MITSUBISHI ELECTRIC
HYDRONICS & IT COOLING SYSTEMS S.p.A.

COMFORT

CHILLERS

NECS-NX

NEW GENERATION OF WATER CHILLERS FOR COMFORT AND PROCESS COOLING APPLICATIONS CAPACITY RANGE 39-885 KW, SCROLL COMPRESSORS AND R410A REFRIGERANT

climaveneta.com

CLIMAVENETA®

THE GREATEST CHALLENGE IN COMFORT APPLICATIONS IS TO COMBINE EFFICIENCY, RELIABILITY AND HIGH SUSTAINABILITY

Modern multi-purpose buildings, shopping centres, and commercial facilities are all characterized by high levels of comfort and the growing need to integrate new units with already-existing complex systems.

Challenging energy efficiency

Reduced investments and operating costs, compliance with the latest strict regulations, attention to environmental impact and use of renewables are vital factors in evaluating the units to be installed within a building.

Growing focus on sustainability

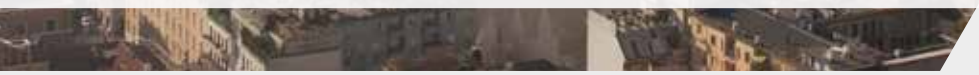
The constant search for energy-saving policies together with a growing attention to sustainability has a strong impact on a systems' life cyle, from the choice of materials in the design phase, to their use during construction, until their disposal.

Maximum reliability

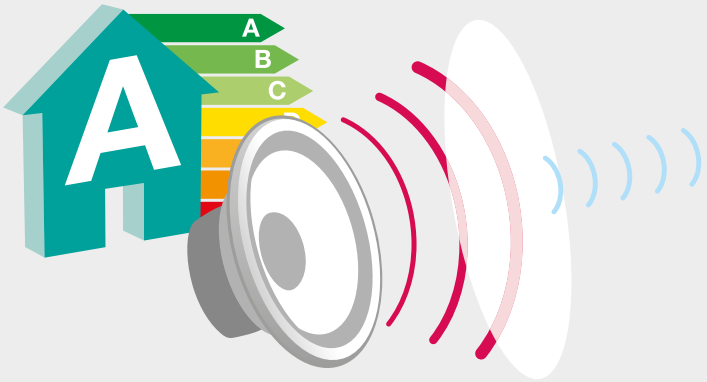
Continuous unit operation and the highest reliability all year long is key when considering big buildings and complex HVAC systems.
Dependability is even more important when the chiller must serve other units, such as air handling units, fancoil units or chilled beams.

System simplification and versatility

Both new and retrofit installations require a flexible approach in order to allow units to perfectly fit the installation requirements of a compelx HVAC system. This means that the ideal product must be able to integrate in already existing systems and effeciently work together with units featuring the most diverse technologies.



NX AND NECS CHILLER RANGES



HIGHEST ENERGY EFFICIENCY

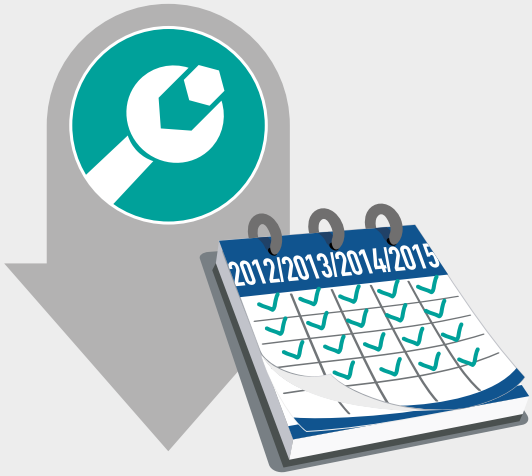
When energy efficiency is key, the Climaveneta brand NX/CA represents the best solution in terms of top level performance. With Eurovent class A EER values, calculated on the basis of the European standard EN14511, NX/CA ensures the highest efficiency values in its category.

