

4/6 FREE COOLING

❄️ COOLING

NX2-FC-G06 0384 - 0926

292-748 kW

Air cooled chiller with free-cooling for high leaving water temperature

R 14540

🌀 SCROLL

T SHELL & TUBES



(The photo of the unit is indicative and may vary depending on the model)

- ✓ LOW GWP REFRIGERANT
- ✓ FREE-COOLING
- ✓ ELECTRICAL AND THERMAL METERING
- ✓ GROUP CONTROLS WITH DYNAMIC MASTER
- ✓ INTEGRATED HYDRONIC GROUP
- ✓ VARIABLE PRIMARY FLOW

 **CLIMAVENETA®**

2.2 Unit Description

Outdoor unit for the production of high temperature chilled water equipped with scroll compressors, R454B refrigerant, axial-fans, micro-channel full-aluminum condensing coils, shell and tube evaporator, and electronic expansion valves. Base, supporting structure, and panels are of galvanized epoxy powder coated steel. The free-cooling system chills the water exploiting the outdoor air cold temperatures. It consists of additional water coils, made of copper tubes and aluminum fins, and a devoted hydraulic valve system. The NG configuration complies with applications where it is not allowed or desired the use of ethylene glycol.

2.3 Key Features

LOW GWP REFRIGERANT

The new generation refrigerant R454B is the most eco-sustainable alternative to traditional refrigerant R410A, offering a 76% reduction in terms of GWP (Global Warming Potential GWP of R454B = 467, GWP of R410A = 1924 as per IPCC rev. 5th) and zero impact on the ozone layer.

FREE-COOLING

The generous size of the free-cooling coils allows to produce the nominal cooling capacity without the use of the compressors for many hours per year, thus cutting the annual energy consumption.

ELECTRICAL AND THERMAL METERING

Functions and kits for the smart metering of the electrical power consumption and the cooling capacity produced

GROUP CONTROLS WITH DYNAMIC MASTER

Load sharing, sequencing, active redundancy, priority of resource activation, alarm management, these are only some of the LAN functions that the unit is able to manage when connected to a group of chillers. Besides, the system's stability is ensured even in case of alarm or malfunctioning thanks to the Dynamic Master logic.

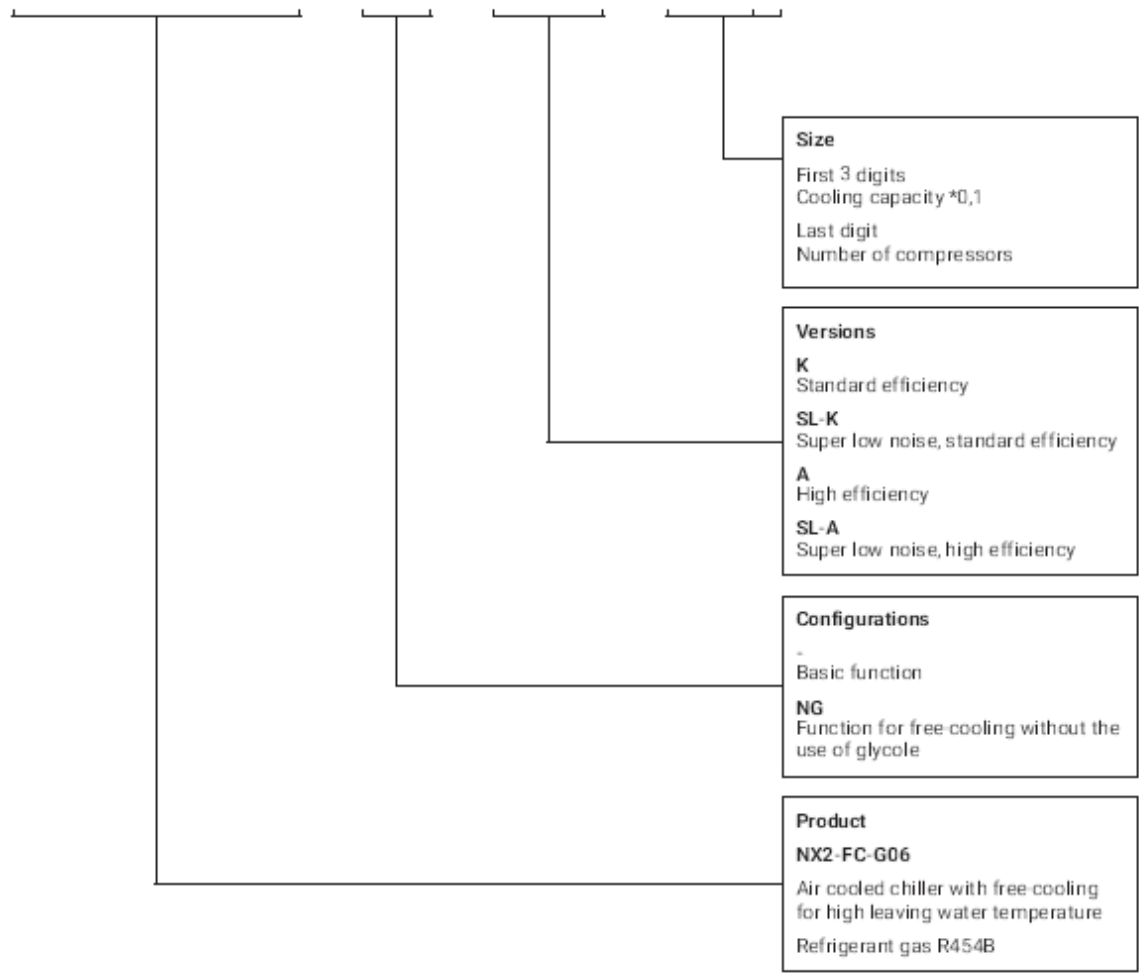
INTEGRATED HYDRONIC GROUP

The optional built-in hydronic module already contains the main water circuit components; available with single or twin in-line, for achieving both low or high head.

VARIABLE PRIMARY FLOW

Energy savings due to variable pump speed management based on load demand and the variable flow ensures the units also function in critical working conditions.

