

NX2-Q-G06

Air Sourced Polyvalent Unit
with Scroll Compressors



Mitsubishi Electric's **NX2-Q-G06** is our range of air sourced simultaneous heating and cooling (polyvalent / 4-pipe) using high efficiency scroll compressors.

Available in 12 sizes from 316kW to 800kW in cooling, the **NX2-Q-G06** uses low GWP refrigerant R454B. It is available as three different configurations for noise and efficiency performance, with a wide operating range from -8°C to +15°C evaporator leaving water temperatures (ELWT) and hot water leaving up to 55°C.

The **NX2-Q-G06** can also be fitted with a range of options including EC Fans, energy meters, BEMS cards and on board hydronic kits.



Key Features & Benefits:

- Smart and independent management of the defrost cycles
- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors providing a dual refrigeration circuit
- Electronic expansion valve supplied as standard
- 3 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



NX2-Q-G06 /K			0344	0364	0404	0446	0506	0526	0546
Cooling With Heat Recovery^{1,2,3}									
Cooling Capacity		kW	346.9	366.8	403.0	451.8	494.3	533.0	550.6
Recovery Heat Exchanger Capacity		kW	445.5	468.8	514.9	581.4	633.4	691.2	704.1
Total Power Input		kW	107.0	110.3	121.3	140.3	151.2	160.6	166.5
TER		kW/kW	7.41	7.57	7.57	7.36	7.46	7.56	7.53
Performance - Heating Only^{4,12}									
Total Heat Capacity		kW	367.0	388.9	417.5	472.3	515.9	563.5	583.4
COP		kW/kW	3.03	3.08	3.06	3.00	3.02	3.06	3.08
Performance - Cooling Only^{1,12}									
Total Cooling Capacity		kW	334.3	354.7	382.0	430.2	475.1	515.9	533.1
EER		kW/kW	2.69	2.78	2.67	2.62	2.68	2.78	2.79
Seasonal Performance⁵									
Prated,c		kW	334.3	354.7	382.0	430.2	475.1	515.9	533.1
SEER			3.92	4.04	4.06	4.00	3.93	4.07	4.09
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	257	270	297	333	365	392	405
Exchangers									
Minimum Water Flow in Cooling ⁴	Evaporator	l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50
Minimum Water Flow in Heating ¹	Condenser	l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50
Refrigerant Circuit									
Compressors		No.	4	4	4	6	6	6	6
Circuits		No.	2	2	2	3	3	3	3
Refrigerant Charge ⁷		kg	77.4	93.6	93.6	97.2	108	124	125
Noise Levels									
Total Sound Pressure ⁸		dB(A)	64	64	64	64	65	65	65
Total Sound Power Level in Cooling ⁹		dB(A)	96	96	96	96	97	97	97
Total Sound Power Level in Heating ¹⁰		dB(A)	96	96	96	96	97	97	97
Size and Weight¹¹									
Width (A)		mm	3905	3905	3905	4515	5690	5690	5690
Depth (B)		mm	2260	2260	2260	2260	2260	2260	2260
Height (H)		mm	2450	2450	2450	2450	2450	2450	2450
Operation Weight		kg	3400	3490	3530	4670	5030	5170	5230