NX/CA also features three different acoustic versions. In addition to the standard product, two further versions can be selected, LN-CA and SL-CA, which reduce noise by up to 10dB(A) while maintaining the same energy efficiency class.

LOWEST ENVIRONMENTAL IMPACT

The new NX range uses microchannel aluminum condenser coils for all units. This means less refrigerant is needed compared to traditional copper coils, ensuring the lowest possible ratio between the refrigerant volume and the cooling capacity delivered, making this product range unique in its reference market. The result is the ability to provide high cooling capacity units while respecting the environment.

Maximum reliability, cooling produced by using multi-circuit and multi-compressor systems, unbeatable energy efficiency, and system simplification: these are the advantages of Climaveneta brand chillers



MAXIMUM RELIABILITY

Unit with multi-circuit chilling section (two to four, depending on the size) designed to ensure maximum efficiency both at full and partial loads, ensuring uninterrupted service in the event one of the two circuits fail. The number of compressors also ensures an accurate multi-step management of the cooling capacity, in order to precisely meet the most demanding needs of comfort in modern buildings or the production of chilled water used for process cooling.

ABSOLUTE INTEGRABILITY

The availability of pumps and built-in water tanks reduces the installation phase.

The availability of the most common communication protocols simplifies the integration in the most complex monitoring systems.
This happens in comfort applications typically controlled by a BMS (Building Management Systems).

TECHNOLOGICAL CHOICES

FULL-ALUMINUM COILS

The new NX range uses microchannel aluminum condenser coils for all units. This means less refrigerant is needed compared to traditional copper coils, ensuring the lowest possible ratio between refrigerant volume and cooling capacity delivered, and better resistance to corrosion.

The reduction in weight achieved by using this technology also means that the units can be handled more easily and safely, thus overcoming specific construction restrictions or limits in the positioning and installation of the unit.

BUILT-IN HYDRONIC MODULE

The integrated hydronic module incorporates all the hydraulic components, thus optimizing installation time, space, and costs. All versions can be selected with single or twin pumps suitable for low and high pressure according to the installation needs. All the units can be equipped with a multi-circuit shell and tube heat exchanger, designed and manufactured in-house. NX and NECS units represent the best choice for hydronic applications in the residential and commercial markets.

EXCELLENCE IN RESULTS

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

UP TO 1500 kW

Compliance with the strictest European Standards

The distinguishing feature of the new NX units regards the calculation methods used to define the energy efficiency values. These values are now not only based on the capacity delivered and power consumed by the unit, but also take into account heat exchanger pressure drop, or the available pressure head if the unit is installed with pumps (as required by European standard EN14511). In this way, energy efficiency is no longer an index for evaluating the unit alone, but rather extends the assessment by considering the unit within the system, taking into account the energy required to pump the refrigerant or heat carrier fluid used in the system.

All NECS units, as well as the complete range of Climaveneta air cooled liquid chillers up to 1.500 kW, are certified by Eurovent for units with capacities over 600 kW. Climaveneta brand products are among the few units which participate in this non compulsory certification program.

This is consistent with Climaveneta's commitment for transparency as the best guarantee of quality and reliability for our partners and customers.

ADVANCED CONTROL SYSTEM

The W3000 control unit with liquid crystal display (LCD) is fitted on all units with a multi-language user interface, also available as remote key pad for a remote connection up to 500 metres. The Internal Clock manages a weekly schedule organised into time bands in order to minimize power consumption during periods of inactivity, such as during the night.
For multiple unit 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 and Echelon LonWorks.

EXTENDED OPERATING LIMITS

The full range of Climaveneta liquid chillers can operate in the most extreme environmental conditions. All sizes and versions can work at full load up to +46°C outdoor temperature, always ensuring premium levels of energy performance. In addition, the high efficiency CA versions are able to operate in these conditions even in low-noise mode, finding their natural position in urban centres where the most restrictive environmental constraints in terms of noise occur. The new units are also able to ensure leaving water temperatures down to -12°C and, with certain precautions for the very low outdoor temperatures. This range represent the ideal solution for most demanding industrial processes.

