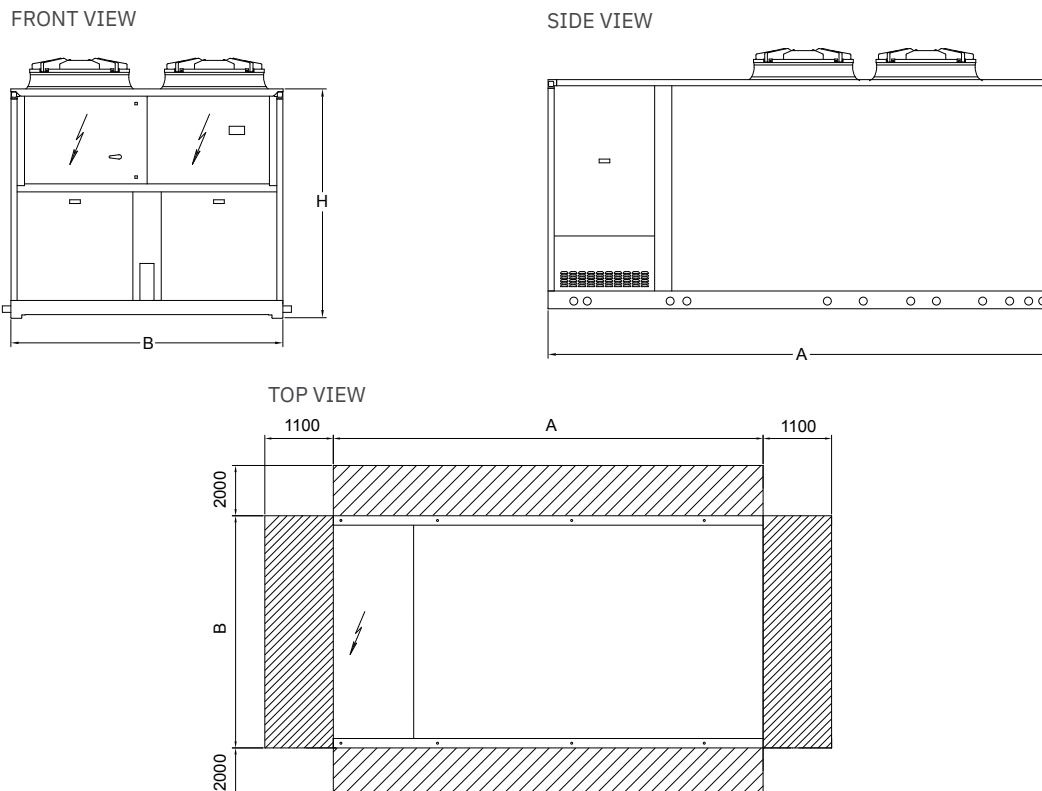
NX-Q-G06 /SL			0604	0704	0804	0904	1004	1104	1204
Cooling With Heat Recovery^{1,2,3}									
Cooling Capacity		kW	144.8	165.7	186.2	211.1	236.1	269.2	304.0
Recovery Heat Exchanger Capacity		kW	188.8	216.1	243.1	274.6	306.4	350.9	396.0
Total Power Input		kW	47.48	54.37	61.53	68.63	75.93	88.35	99.48
TER		kW/kW	7.027	7.021	6.978	7.077	7.146	7.019	7.037
Performance - Heating Only^{4, 2}									
Total Heat Capacity		kW	149.8	167.6	193.2	213.1	238.1	277.2	310.6
COP		kW/kW	3.05	3.03	3.01	3.00	3.05	3.10	3.03
Performance - Cooling Only^{1, 2}									
Total Cooling Capacity		kW	136.0	153.0	175.7	192.4	216.0	250.0	281.8
EER		kW/kW	2.48	2.40	2.46	2.33	2.39	2.45	2.42
Seasonal Performance⁵									
Prated,c		kW	136.0	153.0	175.7	192.4	216.0	250.0	281.8
SEER			3.72	3.79	3.67	3.67	3.73	3.91	3.76
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
Max F.L.A. ⁶	Total	A	115	133	160	176	193	218	251
Exchangers									
Minimum Water Flow in Cooling ⁴	Evaporator	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
Minimum Water Flow in Heating ¹	Condenser	l/s	4.444	4.917	5.611	6.278	7.139	8.250	9.250
Refrigerant Circuit									
Compressors	No.		4	4	4	4	4	4	4
Circuits	No.		2	2	2	2	2	2	2
Refrigerant Charge ⁷	kg		49.5	63.1	63.2	63.3	73.8	99.0	99.0
Noise Levels									
Total Sound Pressure ⁸		dB(A)	50	50	51	51	51	53	54
Total Sound Power Level in Cooling ⁹		dB(A)	82	82	83	83	83	85	86
Total Sound Power Level in Heating ¹⁰		dB(A)	83	83	84	84	84	86	87
Size and Weight¹¹									
Width (A)		mm	3110	3110	4110	4110	4110	5110	5110
Depth (B)		mm	2220	2220	2220	2220	2220	2220	2220
Height (H)		mm	2150	2150	2150	2150	2150	2150	2150
Operation Weight		kg	1750	1850	2070	2230	2480	2810	2930

■ 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. 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.