NX2-FC-G06 / NG / SL-A / 0836



[SI System]

NX2-FC-G06 /K		0384	0414	0434	0464	0494	0524	0554	0594	0624	0685	
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										
PERFORMANCE												
MECHANICAL COOLING (GROSS VALUE)												
Cooling capacity	(1)	kW	295,4	311,4	334,3	350,4	372,9	396,8	420,3	451,4	482,4	514,3
Compressor power input	(1)	kW	65,94	71,87	74,32	80,18	82,71	89,73	96,95	100,5	104,3	117,6
Total power input	(1)	kW	77,30	83,30	87,60	93,50	97,90	104,9	112,1	117,6	123,3	136,6
EER	(1)	kW/kW	3,821	3,738	3,816	3,748	3,809	3,783	3,749	3,838	3,912	3,765
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)												
Cooling capacity FC	(2)	kW	122,8	124,7	141,8	144,0	160,6	164,1	165,7	185,2	203,2	208,8
Cooling capacity FC / Nominal cooling capacity	(2)	%	42	40	42	41	43	41	39	41	42	41
TOTAL FREE-COOLING (GROSS VALUE)												
Total free-cooling temperature	(2)	°C	1,6	1,0	1,9	1,4	2,1	1,5	0,8	1,4	1,8	1,2
Cooling capacity	(2)	kW	295,4	311,4	334,3	350,4	372,9	396,8	420,3	451,4	482,4	514,3
Total power input	(2)	kW	11,40	11,40	13,30	13,30	15,20	15,20	15,20	17,10	19,00	19,00
EER	(2)	kW/kW	25,91	27,32	25,14	26,35	24,53	26,11	27,65	26,40	25,39	27,07
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Glycol	(1)	%	30	30	30	30	30	30	30	30	30	30
Water flow	(1)	l/s	13,04	13,75	14,76	15,47	16,47	17,52	18,56	19,93	21,30	22,71
Pressure drop at the heat exchanger	(1)	kPa	44,6	49,6	57,1	35,8	40,6	41,7	46,8	49,6	56,7	64,5
REFRIGERANT CIRCUIT												
Compressors nr.		N°	4	4	4	4	4	4	4	4	4	5
Number of capacity steps		N°	4	4	4	4	4	4	4	4	4	5
No. Circuits		N°	2	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25	20
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	36,0	40,5	46,8	46,8	50,4	52,2	57,6	59,4	67,5	67,5
Oil charge		kg	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	30,5
FANS												
Quantity		N°	6	6	7	7	8	8	8	9	10	10
Air flow		m ³ /s	32,37	32,37	37,76	37,76	43,16	43,16	43,16	48,55	53,95	53,95
Total fans power input		kW	11,40	11,40	13,30	13,30	15,20	15,20	15,20	17,10	19,00	19,00
NOISE LEVEL												
Total sound Pressure	(3)	dB(A)	62	62	62	63	63	63	63	62	63	63
Total sound power level in cooling	(4)	dB(A)	94	94	94	95	95	95	95	95	96	96
SIZE AND WEIGHT												
A	(5)	mm	3905	3905	5080	5080	5080	5080	5080	6255	6255	6255
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
Operating weight	(5)	kg	3160	3210	3630	4010	4210	4230	4250	4700	4870	5080

Notes:

1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 30%.

2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 30%.

3 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.

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

5 Unit in standard configuration, without optional accessories.

- Not available

[SI System]

NX2-FC-G06 /K		0746	0836	0866	0926	
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
MECHANICAL COOLING (GROSS VALUE)						
Cooling capacity	(1)	kW	559,0	631,0	668,5	716,0
Compressor power input	(1)	kW	124,0	145,4	145,7	159,7
Total power input	(1)	kW	146,8	168,2	172,3	186,3
EER	(1)	kW/kW	3,808	3,751	3,880	3,843
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)						
Cooling capacity FC	(2)	kW	240,9	252,9	283,5	289,7
Cooling capacity FC / Nominal cooling capacity	(2)	%	43	40	42	40
TOTAL FREE-COOLING (GROSS VALUE)						
Total free-cooling temperature	(2)	°C	2,1	1,0	1,9	1,2
Cooling capacity	(2)	kW	559,0	631,0	668,5	716,0
Total power input	(2)	kW	22,80	22,80	26,60	26,60
EER	(2)	kW/kW	24,52	27,68	25,13	26,92
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN COOLING						
Glycol	(1)	%	30	30	30	30
Water flow	(1)	l/s	24,68	27,86	29,52	31,61
Pressure drop at the heat exchanger	(1)	kPa	59,2	75,4	84,7	97,1
REFRIGERANT CIRCUIT						
Compressors nr.		N*	6	6	6	6
Number of capacity steps		N*	6	6	6	6
No. Circuits		N*	2	2	3	2
Regulation			STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	17	17	17	17
Refrigerant			R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	67,5	72,0	73,8	73,8
Oil charge		kg	36,6	36,6	36,6	36,6
FANS						
Quantity		N*	12	12	14	14
Air flow		m ³ /s	64,74	64,74	75,53	75,53
Total fans power input		kW	22,80	22,80	26,60	26,60
NOISE LEVEL						
Total sound Pressure	(3)	dB(A)	63	63	64	64
Total sound power level in cooling	(4)	dB(A)	96	96	97	97
SIZE AND WEIGHT						
A	(5)	mm	7430	7430	8605	8605
B	(5)	mm	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560
Operating weight	(5)	kg	6060	6110	6670	6700

Notes:

1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 30%.

2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 30%.

3 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.

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

5 Unit in standard configuration, without optional accessories.

- Not available

[SI System]

