

6 GENERAL TECHNICAL DATA

Data Book

DB_CV_NX-Q-G06 0202P - 0602P_112023_EN R454B

[SI System]

NX-Q-G06		0202P 0252P 0262P 0302P 0402P 0502P 0602P							
Power supply		V/ph/Hz							
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	kW	55,80	61,47	68,70	82,11	106,2	132,3	161,8
Total power input	(1)	kW	16,44	17,86	20,70	23,86	31,12	39,38	52,53
EER	(1)	kW/kW	3,402	3,436	3,319	3,435	3,415	3,358	3,082
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	55,70	61,40	68,60	82,00	106,1	132,1	161,5
EER	(1)(2)	kW/kW	3,370	3,410	3,290	3,410	3,380	3,320	3,040
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	58,20	64,61	72,17	86,49	110,6	139,1	170,3
Total power input	(3)	kW	16,32	17,95	19,95	23,82	30,47	38,50	48,43
COP	(3)	kW/kW	3,571	3,609	3,610	3,634	3,626	3,613	3,519
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(2)(3)	kW	58,30	64,70	72,30	86,60	110,8	139,3	170,6
COP	(2)(3)	kW/kW	3,550	3,580	3,590	3,610	3,600	3,580	3,480
COOLING WITH HEAT RECOVERY (EN 14511 VALUE)									
Cooling capacity	(4)(2)	kW	56,49	61,61	70,08	83,30	107,3	133,9	169,3
Total power input	(4)(2)	kW	14,79	16,32	18,64	22,07	28,72	37,33	47,98
Recovery heat exchanger capacity	(4)(2)	kW	70,32	76,85	87,50	103,9	134,1	168,7	213,9
TER		kW/kW	8,575	8,485	8,456	8,483	8,404	8,108	7,987
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN COOLING									
Water flow	(1)	l/s	2,668	2,940	3,285	3,927	5,080	6,329	7,739
Pressure drop at the heat exchanger	(1)	kPa	14,6	17,7	15,8	17,9	20,5	24,1	29,3
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	2,809	3,119	3,484	4,175	5,340	6,712	8,218
Pressure drop at the heat exchanger	(3)	kPa	16,2	19,9	17,8	20,2	22,7	27,2	33,1
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
Number of capacity steps		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Regulation		STEPS STEPS STEPS STEPS STEPS STEPS STEPS							
Min. capacity step		%	50	50	50	50	50	50	50
Refrigerant		R454B R454B R454B R454B R454B R454B R454B							
Theoretical refrigerant charge		kg	20,6	25,6	27,8	33,4	48,2	54,4	54,9
Oil charge		kg	5,40	5,40	5,40	5,40	5,40	10,6	10,6
Rc (ASHRAE)	(5)	kg/kW	0,37	0,42	0,41	0,41	0,46	0,42	0,34
FANS									
Quantity		N°	6	6	6	8	10	12	12
Air flow		m³/s	7,95	7,76	7,76	10,30	12,88	15,52	15,52
Total fans power input		kW	1,80	1,80	1,80	2,40	3,00	3,60	3,60
NOISE LEVEL									
Total sound Pressure	(6)	dB(A)	53	53	53	54	55	56	56
Total sound power level in cooling	(7)(8)	dB(A)	85	85	85	86	87	88	88
Sound power level in heating	(7)(9)	dB(A)	85	85	85	86	87	88	88
SIZE AND WEIGHT									
A	(10)	mm	2625	2625	2625	3250	3875	4500	4500
B	(10)	mm	1350	1350	1350	1350	1350	1350	1350
H	(10)	mm	2070	2070	2070	2070	2070	2070	2070
Operating weight	(10)	kg	950	990	1000	1130	1310	1620	1650

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 */7,00°C (same water flow rate found during the cooling mode); Plant (side) heat exchanger water */45,00°C (same water flow rate found during the heating mode)

