

Reversible unit, air source for outdoor installation
148-335 kW



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.

Version

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 achieve 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-efficiency 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). NX-N/CA 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.

Accessory

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

Controls

W3000SE Compact

The W3000SE Compact controller offers advanced functions and algorithms.

The keypad features an easy-to-use interface and a complete LCD display, allowing to consult and intervene on the unit by means of a multi-level menu, with selectable language setting.

The regulation is 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.

Availability of an internal real time clock 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.



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	186	211	245	274	298	319
Total power input	(1) kW	56,9	67,4	75,9	88,8	99,4	106	116
EER	(1) kW/kW	2,81	2,76	2,78	2,76	2,76	2,80	2,75
ESEER	(1) kW/kW	3,87	4,01	4,07	3,95	3,99	4,05	4,04
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	160	185	210	244	273	297	318
EER	(1)(2) kW/kW	2,78	2,72	2,73	2,72	2,71	2,77	2,72
ESEER	(1)(2) kW/kW	3,77	3,86	3,87	3,78	3,80	3,91	3,89
Cooling energy class		C	C	C	C	C	C	C
HEATING ONLY (GROSS VALUE)								
Total heating capacity	(3) kW	174	202	230	271	299	324	345
Total power input	(3) kW	56,4	66,4	75,4	89,2	98,3	106	113
COP	(3) kW/kW	3,08	3,04	3,06	3,04	3,05	3,07	3,05
HEATING ONLY (EN14511 VALUE)								
Total heating capacity	(3)(2) kW	174	202	232	273	301	325	346
COP	(3)(2) kW/kW	3,06	3,01	3,02	3,01	3,01	3,04	3,03
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	(4)	-	-	-	-	-	-	-
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) l/s	7,66	8,88	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	8,38	9,74	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	35,6	56,2	77,2	74,4	74,4	96,8	96,8
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 EN14511-3:2013.
 - 3 Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
 - 4 Seasonal space heating energy efficiency class LOW TEMPERATURE in AVERAGE climate conditions [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 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]
 - 11 Seasonal space heating energy index
 - 12 Seasonal energy efficiency of the space cooling
 - 13 Seasonal performance coefficient
 - 14 Seasonal space heating energy efficiency
- The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases.
 Certified data in EUROVENT

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	153	174	201	234	258	283	303
Total power input	(1)	kW	56,9	68,5	78,3	90,0	101	109	119
EER	(1)	kW/kW	2,68	2,55	2,56	2,60	2,55	2,60	2,54
ESEER	(1)	kW/kW	3,96	4,08	4,12	4,08	4,02	4,06	4,05
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	152	174	200	233	257	282	302
EER	(1)(2)	kW/kW	2,66	2,52	2,53	2,57	2,51	2,57	2,51
ESEER	(1)(2)	kW/kW	3,85	3,94	3,94	3,91	3,84	3,93	3,91
Cooling energy class			D	D	D	D	D	D	D
HEATING ONLY (GROSS VALUE)									
Total heating capacity	(3)	kW	165	192	221	255	284	310	329
Total power input	(3)	kW	52,7	63,0	71,9	83,9	92,9	100	107
COP	(3)	kW/kW	3,14	3,05	3,08	3,04	3,05	3,09	3,07
HEATING ONLY (EN14511 VALUE)									
Total heating capacity	(3)(2)	kW	166	193	222	256	285	311	330
COP	(3)(2)	kW/kW	3,12	3,03	3,05	3,01	3,02	3,07	3,04
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	(4)		-	-	-	-	-	-	-
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,30	8,34	9,60	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	7,98	9,28	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	35,6	56,2	77,2	74,4	74,4	96,8	96,8
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 EN14511-3:2013.
 - 3 Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
 - 4 Seasonal space heating energy efficiency class LOW TEMPERATURE in AVERAGE climate conditions [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 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]
 - 11 Seasonal space heating energy index
 - 12 Seasonal energy efficiency of the space cooling
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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	175	202	232	256	281	303
Total power input	(1) kW	57,8	68,5	78,9	88,2	100	111	119
EER	(1) kW/kW	2,56	2,56	2,56	2,63	2,55	2,54	2,54
ESEER	(1) kW/kW	4,07	4,07	4,11	4,12	4,12	4,09	4,09
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	148	175	201	231	255	280	302
EER	(1)(2) kW/kW	2,54	2,53	2,52	2,59	2,51	2,52	2,51
ESEER	(1)(2) kW/kW	3,96	3,94	3,93	3,95	3,94	3,96	3,94
Cooling energy class		D	D	D	D	D	D	D
HEATING ONLY (GROSS VALUE)								
Total heating capacity	(3) kW	160	193	223	257	283	307	330
Total power input	(3) kW	51,2	63,6	72,5	82,2	91,2	100	108
COP	(3) kW/kW	3,13	3,03	3,08	3,12	3,10	3,07	3,05
HEATING ONLY (EN14511 VALUE)								
Total heating capacity	(3)(2) kW	161	194	224	258	284	308	331
COP	(3)(2) kW/kW	3,11	3,01	3,05	3,10	3,07	3,05	3,03
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	(4)	-	-	-	-	-	-	-
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) l/s	7,08	8,39	9,64	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	7,73	9,32	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	35,6	56,2	77,2	94,0	94,0	96,8	96,8
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:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
 - Values in compliance with EN14511-3:2013.
 - Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
 - Seasonal space heating energy efficiency class LOW TEMPERATURE in AVERAGE climate conditions [REGULATION (EU) N. 813/2013]
 - 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.
 - Sound power on the basis of measurements made in compliance with ISO 9614.
 - Sound power level in cooling, outdoors.
 - Sound power level in heating, outdoors.
 - Unit in standard configuration/execution, without optional accessories.
 - Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]
 - Seasonal space heating energy index
 - Seasonal energy efficiency of the space cooling
 - Seasonal performance coefficient
 - Seasonal space heating energy efficiency
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Certified data in EUROVENT

