

i-NX-Q

Air Sourced Polyvalent Unit with Inverter Scroll Compressors



Mitsubishi Electric's **i-NX-Q** is our range of air sourced simultaneous heating and cooling (polyvalent / 4-pipe) using Variable Speed Drive (VSD) scroll compressors as standard.

Available in 10 sizes from 43kw to 152kw in cooling the **i-NX-Q** uses R410A refrigerant. It is available in two different configurations for noise performance with a wide operating range from -10°C to +20°C evaporator leaving water temperatures (ELWT) and hot water leaving up to 60°C.

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

Key Features & Benefits:

- Best-in-class seasonal efficiency in a compact footprint
- High efficiency inverter 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

R410A 



i-NX-Q			0152P	0182P	0202P	0252P	0262P	0302P	0352P	0402P	0502P	0552P
Cooling With Heat Recovery^{1,2,3}												
Cooling Capacity	kW		47.02	52.96	61.43	68.63	79.78	89.07	101.9	116.3	134.7	154.3
Recovery Heat Exchanger Capacity	kW		60.15	68.75	79.38	89.70	103.6	116.8	131.1	151.2	175.6	200.4
Total Power Input	kW		14.08	16.98	19.25	22.64	25.54	29.85	31.46	37.66	44.18	49.98
TER	kW/kW		7.612	7.170	7.315	6.992	7.178	6.898	7.406	7.102	7.024	7.096
Performance - Heating Only^{4, 2}												
Total Heat Capacity	kW		48.10	56.10	66.30	74.10	85.70	95.50	108.30	122.9	143.6	165.2
COP	kW/kW		3.190	3.16	3.21	3.12	3.29	3.22	3.35	3.28	3.30	3.29
Performance - Cooling Only^{1, 2}												
Total Cooling Capacity	kW		44.7	51.2	60.8	67.5	79.0	87.8	100.7	114.0	132.9	151.7
EER	kW/kW		2.93	2.84	2.99	2.78	2.93	2.74	3.07	2.86	2.92	2.95
Seasonal Performance⁵												
Rated Heat Output at Tdesignh	kW		33.0	40.0	47.0	53.0	64.0	71.0	81.0	91.0	107.0	123.0
SCOP			3.85	3.97	3.87	3.97	3.94	3.96	4.08	4.11	4.12	4.16
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	400/3+N/50	400/3+N/50	400/3+N/50
Max F.L.A. ⁶	Total	A	69	69	76	76	75	75	109	109	111	113
Exchangers												
Minimum Water Flow in Cooling ⁴	Evaporator	l/s	1.056	1.222	1.417	1.583	1.861	2.083	2.389	2.722	3.167	3.639
Minimum Water Flow in Heating ¹	Condenser	l/s	1.333	1.528	1.750	1.944	2.250	2.528	2.611	3.056	3.528	4.056
Refrigerant Circuit												
Compressors	No.		2	2	2	2	2	2	2	2	2	2
Circuits	No.		2	2	2	2	2	2	2	2	2	2
Refrigerant Charge ⁷	kg		16.4	20.6	22.2	22.6	30.6	30.8	38.4	38.8	53.2	60.0
Noise Levels												
Total Sound Pressure ⁸	dB(A)		52	53	55	55	55	56	56	57	59	61
Total Sound Power Level in Cooling ⁹	dB(A)		84	85	87	87	87	88	88	89	91	93
Total Sound Power Level in Heating ¹⁰	dB(A)		84	85	87	87	87	88	88	89	91	93
Size and Weight¹¹												
Width (A)	mm		2000	2000	2625	2625	2625	2625	3250	3250	3875	4500
Depth (B)	mm		1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
Height (H)	mm		2070	2070	2070	2070	2070	2070	2070	2070	2070	2070
Operation Weight	kg		800	820	930	930	1050	1050	1290	1300	1480	1630

