HEAT PUMPS

NX-N

0604T - 1204T 148,0-335,3 kW

Reversible unit, air source for outdoor installation

Outdoor reversible unit for the production of chilled/hot water with hermetic rotary Scroll compressors, ozone-friendly refrigerant R410A, axial-flow fans, copper tubes aluminum fins air coils, shell and tubes heat exchanger, and thermostatic or electronic expansion valve, according to the model. External panels in pre-clad sheet steel and base in galvanised steel with paint finish. The range is composed by units equipped with four compressors in tandem configuration on two independent refrigerant circuits.

Control

W3000SE Compact

W3000SE Compact offers advanced functions and algorithms. The keypad features an easy-to-use interface and a LCD display, allowing to consult and intervene on the unit by means of a multi-level menu, with selectable language setting.
Regulation based on the exclusive QuickMind algorithm, including self-adaptive control logics, beneficial in low water content systems. As alternatives the proportional- or proportional-integral regulations are also available.
The diagnostics includes a complete alarm management, with the "black-box" and alarm logging functions for enhanced analysis of the unit operation.
For multiple units' systems, the regulation of the resources, via optional proprietary devices, can be implemented. Energy metering, for both consumption and capacity, can also be developed. Supervision can be easily developed via proprietary devices or the integration in third party systems by means of the most common protocols as ModBus, Bacnet, Bacnet-over-IP, Echelon LonWorks.
- Compatibility with the remote keyboard managing up to 10 units.
- Internal real time clock available for operation scheduling (4-day profiles with 10 hour belts).
The defrost adopts a proprietary self-adaptive logic, which features the monitoring of numerous operational parameters. This allows to reduce the number and duration of the defrost cycles, with a benefit for the overall energy efficiency.

Refrigerant

R410A

Versions

K	Key efficiency, compact version
LN-K	Low Noise, Key efficiency and compact version
SL-K	Super Low noise, Key efficiency and compact version
CA	Class A of efficiency
LN-CA	Low Noise, Class A of efficiency
SL-CA	Super Low noise version, Class A of efficiency

Configurations

- Basic function
- D Partial condensing heat recovery function

Features

REFRIGERANT GAS R410A

The use of R410A allowed to achive better energy efficiencies with environment full respect (ODP = 0)

ELECTRONIC EXPANSION VALVE SUPPLIED STANDARD

The use of the electronic expansion valve generates considerable benefits, especially in cases of variable demand and different external conditions. It has been introduced into these units as a result of accurate design choices concerning the cooling circuit and the optimisation of operation in various different working conditions. The electronic expansion valve comes standard in the high-efficieny CA version, optional for the compact K versions.

CLASS A EFFICIENCY

The full range is also available with the Class A efficiency rating (in heating). CA version guarantees within all the noise configurations premium levels of efficiency thanks to the generous sizing of the refrigerant-exchange surface areas and to an accurate control of the fans.

EXCHANGER

The shell and tube exchanger allows to achieve the highest flexibility on the unit's installation, keeping on the hydronic side the pressure drops at the minimum level, thus representing the best choice for all the hydronic applications on the residential, commercial and industrial markets.

INTEGRATED HYDRONIC GROUP

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

Accessories

- Set-up for remote connectivity with ModBus/Echelon protocol cards
- Remote control keyboard (distance to 200m and to 500m)
- Soft starters
- Electronic expansion valve

