CHILLERS

NX 0152P - 0812P

Chiller, air source for outdoor installation
39,2-227 kW

Outdoor unit for the production of chilled water with hermetic rotary Scroll compressors, ozone-friendly refrigerant R410A, axial-flow fans, plate heat exchanger, micro-channel full-aluminum air coils and thermostatic or electronic expansion valve, according to the model. The range is composed by units equipped with two compressors in a single-circuit configuration.

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

CLASS A EFFICIENCY

The full range is available with the Class A efficiency rating. Thanks to the generous sizing of the heat exchangers and an accurate control of the fan speed, the CA versions grant a premium level efficiency in every noise configuration.

ALUMINIUM MICRO-CHANNEL HEAT EXCHANGERS

The full aluminium micro-channel condenser coils deliver high efficiency whilst ensuring a reduced refrigerant volume and a lower unit weight. The e-coating protection (optional) grants the highest level of resistance to corrosion in any condition, even in the most aggressive environments.

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.

WIDE OPERATING RANGE

Full load operation is ensured with outdoor air temperature up to 46°C, partial load operation is possible up to or even beyond 50°C. The unit can produce chilled water at negative temperature (down to -10°C of leaving water temperature). Dedicated accessories allow the unit operation down to -20°C of outdoor air temperature.

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

- Microchannel coils with e-coating protection
- Traditional coils with copper tubes and alluminium fins, also available with prepainted fins or Fin Guard Silver protective treatment.
- Copper-Copper heat exchanger coils
- Compressor power factor correction
- Soft start
- Compressor suction and discharge valves
- High and low pressure gauges
- DVVF and DVV2F devices for low air temperature operation
- Hydronic group with possible storage tank
- Anti-intrusion grills

Controls

Electronic control W3000 / W3000TE

The controller is available in two different versions according to the unit's model:

W3000 : electronic controller with Compact keyboard. It features an easy-to-use interface and a complete LCD display that allows consulting and intervening on the unit by means of a multi-lenguage menu, available in three languages: Italian, English and a further language among French, Spanish, German, Russian and Swedish. The alarm history display function can be enable by installing a real-time clock (optional).

W3000TE : electronic controller with Compact keyboard. It features an easy-to-use interface and a complete LCD display that allows consulting and intervening on the unit by means of a multi-language menu (19 languages are available). The diagnostics includes a complete alarm management, with the "black-box" and the alarm history display for enhanced analysis of the unit operation. The programmable timer manages a weekly schedule organised into time bands to optimise unit performance by minimising power consumption during periods of inactivity. Up to 10 daily time bands can be associated with different operating set points.

Both the controllers offer advanced functions and algorithms.

The regulation is based on the patented "Quickmind" water temperature regulation logic uses self-adapting control to maintain flow temperatures and optimise performance even in low water content scenarios. As an alternative, the proportional or proportional-integral regulations are also available.

Optional proprietary devices can perform the adjustment of the resources in systems made of several units. Consumption metering and performance measurement are possible as well.

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, LonWorks.

Compatibility with the remote keyboard (up to 8 units).

The defrosting (reversible unit only) follows a proprietary self-adaptive logic, which features the monitoring of several operational parameters. This allows to reduce the number and duration of the defrost cycles, with a benefit for the overall energy efficiency.

NX / K			0152P	0182P	0202P	0252P	0262P	0302P	0352P
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	400/3+N/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	kW	39,2	44,3	51,9	58,9	65,0	77,6	88,5
Total power input	(1)	kW	13,5	15,6	18,1	20,5	23,5	26,8	31,3
EER	(1)	kW/kW	2,90	2,84	2,87	2,87	2,77	2,90	2,83
ESEER	(1)	kW/kW	4,41	4,37	4,41	4,39	4,33	4,23	4,41
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	39,0	44,0	51,6	58,6	64,7	77,2	87,9
EER	(1)(2)	kW/kW	2,83	2,78	2,80	2,82	2,71	2,84	2,76
ESEER	(1)(2)	kW/kW	4,19	4,15	4,20	4,20	4,17	4,06	4,16
Cooling energy class			C	C	C	C	C	C	C
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	39,0	44,0	51,6	58,6	64,7	77,2	87,9
SEER	(7)(8)		3,81	3,81	3,90	3,95	3,91	3,91	3,96
Performance ηs	(7)(9)	%	149	149	153	155	154	153	155
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	1,88	2,12	2,48	2,82	3,11	3,71	4,23
Pressure drop	(1)	kPa	36,3	34,1	36,3	33,4	33,2	33,9	54,1
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	5,60	6,00	6,30	7,30	7,80	8,80	9,90
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	51	51	52	52	52	53	54
Sound power level in cooling	(4)(5)	dB(A)	83	83	84	84	84	85	86
SIZE AND WEIGHT									
A	(6)	mm	1825	1825	1825	2395	2395	2395	2395
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1865	1865	1865	1865	1865	1865	1865
Operating weight	(6)	kg	470	480	490	540	550	570	660

