

5.1 GENERAL TECHNICAL DATA

NX-N-G06/K

[SI System]

NX-N-G06/K		0604P	0704P	0804P	0904P	1004P	1104P	1204P
Power supply		V/ph/Hz	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	153,7	178,4	202,5	235,4	263,2	286,0
Total power input	(1)	kW	53,47	63,25	71,14	83,39	93,30	99,83
EER	(1)	kW/kW	2,873	2,818	2,848	2,823	2,821	2,866
ESEER	(1)	kW/kW						
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2)	kW	153,3	178,0	202,2	235,1	262,8	285,7
EER	(1)(2)	kW/kW	2,830	2,780	2,810	2,790	2,790	2,830
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-
Cooling energy class			-	-	-	-	-	-
HEATING ONLY (GROSS VALUE)								
Total heating capacity	(3)	kW	163,1	189,6	216,6	255,0	281,5	304,5
Total power input	(3)	kW	52,03	61,14	69,38	82,25	90,54	97,31
COP	(3)	kW/kW	3,137	3,103	3,121	3,098	3,110	3,129
HEATING ONLY (EN14511 VALUE)								
Total heating capacity	(3)(2)	kW	163,4	190,0	216,9	255,4	281,9	304,9
COP	(3)(2)	kW/kW	3,100	3,070	3,080	3,060	3,070	3,080
Cooling energy class			-	-	-	-	-	-
COOLING WITH PARTIAL RECOVERY								
Cooling capacity	(4)	kW	159,4	185,0	210,1	244,2	273,0	296,8
Total power input	(4)	kW	51,88	61,32	68,93	80,89	90,46	96,76
Desuperheater heating capacity	(4)	kW	40,59	49,32	56,36	63,72	72,57	78,40
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1)	l/s	7,349	8,529	9,686	11,26	12,58	13,68
Pressure drop at the heat exchanger	(1)	kPa	39,2	39,8	41,3	45,3	45,4	46,2
HEAT EXCHANGER USER SIDE IN HEATING								
Water flow	(3)	l/s	7,873	9,154	10,46	12,31	13,59	14,70
Pressure drop at the heat exchanger	(3)	kPa	45,0	45,8	48,2	54,2	52,9	46,5
PARTIAL RECOVERY USER SIDE IN REFRIGERATION								
Water flow	(4)	l/s	1,959	2,381	2,720	3,076	3,503	3,784
Pressure drop at the heat exchanger	(4)	kPa	15,7	23,1	30,2	30,7	39,8	37,1
REFRIGERANT CIRCUIT								
Compressors nr.		N°	4	4	4	4	4	4
Number of capacity steps		N°	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B
Refrigerant charge		kg	33,8	52,5	74,5	74,6	77,9	97,0
Oil charge		kg	10,8	10,8	10,8	16,0	21,2	21,2
Rc (ASHRAE)	(5)	kg/kW	0,22	0,30	0,37	0,32	0,30	0,34
FANS								
Quantity		N°	2	2	2	3	3	3
Air flow		m³/s	19,48	22,92	22,30	29,22	29,22	32,51
Fans power input		kW	2,00	2,00	2,00	2,00	2,00	2,00
NOISE LEVEL								
Sound Pressure	(6)	dB(A)	60	60	61	62	63	63
Sound power level in cooling	(7)(8)	dB(A)	92	92	93	94	95	95
Sound power level in heating	(7)(9)	dB(A)	92	92	93	94	95	95
SIZE AND WEIGHT								
A	(10)	mm	3110	4110	4110	4110	4110	5110
B	(10)	mm	2220	2220	2220	2220	2220	2220
H	(10)	mm	2150	2150	2150	2150	2150	2150
Operating weight	(10)	kg	1670	1880	2000	2280	2460	2790

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 (2011 with addendum 1).

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 made in compliance with ISO 9614.