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

HEATING | SCROLL | ENERGY CLASS | HFC R-410A | SHELL & TUBES | COOLING | AXIAL

NX-N / K			0604T	0704T	0804T	0904T	1004T	1104T	1204T
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	160,1	185,8	211,0	245,2	274,1	298,0	319,3
Total power input	(1)	kW	56,89	67,41	75,89	88,76	99,42	106,4	115,9
EER	(1)	kW/kW	2,814	2,757	2,780	2,761	2,758	2,801	2,755
ESEER	(1)	kW/kW	3,870	4,010	4,070	3,950	3,990	4,050	4,040
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	159,6	185,2	210,1	244,2	272,8	297,0	318,2
EER	(1)(2)	kW/kW	2,780	2,720	2,740	2,720	2,710	2,770	2,720
ESEER	(1)(2)	kW/kW	3,770	3,860	3,870	3,780	3,800	3,910	3,890
Cooling energy class			C	C	C	C	C	C	C
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	173,5	201,7	230,4	271,3	299,5	324,0	344,6
Total power input	(3)	kW	56,39	66,40	75,45	89,20	98,31	105,7	112,8
COP	(3)	kW/kW	3,076	3,038	3,056	3,041	3,047	3,065	3,055
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(3)(2)	kW	174,0	202,4	231,6	272,6	301,1	325,2	346,0
COP	(3)(2)	kW/kW	3,060	3,010	3,020	3,010	3,010	3,040	3,030
Cooling energy class			B	B	B	B	B	B	B
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(10)	kW	-	-	-	-	-	-	-
SEER	(10)(11)		-	-	-	-	-	-	-
Performance ηs	(10)(12)	%	-	-	-	-	-	-	-
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)									
PDesign	(4)	kW	127	148	172	200	226	241	260
SCOP	(4)(13)		3,27	3,29	3,26	3,21	3,22	3,27	3,22
Performance ηs	(4)(14)	%	128	129	127	125	126	128	126
Seasonal efficiency class	(15)		-	-	-	-	-	-	-
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,655	8,885	10,09	11,73	13,11	14,25	15,27
Pressure drop	(1)	kPa	22,0	29,7	47,8	44,4	55,5	35,5	40,8
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	8,375	9,738	11,12	13,09	14,45	15,64	16,64
Pressure drop	(3)	kPa	26,4	35,6	58,0	55,3	67,4	42,8	48,4
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	36,0	56,2	77,2	77,3	77,4	99,1	99,2
NOISE LEVEL									
Sound Pressure	(5)	dB(A)	73	72	73	74	75	75	75
Sound power level in cooling	(6)(7)	dB(A)	92	92	93	94	95	95	95
Sound power level in heating	(6)(8)	dB(A)	92	92	93	94	95	95	95
SIZE AND WEIGHT									
Operating weight	(9)	kg	1810	2180	2340	2560	2650	3150	3190
A	(9)	mm	3110	4110	4110	4110	4110	5110	5110
B	(9)	mm	2220	2220	2220	2220	2220	2220	2220
H	(9)	mm	2150	2150	2150	2150	2150	2150	2150

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
4 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
5 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Sound power level in heating, outdoors.
9 Unit in standard configuration/execution, without optional accessories.
10 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
11 Seasonal energy efficiency ratio
12 Seasonal space cooling energy efficiency
13 Seasonal coefficient of performance
14 Seasonal space heating energy efficiency
15 Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]

The units highlighted in this publication contain HFC R410A [GWP_{100} 2088] fluorinated greenhouse gases.
Certified data in EUROVENT

