

7 GENERAL TECHNICAL DATA

Data Book
NX2-Q-G06 0344 - 0808_202207_EN R454B

[SI System]

NX2-Q-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	366,5	388,4	417,0	471,8	515,3	563,0	582,8
Total power input	(3)	kW	119,3	124,9	134,8	155,5	168,4	181,7	186,9
COP	(3)	kW/kW	3,072	3,110	3,093	3,034	3,060	3,099	3,118
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(2)(3)	kW	367,0	388,9	417,5	472,3	515,9	563,5	583,4
COP	(2)(3)	kW/kW	3,030	3,080	3,060	3,000	3,020	3,060	3,080
COOLING WITH HEAT RECOVERY (EN 14511 VALUE)									
Cooling capacity	(4)(2)	kW	346,9	366,8	403,0	451,8	494,3	533,0	550,6
Total power input	(4)(2)	kW	107,0	110,3	121,3	140,3	151,2	160,6	166,5
Recovery heat exchanger capacity	(4)(2)	kW	445,5	468,8	514,9	581,4	633,4	681,2	704,1
TER		kW/kW	7,406	7,573	7,565	7,362	7,458	7,560	7,534
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	17,69	18,75	20,13	22,77	24,87	27,17	28,13
Pressure drop at the heat exchanger	(3)	kPa	58,8	46,9	54,1	53,1	63,3	52,6	56,4
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
Theoretical refrigerant charge		kg	77,4	93,6	93,6	97,2	108	124	125
Oil charge		kg	32,0	33,0	33,0	48,0	47,0	49,0	50,0
Rc (ASHRAE)	(5)	kg/kW	0,23	0,27	0,25	0,23	0,23	0,24	0,24
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
Total fans power input		kW	12,00	12,00	12,00	14,00	18,00	18,00	18,00
NOISE LEVEL									
Total sound Pressure	(6)	dB(A)	64	64	64	64	65	65	65
Total sound power level in cooling	(7)(8)	dB(A)	96	96	96	96	97	97	97
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	3400	3490	3530	4670	5030	5170	5230

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; Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C.

5 Rated in accordance with AHRI Standard 550/590

6 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.

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-Q-G06 0344 - 0808_202207_EN R454B

[SI System]

NX2-Q-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	363,8	381,0	422,2	473,2	513,6	554,8	571,6
Total power input	(3)	kW	114,1	120,5	131,1	150,6	162,1	174,2	180,3
COP	(3)	kW/kW	3,188	3,162	3,220	3,142	3,168	3,185	3,170
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(2)(3)	kW	364,3	381,5	422,7	473,7	514,2	555,4	572,2
COP	(2)(3)	kW/kW	3,150	3,130	3,180	3,100	3,120	3,150	3,130
COOLING WITH HEAT RECOVERY (EN 14511 VALUE)									
Cooling capacity	(4)(2)	kW	346,9	366,8	403,0	451,8	494,3	533,0	550,5
Total power input	(4)(2)	kW	106,8	110,2	121,3	140,1	150,9	160,3	166,2
Recovery heat exchanger capacity	(4)(2)	kW	445,4	468,8	514,9	581,4	633,4	681,2	704,0
TER		kW/kW	7,420	7,585	7,571	7,372	7,474	7,573	7,547
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	17,56	18,39	20,38	22,84	24,79	26,78	27,59
Pressure drop at the heat exchanger	(3)	kPa	57,9	45,2	55,4	53,4	62,9	51,1	54,3
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
Theoretical refrigerant charge		kg	87,3	92,7	107	113	128	128	128
Oil charge		kg	32,0	33,0	33,0	48,0	47,0	49,0	50,0
Rc (ASHRAE)	(5)	kg/kW	0,28	0,28	0,29	0,28	0,29	0,27	0,25
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
Total fans power input		kW	7,00	8,00	8,00	9,00	9,00	11,00	12,00
NOISE LEVEL									
Total sound Pressure	(6)	dB(A)	56	56	56	57	57	57	57
Total sound power level in cooling	(7)(8)	dB(A)	88	88	88	89	89	90	90
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	3700	3840	4010	5280	5390	5690	5800

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; Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C.

5 Rated in accordance with AHRI Standard 550/590

6 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.

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-Q-G06 0344 - 0808_202207_EN R454B

[SI System]

NX2-Q-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	378,2	399,2	428,8	495,0	533,6	576,4	599,0	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	3,249	3,246	3,253	3,233	3,252	3,255	3,255	3,306	3,307	3,315
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(2)(3)	kW	378,7	399,7	429,4	495,5	534,2	577,0	599,6	640,6	753,4	795,3
COP	(2)(3)	kW/kW	3,200	3,210	3,210	3,190	3,200	3,210	3,210	3,260	3,260	3,280
COOLING WITH HEAT RECOVERY (EN 14511 VALUE)												
Cooling capacity	(4)(2)	kW	346,9	366,8	403,0	451,8	494,3	533,0	550,6	605,6	695,7	734,1
Total power input	(4)(2)	kW	107,2	110,5	121,6	140,7	151,6	160,8	166,8	181,5	212,1	221,4
Recovery heat exchanger capacity	(4)(2)	kW	445,5	468,9	515,0	581,4	633,4	681,3	704,1	772,6	890,9	938,6
TER		kW/kW	7,391	7,563	7,551	7,346	7,437	7,550	7,523	7,594	7,480	7,555
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	18,26	19,27	20,70	23,89	25,76	27,83	28,91	30,89	36,34	38,36
Pressure drop at the heat exchanger	(3)	kPa	62,6	49,6	57,2	58,4	67,9	55,2	59,6	59,4	59,9	49,6
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
Theoretical refrigerant charge		kg	99,9	101	107	128	128	137	142	142	178	190
Oil charge		kg	32,0	33,0	33,0	48,0	47,0	49,0	50,0	50,0	64,0	66,0
Rc (ASHRAE)	(5)	kg/kW	0,29	0,28	0,27	0,29	0,26	0,26	0,26	0,24	0,26	0,26
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
Total fans power input		kW	16,00	16,00	16,00	20,00	24,00	24,00	24,00	20,40	27,20	27,20
NOISE LEVEL												
Total sound Pressure	(6)	dB(A)	65	65	65	64	65	65	65	66	66	67
Total sound power level in cooling	(7)(8)	dB(A)	97	97	97	97	98	98	98	99	99	100
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	3720	3820	3860	5290	5530	5700	5780	5840	7440	7640

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; Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C.

5 Rated in accordance with AHRI Standard 550/590

6 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.

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-Q-G06 0344 - 0808_202207_EN R454B

[SI System]

NX2-Q-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	(2)(3)	kW	826,0 854,1
COP	(2)(3)	kW/kW	3,260 3,260
COOLING WITH HEAT RECOVERY (EN 14511 VALUE)			
Cooling capacity	(4)(2)	kW	769,7 807,2
Total power input	(4)(2)	kW	232,1 241,8
Recovery heat exchanger capacity	(4)(2)	kW	983,8 1030
TER		kW/kW	7,554 7,598
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
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
Theoretical refrigerant charge		kg	190 190
Oil charge		kg	66,0 66,0
Rc (ASHRAE)	(5)	kg/kW	0,25 0,24
FANS			
Quantity		N°	16 16
Air flow		m³/s	92,24 92,24
Total fans power input		kW	27,20 27,20
NOISE LEVEL			
Total sound Pressure	(6)	dB(A)	67 67
Total sound power level in cooling	(7)(8)	dB(A)	100 100
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	7680 7720

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.

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5 Rated in accordance with AHRI Standard 550/590

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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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