8 Sound power level in cooling, outdoors.

9 Sound power level in heating, outdoors.

10 Unit in standard configuration/execution, without optional accessories.

- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA

NX-N-G06/LN-K

[SI System]

NX-N-G06/LN-K			0604P	0704P	0804P	0904P	1004P	1104P	1204P
Power supply			V/ph/Hz	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	146,6	167,4	192,7	224,9	247,8	271,4	291,0
Total power input	(1)	kW	53,25	64,08	73,18	84,23	94,81	101,6	111,4
EER	(1)	kW/kW	2,750	2,612	2,633	2,671	2,614	2,671	2,612
ESEER	(1)	kW/kW							
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	146,3	167,0	192,3	224,6	247,5	271,1	290,6
EER	(1)(2)	kW/kW	2,720	2,580	2,600	2,640	2,590	2,640	2,580
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-	-
Cooling energy class			-	-	-	-	-	-	-
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	155,4	180,7	208,1	239,7	266,7	291,5	309,3
Total power input	(3)	kW	48,38	57,75	65,85	76,99	85,17	91,97	98,34
COP	(3)	kW/kW	3,211	3,126	3,158	3,113	3,130	3,168	3,146
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(3)(2)	kW	155,7	181,0	208,4	240,0	267,1	291,9	309,7
COP	(3)(2)	kW/kW	3,170	3,090	3,120	3,080	3,090	3,140	3,110
Cooling energy class			-	-	-	-	-	-	-
COOLING WITH PARTIAL RECOVERY									
Cooling capacity	(4)	kW	152,1	173,7	199,9	233,4	257,1	281,6	301,9
Total power input	(4)	kW	51,55	62,00	70,78	81,53	91,74	98,30	107,7
Desuperheater heating capacity	(4)	kW	43,25	52,91	61,04	68,76	78,20	84,27	92,99
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,012	8,005	9,213	10,76	11,85	12,98	13,91
Pressure drop at the heat exchanger	(1)	kPa	35,7	35,0	37,4	41,4	40,2	36,2	41,6
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	7,503	8,722	10,05	11,57	12,88	14,07	14,93
Pressure drop at the heat exchanger	(3)	kPa	40,9	41,6	44,5	47,9	47,5	42,6	48,0
PARTIAL RECOVERY USER SIDE IN REFRIGERATION									
Water flow	(4)	l/s	2,088	2,554	2,946	3,319	3,775	4,068	4,489
Pressure drop at the heat exchanger	(4)	kPa	17,8	26,6	35,4	35,7	46,2	42,9	52,2
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
Number of capacity steps		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B
Refrigerant charge		kg	33,8	52,5	74,5	74,6	77,9	97,0	97,0
Oil charge		kg	10,8	10,8	10,8	16,0	21,2	21,2	21,2
Rc (ASHRAE)	(5)	kg/kW	0,23	0,32	0,39	0,33	0,32	0,36	0,34
FANS									
Quantity		N°	2	2	2	3	3	3	3
Air flow		m³/s	13,56	16,70	16,01	20,35	20,35	22,96	22,96
Fans power input		kW	1,20	1,20	1,20	1,20	1,20	1,20	1,20
NOISE LEVEL									
Sound Pressure	(6)	dB(A)	54	54	55	56	57	58	58
Sound power level in cooling	(7)(8)	dB(A)	86	86	87	88	89	90	90
Sound power level in heating	(7)(9)	dB(A)	87	87	88	89	90	91	91
SIZE AND WEIGHT									
A	(10)	mm	3110	4110	4110	4110	4110	5110	5110
B	(10)	mm	2220	2220	2220	2220	2220	2220	2220
H	(10)	mm	2150	2150	2150	2150	2150	2150	2150
Operating weight	(10)	kg	1720	1930	2040	2320	2510	2840	2850

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 (2011 with addendum 1).

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 made in compliance with ISO 9614.

8 Sound power level in cooling, outdoors.

9 Sound power level in heating, outdoors.

10 Unit in standard configuration/execution, without optional accessories.

- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA

NX-N-G06/SL-K

[SI System]