Three sound emission levels

In this new product range, the energy efficiency class is not the sole parameter used to select the units. The new NX units also have three different sound emission levels for each energy class. This means the best unit can be identified according to its requirements that depends on where the system will be installed and what is the application.

NX/K: liquid chiller with standard efficiency, compact version
NX/LN-K: liquid chiller with standard efficiency, compact and low-noise version
NX/SL-K: liquid chiller with standard efficiency, compact and super low-noise version
NX/CA: high efficiency liquid chiller, compact version
NX/LN-CA: high efficiency liquid chiller, compact and low-noise version
NX/SL-CA: high efficiency liquid chiller, compact and super low-noise version

With the new NX liquid chillers there are no more compromises when choosing the perfect version. High efficiency and low noise can exist side-by-side.

NX 0152P - 0812P

Water cooled chiller for outdoor installation
39,2-227 kW

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									
Length A	(6)	mm	1825	1825	1825	2395	2395	2395	2395
Width B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
Height 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+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	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								
Length A	(6)	mm	2825	2825	2825	3360	3980	3980
Width B	(6)	mm	1195	1195	1195	1195	1195	1195
Height H	(6)	mm	1980	1980	1980	1980	1980	1980
Operating weight	(6)	kg	830	870	900	980	1130	1110

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

R HFC R-410A | COOLING | PLATES | AXIAL | ENERGY CLASS | SCROLL

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+N/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	15	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									
Length A	(6)	mm	1825	1825	2395	2395	2395	2395	2825
Width B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
Height 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+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	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								
Length A	(6)	mm	2825	3360	3360	3360	3980	3980
Width B	(6)	mm	1195	1195	1195	1195	1195	1195
Height H	(6)	mm	1980	1980	1980	1980	1980	1980
Operating weight	(6)	kg	880	1000	1030	1060	1180	1150

NX 0152P - 0812P

Water cooled chiller for outdoor installation
39,2-227 kW

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+N/50	400/3+N/50	400/3+N/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								
Length A	(6)	mm	2395	2395	2395	2825	2825	2825
Width B	(6)	mm	1195	1195	1195	1195	1195	1195
Height 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+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	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								
Length A	(6)	mm	3360	3360	3980	3980	3980	3980
Width B	(6)	mm	1195	1195	1195	1195	1195	1195
Height H	(6)	mm	1980	1980	1980	1980	1980	1980
Operating weight	(6)	kg	860	960	1070	1080	1110	1180

R HFC R-410A | COOLING | PLATES | AXIAL | ENERGY CLASS | SCROLL

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+N/50	400/3+N/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									
Length A	(6)	mm	1825	2395	2395	2395	2395	2825	3360
Width B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
Height 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+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	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									
Length A	(6)	mm	3360	3360	3980	3160	3160	3160	4335
Width B	(6)	mm	1195	1195	1195	2250	2250	2250	2250
Height H	(6)	mm	1980	1980	1980	2170	2170	2170	2170
Operating weight	(6)	kg	960	1000	1080	1510	1550	1570	1810

NX 0152P - 0812P

Water cooled chiller for outdoor installation
39,2-227 kW

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+N/50	400/3+N/50	400/3+N/50	400/3+N/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)		3,9	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									
Length A	(6)	mm	2395	2395	2395	2825	2825	3360	3360
Width B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
Height 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+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	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									
Length A	(6)	mm	3980	3980	3980	3160	3160	4335	4335
Width B	(6)	mm	1195	1195	1195	2250	2250	2250	2250
Height H	(6)	mm	1980	1980	1980	2170	2170	2170	2170
Operating weight	(6)	kg	1050	1080	1090	1510	1550	1810	1870

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NX / SL-CA			0182P	0202P	0252P	0262P	0302P	0352P	0412P
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	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									
Length A	(6)	mm	2825	2825	3360	3360	3360	3980	3160
Width B	(6)	mm	1195	1195	1195	1195	1195	1195	2250
Height 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+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	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								
Length A	(6)	mm	3160	3160	4335	4335	4335	5510
Width B	(6)	mm	2250	2250	2250	2250	2250	2250
Height H	(6)	mm	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1450	1480	1740	1820	1850	2130