NX2-FC-G06 /A		0384	0414	0434	0464	0494	0524	0554	0594	0624	0685	
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												
MECHANICAL COOLING (GROSS VALUE)												
Cooling capacity	(1)	kW	295,4	317,9	339,8	361,4	382,6	407,8	432,8	462,7	492,9	535,6
Compressor power input	(1)	kW	65,94	68,65	71,57	74,64	77,81	84,19	90,74	94,92	99,18	107,0
Total power input	(1)	kW	76,10	80,50	85,20	89,90	94,80	101,2	107,7	113,6	119,6	130,8
EER	(1)	kW/kW	3,882	3,949	3,988	4,020	4,036	4,030	4,019	4,073	4,121	4,095
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)												
Cooling capacity FC	(2)	kW	131,2	147,8	163,6	177,2	192,0	199,4	205,4	222,3	240,2	268,8
Cooling capacity FC / Nominal cooling capacity	(2)	%	44	46	48	49	50	49	47	48	49	50
TOTAL FREE-COOLING (GROSS VALUE)												
Total free-cooling temperature	(2)	°C	2,5	3,1	3,5	3,8	4,0	3,7	3,4	3,5	3,7	4,0
Cooling capacity	(2)	kW	295,4	317,9	339,8	361,4	382,6	407,8	432,8	462,7	492,9	535,6
Total power input	(2)	kW	10,20	11,90	13,60	15,30	17,00	17,00	17,00	18,70	20,40	23,80
EER	(2)	kW/kW	28,96	26,71	24,99	23,62	22,51	23,99	25,46	24,74	24,16	22,50
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Glycol	(1)	%	30	30	30	30	30	30	30	30	30	30
Water flow	(1)	l/s	13,04	14,04	15,00	15,96	16,89	18,01	19,11	20,43	21,76	23,65
Pressure drop at the heat exchanger	(1)	kPa	44,6	51,7	59,0	68,1	77,4	87,0	96,6	106,2	115,8	125,4
REFRIGERANT CIRCUIT												
Compressors nr.		N*	4	4	4	4	4	4	4	4	4	5
Number of capacity steps		N*	4	4	4	4	4	4	4	4	4	5
No. Circuits		N*	2	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25	20
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	36,0	40,5	46,8	58,5	60,3	60,3	63,0	69,3	72,9	75,6
Oil charge		kg	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	30,5
FANS												
Quantity		N*	6	7	8	9	10	10	10	11	12	14
Air flow		m³/s	32,37	37,76	43,16	48,55	53,95	53,95	53,95	59,34	64,74	75,53
Total fans power input		kW	10,20	11,90	13,60	15,30	17,00	17,00	17,00	18,70	20,40	23,80
NOISE LEVEL												
Total sound Pressure	(3)	dB(A)	63	63	64	63	64	64	64	64	65	65
Total sound power level in cooling	(4)	dB(A)	95	95	96	96	97	97	97	97	98	98
SIZE AND WEIGHT												
A	(5)	mm	3905	5080	5080	6255	6255	6255	6255	7430	7430	8605
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
Operating weight	(5)	kg	3160	3580	3770	4600	4790	4820	4840	5220	5400	6140

Notes:

1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 30%.

2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 30%.

3 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.

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

5 Unit in standard configuration, without optional accessories.

- Not available

[SI System]

NX2-FC-G06 /A		0746	0836	0866	0926	
Power supply		V/ph/Hz 400/3/50 400/3/50 400/3/50 400/3/50				
PERFORMANCE						
MECHANICAL COOLING (GROSS VALUE)						
Cooling capacity	(1)	kW	569,3	654,4	679,3	728,5
Compressor power input	(1)	kW	118,8	133,8	140,3	153,6
Total power input	(1)	kW	142,6	161,0	167,5	180,8
EER	(1)	kW/kW	3,992	4,065	4,056	4,029
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)						
Cooling capacity FC	(2)	kW	277,5	318,0	325,7	334,7
Cooling capacity FC / Nominal cooling capacity	(2)	%	49	49	48	46
TOTAL FREE-COOLING (GROSS VALUE)						
Total free-cooling temperature	(2)	°C	3,7	3,7	3,5	2,9
Cooling capacity	(2)	kW	569,3	654,4	679,3	728,5
Total power input	(2)	kW	23,80	27,20	27,20	27,20
EER	(2)	kW/kW	23,92	24,06	24,97	26,78
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN COOLING						
Glycol	(1)	%	30	30	30	30
Water flow	(1)	l/s	25,14	28,89	30,00	32,17
Pressure drop at the heat exchanger	(1)	kPa	61,4	81,1	87,5	101
REFRIGERANT CIRCUIT						
Compressors nr.		N*	6	6	6	6
Number of capacity steps		N*	6	6	6	6
No. Circuits		N*	2	2	3	2
Regulation			STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	17	17	17	17
Refrigerant			R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	77,4	80,1	80,1	80,1
Oil charge		kg	36,6	36,6	36,6	36,6
FANS						
Quantity		N*	14	16	16	16
Air flow		m ³ /s	75,53	86,32	86,32	86,32
Total fans power input		kW	23,80	27,20	27,20	27,20
NOISE LEVEL						
Total sound Pressure	(3)	dB(A)	65	65	66	66
Total sound power level in cooling	(4)	dB(A)	98	98	99	99
SIZE AND WEIGHT						
A	(5)	mm	8605	9780	9780	9780
B	(5)	mm	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560
Operating weight	(5)	kg	6610	7170	7180	7210

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 30%.
 - 2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 30%.
 - 3 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.
 - 4 Sound power on the basis of measurements taken in compliance with ISO 9614.
 - 5 Unit in standard configuration, without optional accessories.
- Not available

[SI System]

NX2-FC-G06 /SL-K		0384	0414	0434	0464	0494	0524	0554	0594	0624	0685	
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										
PERFORMANCE												
MECHANICAL COOLING (GROSS VALUE)												
Cooling capacity	(1)	kW	291,9	307,4	329,5	345,0	360,2	396,1	419,5	442,7	478,9	510,2
Compressor power input	(1)	kW	67,62	73,80	76,72	82,90	89,29	90,11	97,37	104,8	106,0	119,7
Total power input	(1)	kW	75,79	81,99	86,06	92,26	98,66	101,8	109,1	116,5	120,0	133,7
EER	(1)	kW/kW	3,851	3,749	3,827	3,738	3,649	3,891	3,845	3,800	3,991	3,816
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)												
Cooling capacity FC	(2)	kW	120,1	121,9	136,6	138,6	141,8	168,4	171,8	176,5	202,7	207,1
Cooling capacity FC / Nominal cooling capacity	(2)	%	41	40	41	40	39	43	41	40	42	41
TOTAL FREE-COOLING (GROSS VALUE)												
Total free-cooling temperature	(2)	°C	1,4	0,9	1,5	1,1	0,8	1,9	1,4	0,9	1,8	1,2
Cooling capacity	(2)	kW	291,9	307,4	329,5	345,0	360,2	396,1	419,5	442,7	478,9	510,2
Total power input	(2)	kW	8,190	8,190	9,360	9,360	9,360	11,70	11,70	11,70	14,00	14,00
EER	(2)	kW/kW	35,64	37,53	35,20	36,86	38,48	33,85	35,85	37,84	34,21	36,44
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Glycol	(1)	%	30	30	30	30	30	30	30	30	30	30
Water flow	(1)	l/s	12,89	13,57	14,55	15,23	15,90	17,49	18,52	19,55	21,14	22,53
Pressure drop at the heat exchanger	(1)	kPa	43,6	48,3	55,5	34,7	37,8	41,5	46,6	47,7	55,9	63,4
REFRIGERANT CIRCUIT												
Compressors nr.		N*	4	4	4	4	4	4	4	4	4	5
Number of capacity steps		N*	4	4	4	4	4	4	4	4	4	5
No. Circuits		N*	2	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25	20
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	37,8	42,3	45,0	46,8	46,8	51,3	54,0	59,4	69,3	71,1
Oil charge		kg	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	30,5
FANS												
Quantity		N*	7	7	8	8	8	10	10	10	12	12
Air flow		m ³ /s	29,11	29,11	33,26	33,26	33,26	41,58	41,58	41,58	49,90	49,90
Total fans power input		kW	8,19	8,19	9,36	9,36	9,36	11,70	11,70	11,70	14,04	14,04
NOISE LEVEL												
Total sound Pressure	(3)	dB(A)	54	54	54	55	56	55	55	55	56	57
Total sound power level in cooling	(4)	dB(A)	86	86	86	87	88	88	88	88	89	90
SIZE AND WEIGHT												
A	(5)	mm	5080	5080	5080	5080	5080	6255	6255	6255	7430	7430
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
Operating weight	(5)	kg	3540	3590	3780	4160	4200	4810	4840	4850	5390	5600