NX-N-G06/SL-K		0604P	0704P	0804P	0904P	1004P	1104P	1204P
Power supply		V/ph/Hz	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	142,1	168,5	193,6	222,7	245,4	269,8
Total power input	(1)	kW	54,04	64,12	73,78	82,41	93,71	103,3
EER	(1)	kW/kW	2,631	2,629	2,623	2,703	2,619	2,612
ESEER	(1)	kW/kW						
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2)	kW	141,8	168,1	193,3	222,4	245,1	269,5
EER	(1)(2)	kW/kW	2,600	2,600	2,590	2,670	2,590	2,580
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-
Cooling energy class			-	-	-	-	-	-
HEATING ONLY (GROSS VALUE)								
Total heating capacity	(3)	kW	150,6	181,4	209,8	241,4	265,7	288,9
Total power input	(3)	kW	46,89	58,37	66,45	75,29	83,51	91,86
COP	(3)	kW/kW	3,211	3,106	3,155	3,206	3,182	3,144
HEATING ONLY (EN14511 VALUE)								
Total heating capacity	(3)(2)	kW	151,0	181,7	210,2	241,8	266,1	289,2
COP	(3)(2)	kW/kW	3,180	3,070	3,120	3,170	3,140	3,090
Cooling energy class			-	-	-	-	-	-
COOLING WITH PARTIAL RECOVERY								
Cooling capacity	(4)	kW	147,4	174,8	200,9	231,1	254,6	279,9
Total power input	(4)	kW	52,27	62,06	71,39	79,72	90,62	99,93
Desuperheater heating capacity	(4)	kW	45,02	52,41	61,04	68,74	78,83	85,78
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1)	l/s	6,796	8,057	9,259	10,65	11,74	12,90
Pressure drop at the heat exchanger	(1)	kPa	33,5	35,5	37,8	40,6	39,5	35,8
HEAT EXCHANGER USER SIDE IN HEATING								
Water flow	(3)	l/s	7,270	8,757	10,13	11,65	12,83	13,94
Pressure drop at the heat exchanger	(3)	kPa	38,4	41,9	45,2	48,6	47,1	41,8
PARTIAL RECOVERY USER SIDE IN REFRIGERATION								
Water flow	(4)	l/s	2,173	2,530	2,946	3,318	3,805	4,141
Pressure drop at the heat exchanger	(4)	kPa	19,3	26,1	35,4	35,7	46,9	44,4
REFRIGERANT CIRCUIT								
Compressors nr.		N°	4	4	4	4	4	4
Number of capacity steps		N°	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B
Refrigerant charge		kg	33,8	56,1	74,5	73,9	77,1	97,0
Oil charge		kg	10,8	10,8	10,8	16,0	21,2	21,2
Rc (ASHRAE)	(5)	kg/kW	0,24	0,34	0,39	0,33	0,32	0,36
FANS								
Quantity		N°	2	3	3	3	3	4
Air flow		m³/s	10,67	17,35	16,01	18,15	18,15	21,34
Fans power input		kW	0,90	0,90	0,90	0,90	0,90	1,00
NOISE LEVEL								
Sound Pressure	(6)	dB(A)	50	51	51	52	53	54
Sound power level in cooling	(7)(8)	dB(A)	82	83	83	84	85	86
Sound power level in heating	(7)(9)	dB(A)	83	84	84	85	86	87
SIZE AND WEIGHT								
A	(10)	mm	3110	4110	4110	5110	5110	5110
B	(10)	mm	2220	2220	2220	2220	2220	2220
H	(10)	mm	2150	2150	2150	2150	2150	2150
Operating weight	(10)	kg	1720	2020	2130	2620	2790	2950

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 (2011 with addendum 1).

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 made in compliance with ISO 9614.

8 Sound power level in cooling, outdoors.

9 Sound power level in heating, outdoors.

10 Unit in standard configuration/execution, without optional accessories.

- Not available

Certified data in EUROVENT

6.1 TECHNICAL DATA SEASONAL EFFICIENCY IN HEATING (EN14825 VALUE)

NX-N-G06/K

[SI System]

NX-N-G06/K - LOW TEMPERATURE application			0604P	0704P	0804P	0904P	1004P	1104P
Power supply	(V/ph/Hz)		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	121	140	162	190	213	229
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,51	3,54	3,54	3,46	3,51	3,52
Seasonal space heating energy efficiency	(1)(2)	%	137	138	138	135	137	138
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Tipo di calcolo con portata variabile e temperatura variabile.

NX-N-G06/K - LOW TEMPERATURE application			1204P
Power supply	(V/ph/Hz)		400/3/50
WEATHER CONDITIONS - AVERAGE			
Rated heat output at Tdesignh	(1)(2)	kW	246
Bivalent temperature	(1)(2)	°C	-7
SCOP	(1)(2)		3,47
Seasonal space heating energy efficiency	(1)(2)	%	136
Seasonal space heating energy efficiency class	(1)(2)		-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Tipo di calcolo con portata variabile e temperatura variabile.