NX 0614P - 1214P

Water cooled chiller for outdoor installation
159-327 kW

NX / K			0614P	0714P	0814P	0914P	1014P	1114P	1214P
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	165	194	218	248	289	308	327
Total power input	(1)	kW	58,3	66,7	78,9	88,6	99,0	108	118
EER	(1)	kW/kW	2,83	2,91	2,76	2,80	2,92	2,85	2,76
ESEER	(1)	kW/kW	4,06	4,39	4,30	4,41	4,26	4,27	4,18
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	164	193	217	247	288	307	325
EER	(1)(2)	kW/kW	2,78	2,86	2,72	2,76	2,87	2,80	2,72
ESEER	(1)(2)	kW/kW	3,85	4,16	4,08	4,18	4,05	4,08	3,99
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	164	193	217	247	288	307	325
SEER	(7)(8)		3,81	4,05	3,95	4,06	4,01	4,01	3,88
Performance ηs	(7)(9)	%	149	159	155	159	157	157	152
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,87	9,28	10,41	11,87	13,83	14,75	15,62
Pressure drop	(1)	kPa	45,0	47,1	47,8	50,4	54,8	46,8	52,5
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	17,0	18,4	19,6	21,6	26,8	29,0	29,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	60	60	61	62	63	63	63
Sound power level in cooling	(4)(5)	dB(A)	92	92	93	94	95	95	95
SIZE AND WEIGHT									
Length A	(6)	mm	3160	3160	3160	3160	4335	4335	4335
Width B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
Height H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1510	1680	1690	1830	2250	2300	2330

NX / LN-K			0614P	0714P	0814P	0914P	1014P	1114P	1214P
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	185	208	235	274	290	320
Total power input	(1)	kW	58,1	68,6	79,6	92,2	101	112	118
EER	(1)	kW/kW	2,75	2,70	2,62	2,55	2,71	2,60	2,70
ESEER	(1)	kW/kW	4,13	4,42	4,37	4,41	4,25	4,25	4,37
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	159	185	207	234	273	289	319
EER	(1)(2)	kW/kW	2,70	2,66	2,58	2,51	2,67	2,57	2,66
ESEER	(1)(2)	kW/kW	3,94	4,19	4,16	4,19	4,05	4,06	4,16
Cooling energy class			C	D	D	D	D	D	D
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	159	185	207	234	273	289	319
SEER	(7)(8)		3,80	4,05	4,01	4,04	3,99	3,97	4,03
Performance ηs	(7)(9)	%	149	159	158	158	157	156	158
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,64	8,87	9,96	11,24	13,10	13,89	15,32
Pressure drop	(1)	kPa	42,4	43,0	43,7	45,2	49,2	41,5	50,5
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	17,0	18,4	19,6	21,6	26,8	29,0	29,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	54	54	55	56	57	57	58
Sound power level in cooling	(4)(5)	dB(A)	86	86	87	88	89	89	90
SIZE AND WEIGHT									
Length A	(6)	mm	3160	3160	3160	3160	4335	4335	4335
Width B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
Height H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1550	1730	1740	1870	2300	2350	2370

