

6.1 GENERAL TECHNICAL DATA

NX-Q-G06

[SI System]

NX-Q-G06			0604	0704	0804	0904	1004	1104	1204
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	143,9	159,6	181,2	202,6	230,4	266,0	298,3
Total power input	(1)	kW	54,98	64,32	70,66	79,45	89,22	100,2	112,3
EER	(1)	kW/kW	2,616	2,482	2,563	2,548	2,583	2,655	2,656
ESEER	(1)	kW/kW							
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	143,5	159,3	180,9	202,3	230,1	265,6	298,0
EER	(1)(2)	kW/kW	2,580	2,450	2,530	2,520	2,550	2,620	2,630
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-	-
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	157,2	174,3	196,8	220,1	250,5	288,0	323,3
Total power input	(3)	kW	53,16	59,45	66,00	72,97	84,23	95,24	106,4
COP	(3)	kW/kW	2,955	2,934	2,982	3,015	2,975	3,025	3,039
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(2)(3)	kW	157,5	174,6	197,1	220,5	250,9	288,4	323,7
COP	(2)(3)	kW/kW	2,920	2,900	2,940	2,980	2,940	2,990	3,000
COOLING WITH HEAT RECOVERY (EN 14511 VALUE)									
Cooling capacity	(2)(4)	kW	144,6	165,6	186,1	210,9	235,9	269,0	303,7
Total power input	(2)(4)	kW	47,72	54,57	61,63	68,87	76,32	88,71	99,91
Recovery heat exchanger capacity	(2)(4)	kW	188,8	216,0	243,1	274,6	306,3	350,8	395,9
TER		kW/kW	6,987	6,993	6,963	7,049	7,105	6,987	7,003
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	6,880	7,631	8,667	9,689	11,02	12,72	14,27
Pressure drop at the heat exchanger	(1)	kPa	38,6	39,6	40,3	39,4	40,9	43,6	43,5
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	7,589	8,413	9,498	10,63	12,09	13,90	15,60
Pressure drop at the heat exchanger	(3)	kPa	50,3	52,3	54,3	54,7	58,7	58,1	59,6
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	R454B
Refrigerant charge		kg	38,3	38,4	54,2	57,3	60,5	72,5	97,2
Oil charge		kg	10,8	10,8	10,8	16,0	21,2	21,2	21,2
Rc (ASHRAE)	(5)	kg/kW	0,27	0,24	0,30	0,29	0,27	0,28	0,33
NOISE LEVEL									
Sound Pressure	(6)	dB(A)	60	60	60	61	62	63	63
Sound power level in cooling	(7)(8)	dB(A)	92	92	92	93	94	95	95
Sound power level in heating	(7)(9)	dB(A)	92	92	92	93	94	95	95
SIZE AND WEIGHT									
A	(10)	mm	3110	3110	3110	4110	4110	4110	4110
B	(10)	mm	2220	2220	2220	2220	2220	2220	2220
H	(10)	mm	2150	2150	2150	2150	2150	2150	2150
Operating weight	(10)	kg	1660	1730	1850	2130	2370	2540	2680

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 (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-Q-G06 /LN

[SI System]