Notes:

1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 30%.

2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 30%.

3 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.

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

5 Unit in standard configuration, without optional accessories.

- Not available

[SI System]

NX2-FC-G06 /SL-K		0746	0836	0866	0926	
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
MECHANICAL COOLING (GROSS VALUE)						
Cooling capacity	(1)	kW	552,8	635,6	659,1	705,1
Compressor power input	(1)	kW	127,2	143,1	150,3	165,0
Total power input	(1)	kW	143,6	161,8	169,0	183,7
EER	(1)	kW/kW	3,850	3,928	3,900	3,838
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)						
Cooling capacity FC	(2)	kW	235,5	269,8	267,5	279,0
Cooling capacity FC / Nominal cooling capacity	(2)	%	43	42	41	40
TOTAL FREE-COOLING (GROSS VALUE)						
Total free-cooling temperature	(2)	°C	1,9	1,9	1,2	0,8
Cooling capacity	(2)	kW	552,8	635,6	659,1	705,1
Total power input	(2)	kW	16,40	18,70	18,70	18,70
EER	(2)	kW/kW	33,71	33,99	35,25	37,71
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN COOLING						
Glycol	(1)	%	30	30	30	30
Water flow	(1)	l/s	24,41	28,07	29,10	31,13
Pressure drop at the heat exchanger	(1)	kPa	57,9	76,6	82,3	94,2
REFRIGERANT CIRCUIT						
Compressors nr.		N°	6	6	6	6
Number of capacity steps		N°	6	6	6	6
No. Circuits		N°	2	2	3	2
Regulation			STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	17	17	17	17
Refrigerant			R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	73,8	77,4	77,4	77,4
Oil charge		kg	36,6	36,6	36,6	36,6
FANS						
Quantity		N°	14	16	16	16
Air flow		m³/s	58,21	66,53	66,53	66,53
Total fans power input		kW	16,38	18,72	18,72	18,72
NOISE LEVEL						
Total sound Pressure	(3)	dB(A)	57	57	57	57
Total sound power level in cooling	(4)	dB(A)	90	90	90	90
SIZE AND WEIGHT						
A	(5)	mm	8605	9780	9780	9780
B	(5)	mm	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560
Operating weight	(5)	kg	6610	7160	7180	7210

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 30%.
 - 2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 30%.
 - 3 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.
 - 4 Sound power on the basis of measurements taken in compliance with ISO 9614.
 - 5 Unit in standard configuration, without optional accessories.
- Not available

[SI System]

NX2-FC-G06 /SL-A		0384	0414	0434	0464	0494	0524	0554	0594	0624	0685	
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										
PERFORMANCE												
MECHANICAL COOLING (GROSS VALUE)												
Cooling capacity	(1)	kW	297,4	313,6	329,5	356,0	372,3	396,1	419,5	454,5	478,9	521,4
Compressor power input	(1)	kW	64,97	70,75	76,72	77,36	83,04	90,11	97,37	98,99	106,0	114,0
Total power input	(1)	kW	71,80	77,50	83,50	85,90	91,50	98,60	105,9	109,2	116,2	125,9
EER	(1)	kW/kW	4,142	4,046	3,946	4,144	4,069	4,017	3,961	4,162	4,121	4,141
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)												
Cooling capacity FC	(2)	kW	131,0	138,4	141,2	160,7	169,2	174,8	179,3	200,2	210,4	232,0
Cooling capacity FC / Nominal cooling capacity	(2)	%	44	44	43	45	45	44	43	44	44	44
TOTAL FREE-COOLING (GROSS VALUE)												
Total free-cooling temperature	(2)	°C	2,4	2,4	2,0	2,7	2,8	2,4	2,0	2,4	2,3	2,5
Cooling capacity	(2)	kW	297,4	313,6	329,5	356,0	372,3	396,1	419,5	454,5	478,9	521,4
Total power input	(2)	kW	6,800	6,800	6,800	8,500	8,500	8,500	8,500	10,20	10,20	11,90
EER	(2)	kW/kW	43,74	46,12	48,46	41,88	43,80	46,60	49,35	44,56	46,95	43,82
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Glycol	(1)	%	30	30	30	30	30	30	30	30	30	30
Water flow	(1)	l/s	13,13	13,85	14,55	15,72	16,44	17,49	18,52	20,07	21,14	23,02
Pressure drop at the heat exchanger	(1)	kPa	45,2	50,3	55,5	37,0	40,4	41,5	46,6	50,3	55,9	66,2
REFRIGERANT CIRCUIT												
Compressors nr.		N*	4	4	4	4	4	4	4	4	4	5
Number of capacity steps		N*	4	4	4	4	4	4	4	4	4	5
No. Circuits		N*	2	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25	20
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	42,3	42,3	45,0	60,3	60,3	59,4	63,0	69,3	71,1	73,8
Oil charge		kg	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	30,5
FANS												
Quantity		N*	8	8	8	10	10	10	10	12	12	14
Air flow		m ³ /s	33,26	33,26	33,26	41,58	41,58	41,58	41,58	49,90	49,90	58,21
Total fans power input		kW	6,80	6,80	6,80	8,50	8,50	8,50	8,50	10,20	10,20	11,90
NOISE LEVEL												
Total sound Pressure	(3)	dB(A)	55	55	55	55	55	55	55	56	56	56
Total sound power level in cooling	(4)	dB(A)	87	87	87	88	88	88	88	89	89	89
SIZE AND WEIGHT												
A	(5)	mm	5080	5080	5080	6255	6255	6255	6255	7430	7430	8605
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
Operating weight	(5)	kg	3670	3720	3770	4750	4790	4820	4840	5370	5390	6140

Notes:

1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 30%.