NX2-Q-G06 /SL			0344	0364	0404	0446	0506	0526	0546
Cooling With Heat Recovery^{1,2,3}									
Cooling Capacity		kW	346.9	366.8	403.0	451.8	494.3	533.0	550.5
Recovery Heat Exchanger Capacity		kW	445.4	468.8	514.9	581.4	633.4	681.2	704.0
Total Power Input		kW	106.8	110.2	121.3	140.1	150.9	160.3	166.2
TER		kW/kW	7.42	7.59	7.57	7.37	7.47	7.57	7.55
Performance - Heating Only^{4,12}									
Total Heat Capacity		kW	364.3	381.5	422.7	473.7	514.2	555.4	572.2
COP		kW/kW	3.15	3.13	3.18	3.10	3.12	3.15	3.13
Performance - Cooling Only^{1,12}									
Total Cooling Capacity		kW	316.0	336.4	370.2	409.0	443.6	486.1	505.7
EER		kW/kW	2.44	2.51	2.54	2.38	2.38	2.49	2.51
Seasonal Performance⁵									
Prated,c		kW	316.0	336.4	370.2	409.0	443.6	486.1	505.7
SEER			4.09	4.13	4.23	4.13	4.10	4.19	4.19
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	249	265	291	325	350	381	397
Exchangers									
Minimum Water Flow in Cooling ⁴	Evaporator	l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50
Minimum Water Flow in Heating ¹	Condenser	l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50
Refrigerant Circuit									
Compressors		No.	4	4	4	6	6	6	6
Circuits		No.	2	2	2	3	3	3	3
Refrigerant Charge ⁷		kg	87.3	92.7	107	113	128	128	128
Noise Levels									
Total Sound Pressure ⁸		dB(A)	56	56	56	57	57	57	57
Total Sound Power Level in Cooling ⁹		dB(A)	88	88	88	89	89	90	90
Total Sound Power Level in Heating ¹⁰		dB(A)	89	89	89	90	90	91	91
Size and Weight¹¹									
Width (A)		mm	4515	5080	5080	5690	5690	6865	7430
Depth (B)		mm	2260	2260	2260	2260	2260	2260	2260
Height (H)		mm	2450	2450	2450	2450	2450	2450	2450
Operation Weight		kg	3700	3840	4010	5280	5390	5690	5800

■ 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.