NX / K			0402P	0452P	0502P	0552P	0602P	0702P
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	102	114	127	144	166	189
Total power input	(1)	kW	35,4	40,1	44,9	52,3	57,7	67,9
EER	(1)	kW/kW	2,88	2,86	2,84	2,76	2,87	2,79
ESEER	(1)	kW/kW	4,04	4,13	4,13	4,24	4,08	4,15
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2)	kW	101	114	127	144	165	189
EER	(1)(2)	kW/kW	2,82	2,79	2,78	2,70	2,82	2,74
ESEER	(1)(2)	kW/kW	3,86	3,96	3,95	4,04	3,92	3,99
Cooling energy class			C	C	C	C	C	C
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7)	kW	101	114	127	144	165	189
SEER	(7)(8)		3,80	3,81	3,80	3,83	3,82	3,82
Performance ηs	(7)(9)	%	149	149	149	150	150	150
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1)	l/s	4,88	5,47	6,09	6,90	7,92	9,06
Pressure drop	(1)	kPa	49,9	51,3	49,1	52,1	49,3	49,8
REFRIGERANT CIRCUIT								
Compressors nr.		N°	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1
Refrigerant charge		kg	11,1	12,4	13,2	13,7	15,4	16,0
NOISE LEVEL								
Sound Pressure	(3)	dB(A)	56	56	56	57	58	58
Sound power level in cooling	(4)(5)	dB(A)	88	88	88	89	90	90
SIZE AND WEIGHT								
A	(6)	mm	2825	2825	2825	3360	3980	3980
B	(6)	mm	1195	1195	1195	1195	1195	1195
H	(6)	mm	1980	1980	1980	1980	1980	1980
Operating weight	(6)	kg	830	870	900	980	1130	1110

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 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.
4 Sound power on the basis of measurements made in compliance with ISO 9614.
5 Sound power level in cooling, outdoors.
6 Unit in standard configuration/execution, without optional accessories.
7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]
8 Seasonal space heating energy index
9 Seasonal energy efficiency of the space cooling
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Certified data in EUROVENT

NX / LN-K			0152P	0182P	0202P	0252P	0262P	0302P	0352P
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	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	kW	39,3	44,3	51,7	58,8	65,5	74,7	89,9
Total power input	(1)	kW	13,6	15,8	18,5	20,4	23,2	28,3	31,1
EER	(1)	kW/kW	2,89	2,80	2,79	2,88	2,82	2,64	2,89
ESEER	(1)	kW/kW	4,50	4,44	4,41	4,38	4,39	4,22	4,26
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	39,1	44,0	51,4	58,5	65,2	74,4	89,3
EER	(1)(2)	kW/kW	2,82	2,74	2,73	2,83	2,77	2,60	2,82
ESEER	(1)(2)	kW/kW	4,28	4,22	4,20	4,19	4,21	4,08	4,01
Cooling energy class			C	C	C	C	C	D	C
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	39,1	44,0	51,4	58,5	65,2	74,4	89,3
SEER	(7)(8)		3,87	3,85	3,89	3,95	3,96	3,88	3,81
Performance ηs	(7)(9)	%	152	151	153	155	155	152	149
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	1,88	2,12	2,47	2,81	3,13	3,57	4,30
Pressure drop	(1)	kPa	36,3	34,2	36,0	33,3	33,7	31,4	55,9
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	5,80	6,00	7,10	7,30	7,80	8,80	10,5
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	47	47	47	48	48	48	51
Sound power level in cooling	(4)(5)	dB(A)	79	79	79	80	80	80	83
SIZE AND WEIGHT									
A	(6)	mm	1825	1825	2395	2395	2395	2395	2825
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1865	1865	1865	1865	1865	1865	1980
Operating weight	(6)	kg	480	500	540	570	570	580	780