NX-Q-G06 /LN			0604	0704	0804	0904	1004	1104	1204
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	137,4	150,8	170,1	191,1	218,2	250,3	279,1
Total power input	(1)	kW	55,04	65,63	73,27	82,00	90,26	103,0	117,1
EER	(1)	kW/kW	2,498	2,299	2,321	2,330	2,416	2,430	2,383
ESEER	(1)	kW/kW							
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	137,0	150,5	169,7	190,8	217,9	249,9	278,8
EER	(1)(2)	kW/kW	2,470	2,270	2,300	2,310	2,390	2,400	2,360
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-	-
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	149,9	165,5	186,1	211,9	238,3	272,8	304,4
Total power input	(3)	kW	49,58	55,74	62,19	69,31	78,76	89,73	100,8
COP	(3)	kW/kW	3,022	2,971	2,992	3,058	3,024	3,041	3,020
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(2)(3)	kW	150,2	165,8	186,4	212,2	238,7	273,2	304,9
COP	(2)(3)	kW/kW	2,980	2,940	2,960	3,020	2,990	3,000	2,980
COOLING WITH HEAT RECOVERY (EN 14511 VALUE)									
Cooling capacity	(2)(4)	kW	144,8	165,7	186,3	211,1	236,1	269,3	304,1
Total power input	(2)(4)	kW	47,50	54,31	61,35	68,60	75,96	88,27	99,33
Recovery heat exchanger capacity	(2)(4)	kW	188,8	216,1	243,2	274,6	306,4	351,0	396,1
TER		kW/kW	7,023	7,031	7,000	7,080	7,143	7,027	7,050
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	6,568	7,213	8,134	9,141	10,44	11,97	13,35
Pressure drop at the heat exchanger	(1)	kPa	35,2	35,4	35,5	35,1	36,7	38,6	38,1
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	7,238	7,988	8,982	10,23	11,50	13,17	14,70
Pressure drop at the heat exchanger	(3)	kPa	45,8	47,1	48,5	50,7	53,2	52,1	52,9
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	R454B
Refrigerant charge		kg	38,3	38,4	54,2	57,3	60,5	72,5	97,2
Oil charge		kg	10,8	10,8	10,8	16,0	21,2	21,2	21,2
Rc (ASHRAE)	(5)	kg/kW	0,28	0,26	0,32	0,30	0,28	0,29	0,35
NOISE LEVEL									
Sound Pressure	(6)	dB(A)	54	54	54	55	56	57	57
Sound power level in cooling	(7)(8)	dB(A)	86	86	86	87	88	89	89
Sound power level in heating	(7)(9)	dB(A)	87	87	87	88	89	90	90
SIZE AND WEIGHT									
A	(10)	mm	3110	3110	3110	4110	4110	4110	4110
B	(10)	mm	2220	2220	2220	2220	2220	2220	2220
H	(10)	mm	2150	2150	2150	2150	2150	2150	2150
Operating weight	(10)	kg	1660	1730	1850	2130	2370	2540	2680

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 (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-Q-G06 /SL

[SI System]

NX-Q-G06 /SL			0604	0704	0804	0904	1004	1104	1204
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	136,3	153,3	176,0	192,7	216,3	250,3	282,1
Total power input	(1)	kW	54,37	63,13	70,74	81,80	89,41	101,2	115,5
EER	(1)	kW/kW	2,506	2,429	2,489	2,356	2,419	2,473	2,442
ESEER	(1)	kW/kW							
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	136,0	153,0	175,7	192,4	216,0	250,0	281,8
EER	(1)(2)	kW/kW	2,480	2,400	2,460	2,330	2,390	2,450	2,420
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-	-
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	149,5	167,3	192,9	212,8	237,7	276,8	310,1
Total power input	(3)	kW	48,36	54,65	63,18	69,95	76,93	88,12	101,1
COP	(3)	kW/kW	3,089	3,064	3,052	3,040	3,091	3,142	3,067
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(2)(3)	kW	149,8	167,6	193,2	213,1	238,1	277,2	310,6
COP	(2)(3)	kW/kW	3,050	3,030	3,010	3,000	3,050	3,100	3,030
COOLING WITH HEAT RECOVERY (EN 14511 VALUE)									
Cooling capacity	(2)(4)	kW	144,8	165,7	186,2	211,1	236,1	269,2	304,0
Total power input	(2)(4)	kW	47,48	54,37	61,53	68,63	75,93	88,35	99,48
Recovery heat exchanger capacity	(2)(4)	kW	188,8	216,1	243,1	274,6	306,4	350,9	396,0
TER		kW/kW	7,027	7,021	6,978	7,077	7,146	7,019	7,037
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	6,518	7,332	8,418	9,216	10,34	11,97	13,49
Pressure drop at the heat exchanger	(1)	kPa	34,6	36,6	38,0	35,7	36,0	38,6	38,9
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	7,214	8,075	9,312	10,27	11,47	13,36	14,97
Pressure drop at the heat exchanger	(3)	kPa	45,5	48,2	52,1	51,1	52,9	53,7	54,9
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	49,5	63,1	63,2	63,3	73,8	99,0	99,0
Oil charge		kg	10,8	10,8	10,8	16,0	21,2	21,2	21,2
Rc (ASHRAE)	(5)	kg/kW	0,37	0,42	0,36	0,33	0,34	0,40	0,35
NOISE LEVEL									
Sound Pressure	(6)	dB(A)	50	50	51	51	51	53	54
Sound power level in cooling	(7)(8)	dB(A)	82	82	83	83	83	85	86
Sound power level in heating	(7)(9)	dB(A)	83	83	84	84	84	86	87
SIZE AND WEIGHT									
A	(10)	mm	3110	3110	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	1750	1850	2070	2230	2480	2810	2930