HEAT PUMPS

NX-N

Reversible unit, air source for outdoor installation

0604T - 1204T 148,0-335,3 kW

NX-N / LN-K			0604T	0704T	0804T	0904T	1004T	1104T	1204T
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	152,7	174,4	200,7	234,3	258,2	282,8	303,1
Total power input	(1)	kW	56,90	68,54	78,32	90,02	101,4	108,7	119,2
EER	(1)	kW/kW	2,684	2,546	2,563	2,603	2,546	2,602	2,543
ESEER	(1)	kW/kW	3,960	4,080	4,120	4,080	4,020	4,060	4,050
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	152,3	173,9	199,9	233,4	257,1	281,9	302,1
EER	(1)(2)	kW/kW	2,660	2,520	2,530	2,570	2,510	2,570	2,510
ESEER	(1)(2)	kW/kW	3,850	3,940	3,940	3,910	3,840	3,930	3,910
Cooling energy class			D	D	D	D	D	D	D
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	165,4	192,2	221,4	255,0	283,8	310,1	329,1
Total power input	(3)	kW	52,69	62,99	71,89	83,89	92,88	100,4	107,3
COP	(3)	kW/kW	3,139	3,051	3,079	3,039	3,055	3,089	3,067
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(3)(2)	kW	165,9	192,9	222,5	256,1	285,2	311,2	330,3
COP	(3)(2)	kW/kW	3,120	3,030	3,050	3,010	3,020	3,070	3,040
Cooling energy class			B	B	B	B	B	B	B
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(10)	kW	-	-	-	-	-	-	-
SEER	(10)(11)		-	-	-	-	-	-	-
Performance ηs	(10)(12)	%	-	-	-	-	-	-	-
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)									
PDesign	(4)	kW	126	132	170	196	223	239	257
SCOP	(4)(13)		3,38	3,33	3,50	3,39	3,36	3,43	3,45
Performance ηs	(4)(14)	%	132	130	137	132	131	134	135
Seasonal efficiency class	(15)		-	-	-	-	-	-	-
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,304	8,339	9,597	11,20	12,35	13,52	14,49
Pressure drop	(1)	kPa	20,1	26,1	43,2	40,5	49,2	32,0	36,8
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	7,982	9,279	10,69	12,31	13,70	14,97	15,88
Pressure drop	(3)	kPa	23,9	32,4	53,6	48,9	60,5	39,2	44,1
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	36,0	56,2	77,2	77,3	77,4	99,1	99,2
NOISE LEVEL									
Sound Pressure	(5)	dB(A)	67	66	67	68	69	70	70
Sound power level in cooling	(6)(7)	dB(A)	86	86	87	88	89	90	90
Sound power level in heating	(6)(8)	dB(A)	87	87	88	89	90	91	91
SIZE AND WEIGHT									
Operating weight	(9)	kg	1860	2230	2390	2610	2700	3200	3240
A	(9)	mm	3110	4110	4110	4110	4110	5110	5110
B	(9)	mm	2220	2220	2220	2220	2220	2220	2220
H	(9)	mm	2150	2150	2150	2150	2150	2150	2150

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
4 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
5 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Sound power level in heating, outdoors.
9 Unit in standard configuration/execution, without optional accessories.
10 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
11 Seasonal energy efficiency ratio
12 Seasonal space cooling energy efficiency
13 Seasonal coefficient of performance
14 Seasonal space heating energy efficiency
15 Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]

