

# NX2-N-G06

## Reversible Air Sourced Heat Pump with Scroll Compressors

Mitsubishi Electric's **NX2-N-G06** is our flexible air sourced heat pump, using rotary scroll compressors, axial-flow fans, shell and tubes exchanger and electronic expansion valve as standard.

The range is composed of units equipped with four, six and eight compressors in multi-circuit configuration. Available in 12 sizes from 363kW to 845kW (heating) and operating on R454B low GWP refrigerant making the **NX2-N-G06** best in class.

The **NX2-N-G06** is available as three different configurations for noise and efficiency performance (K, SL, A), 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-N-G06** can also be fitted with a range of options including Soft Start, energy meters, BEMS interface cards and on-board hydronic kits.

# R454B



### Key Features & Benefits:

- Exceptional seasonal efficiency in a compact footprint
- High efficiency scroll compressors in a multi-circuit configuration
- EC fans available as an option for improved efficiency
- 3 different configurations for noise and efficiency performance available (K, SL, A)
- Low GWP refrigerant R454B
- Available options include; inbuilt hydronic pumps with buffer tank, energy meters, refrigerant leak detection and many more
- Cu/Al auxiliary heat exchangers with coated protection option available
- Smart defrost to manage the cycles resulting in reduced time, increased efficiency and minimum impact on leaving water temperature



NX2-N-G06 /K			0344	0364	0404	0446	0506	0526	0546
<b>Performance - Heating Only</b> <sup>2,13</sup>									
Total Heating Capacity	kW		365.2	387.0	415.4	470.0	513.3	560.7	580.5
COP	kW/kW		3.02	3.06	3.04	2.98	3.00	3.05	3.07
<b>Seasonal Performance Heating (EN14825 Value) - Low Temperature</b> <sup>11</sup>									
Rated Heat Output at Tdesignh	kW		268.0	294.0	323.0	369.0	388.0	363.0	373.0
SCOP			3.60	3.70	3.73	3.66	3.53	3.49	3.53
Seasonal space heating efficiency	%		141	145	146	143	138	137	138
<b>Performance - Cooling Only</b> <sup>11,12</sup>									
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
<b>Seasonal Efficiency In Cooling (Reg.EU 2016/2281)</b> <sup>12</sup>									
Prated,C	kW		334.3	354.7	382.0	430.2	475.1	515.9	533.1
SEER			3.93	4.04	4.07	4.01	3.93	4.07	4.10
<b>Electrical Data</b>									
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. <sup>10</sup>	Total	A	257	270	297	333	365	392	405
<b>Exchangers</b>									
Minimum Water Flow	l/s		10.58	11.31	12.33	13.89	13.89	17.50	17.50
Minimum Water Content	l/s		27.58	26.72	29.92	36.11	36.11	38.89	38.89
<b>Refrigerant Circuit</b>									
Compressors	No.		4	4	4	6	6	6	6
Circuits	No.		2	2	2	3	3	3	3
Theoretical Refrigerant Charge	kg		65	68	68	84	87	98	113
<b>Noise Levels</b>									
Total Sound Pressure <sup>15</sup>	dB(A)		76	76	76	76	76	76	76
Total Sound Power Level in Cooling <sup>16,17</sup>	dB(A)		96	96	96	96	97	97	97
Total Sound Power Level in Heating <sup>16,18</sup>	dB(A)		96	96	96	96	97	97	97
<b>Size and Weight</b> <sup>19</sup>									
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		3030	3110	3150	4040	4400	4530	4600

NX2-N-G06 /SL			0344	0364	0404	0446	0506	0526	0546
<b>Performance - Heating Only</b> <sup>2,13</sup>									
Total Heating Capacity	kW		362.5	379.6	420.6	471.4	511.7	552.6	569.4
COP	kW/kW		3.13	3.11	3.16	3.09	3.11	3.13	3.12
<b>Seasonal Performance Heating (EN14825 Value) - Low Temperature</b> <sup>11</sup>									
Rated Heat Output at Tdesignh	kW		227.0	252.0	319.0	294.0	390.0	356.0	378.0
SCOP			3.67	3.71	3.78	3.67	3.80	3.73	3.72
Seasonal space heating efficiency	%		144	145	148	144	149	146	146
<b>Performance - Cooling Only</b> <sup>11,12</sup>									
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
<b>Seasonal Efficiency In Cooling (Reg.EU 2016/2281)</b> <sup>12</sup>									
Prated,C	kW		316.0	336.4	370.2	409.0	443.6	486.1	505.7
SEER			4.10	4.13	4.23	4.14	4.10	4.19	4.19
<b>Electrical Data</b>									
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. <sup>10</sup>	Total	A	257	270	297	333	365	392	405
<b>Exchangers</b>									
Minimum Water Flow	l/s		10.58	11.31	12.33	13.89	13.89	17.50	17.50
Minimum Water Content	l/s		27.58	26.72	29.92	36.11	36.11	38.89	38.89
<b>Refrigerant Circuit</b>									
Compressors	No.		4	4	4	6	6	6	6
Circuits	No.		2	2	2	3	3	3	3
Theoretical Refrigerant Charge	kg		72	74	85	96	106	112	113
<b>Noise Levels</b>									
Total Sound Pressure <sup>15</sup>	dB(A)		68	68	68	68	68	69	69
Total Sound Power Level in Cooling <sup>16,17</sup>	dB(A)		88	88	88	89	89	90	90
Total Sound Power Level in Heating <sup>16,18</sup>	dB(A)		89	89	89	90	90	91	91
<b>Size and Weight</b> <sup>19</sup>									
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		3330	3460	3630	4640	4750	5050	5170