2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 30%.

3 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.

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

5 Unit in standard configuration, without optional accessories.

- Not available

[SI System]

NX2-FC-G06 /SL-A		0746 0836	
Power supply		V/ph/Hz	400/3/50 400/3/50
PERFORMANCE			
MECHANICAL COOLING (GROSS VALUE)			
Cooling capacity	(1)	kW	552,8 635,6
Compressor power input	(1)	kW	127,2 143,1
Total power input	(1)	kW	139,1 156,7
EER	(1)	kW/kW	3,974 4,056
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)			
Cooling capacity FC	(2)	kW	243,0 280,0
Cooling capacity FC / Nominal cooling capacity	(2)	%	44 44
TOTAL FREE-COOLING (GROSS VALUE)			
Total free-cooling temperature	(2)	°C	2,3 2,4
Cooling capacity	(2)	kW	552,8 635,6
Total power input	(2)	kW	11,90 13,60
EER	(2)	kW/kW	46,45 46,74
EXCHANGERS			
HEAT EXCHANGER USER SIDE IN COOLING			
Glycol	(1)	%	30 30
Water flow	(1)	l/s	24,41 28,07
Pressure drop at the heat exchanger	(1)	kPa	57,9 76,6
REFRIGERANT CIRCUIT			
Compressors nr.		N*	6 6
Number of capacity steps		N*	6 6
No. Circuits		N*	2 2
Regulation			STEPS STEPS
Min. capacity step		%	17 17
Refrigerant			R454B R454B
Theoretical refrigerant charge		kg	75,6 77,4
Oil charge		kg	36,6 36,6
FANS			
Quantity		N*	14 16
Air flow		m ³ /s	58,21 66,53
Total fans power input		kW	11,90 13,60
NOISE LEVEL			
Total sound Pressure	(3)	dB(A)	57 57
Total sound power level in cooling	(4)	dB(A)	90 90
SIZE AND WEIGHT			
A	(5)	mm	8605 9780
B	(5)	mm	2260 2260
H	(5)	mm	2560 2560
Operating weight	(5)	kg	6610 7160

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 30%.
 - 2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 30%.
 - 3 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.
 - 4 Sound power on the basis of measurements taken in compliance with ISO 9614.
 - 5 Unit in standard configuration, without optional accessories.
- Not available

[SI System]

NX2-FC-G06 /NG /K		0384	0414	0434	0464	0494	0524	0554	0594	0624	0685	
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												
MECHANICAL COOLING (GROSS VALUE)												
Cooling capacity	(1)	kW	303,4	319,8	343,3	359,8	383,0	407,6	431,7	463,6	495,4	528,2
Compressor power input	(1)	kW	66,30	72,25	74,72	80,61	83,15	90,21	97,47	101,1	104,9	118,2
Total power input	(1)	kW	77,70	83,70	88,00	93,90	98,30	105,4	112,7	118,2	123,9	137,2
EER	(1)	kW/kW	3,905	3,821	3,901	3,832	3,896	3,867	3,831	3,922	3,998	3,850
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)												
Cooling capacity FC	(2)	kW	110,4	112,6	126,0	127,9	141,9	142,8	146,9	165,3	179,2	184,0
Cooling capacity FC / Nominal cooling capacity	(2)	%	36	35	37	36	37	35	34	36	36	35
TOTAL FREE-COOLING (GROSS VALUE)												
Total free-cooling temperature	(2)	°C	-0,5	-1,0	-0,3	-0,9	-0,2	-1,1	-1,6	-0,8	-0,6	-1,2
Cooling capacity	(2)	kW	303,4	319,8	343,3	359,8	383,0	407,6	431,7	463,6	495,4	528,2
Total power input	(2)	kW	13,40	13,40	15,30	15,30	19,20	19,20	19,20	21,10	23,00	23,00
EER	(2)	kW/kW	22,64	23,87	22,44	23,52	19,95	21,23	22,48	21,97	21,54	22,97
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Glycol	(1)	%	0	0	0	0	0	0	0	0	0	0
Water flow	(1)	l/s	12,10	12,75	13,69	14,35	15,27	16,25	17,22	18,49	19,76	21,07
Pressure drop at the heat exchanger	(1)	kPa	55,2	61,3	70,7	58,2	65,9	71,6	80,3	65,6	74,9	85,1
REFRIGERANT CIRCUIT												
Compressors nr.		N*	4	4	4	4	4	4	4	4	4	5
Number of capacity steps		N*	4	4	4	4	4	4	4	4	4	5
No. Circuits		N*	2	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25	20
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	36,0	40,5	46,8	46,8	50,4	52,2	57,6	59,4	67,5	67,5
Oil charge		kg	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	30,5
FANS												
Quantity		N*	6	6	7	7	8	8	8	9	10	10
Air flow		m³/s	32,37	32,37	37,76	37,76	43,16	43,16	43,16	48,55	53,95	53,95
Total fans power input		kW	11,40	11,40	13,30	13,30	15,20	15,20	15,20	17,10	19,00	19,00
NOISE LEVEL												
Total sound Pressure	(3)	dB(A)	62	62	62	62	62	62	62	62	63	63
Total sound power level in cooling	(4)	dB(A)	94	94	94	95	95	95	95	95	96	96
SIZE AND WEIGHT												
A	(5)	mm	5080	5080	5080	6255	6255	6255	6255	6255	6255	6255
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
Operating weight	(5)	kg	3480	3540	3870	4360	4600	4630	4650	5000	5170	5380

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 0%.
 - 2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 0%.
 - 3 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.
 - 4 Sound power on the basis of measurements taken in compliance with ISO 9614.
 - 5 Unit in standard configuration, without optional accessories.
- Not available

[SI System]

