

6 GENERAL TECHNICAL DATA

Data Book

NX2-N-G06 0344 - 0808_202105_EN R454B

[SI System]

NX2-N-G06 / K			0344	0364	0404	0446	0506	0526	0546
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						
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	kW	334,7	355,0	382,4	430,6	475,7	516,4	533,6
Total power input	(1)	kW	122,8	126,2	141,6	163,0	175,4	183,7	189,4
EER	(1)	kW/kW	2,726	2,813	2,701	2,642	2,712	2,811	2,817
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	334,3	354,7	382,0	430,2	475,1	515,9	533,1
EER	(1)(2)	kW/kW	2,690	2,780	2,670	2,620	2,680	2,780	2,790
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	364,7	386,5	414,9	469,4	512,7	560,2	579,9
Total power input	(3)	kW	119,3	124,9	134,8	155,5	168,4	181,7	186,9
COP	(3)	kW/kW	3,057	3,094	3,078	3,019	3,045	3,083	3,103
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(3)(2)	kW	365,2	387,0	415,4	470,0	513,3	560,7	580,5
COP	(3)(2)	kW/kW	3,020	3,060	3,040	2,980	3,000	3,050	3,070
COOLING WITH PARTIAL RECOVERY									
Cooling capacity	(4)	kW	347,3	368,4	396,8	446,8	493,5	535,8	553,7
Total power input	(4)	kW	118,9	122,2	137,1	157,7	169,9	177,9	183,4
Desuperheater heating capacity	(4)	kW	98,87	101,9	115,7	133,0	140,5	147,9	153,0
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN COOLING									
Water flow	(1)	l/s	16,01	16,98	18,29	20,59	22,75	24,70	25,52
Pressure drop at the heat exchanger	(1)	kPa	48,1	38,5	44,7	43,4	53,0	43,5	46,4
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	17,60	18,66	20,03	22,66	24,75	27,04	27,99
Pressure drop at the heat exchanger	(3)	kPa	58,2	46,5	53,5	52,6	62,7	52,1	55,9
PARTIAL RECOVERY USER SIDE IN REFRIGERATION									
Water flow	(4)	l/s	4,773	4,921	5,584	6,418	6,781	7,142	7,386
Pressure drop at the heat exchanger	(4)	kPa	34,5	31,7	40,8	35,8	39,9	32,4	31,8
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	6	6	6	6
Number of capacity steps		N°	4	4	4	6	6	6	6
No. Circuits		N°	2	2	2	3	3	3	3
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	17	17	17	17
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B
Refrigerant charge		kg	64,8	68,4	68,4	83,7	87,3	98,1	113
Oil charge		kg	25,0	25,0	25,0	39,0	38,0	38,0	38,0
Rc (ASHRAE)	(5)	kg/kW	0,20	0,19	0,18	0,20	0,19	0,19	0,21
FANS									
Quantity		N°	12	12	12	10	18	18	18
Air flow		m³/s	35,95	34,59	34,59	39,52	53,07	51,13	51,88
Fans power input		kW	2,00	2,00	2,00	2,00	2,00	2,00	2,00
NOISE LEVEL									
Total sound Pressure	(6)	dB(A)	76	76	76	76	76	76	76
Total sound power level in cooling	(7)(8)	dB(A)	96	96	96	96	97	97	97
Total sound power level in heating	(7)(9)	dB(A)	96	96	96	96	97	97	97
SIZE AND WEIGHT									
A	(10)	mm	3905	3905	3905	4515	5690	5690	5690
B	(10)	mm	2260	2260	2260	2260	2260	2260	2260
H	(10)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(10)	kg	3030	3110	3150	4040	4400	4530	4600

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 Rated in accordance with AHRI Standard 550/590

6 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.