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Certified data in EUROVENT

NX-N / SL-K			0604T	0704T	0804T	0904T	1004T	1104T	1204T
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	148,0	175,5	201,7	232,0	255,7	281,1	303,4
Total power input	(1)	kW	57,83	68,54	78,93	88,21	100,4	110,5	119,3
EER	(1)	kW/kW	2,561	2,562	2,556	2,630	2,547	2,544	2,543
ESEER	(1)	kW/kW	4,070	4,070	4,110	4,120	4,120	4,090	4,090
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	147,6	174,9	200,8	231,1	254,6	280,2	302,4
EER	(1)(2)	kW/kW	2,540	2,530	2,520	2,590	2,510	2,520	2,510
ESEER	(1)(2)	kW/kW	3,960	3,940	3,930	3,950	3,940	3,960	3,940
Cooling energy class			D	D	D	D	D	D	D
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	160,2	193,0	223,2	256,8	282,7	307,3	330,1
Total power input	(3)	kW	51,18	63,61	72,49	82,20	91,24	100,2	108,2
COP	(3)	kW/kW	3,129	3,035	3,079	3,124	3,100	3,067	3,051
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(3)(2)	kW	160,7	193,7	224,3	257,9	284,1	308,4	331,4
COP	(3)(2)	kW/kW	3,110	3,010	3,050	3,100	3,070	3,040	3,030
Cooling energy class			B	B	B	B	B	B	B
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(10)	kW	-	-	-	-	-	-	-
SEER	(10)(11)		-	-	-	-	-	-	-
Performance ηs	(10)(12)	%	-	-	-	-	-	-	-
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)									
PDesign	(4)	kW	124	134	172	196	220	238	257
SCOP	(4)(13)		3,49	3,28	3,46	3,55	3,44	3,41	3,43
Performance ηs	(4)(14)	%	136	128	135	139	135	134	134
Seasonal efficiency class	(15)		-	-	-	-	-	-	-
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,079	8,392	9,645	11,10	12,23	13,44	14,51
Pressure drop	(1)	kPa	18,8	26,5	43,6	39,7	48,2	31,6	36,8
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	7,734	9,316	10,78	12,40	13,65	14,83	15,93
Pressure drop	(3)	kPa	22,5	32,6	54,5	49,6	60,1	38,5	44,4
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	36,0	56,2	77,2	77,3	77,4	99,1	99,2
NOISE LEVEL									
Sound Pressure	(5)	dB(A)	63	63	63	64	65	66	67
Sound power level in cooling	(6)(7)	dB(A)	82	83	83	84	85	86	87
Sound power level in heating	(6)(8)	dB(A)	83	84	84	85	86	87	88
SIZE AND WEIGHT									
Operating weight	(9)	kg	1860	2310	2470	2870	2980	3320	3370
A	(9)	mm	3110	4110	4110	5110	5110	5110	5110
B	(9)	mm	2220	2220	2220	2220	2220	2220	2220
H	(9)	mm	2150	2150	2150	2150	2150	2150	2150

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
4 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
5 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Sound power level in heating, outdoors.
9 Unit in standard configuration/execution, without optional accessories.
10 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
11 Seasonal energy efficiency ratio
12 Seasonal space cooling energy efficiency
13 Seasonal coefficient of performance
14 Seasonal space heating energy efficiency
15 Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]

The units highlighted in this publication contain HFC R410A [GWP_{100} 2088] fluorinated greenhouse gases.
Certified data in EUROVENT

NX-N

Reversible unit, air source for outdoor installation

0604T - 1204T 148,0-335,3 kW

NX-N / CA			0604T	0704T	0804T	0904T	1004T	1104T	1204T
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	164,1	190,8	222,4	253,3	283,2	310,1	335,3
Total power input	(1)	kW	55,71	64,57	73,83	85,32	95,97	104,8	113,3
EER	(1)	kW/kW	2,946	2,954	3,014	2,970	2,950	2,959	2,959
ESEER	(1)	kW/kW	4,130	4,250	4,220	4,250	4,220	4,160	4,180
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	163,6	190,1	221,4	252,2	282,3	309,1	334,0
EER	(1)(2)	kW/kW	2,910	2,910	2,960	2,920	2,910	2,920	2,910
ESEER	(1)(2)	kW/kW	4,000	4,080	4,010	4,050	4,080	4,010	4,010
Cooling energy class			B	B	B	B	B	B	B
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	171,5	199,0	237,6	265,8	292,9	329,0	349,7
Total power input	(3)	kW	52,96	61,51	73,10	81,95	90,60	101,5	108,0
COP	(3)	kW/kW	3,236	3,236	3,250	3,241	3,233	3,241	3,238
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(3)(2)	kW	172,0	199,7	238,9	267,0	293,9	330,2	351,2
COP	(3)(2)	kW/kW	3,210	3,210	3,210	3,210	3,210	3,210	3,210
Cooling energy class			A	A	A	A	A	A	A
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(10)	kW	-	-	-	-	-	-	-
SEER	(10)(11)		-	-	-	-	-	-	-
Performance ηs	(10)(12)	%	-	-	-	-	-	-	-
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)									
PDesign	(4)	kW	120	150	176	199	223	246	264
SCOP	(4)(13)		3,65	3,86	3,76	3,83	3,79	3,71	3,74
Performance ηs	(4)(14)	%	143	151	147	150	149	145	147
Seasonal efficiency class	(15)		-	-	-	-	-	-	-
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,848	9,122	10,63	12,11	13,54	14,83	16,03
Pressure drop	(1)	kPa	23,1	31,3	53,1	47,4	32,1	38,5	45,0
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	8,276	9,607	11,47	12,83	14,14	15,88	16,88
Pressure drop	(3)	kPa	25,7	34,7	61,7	53,1	35,0	44,1	49,9
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	45,0	69,8	90,4	90,5	90,6	115	115
NOISE LEVEL									
Sound Pressure	(5)	dB(A)	72	72	74	74	75	77	77
Sound power level in cooling	(6)(7)	dB(A)	92	92	94	94	95	97	97
Sound power level in heating	(6)(8)	dB(A)	92	92	94	94	95	97	97
SIZE AND WEIGHT									
Operating weight	(9)	kg	2070	2360	2750	2870	3150	3640	3660
A	(9)	mm	4110	4110	5110	5110	5110	6110	6110
B	(9)	mm	2220	2220	2220	2220	2220	2220	2220
H	(9)	mm	2150	2150	2150	2150	2150	2150	2150