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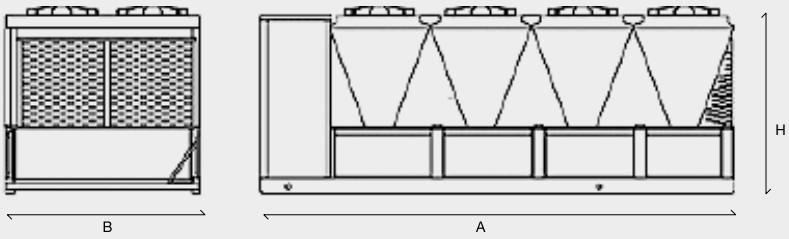
NX / SL-K			0614P	0714P	0814P	0914P	1014P	1114P	1214P
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	kW	159	180	214	241	264	296	312
Total power input	(1)	kW	56,3	70,7	77,8	89,3	104	109	120
EER	(1)	kW/kW	2,82	2,54	2,75	2,70	2,55	2,71	2,61
ESEER	(1)	kW/kW	4,34	4,41	4,40	4,41	4,28	4,34	4,26
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	158	179	213	240	263	295	311
EER	(1)(2)	kW/kW	2,78	2,51	2,71	2,66	2,51	2,68	2,57
ESEER	(1)(2)	kW/kW	4,13	4,21	4,19	4,20	4,09	4,15	4,07
Cooling energy class			C	D	C	D	D	D	D
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	158	179	213	240	263	295	311
SEER	(7)(8)		3,92	4,03	4,04	4,07	3,99	4,03	3,91
Performance ηs	(7)(9)	%	154	158	159	160	157	158	153
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,60	8,60	10,25	11,54	12,63	14,16	14,93
Pressure drop	(1)	kPa	41,9	40,5	46,3	47,6	45,7	43,1	48,0
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	17,0	18,4	25,2	27,2	26,8	34,6	34,6
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	50	51	51	52	52	54	54
Sound power level in cooling	(4)(5)	dB(A)	82	83	83	84	84	86	86
SIZE AND WEIGHT									
Length A	(6)	mm	3160	3160	4335	4335	4335	5510	5510
Width B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
Height H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1550	1730	2030	2170	2300	2700	2730



Note:
1 Acqua scambiatore freddo lato utenza (in/out) 12°C/7°C; Aria scambiatore lato sorgente (in) 35°C.
2 Valori riferiti alla normativa EN14511-3:2013.
3 Livello di pressione sonora medio a 10m di distanza, per unità in campo libero su superficie riflettente; valore non vincolante calcolato dalla potenza sonora
4 Potenza sonora sulla base di misure effettuate in accordo alla normativa ISO 9614.
5 Potenza sonora in refrigerazione, outdoors.
6 Unità in configurazione ed esecuzione standard, priva di accessori opzionali.
7 Efficienza energetica stagionale del raffreddamento d'ambiente in condizioni climatiche AVERAGE [REGOLAMENTO (UE) N. 2016/2281]
8 Indice di efficienza energetica stagionale
9 Efficienza energetica stagionale del raffreddamento d'ambiente
Le unità, evidenziate nella presente pubblicazione, contengono gas fluorurato HFC R410A [GWP$_{100}$ 2088] ad effetto serra.
Dati certificati in EUROVENT

NX 0614T - 1214T

Refrigeratore di liquido con sorgente aria per installazione esterna 159-352 kW

NX / K			0614T	0714T	0814T	0914T	1014T	1114T	1214T
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	165	194	218	248	289	308	327
Total power input	(1)	kW	58,3	66,7	78,9	88,6	99,0	108	118
EER	(1)	kW/kW	2,83	2,91	2,76	2,80	2,92	2,85	2,76
ESEER	(1)	kW/kW	4,06	4,39	4,30	4,41	4,26	4,27	4,18
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	164	193	217	247	288	307	326
EER	(1)(2)	kW/kW	2,79	2,87	2,71	2,76	2,86	2,81	2,73
ESEER	(1)(2)	kW/kW	3,92	4,21	4,08	4,20	4,02	4,11	4,02
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	164	193	217	247	288	307	326
SEER	(7)(8)		3,81	4,11	3,95	4,10	3,97	4,05	3,91
Performance ηs	(7)(9)	%	150	161	155	161	156	159	153
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,87	9,28	10,41	11,87	13,83	14,75	15,62
Pressure drop	(1)	kPa	23,3	32,4	50,9	45,5	61,7	38,0	42,7
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	22,0	22,0	24,6	26,0	31,6	35,4	35,4
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	60	60	61	62	63	63	63
Sound power level in cooling	(4)(5)	dB(A)	92	92	93	94	95	95	95
SIZE AND WEIGHT									
Length A	(6)	mm	3160	3160	3160	3160	4335	4335	4335
Width B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
Height H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1650	1810	1820	1950	2340	2530	2550