7 Sound power on the basis of measurements taken in compliance with ISO 9614.

8 Sound power level in cooling, outdoors.

9 Sound power level in heating, outdoors.

10 Unit in standard configuration, without optional accessories.

- Not available

Data certified in EUROVENT

GENERAL TECHNICAL DATA

Data Book

NX2-N-G06 0344 - 0808_202105_EN R454B

[SI System]

NX2-N-G06 / SL			0344	0364	0404	0446	0506	0526	0546
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						
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	kW	316,4	336,8	370,6	409,4	444,0	486,6	506,1
Total power input	(1)	kW	128,4	132,8	144,6	170,3	184,7	194,0	199,4
EER	(1)	kW/kW	2,464	2,536	2,563	2,404	2,404	2,508	2,538
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	316,0	336,4	370,2	409,0	443,6	486,1	505,7
EER	(1)(2)	kW/kW	2,440	2,510	2,540	2,380	2,380	2,490	2,510
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	362,0	379,2	420,1	470,8	511,1	552,0	568,8
Total power input	(3)	kW	114,1	120,5	131,1	150,6	162,1	174,2	180,3
COP	(3)	kW/kW	3,173	3,147	3,204	3,126	3,153	3,169	3,155
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(3)(2)	kW	362,5	379,6	420,6	471,4	511,7	552,6	569,4
COP	(3)(2)	kW/kW	3,130	3,110	3,160	3,090	3,110	3,130	3,120
COOLING WITH PARTIAL RECOVERY									
Cooling capacity	(4)	kW	328,2	349,4	384,5	424,8	460,7	504,8	525,1
Total power input	(4)	kW	124,2	128,5	139,8	164,6	178,5	187,6	192,8
Desuperheater heating capacity	(4)	kW	108,4	111,4	121,9	144,0	156,8	163,4	167,3
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN COOLING									
Water flow	(1)	l/s	15,13	16,11	17,72	19,58	21,23	23,27	24,20
Pressure drop at the heat exchanger	(1)	kPa	43,0	34,6	41,9	39,2	46,2	38,6	41,8
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	17,47	18,30	20,28	22,73	24,67	26,65	27,46
Pressure drop at the heat exchanger	(3)	kPa	57,4	44,7	54,9	52,9	62,3	50,6	53,7
PARTIAL RECOVERY USER SIDE IN REFRIGERATION									
Water flow	(4)	l/s	5,231	5,378	5,885	6,949	7,569	7,887	8,074
Pressure drop at the heat exchanger	(4)	kPa	41,5	37,9	45,3	41,9	49,7	39,5	38,0
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	6	6	6	6
Number of capacity steps		N°	4	4	4	6	6	6	6
No. Circuits		N°	2	2	2	3	3	3	3
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	17	17	17	17
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B
Refrigerant charge		kg	71,9	74,1	85,2	96,3	106	112	113
Oil charge		kg	25,0	25,0	25,0	39,0	38,0	38,0	38,0
Rc (ASHRAE)	(5)	kg/kW	0,23	0,22	0,23	0,24	0,24	0,23	0,23
FANS									
Quantity		N°	10	8	8	18	18	14	12
Air flow		m³/s	27,28	30,33	29,48	35,07	33,16	42,86	45,49
Fans power input		kW	1,00	1,00	1,00	1,00	1,00	1,00	1,00
NOISE LEVEL									
Total sound Pressure	(6)	dB(A)	68	68	68	68	68	69	69
Total sound power level in cooling	(7)(8)	dB(A)	88	88	88	89	89	90	90
Total sound power level in heating	(7)(9)	dB(A)	89	89	89	90	90	91	91
SIZE AND WEIGHT									
A	(10)	mm	4515	5080	5080	5690	5690	6865	7430
B	(10)	mm	2260	2260	2260	2260	2260	2260	2260
H	(10)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(10)	kg	3330	3460	3630	4640	4750	5050	5170

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 Rated in accordance with AHRI Standard 550/590

6 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.