**TECHNICAL DATA SEASONAL
EFFICIENCY IN HEATING (EN14825
VALUE)**

NX-N-G06/LN-K

[SI System]

NX-N-G06/LN-K - LOW TEMPERATURE application			0604P	0704P	0804P	0904P	1004P	1104P
Power supply	(V/ph/Hz)		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	119	127	161	185	210	226
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,63	3,60	3,84	3,66	3,67	3,73
Seasonal space heating energy efficiency	(1)(2)	%	142	141	151	144	144	146
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Tipo di calcolo con portata variabile e temperatura variabile.

NX-N-G06/LN-K - LOW TEMPERATURE application			1204P
Power supply	(V/ph/Hz)		400/3/50
WEATHER CONDITIONS - AVERAGE			
Rated heat output at Tdesignh	(1)(2)	kW	242
Bivalent temperature	(1)(2)	°C	-7
SCOP	(1)(2)		3,75
Seasonal space heating energy efficiency	(1)(2)	%	147
Seasonal space heating energy efficiency class	(1)(2)		-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Tipo di calcolo con portata variabile e temperatura variabile.

**TECHNICAL DATA SEASONAL
EFFICIENCY IN HEATING (EN14825
VALUE)**

NX-N-G06/SL-K

[SI System]

NX-N-G06/SL-K - LOW TEMPERATURE application			0604P	0704P	0804P	0904P	1004P	1104P
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	118	129	162	186	207	225
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,77	3,52	3,80	3,89	3,80	3,70
Seasonal space heating energy efficiency	(1)(2)	%	148	138	149	152	149	145
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Tipo di calcolo con portata variabile e temperatura variabile.

NX-N-G06/SL-K - LOW TEMPERATURE application			1204P
Power supply		(V/ph/Hz)	400/3/50
WEATHER CONDITIONS - AVERAGE			
Rated heat output at Tdesignh	(1)(2)	kW	243
Bivalent temperature	(1)(2)	°C	-7
SCOP	(1)(2)		3,72
Seasonal space heating energy efficiency	(1)(2)	%	146
Seasonal space heating energy efficiency class	(1)(2)		-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Tipo di calcolo con portata variabile e temperatura variabile.

7.1 TECHNICAL DATA SEASONAL EFFICIENCY IN COOLING (EN14825 VALUE)

[SI System]

ENERGY EFFICIENCY

SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281) Ambient refrigeration

NX-N-G06/K			0604P	0704P	0804P	0904P	1004P	1104P	1204P			
Prated,c	(1)	kW	153,3	178,0	202,2	235,1	262,8	285,7	306,1			
SEER	(1) (2)	-	3,71	3,90	3,96	3,85	3,92	3,97	3,93			
Performance η_s	(1) (3)	%	146,0	153,0	155,0	151,0	154,0	156,0	154,0			

NX-N-G06/LN-K			0604P	0704P	0804P	0904P	1004P	1104P	1204P			
Prated,c	(1)	kW	146,3	167,0	192,3	224,6	247,5	271,1	290,6			
SEER	(1) (2)	-	3,77	3,94	3,97	3,96	3,93	3,96	3,90			
Performance η_s	(1) (3)	%	148,0	155,0	156,0	155,0	154,0	156,0	153,0			

NX-N-G06/SL-K			0604P	0704P	0804P	0904P	1004P	1104P	1204P			
Prated,c	(1)	kW	141,8	168,1	193,3	222,4	245,1	269,5	290,9			
SEER	(1) (2)	-	3,85	3,92	3,96	4,00	4,03	3,96	3,91			
Performance η_s	(1) (3)	%	151,0	154,0	155,0	157,0	158,0	155,0	154,0			

Notes:

(1) Parameter calculated according to [REGULATION (EU) N. 2016/2281]

(2) Seasonal energy efficiency ratio

(3) Seasonal space cooling energy efficiency

The units highlighted in this publication contain R454B [GWP₁₀₀ 466] fluorinated greenhouse gases.