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
4 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
5 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Sound power level in heating, outdoors.
9 Unit in standard configuration/execution, without optional accessories.
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12 Seasonal space cooling energy efficiency
13 Seasonal coefficient of performance
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15 Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]

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EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

HEATING | SCROLL | ENERGY CLASS | HFC R-410A | SHELL & TUBES | COOLING | AXIAL

NX-N / LN-CA			0604T	0704T	0804T	0904T	1004T	1104T	1204T
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	158,6	187,4	216,0	247,9	276,5	300,4	324,7
Total power input	(1)	kW	53,77	62,45	70,77	82,25	93,65	100,7	109,2
EER	(1)	kW/kW	2,948	2,998	3,051	3,012	2,951	2,983	2,973
ESEER	(1)	kW/kW	4,300	4,310	4,320	4,310	4,280	4,300	4,260
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	158,2	186,8	215,0	246,9	275,7	299,4	323,5
EER	(1)(2)	kW/kW	2,920	2,960	2,990	2,960	2,920	2,940	2,930
ESEER	(1)(2)	kW/kW	4,160	4,150	4,110	4,100	4,140	4,150	4,080
Cooling energy class			B	B	B	B	B	B	B
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	170,0	207,4	238,7	274,8	303,9	328,7	358,3
Total power input	(3)	kW	51,90	64,10	73,20	84,73	93,91	101,3	110,5
COP	(3)	kW/kW	3,276	3,236	3,261	3,244	3,236	3,245	3,243
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(3)(2)	kW	170,5	208,2	240,0	276,1	304,9	329,9	359,8
COP	(3)(2)	kW/kW	3,250	3,210	3,220	3,210	3,210	3,220	3,210
Cooling energy class			A	A	A	A	A	A	A
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(10)	kW	-	-	-	-	-	-	-
SEER	(10)(11)		-	-	-	-	-	-	-
Performance ηs	(10)(12)	%	-	-	-	-	-	-	-
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)									
PDesign	(4)	kW	119	153	177	203	227	245	266
SCOP	(4)(13)		3,85	3,88	3,93	3,91	3,84	3,87	3,84
Performance ηs	(4)(14)	%	151	152	154	153	151	152	150
Seasonal efficiency class	(15)		-	-	-	-	-	-	-
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,585	8,960	10,33	11,85	13,22	14,37	15,53
Pressure drop	(1)	kPa	21,6	30,2	50,1	45,3	30,6	36,1	42,2
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	8,204	10,01	11,52	13,27	14,67	15,87	17,30
Pressure drop	(3)	kPa	25,3	37,7	62,3	56,8	37,6	44,1	52,3
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	45,0	69,8	90,4	90,5	90,6	115	115
NOISE LEVEL									
Sound Pressure	(5)	dB(A)	66	67	68	69	70	70	71
Sound power level in cooling	(6)(7)	dB(A)	86	87	88	89	90	90	91
Sound power level in heating	(6)(8)	dB(A)	87	88	89	90	91	91	92
SIZE AND WEIGHT									
Operating weight	(9)	kg	2070	2440	2750	2970	3250	3610	3740
A	(9)	mm	4110	4110	5110	5110	5110	6110	6110
B	(9)	mm	2220	2220	2220	2220	2220	2220	2220
H	(9)	mm	2150	2150	2150	2150	2150	2150	2150