7 Sound power on the basis of measurements taken in compliance with ISO 9614.

8 Sound power level in cooling, outdoors.

9 Sound power level in heating, outdoors.

10 Unit in standard configuration, without optional accessories.

- Not available

Data certified in EUROVENT

GENERAL TECHNICAL DATA

Data Book

NX2-N-G06 0344 - 0808_202105_EN R454B

[SI System]

NX2-N-G06 / A			0344	0364	0404	0446	0506	0526	0546	0606	0708	0738
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									
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	345,3	361,5	399,8	446,5	500,0	525,8	543,5	599,3	696,6	724,8
Total power input	(1)	kW	116,8	121,4	133,4	152,0	168,8	177,0	182,1	196,5	228,7	238,0
EER	(1)	kW/kW	2,956	2,978	2,997	2,938	2,962	2,971	2,985	3,050	3,046	3,045
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	344,9	361,1	399,3	446,0	499,5	525,3	543,0	598,8	696,0	724,2
EER	(1)(2)	kW/kW	2,920	2,950	2,960	2,900	2,920	2,940	2,950	3,010	3,010	3,010
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(3)	kW	376,3	397,2	426,7	492,5	531,0	573,6	596,0	640,0	752,7	794,7
Total power input	(3)	kW	116,4	123,0	131,8	153,1	164,1	177,1	184,0	193,6	227,6	239,7
COP	(3)	kW/kW	3,233	3,229	3,237	3,217	3,236	3,239	3,239	3,306	3,307	3,315
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(3)(2)	kW	376,8	397,7	427,2	493,1	531,6	574,2	596,6	640,6	753,4	795,3
COP	(3)(2)	kW/kW	3,190	3,190	3,200	3,170	3,190	3,200	3,200	3,260	3,260	3,280
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	358,3	375,1	414,8	463,3	518,8	545,5	563,9	621,8	722,7	751,9
Total power input	(4)	kW	113,3	117,7	129,3	147,4	163,7	171,6	176,6	190,3	221,7	230,7
Desuperheater heating capacity	(4)	kW	89,98	94,05	104,8	117,8	129,2	136,5	141,2	157,2	179,9	188,2
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)	l/s	16,51	17,29	19,12	21,35	23,91	25,14	25,99	28,66	33,31	34,66
Pressure drop at the heat exchanger	(1)	kPa	51,2	39,9	48,8	46,7	58,5	45,1	48,2	51,1	50,3	40,5
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(3)	l/s	18,17	19,17	20,60	23,77	25,63	27,69	28,77	30,89	36,34	38,36
Pressure drop at the heat exchanger	(3)	kPa	62,0	49,1	56,6	57,9	67,3	54,6	59,0	59,4	59,9	49,6
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(4)	l/s	4,343	4,540	5,058	5,688	6,238	6,591	6,813	7,586	8,684	9,085
Pressure drop at the heat exchanger	(4)	kPa	28,6	27,0	33,5	28,1	33,8	27,6	27,1	33,6	32,3	31,0
REFRIGERANT CIRCUIT												
Compressors nr.		N°	4	4	4	6	6	6	6	6	8	8
Number of capacity steps		N°	4	4	4	6	6	6	6	6	8	8
No. Circuits		N°	2	2	2	3	3	3	3	3	4	4
Regulation		STEPS STEPS STEPS STEPS STEPS STEPS STEPS STEPS STEPS STEPS										
Min. capacity step		%	25	25	25	17	17	17	17	17	12,5	12,5
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Refrigerant charge		kg	81,0	86,4	86,9	109	112	124	133	133	162	173
Oil charge		kg	25,0	25,0	25,0	39,0	38,0	38,0	38,0	38,0	50,0	50,0
Rc (ASHRAE)	(5)	kg/kW	0,24	0,24	0,22	0,25	0,23	0,24	0,25	0,22	0,23	0,24
FANS												
Quantity		N°	8	8	8	16	12	12	12	12	16	16
Air flow		m³/s	47,93	46,12	46,12	56,58	70,76	68,18	69,18	69,18	95,87	92,24
Fans power input		kW	2,00	2,00	2,00	2,00	2,00	2,00	2,00	1,70	1,70	1,70
NOISE LEVEL												
Total sound Pressure	(6)	dB(A)	77	77	77	76	77	77	77	78	77	78
Total sound power level in cooling	(7)(8)	dB(A)	97	97	97	97	98	98	98	99	99	100
Total sound power level in heating	(7)(9)	dB(A)	97	97	97	97	98	98	98	0	0	0
SIZE AND WEIGHT												
A	(10)	mm	5080	5080	5080	6255	7430	7430	7430	7430	9780	9780
B	(10)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(10)	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
Operating weight	(10)	kg	3350	3440	3480	4650	4900	5060	5140	5200	6580	6760

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 Rated in accordance with AHRI Standard 550/590

6 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.