NX2-N-G06 /A		0344	0364	0404	0446	0506	0526	0546	0606	0708	0738	0768	0808
<b>Performance - Heating Only</b> <sup>2,13</sup>													
Total Heating Capacity	kW	376.8	397.7	427.2	493.1	531.6	574.2	596.6	640.6	753.4	795.3	826.0	854.1
COP	kW/kW	3.19	3.19	3.20	3.17	3.19	3.20	3.20	3.26	3.26	3.28	3.26	3.26
<b>Seasonal Performance Heating (EN14825 Value) - Low Temperature</b> <sup>11</sup>													
Rated Heat Output at Tdesignh	kW	271.0	296.0	321.0	368.0	386.0	356.0	371.0					
SCOP		3.76	3.83	3.79	3.90	3.81	3.80	3.83					
Seasonal space heating efficiency	%	147	150	149	153	149	149	150					
<b>Performance - Cooling Only</b> <sup>1,12</sup>													
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
<b>Seasonal Efficiency In Cooling (Reg.EU 2016/2281)</b> <sup>12</sup>													
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	4.39	4.44	4.36	4.28	4.37	4.37	4.56	4.56	4.56	4.58	4.56
<b>Electrical Data</b>													
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. <sup>10</sup>	Total A	265	278	305	344	377	404	417	443	511	537	564	590
<b>Exchangers</b>													
Minimum Water Flow	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 Content	l/s	27.58	26.72	29.92	36.11	36.11	38.89	38.89	41.67	51.72	56.67	56.67	60.36
<b>Refrigerant Circuit</b>													
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
Theoretical Refrigerant Charge	kg	81	86	87	109	112	124	133	133	162	173	174	176
<b>Noise Levels</b>													
Total Sound Pressure <sup>15</sup>	dB(A)	77	77	77	76	77	77	77	78	77	78	78	78
Total Sound Power Level in Cooling <sup>16,17</sup>	dB(A)	97	97	97	97	98	98	98	99	99	100	100	100
Total Sound Power Level in Heating <sup>16,18</sup>	dB(A)	97	97	97	97	98	98	98	0	0	0	0	0
<b>Size and Weight</b> <sup>19</sup>													
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	3350	3440	3480	4650	4900	5060	5140	5200	6580	6760	6800	6840

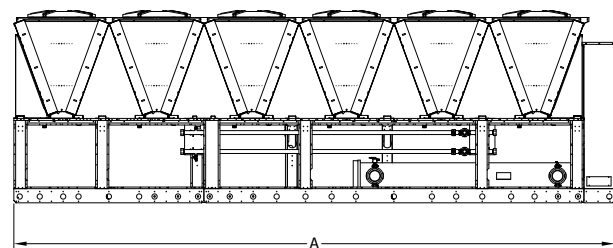
■ Eurovent Certified Data

**Notes:** 1. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C. 2. Values in compliance with EN14511. 3. Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H. 4. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C; Plant (side) heat exchanger recovery water (in/out) 40.00°C/45.00°C. 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 measurements taken in compliance with ISO 9614. 7. Sound power level in cooling, outdoors. 8. Sound power level in heating, outdoors. 9. Unit in standard configuration, without optional accessories. 10. Values calculated referring to the version with the maximum number of fans working at the max absorbed current. Safety values to be considered when cabling the unit for power supply and line-protections. Data valid for standard units without any additional option. 11. Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]. 12. Parameter calculated according to [REGULATION (EU) N. 2016/2281].

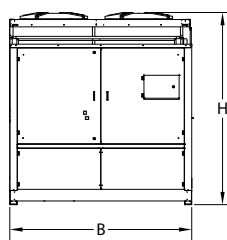
## NX2-N-G06 DIMENSIONS AND CLEARANCES

All dimensions are in millimetres.