NX / LN-K			0402P	0452P	0502P	0552P	0602P	0702P
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	99,4	113	125	140	163	179
Total power input	(1)	kW	35,9	39,3	44,2	52,9	58,1	70,3
EER	(1)	kW/kW	2,77	2,87	2,83	2,64	2,80	2,55
ESEER	(1)	kW/kW	4,11	4,29	4,33	4,36	4,20	4,10
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2)	kW	98,8	112	124	139	162	179
EER	(1)(2)	kW/kW	2,71	2,81	2,78	2,60	2,75	2,51
ESEER	(1)(2)	kW/kW	3,92	4,11	4,14	4,17	4,04	3,95
Cooling energy class			C	C	C	D	C	D
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7)	kW	98,8	112	124	139	162	179
SEER	(7)(8)		3,80	3,89	3,89	3,94	3,87	3,81
Performance ηs	(7)(9)	%	149	153	153	155	152	150
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1)	l/s	4,75	5,40	5,99	6,69	7,78	8,58
Pressure drop	(1)	kPa	47,4	49,8	47,4	49,0	47,6	44,7
REFRIGERANT CIRCUIT								
Compressors nr.		N°	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1
Refrigerant charge		kg	11,1	12,7	13,6	13,7	15,4	16,0
NOISE LEVEL								
Sound Pressure	(3)	dB(A)	51	52	52	52	53	53
Sound power level in cooling	(4)(5)	dB(A)	83	84	84	84	85	85
SIZE AND WEIGHT								
A	(6)	mm	2825	3360	3360	3360	3980	3980
B	(6)	mm	1195	1195	1195	1195	1195	1195
H	(6)	mm	1980	1980	1980	1980	1980	1980
Operating weight	(6)	kg	880	1000	1030	1060	1180	1150

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 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.
4 Sound power on the basis of measurements made in compliance with ISO 9614.
5 Sound power level in cooling, outdoors.
6 Unit in standard configuration/execution, without optional accessories.
7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]
8 Seasonal space heating energy index
9 Seasonal energy efficiency of the space cooling
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NX / SL-K			0152P	0182P	0202P	0252P	0262P	0302P
Power supply		V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1)	kW	39,4	44,6	52,3	58,9	65,9	77,7
Total power input	(1)	kW	13,9	16,1	18,2	20,3	22,9	27,4
EER	(1)	kW/kW	2,83	2,77	2,87	2,90	2,88	2,84
ESEER	(1)	kW/kW	4,28	4,25	4,49	4,15	4,22	4,30
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2)	kW	39,2	44,3	52,0	58,6	65,6	77,3
EER	(1)(2)	kW/kW	2,77	2,71	2,81	2,84	2,82	2,78
ESEER	(1)(2)	kW/kW	4,07	4,05	4,27	3,99	4,05	4,12
Cooling energy class			C	C	C	C	C	C
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7)	kW	39,2	44,3	52,0	58,6	65,6	77,3
SEER	(7)(8)		3,80	3,80	3,95	3,80	3,80	3,87
Performance ηs	(7)(9)	%	149	149	155	149	149	152
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1)	l/s	1,88	2,13	2,50	2,82	3,15	3,72
Pressure drop	(1)	kPa	36,6	34,6	36,8	33,4	34,1	34,0
REFRIGERANT CIRCUIT								
Compressors nr.		N°	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1
Refrigerant charge		kg	5,90	7,00	7,10	7,60	8,50	9,30
NOISE LEVEL								
Sound Pressure	(3)	dB(A)	44	45	45	46	46	46
Sound power level in cooling	(4)(5)	dB(A)	76	77	77	78	78	78
SIZE AND WEIGHT								
A	(6)	mm	2395	2395	2395	2825	2825	2825
B	(6)	mm	1195	1195	1195	1195	1195	1195
H	(6)	mm	1865	1865	1865	1980	1980	1980
Operating weight	(6)	kg	540	550	560	670	680	680