7 Sound power on the basis of measurements taken in compliance with ISO 9614.

8 Sound power level in cooling, outdoors.

9 Sound power level in heating, outdoors.

10 Unit in standard configuration, without optional accessories.

- Not available

Data certified in EUROVENT

GENERAL TECHNICAL DATA

Data Book

NX2-N-G06 0344 - 0808_202105_EN R454B

[SI System]

NX2-N-G06 / A		0768	0808
Power supply	V/ph/Hz	400/3/50	400/3/50
PERFORMANCE			
COOLING ONLY (GROSS VALUE)			
Cooling capacity	(1)	kW	762,0 799,2
Total power input	(1)	kW	248,8 262,0
EER	(1)	kW/kW	3,063 3,050
COOLING ONLY (EN14511 VALUE)			
Cooling capacity	(1)(2)	kW	761,4 798,6
EER	(1)(2)	kW/kW	3,030 3,020
HEATING ONLY (GROSS VALUE)			
Total heating capacity	(3)	kW	825,4 853,3
Total power input	(3)	kW	250,1 258,1
COP	(3)	kW/kW	3,300 3,306
HEATING ONLY (EN14511 VALUE)			
Total heating capacity	(3)(2)	kW	826,0 854,1
COP	(3)(2)	kW/kW	3,260 3,260
COOLING WITH PARTIAL RECOVERY			
Cooling capacity	(4)	kW	790,6 829,2
Total power input	(4)	kW	241,0 253,7
Desuperheater heating capacity	(4)	kW	197,8 209,6
EXCHANGERS			
HEAT EXCHANGER USER SIDE IN COOLING			
Water flow	(1)	l/s	36,44 38,22
Pressure drop at the heat exchanger	(1)	kPa	44,7 49,2
HEAT EXCHANGER USER SIDE IN HEATING			
Water flow	(3)	l/s	39,84 41,19
Pressure drop at the heat exchanger	(3)	kPa	53,5 57,2
PARTIAL RECOVERY USER SIDE IN REFRIGERATION			
Water flow	(4)	l/s	9,548 10,12
Pressure drop at the heat exchanger	(4)	kPa	34,3 38,5
REFRIGERANT CIRCUIT			
Compressors nr.	N°	8	8
Number of capacity steps	N°	8	8
No. Circuits	N°	4	4
Regulation		STEPS	STEPS
Min. capacity step	%	12,5	12,5
Refrigerant		R454B	R454B
Refrigerant charge	kg	174	176
Oil charge	kg	50,0	50,0
Rc (ASHRAE)	(5)	kg/kW	0,23 0,22
FANS			
Quantity	N°	16	16
Air flow	m³/s	92,24	92,24
Fans power input	kW	1,70	1,70
NOISE LEVEL			
Total sound Pressure	(6)	dB(A)	78 78
Total sound power level in cooling	(7)(8)	dB(A)	100 100
Total sound power level in heating	(7)(9)	dB(A)	0 0
SIZE AND WEIGHT			
A	(10)	mm	9780 9780
B	(10)	mm	2260 2260
H	(10)	mm	2450 2450
Operating weight	(10)	kg	6800 6840

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 Rated in accordance with AHRI Standard 550/590

6 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.

7 Sound power on the basis of measurements taken in compliance with ISO 9614.

8 Sound power level in cooling, outdoors.

9 Sound power level in heating, outdoors.

10 Unit in standard configuration, without optional accessories.

- Not available

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