NX2-FC-G06 /NG /K		0746	0836	0866	0926	
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
MECHANICAL COOLING (GROSS VALUE)						
Cooling capacity	(1)	kW	574,1	648,0	686,6	735,3
Compressor power input	(1)	kW	124,7	146,2	146,4	160,6
Total power input	(1)	kW	147,5	169,0	173,0	187,2
EER	(1)	kW/kW	3,892	3,834	3,969	3,928
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)						
Cooling capacity FC	(2)	kW	209,0	227,4	283,1	257,9
Cooling capacity FC / Nominal cooling capacity	(2)	%	36	35	41	35
TOTAL FREE-COOLING (GROSS VALUE)						
Total free-cooling temperature	(2)	°C	0,1	-1,1	1,4	-1,1
Cooling capacity	(2)	kW	574,1	648,0	686,6	735,3
Total power input	(2)	kW	28,80	28,80	37,60	37,60
EER	(2)	kW/kW	19,93	22,50	18,26	19,56
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN COOLING						
Glycol	(1)	%	0	0	0	0
Water flow	(1)	l/s	24,17	25,85	27,38	29,33
Pressure drop at the heat exchanger	(1)	kPa	67,4	77,0	74,8	85,8
REFRIGERANT CIRCUIT						
Compressors nr.		N°	6	6	6	6
Number of capacity steps		N°	6	6	6	6
No. Circuits		N°	2	2	3	2
Regulation			STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	17	17	17	17
Refrigerant			R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	67,5	72,0	73,8	73,8
Oil charge		kg	36,6	36,6	36,6	36,6
FANS						
Quantity		N°	12	12	14	14
Air flow		m³/s	64,74	64,74	75,53	75,53
Total fans power input		kW	22,80	22,80	26,60	26,60
NOISE LEVEL						
Total sound Pressure	(3)	dB(A)	63	63	64	64
Total sound power level in cooling	(4)	dB(A)	96	96	97	97
SIZE AND WEIGHT						
A	(5)	mm	7430	7430	8605	8605
B	(5)	mm	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560
Operating weight	(5)	kg	6530	6580	7310	7340

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 0%.
 - 2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 0%.
 - 3 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.
 - 4 Sound power on the basis of measurements taken in compliance with ISO 9614.
 - 5 Unit in standard configuration, without optional accessories.
- Not available

[SI System]

NX2-FC-G06 /NG /A		0384	0414	0434	0464	0494	0524	0554	0594	0624	0685	
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												
MECHANICAL COOLING (GROSS VALUE)												
Cooling capacity	(1)	kW	303,4	326,5	349,0	371,1	392,9	418,9	444,5	475,2	506,2	550,1
Compressor power input	(1)	kW	66,30	69,02	71,95	75,04	78,23	84,64	91,22	95,43	99,71	107,5
Total power input	(1)	kW	76,50	80,90	85,60	90,30	95,20	101,6	108,2	114,1	120,1	131,3
EER	(1)	kW/kW	3,966	4,036	4,077	4,110	4,127	4,123	4,108	4,165	4,215	4,190
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)												
Cooling capacity FC	(2)	kW	116,3	129,1	138,9	154,8	164,9	171,3	177,2	188,8	210,1	231,4
Cooling capacity FC / Nominal cooling capacity	(2)	%	38	40	40	42	42	41	40	40	42	42
TOTAL FREE-COOLING (GROSS VALUE)												
Total free-cooling temperature	(2)	°C	0,4	0,8	0,9	1,6	1,7	1,3	1,0	0,9	1,5	1,7
Cooling capacity	(2)	kW	303,4	326,5	349,0	371,1	392,9	418,9	444,5	475,2	506,2	550,1
Total power input	(2)	kW	12,20	14,90	17,60	19,30	21,00	21,00	21,00	24,70	26,40	34,80
EER	(2)	kW/kW	24,87	21,91	19,83	19,23	18,71	19,95	21,17	19,24	19,17	15,81
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Glycol	(1)	%	0	0	0	0	0	0	0	0	0	0
Water flow	(1)	l/s	12,10	13,02	13,92	14,80	15,67	16,71	17,73	18,95	20,19	21,94
Pressure drop at the heat exchanger	(1)	kPa	55,2	63,9	73,1	46,6	52,2	56,4	63,5	68,9	60,7	64,2
REFRIGERANT CIRCUIT												
Compressors nr.		N*	4	4	4	4	4	4	4	4	4	5
Number of capacity steps		N*	4	4	4	4	4	4	4	4	4	5
No. Circuits		N*	2	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25	20
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	36,0	40,5	46,8	58,5	60,3	60,3	63,0	69,3	72,9	75,6
Oil charge		kg	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	30,5
FANS												
Quantity		N*	6	7	8	9	10	10	10	11	12	14
Air flow		m³/s	32,37	37,76	43,16	48,55	53,95	53,95	53,95	59,34	64,74	75,53
Total fans power input		kW	10,20	11,90	13,60	15,30	17,00	17,00	17,00	18,70	20,40	23,80
NOISE LEVEL												
Total sound Pressure	(3)	dB(A)	63	63	64	63	64	64	64	64	65	65
Total sound power level in cooling	(4)	dB(A)	95	95	96	96	97	97	97	97	98	98
SIZE AND WEIGHT												
A	(5)	mm	5080	5080	5080	6255	6255	6255	6255	7430	7430	8605
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
Operating weight	(5)	kg	3470	3830	4060	4910	5100	5120	5140	5580	5840	6730

Notes:

1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 0%.

2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 0%.

3 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.

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

5 Unit in standard configuration, without optional accessories.

- Not available

[SI System]

NX2-FC-G06 /NG /A		0746	0836	0866	0926
Power supply		V/ph/Hz 400/3/50 400/3/50 400/3/50 400/3/50			
PERFORMANCE					
MECHANICAL COOLING (GROSS VALUE)					
Cooling capacity	(1)	kW	584,7	672,0	697,7 748,2
Compressor power input	(1)	kW	119,4	134,5	141,0 154,4
Total power input	(1)	kW	143,2	161,7	168,2 181,6
EER	(1)	kW/kW	4,083	4,156	4,148 4,120
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)					
Cooling capacity FC	(2)	kW	235,4	270,9	276,7 284,6
Cooling capacity FC / Nominal cooling capacity	(2)	%	40	40	40 38
TOTAL FREE-COOLING (GROSS VALUE)					
Total free-cooling temperature	(2)	°C	1,4	1,1	0,9 0,2
Cooling capacity	(2)	kW	584,7	672,0	697,7 748,2
Total power input	(2)	kW	34,80	38,20	38,20 38,20
EER	(2)	kW/kW	16,80	17,59	18,26 19,59
EXCHANGERS					
HEAT EXCHANGER USER SIDE IN COOLING					
Glycol	(1)	%	0	0	0 0
Water flow	(1)	l/s	24,17	26,80	27,83 29,84
Pressure drop at the heat exchanger	(1)	kPa	58,3	71,7	77,3 88,9
REFRIGERANT CIRCUIT					
Compressors nr.		N°	6	6	6 6
Number of capacity steps		N°	6	6	6 6
No. Circuits		N°	2	2	3 2
Regulation			STEPS	STEPS	STEPS STEPS
Min. capacity step		%	17	17	17 17
Refrigerant			R454B	R454B	R454B R454B
Theoretical refrigerant charge		kg	77,4	80,1	80,1 80,1
Oil charge		kg	36,6	36,6	36,6 36,6
FANS					
Quantity		N°	14	16	16 16
Air flow		m³/s	75,53	86,32	86,32 86,32
Total fans power input		kW	23,80	27,20	27,20 27,20
NOISE LEVEL					
Total sound Pressure	(3)	dB(A)	65	65	66 66
Total sound power level in cooling	(4)	dB(A)	98	98	99 99
SIZE AND WEIGHT					
A	(5)	mm	8605	9780	9780 9780
B	(5)	mm	2260	2260	2260 2260
H	(5)	mm	2560	2560	2560 2560
Operating weight	(5)	kg	7260	7810	7830 7860