NX / SL-K			0352P	0402P	0452P	0502P	0552P	0602P
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	88,5	100	113	124	140	153
Total power input	(1)	kW	30,5	35,1	39,3	44,8	52,5	61,7
EER	(1)	kW/kW	2,90	2,85	2,89	2,77	2,68	2,48
ESEER	(1)	kW/kW	4,40	4,40	4,38	4,32	4,29	4,08
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2)	kW	87,9	99,4	113	124	140	152
EER	(1)(2)	kW/kW	2,83	2,79	2,82	2,72	2,63	2,44
ESEER	(1)(2)	kW/kW	4,14	4,19	4,18	4,15	4,12	3,95
Cooling energy class			C	C	C	C	D	E
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7)	kW	87,9	99,4	113	124	140	152
SEER	(7)(8)		3,88	3,92	3,95	3,89	3,89	3,81
Performance ηs	(7)(9)	%	152	154	155	153	153	149
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1)	l/s	4,23	4,78	5,42	5,95	6,72	7,32
Pressure drop	(1)	kPa	54,1	48,0	50,3	46,7	49,4	42,0
REFRIGERANT CIRCUIT								
Compressors nr.		N°	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1
Refrigerant charge		kg	10,8	11,9	13,1	14,0	14,5	15,4
NOISE LEVEL								
Sound Pressure	(3)	dB(A)	47	48	49	49	50	50
Sound power level in cooling	(4)(5)	dB(A)	79	80	81	81	82	82
SIZE AND WEIGHT								
A	(6)	mm	3360	3360	3980	3980	3980	3980
B	(6)	mm	1195	1195	1195	1195	1195	1195
H	(6)	mm	1980	1980	1980	1980	1980	1980
Operating weight	(6)	kg	860	960	1070	1080	1110	1180

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 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.
4 Sound power on the basis of measurements made in compliance with ISO 9614.
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NX / CA			0152P	0182P	0202P	0252P	0262P	0302P	0352P
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	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	kW	41,7	47,4	55,0	62,5	69,6	85,0	96,6
Total power input	(1)	kW	12,8	14,5	16,7	19,3	21,8	26,5	30,2
EER	(1)	kW/kW	3,26	3,27	3,29	3,24	3,19	3,21	3,20
ESEER	(1)	kW/kW	4,56	4,65	4,45	4,45	4,49	4,28	4,41
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	41,4	47,1	54,7	62,2	69,2	84,5	95,9
EER	(1)(2)	kW/kW	3,17	3,18	3,21	3,16	3,12	3,14	3,11
ESEER	(1)(2)	kW/kW	4,30	4,41	4,23	4,26	4,28	4,07	4,13
Cooling energy class			A	A	A	A	A	A	A
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	41,4	47,1	54,7	62,2	69,2	84,5	95,9
SEER	(7)(8)		3,92	4,05	3,95	4,02	4,06	3,88	3,90
Performance ηs	(7)(9)	%	154	159	155	158	159	152	153
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	1,99	2,27	2,63	2,99	3,33	4,07	4,62
Pressure drop	(1)	kPa	40,9	39,1	40,7	37,6	38,0	40,7	64,4
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	6,30	7,90	8,00	8,10	8,70	10,0	12,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	52	52	53	53	54	56	56
Sound power level in cooling	(4)(5)	dB(A)	84	84	85	85	86	88	88
SIZE AND WEIGHT									
A	(6)	mm	1825	2395	2395	2395	2395	2825	3360
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1865	1865	1865	1865	1865	1980	1980
Operating weight	(6)	kg	480	540	550	560	570	680	830

NX / CA			0402P	0452P	0502P	0562P	0612P	0712P	0812P
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	108	122	138	160	178	201	227
Total power input	(1)	kW	33,6	38,3	42,6	48,9	55,4	63,5	70,5
EER	(1)	kW/kW	3,21	3,18	3,23	3,28	3,22	3,17	3,22
ESEER	(1)	kW/kW	4,43	4,54	4,34	4,32	4,31	4,38	4,17
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	107	121	137	159	178	200	226
EER	(1)(2)	kW/kW	3,13	3,10	3,16	3,20	3,15	3,10	3,14
ESEER	(1)(2)	kW/kW	4,19	4,30	4,13	4,08	4,13	4,18	3,96
Cooling energy class			A	A	A	A	A	A	A
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	107	121	137	159	178	200	226
SEER	(7)(8)		3,96	4,08	3,94	3,94	3,99	4,08	3,88
Performance ηs	(7)(9)	%	156	160	155	155	157	160	152
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	5,16	5,83	6,59	7,67	8,53	9,62	10,86
Pressure drop	(1)	kPa	56,0	58,2	57,4	64,4	57,2	56,2	71,5
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	13,3	14,3	15,3	18,8	20,3	23,0	24,5
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	58	58	58	59	59	60	61
Sound power level in cooling	(4)(5)	dB(A)	90	90	90	91	91	92	93
SIZE AND WEIGHT									
A	(6)	mm	3360	3360	3980	3160	3160	3160	4335
B	(6)	mm	1195	1195	1195	2250	2250	2250	2250
H	(6)	mm	1980	1980	1980	2170	2170	2170	2170
Operating weight	(6)	kg	960	1000	1080	1510	1550	1570	1810