i-NX-Q /SL			0152P	0182P	0202P	0252P	0262P	0302P	0352P	0402P	0502P	0552P
Cooling With Heat Recovery^{1,2,3}												
Cooling Capacity	kW		46.05	52.93	57.65	65.09	75.01	84.46	94.47	109.2	126.20	145.2
Recovery Heat Exchanger Capacity	kW		59.22	68.77	74.09	84.59	96.84	110.2	120.9	141.2	164.0	188.1
Total Power Input	kW		14.14	17.04	17.62	20.92	23.40	27.71	28.37	34.43	40.58	46.15
TER	kW/kW		7.447	7.142	7.477	7.154	7.343	7.026	7.591	7.272	7.151	7.222
Performance - Heating Only^{4, 2}												
Total Heat Capacity	kW		51.20	59.00	62.50	70.70	78.50	93.10	98.10	114.2	132.4	153.2
COP	kW/kW		3.370	3.31	3.40	3.29	3.38	3.37	3.45	3.35	3.36	3.38
Performance - Cooling Only^{1, 2}												
Total Cooling Capacity	kW		45.6	52.3	56.3	62.9	70.9	84.0	89.5	105.0	119.9	138.4
EER	kW/kW		3.23	3.03	3.01	2.77	2.73	2.87	2.90	2.81	2.72	2.78
Seasonal Performance⁵												
Rated Heat Output at Tdesignh	kW		37.0	43.0	45.0	52.0	59.0	70.0	74.0	79.0	97.0	115.0
SCOP			3.93	3.97	3.98	4.00	3.97	4.04	4.09	4.01	4.11	4.13
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	400/3+N/50	400/3+N/50	400/3+N/50
Max F.L.A. ⁶	Total	A	71	71	76	76	75	77	109	111	111	113
Exchangers												
Minimum Water Flow in Cooling ⁴	Evaporator	l/s	1.056	1.222	1.417	1.583	1.861	2.083	2.389	2.722	3.167	3.639
Minimum Water Flow in Heating ¹	Condenser	l/s	1.333	1.528	1.750	1.944	2.250	2.528	2.611	3.056	3.528	4.056
Refrigerant Circuit												
Compressors	No.		2	2	2	2	2	2	2	2	2	2
Circuits	No.		2	2	2	2	2	2	2	2	2	2
Refrigerant Charge ⁷	kg		26.7	27.3	27.8	29.2	31.2	43.8	40.6	45.8	53.4	60.0
Noise Levels												
Total Sound Pressure ⁸	dB(A)		47	47	48	49	49	50	50	51	53	55
Total Sound Power Level in Cooling ⁹	dB(A)		79	79	80	81	81	82	82	83	85	87
Total Sound Power Level in Heating ¹⁰	dB(A)		79	79	80	81	81	82	82	83	85	87
Size and Weight¹¹												
Width (A)	mm		2625	2625	2625	2625	2625	3250	3250	3250	3875	4500
Depth (B)	mm		1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
Height (H)	mm		2070	2070	2070	2070	2070	2070	2070	2070	2070	2070
Operation Weight	kg		960	960	990	990	1080	1210	1330	1440	1520	1660

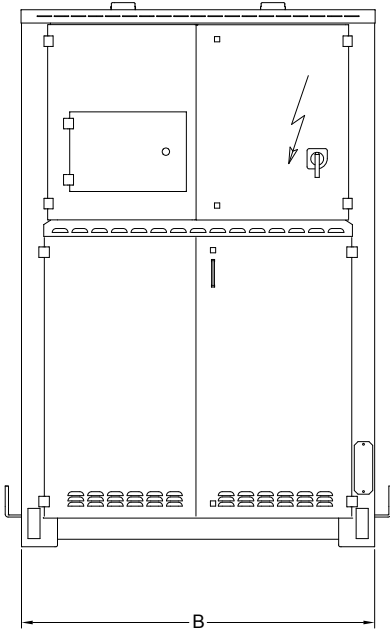
■ Eurovent Certified Data

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. Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013] - Average Weather Conditions. 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.