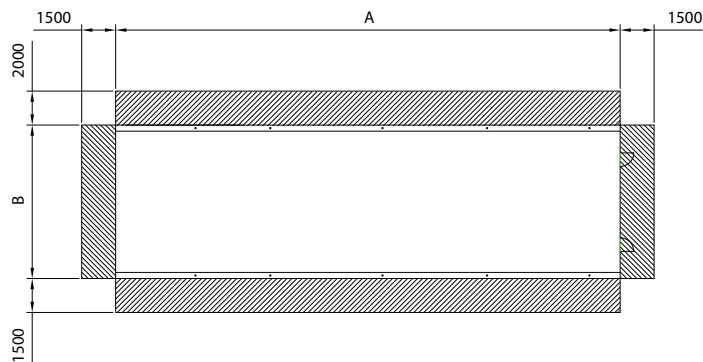
SIDE VIEW



FRONT VIEW

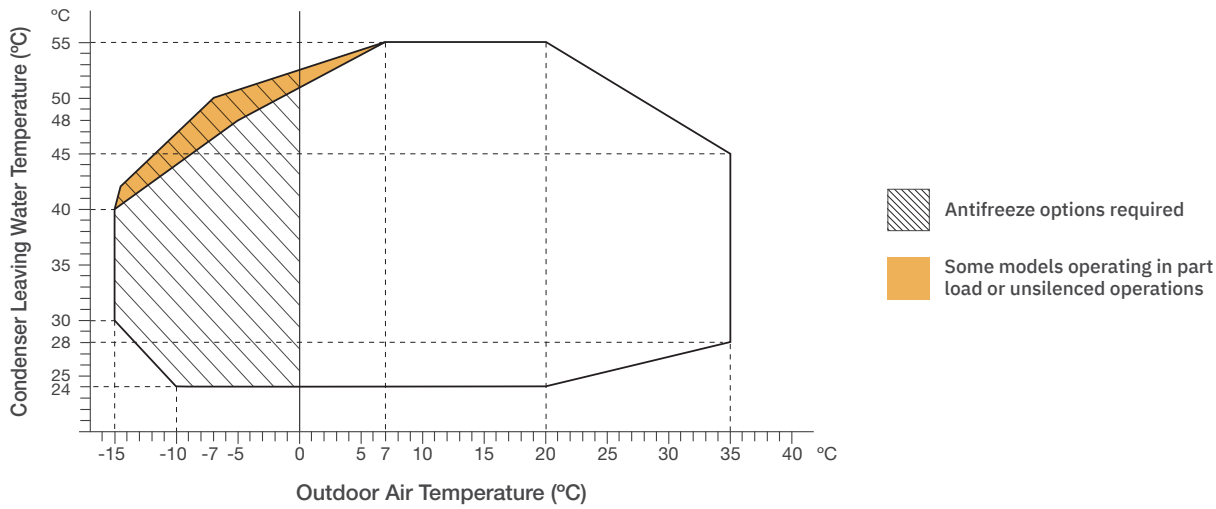


TOP VIEW

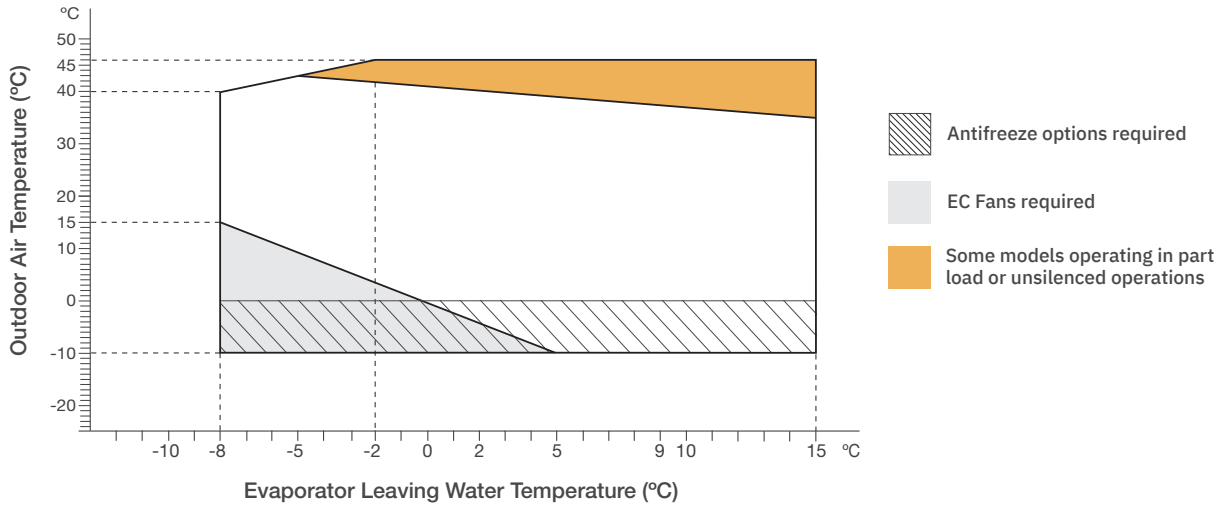


**NX2-N-G06 OPERATING ENVELOPES**

**Heating**



**Cooling**



**Note:** Operating envelopes shown are indicative and should not be used 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 IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of January 2025