Notes

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2 Values in compliance with EN14511
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HEAT PUMPS

NX-N

Reversible unit, air source for outdoor installation

0604T - 1204T 148,0-335,3 kW

NX-N / SL-CA			0604T	0704T	0804T	0904T	1004T	1104T	1204T
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	157,7	185,5	215,6	244,7	274,8	298,6	324,2
Total power input	(1)	kW	53,51	62,89	71,03	82,67	92,84	100,9	109,7
EER	(1)	kW/kW	2,948	2,949	3,037	2,959	2,961	2,959	2,955
ESEER	(1)	kW/kW	4,340	4,410	4,380	4,400	4,340	4,320	4,280
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	157,3	184,9	214,6	243,7	274,0	297,6	323,0
EER	(1)(2)	kW/kW	2,920	2,910	2,980	2,910	2,930	2,920	2,910
ESEER	(1)(2)	kW/kW	4,190	4,230	4,150	4,190	4,200	4,170	4,110
Cooling energy class			B	B	B	B	B	B	B
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	169,3	202,8	237,7	268,3	299,5	325,1	355,9
Total power input	(3)	kW	51,20	62,61	73,20	82,71	92,12	100,6	109,6
COP	(3)	kW/kW	3,307	3,240	3,247	3,244	3,252	3,232	3,247
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(3)(2)	kW	169,8	203,6	239,0	269,5	300,5	326,3	357,4
COP	(3)(2)	kW/kW	3,280	3,210	3,210	3,210	3,230	3,210	3,220
Cooling energy class			A	A	A	A	A	A	A
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(10)	kW	-	-	-	-	-	-	-
SEER	(10)(11)		-	-	-	-	-	-	-
Performance ηs	(10)(12)	%	-	-	-	-	-	-	-
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)									
PDesign	(4)	kW	117	152	176	201	224	243	266
SCOP	(4)(13)		3,75	3,91	3,85	3,94	3,86	3,87	3,85
Performance ηs	(4)(14)	%	147	153	151	155	151	152	151
Seasonal efficiency class	(15)		-	-	-	-	-	-	-
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,541	8,871	10,31	11,70	13,14	14,28	15,50
Pressure drop	(1)	kPa	21,4	29,6	49,9	44,2	30,2	35,7	42,0
HEAT EXCHANGER USER SIDE IN HEATING									
Water flow	(3)	l/s	8,170	9,791	11,47	12,95	14,46	15,69	17,18
Pressure drop	(3)	kPa	25,1	36,0	61,8	54,1	36,6	43,1	51,6
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	45,0	69,8	90,4	90,5	106	115	115
NOISE LEVEL									
Sound Pressure	(5)	dB(A)	63	63	64	65	66	67	68
Sound power level in cooling	(6)(7)	dB(A)	83	83	84	85	86	87	88
Sound power level in heating	(6)(8)	dB(A)	84	84	85	86	87	88	89
SIZE AND WEIGHT									
Operating weight	(9)	kg	2150	2440	2850	2970	3550	3610	3740
A	(9)	mm	4110	4110	5110	5110	6110	6110	6110
B	(9)	mm	2220	2220	2220	2220	2220	2220	2220
H	(9)	mm	2150	2150	2150	2150	2150	2150	2150

Notes

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Dimensional drawing