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 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.
4 Sound power on the basis of measurements made in compliance with ISO 9614.
5 Sound power level in cooling, outdoors.
6 Unit in standard configuration/execution, without optional accessories.
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NX / LN-CA			0152P	0182P	0202P	0252P	0262P	0302P	0352P
Power supply		V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	kW	41,5	47,0	55,0	63,5	70,7	82,7	94,4
Total power input	(1)	kW	12,6	14,4	17,2	19,5	21,9	26,0	29,3
EER	(1)	kW/kW	3,29	3,26	3,20	3,26	3,23	3,18	3,22
ESEER	(1)	kW/kW	4,56	4,62	4,71	4,31	4,34	4,37	4,52
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	41,2	46,7	54,7	63,1	70,3	82,3	93,8
EER	(1)(2)	kW/kW	3,20	3,18	3,12	3,18	3,15	3,11	3,13
ESEER	(1)(2)	kW/kW	4,29	4,38	4,46	4,11	4,15	4,20	4,25
Cooling energy class			A	A	A	A	A	A	A
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	41,2	46,7	54,7	63,1	70,3	82,3	93,8
SEER	(7)(8)		3,91	3,89	4,01	3,81	3,84	3,91	3,98
Performance ηs	(7)(9)	%	153	153	158	149	151	153	156
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	1,98	2,25	2,63	3,04	3,38	3,95	4,52
Pressure drop	(1)	kPa	40,5	38,4	40,7	38,8	39,2	38,5	61,6
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	6,70	7,90	8,00	8,50	9,60	10,5	12,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	48	48	48	49	49	50	52
Sound power level in cooling	(4)(5)	dB(A)	80	80	80	81	81	82	84
SIZE AND WEIGHT									
A	(6)	mm	2395	2395	2395	2825	2825	3360	3360
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1865	1865	1865	1980	1980	1980	1980
Operating weight	(6)	kg	550	560	560	670	680	750	870

NX / LN-CA			0402P	0452P	0502P	0562P	0612P	0712P	0812P
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	107	121	134	154	173	198	221
Total power input	(1)	kW	33,3	37,9	42,2	47,1	54,4	60,8	67,5
EER	(1)	kW/kW	3,23	3,18	3,18	3,27	3,18	3,26	3,28
ESEER	(1)	kW/kW	4,32	4,41	4,36	4,67	4,48	4,65	4,38
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	107	120	133	153	172	197	220
EER	(1)(2)	kW/kW	3,14	3,10	3,11	3,19	3,11	3,20	3,20
ESEER	(1)(2)	kW/kW	4,10	4,19	4,15	4,40	4,29	4,43	4,16
Cooling energy class			A	A	A	A	A	A	A
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	107	120	133	153	172	197	220
SEER	(7)(8)		3,85	3,96	3,95	4,19	4,09	4,28	4,05
Performance ηs	(7)(9)	%	151	155	155	165	161	168	159
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	5,14	5,77	6,42	7,36	8,26	9,49	10,58
Pressure drop	(1)	kPa	55,4	56,9	54,4	59,3	53,6	54,6	67,9
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	13,5	14,5	15,3	18,8	20,3	24,3	25,8
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	52	52	53	54	54	55	56
Sound power level in cooling	(4)(5)	dB(A)	84	84	85	86	86	87	88
SIZE AND WEIGHT									
A	(6)	mm	3980	3980	3980	3160	3160	4335	4335
B	(6)	mm	1195	1195	1195	2250	2250	2250	2250
H	(6)	mm	1980	1980	1980	2170	2170	2170	2170
Operating weight	(6)	kg	1050	1080	1090	1510	1550	1810	1870