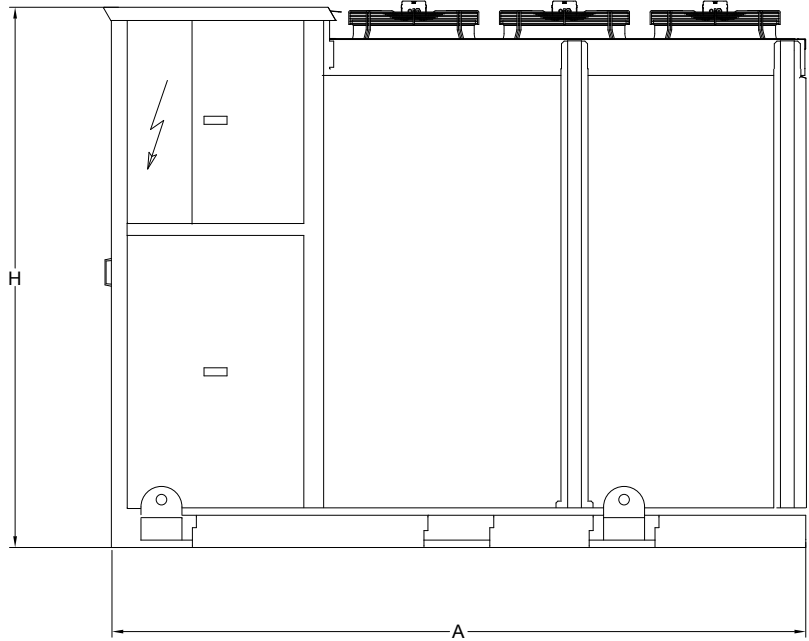
i-NX-Q DIMENSIONS AND CLEARANCES

All dimensions are in millimetres.