Notes:

1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 0%.

2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 0%.

3 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.

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

5 Unit in standard configuration, without optional accessories.

- Not available

[SI System]

NX2-FC-G06 /NG /SL-K		0384	0414	0434	0464	0494	0524	0554	0594	0624	0685	
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										
PERFORMANCE												
MECHANICAL COOLING (GROSS VALUE)												
Cooling capacity	(1)	kW	299,8	315,7	338,4	354,3	369,9	406,8	430,8	454,7	491,8	524,0
Compressor power input	(1)	kW	67,98	74,20	77,13	83,35	89,77	90,59	97,89	105,4	106,6	120,3
Total power input	(1)	kW	76,19	82,39	86,46	92,66	99,16	102,3	109,6	117,1	120,6	134,3
EER	(1)	kW/kW	3,934	3,831	3,912	3,822	3,729	3,977	3,931	3,883	4,078	3,902
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)												
Cooling capacity FC	(2)	kW	108,2	110,3	121,9	124,2	127,4	151,1	154,9	158,9	178,8	182,8
Cooling capacity FC / Nominal cooling capacity	(2)	%	36	35	36	35	34	37	36	35	36	35
TOTAL FREE-COOLING (GROSS VALUE)												
Total free-cooling temperature	(2)	°C	-0,6	-1,2	-0,7	-1,1	-1,4	-0,2	-0,7	-1,2	-0,5	-1,2
Cooling capacity	(2)	kW	299,8	315,7	338,4	354,3	369,9	406,8	430,8	454,7	491,8	524,0
Total power input	(2)	kW	10,20	10,20	11,40	11,40	11,40	13,70	15,70	15,70	18,00	18,00
EER	(2)	kW/kW	29,39	30,95	29,68	31,08	32,45	29,69	27,44	28,96	27,32	29,11
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Glycol	(1)	%	0	0	0	0	0	0	0	0	0	0
Water flow	(1)	l/s	11,96	12,59	13,49	14,13	14,75	16,22	17,18	18,13	19,61	20,90
Pressure drop at the heat exchanger	(1)	kPa	53,9	59,8	68,7	56,4	61,5	53,2	59,7	63,1	73,8	83,8
REFRIGERANT CIRCUIT												
Compressors nr.		N*	4	4	4	4	4	4	4	4	4	5
Number of capacity steps		N*	4	4	4	4	4	4	4	4	4	5
No. Circuits		N*	2	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25	20
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	37,8	42,3	45,0	46,8	46,8	51,3	54,0	59,4	69,3	71,1
Oil charge		kg	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	30,5
FANS												
Quantity		N*	7	7	8	8	8	10	10	10	12	12
Air flow		m³/s	29,11	29,11	33,26	33,26	33,26	41,58	41,58	41,58	49,90	49,90
Total fans power input		kW	8,19	8,19	9,36	9,36	9,36	11,70	11,70	11,70	14,04	14,04
NOISE LEVEL												
Total sound Pressure	(3)	dB(A)	54	54	54	54	55	55	55	55	56	57
Total sound power level in cooling	(4)	dB(A)	86	86	86	87	88	88	88	88	89	90
SIZE AND WEIGHT												
A	(5)	mm	5080	5080	5080	6255	6255	6255	6255	6255	7430	7430
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
Operating weight	(5)	kg	3780	3830	4020	4500	4550	5060	5140	5150	5730	5940

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 0%.
 - 2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 0%.
 - 3 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.
 - 4 Sound power on the basis of measurements taken in compliance with ISO 9614.
 - 5 Unit in standard configuration, without optional accessories.
- Not available

[SI System]

NX2-FC-G06 /NG /SL-K		0746	0836	0866	0926	
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
MECHANICAL COOLING (GROSS VALUE)						
Cooling capacity	(1)	kW	567,7	652,8	676,9	724,1
Compressor power input	(1)	kW	127,9	143,9	151,1	165,9
Total power input	(1)	kW	144,3	162,6	169,8	184,6
EER	(1)	kW/kW	3,934	4,015	3,986	3,923
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)						
Cooling capacity FC	(2)	kW	203,5	239,0	238,4	250,4
Cooling capacity FC / Nominal cooling capacity	(2)	%	36	37	35	35
TOTAL FREE-COOLING (GROSS VALUE)						
Total free-cooling temperature	(2)	°C	-0,1	-0,4	-1,0	-1,4
Cooling capacity	(2)	kW	567,7	652,8	676,9	724,1
Total power input	(2)	kW	20,40	24,70	24,70	29,70
EER	(2)	kW/kW	27,83	26,43	27,40	24,38
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN COOLING						
Glycol	(1)	%	0	0	0	0
Water flow	(1)	l/s	24,17	26,03	27,00	28,88
Pressure drop at the heat exchanger	(1)	kPa	67,4	78,2	84,1	83,2
REFRIGERANT CIRCUIT						
Compressors nr.		N*	6	6	6	6
Number of capacity steps		N*	6	6	6	6
No. Circuits		N*	2	2	3	2
Regulation			STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	17	17	17	17
Refrigerant			R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	73,8	77,4	77,4	77,4
Oil charge		kg	36,6	36,6	36,6	36,6
FANS						
Quantity		N*	14	16	16	16
Air flow		m ³ /s	58,21	66,53	66,53	66,53
Total fans power input		kW	16,38	18,72	18,72	18,72
NOISE LEVEL						
Total sound Pressure	(3)	dB(A)	57	57	57	57
Total sound power level in cooling	(4)	dB(A)	90	90	90	90
SIZE AND WEIGHT						
A	(5)	mm	8605	9780	9780	9780
B	(5)	mm	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560
Operating weight	(5)	kg	7090	7660	7680	7850