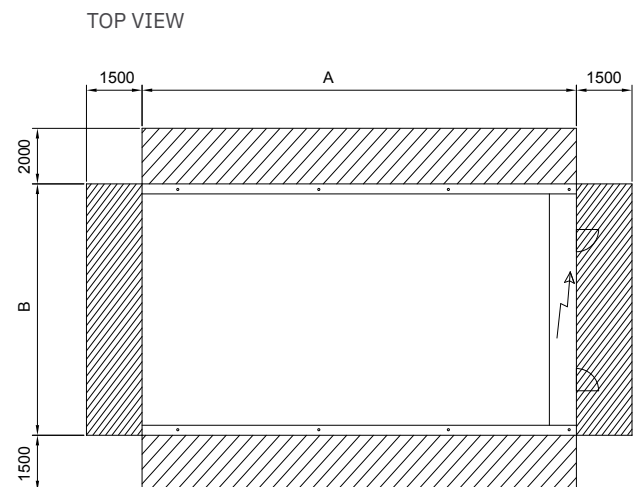
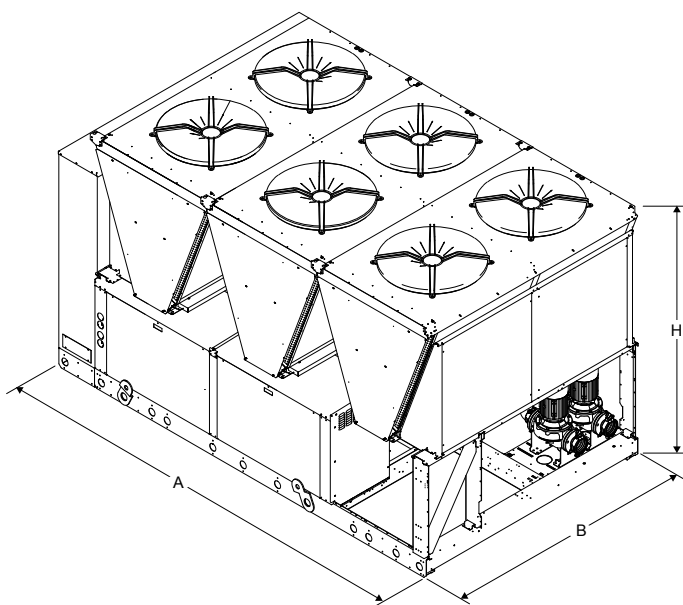
NX2-Q-G06 /A		0344	0364	0404	0446	0506	0526	0546	0606	0708	0738	0768	0808
Cooling With Heat Recovery^{1,2,3}													
Cooling Capacity	kW	346.9	366.8	403.0	451.8	494.3	533.0	550.6	605.6	695.7	734.1	769.7	807.2
Recovery Heat Exchanger Capacity	kW	445.5	468.9	515.0	581.4	633.4	681.3	704.1	772.6	890.9	938.6	983.8	1030.0
Total Power Input	kW	107.2	110.5	121.6	140.7	151.6	160.8	166.8	181.5	212.1	221.4	232.1	241.8
TER	kW/kW	7.39	7.56	7.55	7.35	7.44	7.55	7.52	7.59	7.48	7.56	7.55	7.60
Performance - Heating Only^{4,2}													
Total Heat Capacity	kW	378.7	399.7	429.4	495.5	534.2	577.0	599.6	640.6	753.4	795.3	826.0	854.1
COP	kW/kW	3.20	3.21	3.21	3.19	3.20	3.21	3.21	3.26	3.26	3.28	3.26	3.26
Performance - Cooling Only^{1,2}													
Total Cooling Capacity	kW	344.9	361.1	399.3	446.0	499.5	525.3	543.0	598.8	696.0	724.2	761.4	798.6
EER	kW/kW	2.92	2.95	2.96	2.90	2.92	2.94	2.95	3.01	3.01	3.01	3.03	3.02
Seasonal Performance⁵													
Prated,c	kW	344.9	361.1	399.3	446.0	499.5	525.3	543.0	598.8	696.0	724.2	761.4	798.6
SEER		4.28	4.38	4.44	4.36	4.28	4.37	4.36	4.56	4.56	4.56	4.58	4.56
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	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Max F.L.A ⁶	Total A	265	278	305	344	377	404	417	443	511	537	564	590
Exchangers													
Minimum Water Flow in Cooling ⁴	Evaporator l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50	17.50	21.14	22.67	23.72	24.69
Minimum Water Flow in Heating ¹	Condenser l/s	10.58	11.31	12.33	13.89	13.89	17.50	17.50	17.50	21.14	22.67	23.72	24.69
Refrigerant Circuit													
Compressors	No.	4	4	4	6	6	6	6	6	8	8	8	8
Circuits	No.	2	2	2	3	3	3	3	3	4	4	4	4
Refrigerant Charge ⁷	kg	100	101	107	128	128	137	142	142	178	190	190	190
Noise Levels													
Total Sound Pressure ⁸	dB(A)	65	65	65	64	65	65	65	66	66	67	67	67
Total Sound Power Level in Cooling ⁹	dB(A)	97	97	97	97	98	98	98	99	99	100	100	100
Total Sound Power Level in Heating ¹⁰	dB(A)	97	97	97	97	98	98	98					
Size and Weight¹¹													
Width (A)	mm	5080	5080	5080	6255	7430	7430	7430	7430	9780	9780	9780	9780
Depth (B)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height (H)	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
Operation Weight	kg	3720	3820	3860	5290	5530	5700	5780	5840	7440	7640	7680	7720

■ 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.