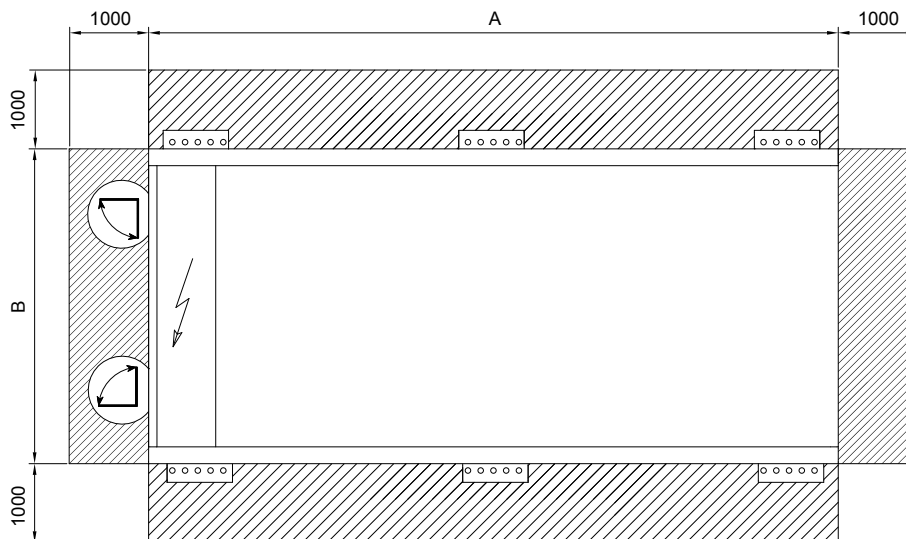
FRONT VIEW



SIDE VIEW

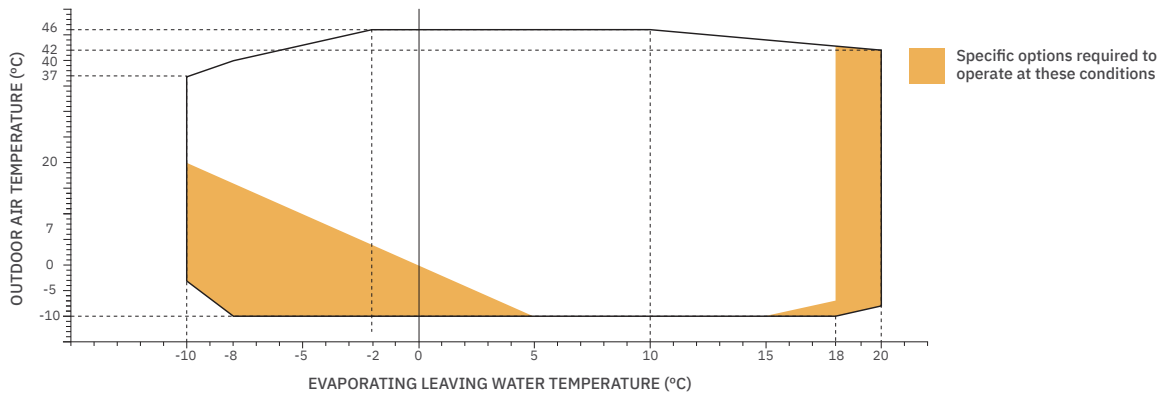


TOP VIEW

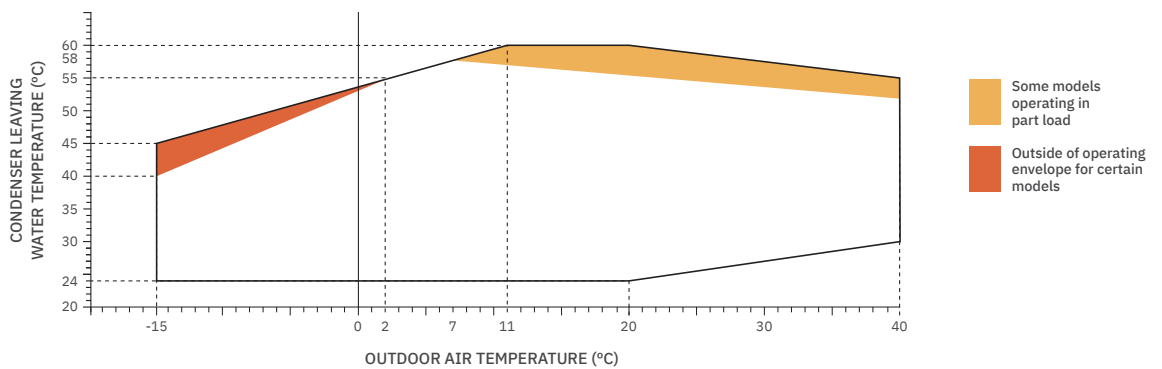


i-NX-Q OPERATING ENVELOPES

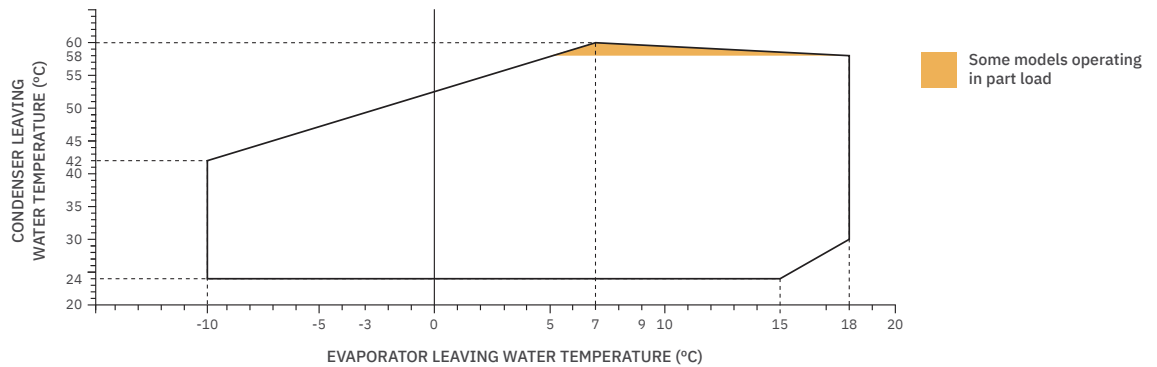
Cooling



Heating



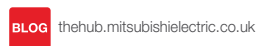
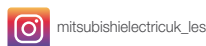
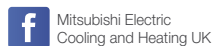
Cooling with Heat Recovery



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