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

DB_CV_NX-Q-G06 0202P - 0602P_112023_EN R454B

[SI System]

NX-Q-G06 /SL		0202P 0252P 0262P 0302P 0402P 0502P						
Power supply		V/ph/Hz 400/3+N/50 400/3+N/50 400/3+N/50 400/3+N/50 400/3+N/50 400/3+N/50						
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1)	kW	56,14	60,65	68,69	81,39	104,2	125,5
Total power input	(1)	kW	16,08	18,03	20,50	23,76	31,12	41,15
EER	(1)	kW/kW	3,484	3,367	3,351	3,420	3,350	3,046
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2)	kW	56,10	60,60	68,60	81,30	104,0	125,3
EER	(1)(2)	kW/kW	3,460	3,330	3,320	3,400	3,320	3,020
HEATING ONLY (GROSS VALUE)								
Total heating capacity	(3)	kW	59,67	64,45	73,73	87,50	111,7	135,6
Total power input	(3)	kW	16,15	17,74	19,81	23,46	30,07	37,19
COP	(3)	kW/kW	3,685	3,644	3,722	3,723	3,711	3,645
HEATING ONLY (EN14511 VALUE)								
Total heating capacity	(2)(3)	kW	59,80	64,50	73,80	87,60	111,8	135,8
COP	(2)(3)	kW/kW	3,660	3,620	3,700	3,690	3,680	3,610
COOLING WITH HEAT RECOVERY (EN 14511 VALUE)								
Cooling capacity	(4)(2)	kW	56,49	61,61	70,07	83,30	107,3	134,0
Total power input	(4)(2)	kW	14,80	16,31	18,65	22,07	28,72	37,22
Recovery heat exchanger capacity	(4)(2)	kW	70,32	76,85	87,50	103,9	134,1	168,7
TER		kW/kW	8,568	8,488	8,448	8,482	8,403	8,135
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN COOLING								
Water flow	(1)	l/s	2,685	2,900	3,285	3,892	4,981	6,002
Pressure drop at the heat exchanger	(1)	kPa	14,8	17,2	15,8	17,6	19,7	21,7
HEAT EXCHANGER USER SIDE IN HEATING								
Water flow	(3)	l/s	2,880	3,111	3,559	4,224	5,390	6,545
Pressure drop at the heat exchanger	(3)	kPa	17,0	19,8	18,5	20,7	23,1	25,8
REFRIGERANT CIRCUIT								
Compressors nr.		N°	2	2	2	2	2	2
Number of capacity steps		N°	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2
Regulation		STEPS STEPS STEPS STEPS STEPS STEPS						
Min. capacity step		%	50	50	50	50	50	50
Refrigerant		R454B R454B R454B R454B R454B R454B						
Theoretical refrigerant charge		kg	25,9	26,9	37,8	44,0	49,7	53,5
Oil charge		kg	5,40	5,40	5,40	5,40	5,40	10,6
Rc (ASHRAE)	(5)	kg/kW	0,47	0,45	0,56	0,55	0,48	0,43
FANS								
Quantity		N°	8	8	8	10	12	12
Air flow		m³/s	8,06	8,06	7,74	9,68	11,77	11,77
Total fans power input		kW	1,60	1,60	1,60	2,00	2,40	2,40
NOISE LEVEL								
Total sound Pressure	(6)	dB(A)	48	48	48	49	50	52
Total sound power level in cooling	(7)(8)	dB(A)	80	80	80	81	82	84
Sound power level in heating	(7)(9)	dB(A)	80	80	80	81	82	84
SIZE AND WEIGHT								
A	(10)	mm	3250	3250	3250	3875	4500	4500
B	(10)	mm	1350	1350	1350	1350	1350	1350
H	(10)	mm	2070	2070	2070	2070	2070	2070
Operating weight	(10)	kg	1060	1060	1120	1270	1490	1630

Notes:

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 2 Values in compliance with EN14511
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