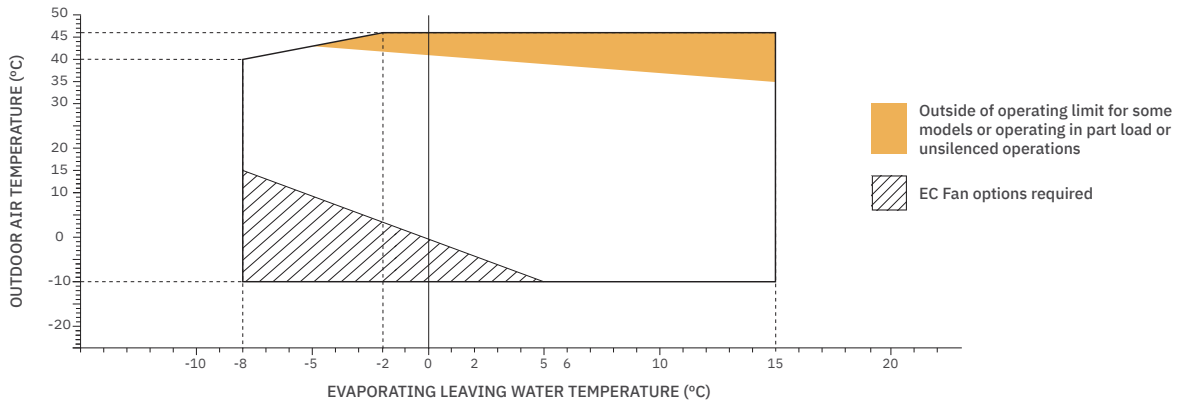
NX2-Q-G06 DIMENSIONS AND CLEARANCES

All dimensions are in millimetres.

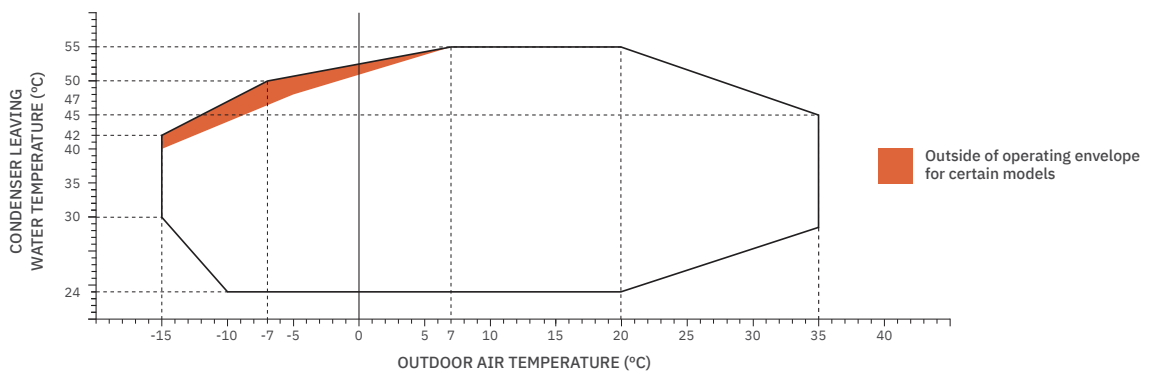


NX2-Q-G06 OPERATING ENVELOPES

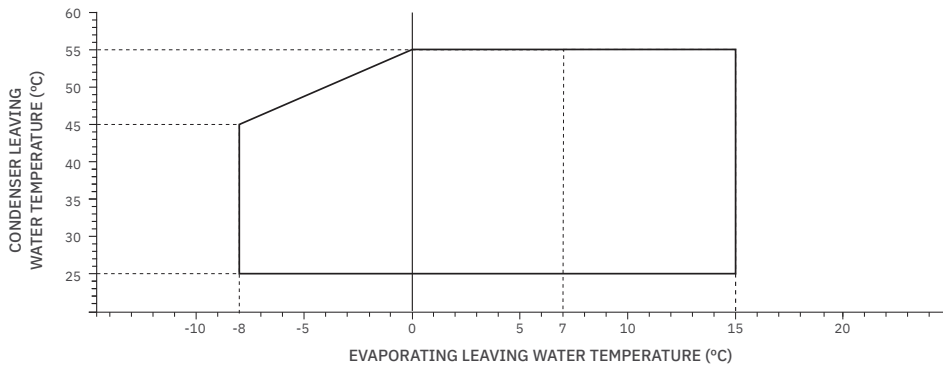
Cooling



Heating



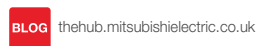
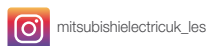
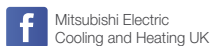
Cooling with Heat Recovery



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