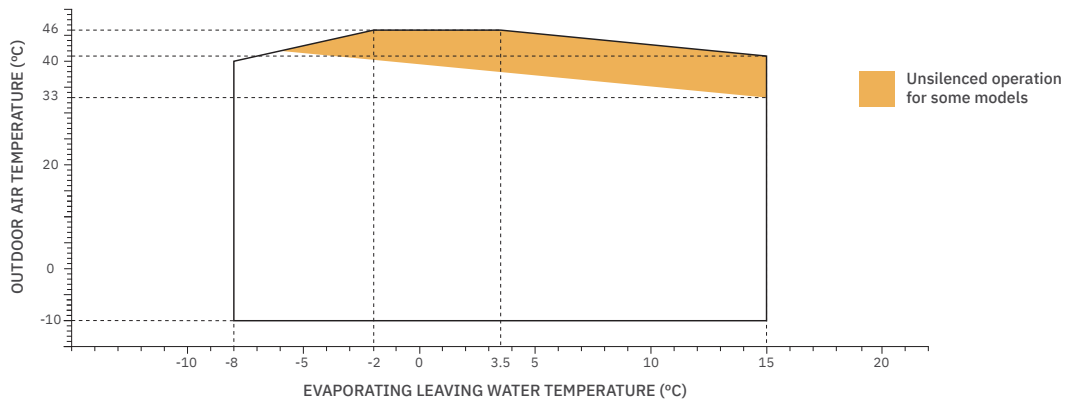
NX-Q-G06 DIMENSIONS AND CLEARANCES

All dimensions are in millimetres.

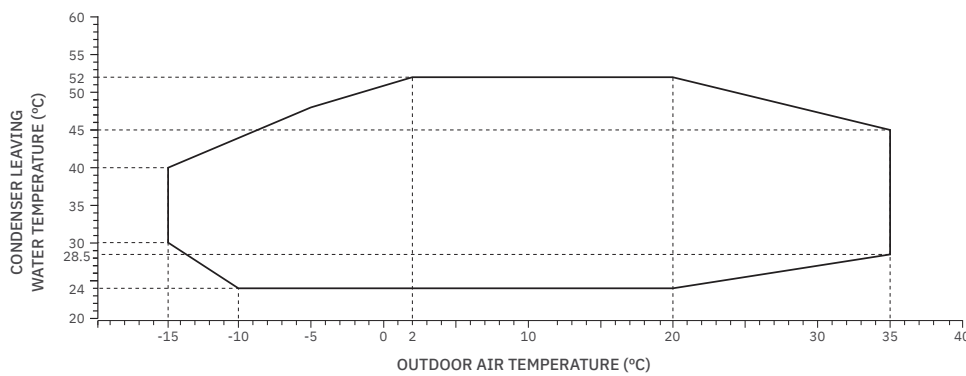


NX-Q-G06 OPERATING ENVELOPES

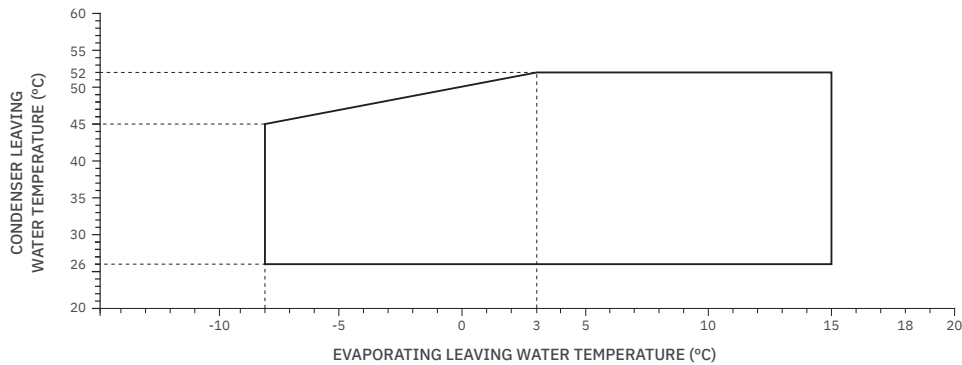
Cooling



Heating



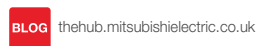
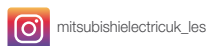
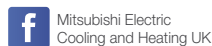
Cooling with Heat Recovery



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.



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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