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 0%.
 - 2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 0%.
 - 3 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.
 - 4 Sound power on the basis of measurements taken in compliance with ISO 9614.
 - 5 Unit in standard configuration, without optional accessories.
- Not available

[SI System]

NX2-FC-G06 /NG /SL-A		0384	0414	0434	0464	0494	0524	0554	0594	0624	0685	
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										
PERFORMANCE												
MECHANICAL COOLING (GROSS VALUE)												
Cooling capacity	(1)	kW	305,5	322,1	338,4	365,6	382,3	406,8	430,8	466,8	491,8	535,5
Compressor power input	(1)	kW	65,32	71,13	77,13	77,77	83,49	90,59	97,89	99,52	106,6	114,7
Total power input	(1)	kW	72,10	77,90	83,90	86,30	92,00	99,10	106,4	109,7	116,8	126,6
EER	(1)	kW/kW	4,237	4,135	4,033	4,236	4,155	4,105	4,049	4,255	4,211	4,230
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)												
Cooling capacity FC	(2)	kW	116,5	122,5	125,4	141,2	150,9	155,3	160,0	175,8	183,0	206,9
Cooling capacity FC / Nominal cooling capacity	(2)	%	38	38	37	39	39	38	37	38	37	39
TOTAL FREE-COOLING (GROSS VALUE)												
Total free-cooling temperature	(2)	°C	0,3	0,2	-0,2	0,5	0,8	0,3	-0,2	0,1	-0,1	0,5
Cooling capacity	(2)	kW	305,5	322,1	338,4	365,6	382,3	406,8	430,8	466,8	491,8	535,5
Total power input	(2)	kW	8,800	8,800	8,800	10,50	12,50	12,50	12,50	14,20	14,20	15,90
EER	(2)	kW/kW	34,72	36,60	38,45	34,82	30,58	32,54	34,46	32,87	34,63	33,68
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Glycol	(1)	%	0	0	0	0	0	0	0	0	0	0
Water flow	(1)	l/s	12,18	12,85	13,49	14,58	15,25	16,22	17,18	18,62	19,61	21,36
Pressure drop at the heat exchanger	(1)	kPa	56,0	62,2	68,7	45,2	49,4	53,2	59,7	66,5	73,8	68,0
REFRIGERANT CIRCUIT												
Compressors nr.		N*	4	4	4	4	4	4	4	4	4	5
Number of capacity steps		N*	4	4	4	4	4	4	4	4	4	5
No. Circuits		N*	2	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25	20
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	42,3	42,3	45,0	60,3	60,3	59,4	63,0	69,3	71,1	73,8
Oil charge		kg	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	24,4	30,5
FANS												
Quantity		N*	8	8	8	10	10	10	10	12	12	14
Air flow		m ³ /s	33,26	33,26	33,26	41,58	41,58	41,58	41,58	49,90	49,90	58,21
Total fans power input		kW	6,80	6,80	6,80	8,50	8,50	8,50	8,50	10,20	10,20	11,90
NOISE LEVEL												
Total sound Pressure	(3)	dB(A)	55	55	55	55	55	55	55	56	56	56
Total sound power level in cooling	(4)	dB(A)	87	87	87	88	88	88	88	89	89	89
SIZE AND WEIGHT												
A	(5)	mm	5080	5080	5080	6255	6255	6255	6255	7430	7430	8605
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(5)	mm	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
Operating weight	(5)	kg	3910	3960	4010	5000	5100	5120	5140	5710	5730	6560

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 0%.
 - 2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 0%.
 - 3 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.
 - 4 Sound power on the basis of measurements taken in compliance with ISO 9614.
 - 5 Unit in standard configuration, without optional accessories.
- Not available

[SI System]

NX2-FC-G06 /NG /SL-A		0746	0836
Power supply		V/ph/Hz	400/3/50 400/3/50
PERFORMANCE			
MECHANICAL COOLING (GROSS VALUE)			
Cooling capacity	(1)	kW	567,7 652,8
Compressor power input	(1)	kW	127,9 143,9
Total power input	(1)	kW	139,8 157,5
EER	(1)	kW/kW	4,061 4,145
FREE-COOLING (T_{ae} = 10,0°C) (GROSS VALUE)			
Cooling capacity FC	(2)	kW	208,6 247,8
Cooling capacity FC / Nominal cooling capacity	(2)	%	37 38
TOTAL FREE-COOLING (GROSS VALUE)			
Total free-cooling temperature	(2)	°C	0,3 0,2
Cooling capacity	(2)	kW	567,7 652,8
Total power input	(2)	kW	17,90 24,60
EER	(2)	kW/kW	31,72 26,54
EXCHANGERS			
HEAT EXCHANGER USER SIDE IN COOLING			
Glycol	(1)	%	0 0
Water flow	(1)	l/s	24,17 26,03
Pressure drop at the heat exchanger	(1)	kPa	67,4 67,6
REFRIGERANT CIRCUIT			
Compressors nr.		N°	6 6
Number of capacity steps		N°	6 6
No. Circuits		N°	2 2
Regulation		STEPS STEPS	
Min. capacity step		%	17 17
Refrigerant		R454B R454B	
Theoretical refrigerant charge		kg	75,6 77,4
Oil charge		kg	36,6 36,6
FANS			
Quantity		N°	14 16
Air flow		m³/s	58,21 66,53
Total fans power input		kW	11,90 13,60
NOISE LEVEL			
Total sound Pressure	(3)	dB(A)	57 57
Total sound power level in cooling	(4)	dB(A)	90 90
SIZE AND WEIGHT			
A	(5)	mm	8605 9780
B	(5)	mm	2260 2260
H	(5)	mm	2560 2560
Operating weight	(5)	kg	7110 7810

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Source (side) heat exchanger air (in) 30,0°C; Ethylene glycol 0%.
 - 2 Plant (side) cooling exchanger water (in/out) 16,00°C/10,00°C; Ethylene glycol 0%.
 - 3 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.
 - 4 Sound power on the basis of measurements taken in compliance with ISO 9614.
 - 5 Unit in standard configuration, without optional accessories.
- Not available