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 (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

7.1 TECHNICAL DATA SEASONAL EFFICIENCY IN HEATING (EN14825 VALUE)

NX-Q-G06

[SI System]

NX-Q-G06 - LOW TEMPERATURE application			0604	0704	0804	0904	1004	1104
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	120	134	148	163	194	219
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,53	3,54	3,65	3,49	3,49	3,57
Seasonal space heating energy efficiency	(1)(2)	%	138	139	143	136	137	140
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-Q-G06 - LOW TEMPERATURE application			1204
Power supply	(V/ph/Hz)		400/3/50
WEATHER CONDITIONS - AVERAGE			
Rated heat output at Tdesignh	(1)(2)	kW	241
Bivalent temperature	(1)(2)	°C	-7
SCOP	(1)(2)		3,54
Seasonal space heating energy efficiency	(1)(2)	%	139
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-Q-G06 /LN

[SI System]

NX-Q-G06 /LN - LOW TEMPERATURE application			0604	0704	0804	0904	1004	1104
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	111	121	145	140	176	215
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,61	3,63	3,71	3,67	3,62	3,78
Seasonal space heating energy efficiency	(1)(2)	%	142	142	146	144	142	148
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-Q-G06 /LN - LOW TEMPERATURE application			1204
Power supply	(V/ph/Hz)		400/3/50
WEATHER CONDITIONS - AVERAGE			
Rated heat output at Tdesignh	(1)(2)	kW	240
Bivalent temperature	(1)(2)	°C	-7
SCOP	(1)(2)		3,80
Seasonal space heating energy efficiency	(1)(2)	%	149
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-Q-G06 /SL

[SI System]

NX-Q-G06 /SL - LOW TEMPERATURE application			0604	0704	0804	0904	1004	1104
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	117	133	132	143	188	215
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,85	3,92	3,62	3,62	3,86	4,00
Seasonal space heating energy efficiency	(1)(2)	%	151	154	142	142	151	157
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-Q-G06 /SL - LOW TEMPERATURE application			1204
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)		3,84
Seasonal space heating energy efficiency	(1)(2)	%	151
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.

8.1 TECHNICAL DATA SEASONAL EFFICIENCY IN COOLING (EN14825 VALUE)

[SI System]

ENERGY EFFICIENCY

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

NX-Q-G06			0604	0704	0804	0904	1004	1104	1204			
Prated,c	(1)	kW	143,5	159,3	180,9	202,3	230,1	265,6	298,0			
SEER	(1) (2)	-	3,52	3,52	3,67	3,75	3,59	3,75	3,83			
Performance η_s	(1) (3)	%	138,0	138,0	144,0	147,0	140,0	147,0	150,0			

NX-Q-G06 /LN			0604	0704	0804	0904	1004	1104	1204			
Prated,c	(1)	kW	137,0	150,5	169,7	190,8	217,9	249,9	278,8			
SEER	(1) (2)	-	3,59	3,56	3,57	3,70	3,60	3,75	3,72			
Performance η_s	(1) (3)	%	140,0	140,0	140,0	145,0	141,0	147,0	146,0			

NX-Q-G06 /SL			0604	0704	0804	0904	1004	1104	1204			
Prated,c	(1)	kW	136,0	153,0	175,7	192,4	216,0	250,0	281,8			
SEER	(1) (2)	-	3,72	3,79	3,67	3,67	3,73	3,91	3,76			
Performance η_s	(1) (3)	%	146,0	149,0	144,0	144,0	146,0	153,0	148,0			

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.