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	191	222	253	283	310	335
Total power input	(1) kW	55,7	64,6	73,8	85,3	96,0	105	113
EER	(1) kW/kW	2,95	2,95	3,01	2,97	2,95	2,96	2,96
ESEER	(1) kW/kW	4,13	4,25	4,22	4,25	4,22	4,16	4,18
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	164	190	221	252	282	309	334
EER	(1)(2) kW/kW	2,91	2,91	2,96	2,92	2,91	2,92	2,92
ESEER	(1)(2) kW/kW	4,00	4,08	4,01	4,05	4,08	4,01	4,01
Cooling energy class		B	B	B	B	B	B	B
HEATING ONLY (GROSS VALUE)								
Total heating capacity	(3) kW	171	199	238	266	293	329	350
Total power input	(3) kW	53,0	61,5	73,1	82,0	90,6	102	108
COP	(3) kW/kW	3,24	3,24	3,25	3,24	3,23	3,24	3,24
HEATING ONLY (EN14511 VALUE)								
Total heating capacity	(3)(2) kW	172	200	239	267	294	330	351
COP	(3)(2) kW/kW	3,21	3,21	3,21	3,21	3,21	3,21	3,21
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	(4)	-	-	-	-	-	-	-
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) l/s	7,85	9,12	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	8,28	9,61	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	56,2	74,8	96,0	94,0	96,8	126	126
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:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
 - Values in compliance with EN14511-3:2013.
 - Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
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 - Seasonal space heating energy index
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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	159	187	216	248	277	300	325
Total power input	(1) kW	53,8	62,5	70,8	82,3	93,7	101	109
EER	(1) kW/kW	2,95	3,00	3,05	3,01	2,95	2,98	2,97
ESEER	(1) kW/kW	4,30	4,31	4,32	4,31	4,28	4,30	4,26
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	158	187	215	247	276	299	324
EER	(1)(2) kW/kW	2,92	2,96	3,00	2,96	2,92	2,95	2,93
ESEER	(1)(2) kW/kW	4,16	4,15	4,11	4,10	4,14	4,15	4,08
Cooling energy class		B	B	B	B	B	B	B
HEATING ONLY (GROSS VALUE)								
Total heating capacity	(3) kW	170	207	239	275	304	329	358
Total power input	(3) kW	51,9	64,1	73,2	84,7	93,9	101	110
COP	(3) kW/kW	3,28	3,24	3,26	3,24	3,24	3,24	3,24
HEATING ONLY (EN14511 VALUE)								
Total heating capacity	(3)(2) kW	170	208	240	276	305	330	360
COP	(3)(2) kW/kW	3,25	3,21	3,22	3,21	3,21	3,22	3,21
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	(4)	-	-	-	-	-	-	-
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) l/s	7,59	8,96	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	8,20	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	56,2	74,8	96,0	94,0	96,8	126	126
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:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
 - Values in compliance with EN14511-3:2013.
 - Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
 - Seasonal space heating energy efficiency class LOW TEMPERATURE in AVERAGE climate conditions [REGULATION (EU) N. 813/2013]
 - 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.
 - Sound power on the basis of measurements made in compliance with ISO 9614.
 - Sound power level in cooling, outdoors.
 - Sound power level in heating, outdoors.
 - Unit in standard configuration/execution, without optional accessories.
 - Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]
 - Seasonal space heating energy index
 - Seasonal energy efficiency of the space cooling
 - Seasonal performance coefficient
 - Seasonal space heating energy efficiency
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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	158	185	216	245	275	299	324
Total power input	(1) kW	53,5	62,9	71,0	82,7	92,8	101	110
EER	(1) kW/kW	2,95	2,95	3,04	2,96	2,96	2,96	2,96
ESEER	(1) kW/kW	4,34	4,41	4,38	4,40	4,34	4,32	4,28
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	157	185	215	244	274	298	323
EER	(1)(2) kW/kW	2,92	2,91	2,98	2,91	2,93	2,92	2,91
ESEER	(1)(2) kW/kW	4,19	4,23	4,15	4,19	4,20	4,17	4,11
Cooling energy class		B	B	B	B	B	B	B
HEATING ONLY (GROSS VALUE)								
Total heating capacity	(3) kW	169	203	238	268	299	325	356
Total power input	(3) kW	51,2	62,6	73,2	82,7	92,1	101	110
COP	(3) kW/kW	3,31	3,24	3,25	3,24	3,25	3,23	3,25
HEATING ONLY (EN14511 VALUE)								
Total heating capacity	(3)(2) kW	170	204	239	270	300	326	357
COP	(3)(2) kW/kW	3,28	3,21	3,21	3,21	3,23	3,21	3,22
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	(4)	-	-	-	-	-	-	-
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) l/s	7,54	8,87	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	8,17	9,79	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	56,2	74,8	96,0	94,0	126	126	126
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:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
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