Notes:
1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
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NX / SL-CA			0182P	0202P	0252P	0262P	0302P	0352P	0412P
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	47,5	55,3	62,2	69,2	81,9	94,5	106
Total power input	(1)	kW	14,5	17,1	19,0	21,4	25,5	29,6	32,4
EER	(1)	kW/kW	3,28	3,23	3,27	3,23	3,21	3,19	3,27
ESEER	(1)	kW/kW	4,39	4,52	4,44	4,46	4,57	4,52	4,56
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	47,2	55,0	61,9	68,8	81,5	93,9	105
EER	(1)(2)	kW/kW	3,19	3,15	3,20	3,16	3,14	3,10	3,19
ESEER	(1)(2)	kW/kW	4,16	4,30	4,24	4,26	4,38	4,27	4,35
Cooling energy class			A	A	A	A	A	A	A
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	47,2	55,0	61,9	68,8	81,5	93,9	105
SEER	(7)(8)		3,80	3,90	3,90	3,96	4,11	4,03	4,10
Performance ηs	(7)(9)	%	149	153	153	155	161	158	161
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	2,27	2,65	2,97	3,31	3,92	4,52	5,07
Pressure drop	(1)	kPa	39,3	41,2	37,3	37,6	37,8	61,7	54,0
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	8,30	8,40	8,90	10,1	10,5	12,2	14,1
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	46	46	47	47	47	48	49
Sound power level in cooling	(4)(5)	dB(A)	78	78	79	79	79	80	81
SIZE AND WEIGHT									
A	(6)	mm	2825	2825	3360	3360	3360	3980	3160
B	(6)	mm	1195	1195	1195	1195	1195	1195	2250
H	(6)	mm	1980	1980	1980	1980	1980	1980	2170
Operating weight	(6)	kg	660	670	760	770	780	940	1410

NX / SL-CA			0462P	0512P	0562P	0612P	0712P	0812P
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	119	133	152	172	195	218
Total power input	(1)	kW	36,9	41,9	47,3	52,8	61,6	68,2
EER	(1)	kW/kW	3,22	3,17	3,21	3,26	3,16	3,19
ESEER	(1)	kW/kW	4,64	4,67	4,70	4,63	4,72	4,46
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2)	kW	118	132	151	171	194	216
EER	(1)(2)	kW/kW	3,14	3,10	3,13	3,19	3,10	3,12
ESEER	(1)(2)	kW/kW	4,39	4,46	4,47	4,42	4,51	4,26
Cooling energy class			A	A	A	A	A	A
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7)	kW	118	132	151	171	194	216
SEER	(7)(8)		4,15	4,19	4,25	4,24	4,35	4,14
Performance ηs	(7)(9)	%	163	165	167	167	171	162
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1)	l/s	5,67	6,36	7,25	8,24	9,32	10,40
Pressure drop	(1)	kPa	55,1	53,5	57,6	53,3	52,7	65,7
REFRIGERANT CIRCUIT								
Compressors nr.		N°	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1
Refrigerant charge		kg	15,0	18,5	20,1	22,7	25,6	27,1
NOISE LEVEL								
Sound Pressure	(3)	dB(A)	50	50	51	52	53	54
Sound power level in cooling	(4)(5)	dB(A)	82	82	83	84	85	86
SIZE AND WEIGHT								
A	(6)	mm	3160	3160	4335	4335	4335	5510
B	(6)	mm	2250	2250	2250	2250	2250	2250
H	(6)	mm	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1450	1480	1740	1820	1850	2130

Notes:
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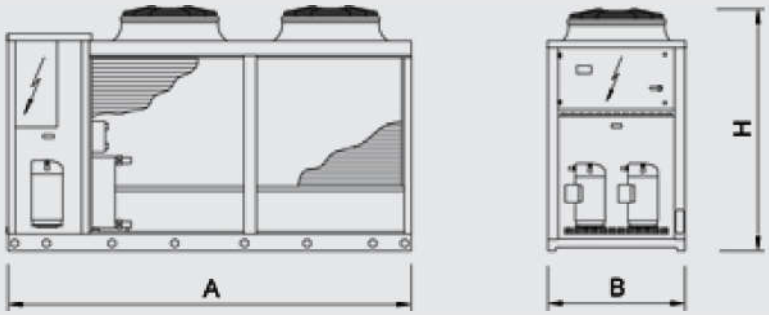
A
B
H