NX / LN-K			0614T	0714T	0814T	0914T	1014T	1114T	1214T
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	185	208	235	274	290	320
Total power input	(1)	kW	58,1	68,6	79,6	92,2	101	112	118
EER	(1)	kW/kW	2,75	2,70	2,62	2,55	2,71	2,60	2,70
ESEER	(1)	kW/kW	4,13	4,42	4,37	4,41	4,25	4,25	4,37
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	159	185	207	234	273	290	319
EER	(1)(2)	kW/kW	2,72	2,67	2,57	2,51	2,67	2,57	2,67
ESEER	(1)(2)	kW/kW	3,99	4,25	4,16	4,21	4,04	4,10	4,21
Cooling energy class			C	D	D	D	D	D	D
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	159	185	207	234	273	290	319
SEER	(7)(8)		3,84	4,11	4,01	4,06	3,96	4,01	4,07
Performance ηs	(7)(9)	%	150	162	157	159	156	157	160
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,64	8,87	9,96	11,24	13,10	13,89	15,32
Pressure drop	(1)	kPa	21,9	29,6	46,5	40,7	55,4	33,7	41,0
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	22,0	22,0	24,6	26,0	31,6	35,4	35,4
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	54	54	55	56	57	57	58
Sound power level in cooling	(4)(5)	dB(A)	86	86	87	88	89	89	90
SIZE AND WEIGHT									
Length A	(6)	mm	3160	3160	3160	3160	4335	4335	4335
Width B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
Height H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1700	1860	1870	1990	2380	2580	2600

R HFC R-410A | COOLING | PLATES | AXIAL | ENERGY CLASS | SCROLL

NX / SL-K			0614T	0714T	0814T	0914T	1014T	1114T	1214T
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	180	214	241	264	296	312
Total power input	(1)	kW	56,3	70,7	77,8	89,3	104	109	120
EER	(1)	kW/kW	2,82	2,54	2,75	2,70	2,55	2,71	2,61
ESEER	(1)	kW/kW	4,34	4,41	4,40	4,41	4,28	4,34	4,26
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	158	179	213	240	263	295	311
EER	(1)(2)	kW/kW	2,79	2,52	2,71	2,66	2,51	2,68	2,58
ESEER	(1)(2)	kW/kW	4,18	4,24	4,19	4,20	4,07	4,17	4,10
Cooling energy class			C	D	C	D	D	D	D
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	158	179	213	240	263	295	311
SEER	(7)(8)		4,00	4,08	4,04	4,08	3,97	4,06	3,94
Performance ηs	(7)(9)	%	157	160	158	160	156	159	155
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,60	8,60	10,25	11,54	12,63	14,16	14,93
Pressure drop	(1)	kPa	21,7	27,8	49,3	43,0	51,4	35,1	39,0
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	22,0	22,0	30,2	31,6	31,6	41,0	41,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	50	51	51	52	52	54	54
Sound power level in cooling	(4)(5)	dB(A)	82	83	83	84	84	86	86
SIZE AND WEIGHT									
Length A	(6)	mm	3160	3160	4335	4335	4335	5510	5510
Width B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
Height H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1700	1860	2160	2290	2380	2930	2950

NX / CA			0614T	0714T	0814T	0914T	1014T	1114T	1214T
Power supply			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	174	205	235	266	302	330	352
Total power input	(1)	kW	54,4	65,0	72,9	84,1	95,8	103	111
EER	(1)	kW/kW	3,20	3,16	3,23	3,17	3,15	3,21	3,17
ESEER	(1)	kW/kW	4,31	4,26	4,45	4,49	4,43	4,35	4,37
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	174	204	234	265	301	329	351
EER	(1)(2)	kW/kW	3,16	3,11	3,16	3,11	3,11	3,16	3,12
ESEER	(1)(2)	kW/kW	4,17	4,06	4,20	4,24	4,26	4,17	4,18
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	174	204	234	265	301	329	351
SEER	(7)(8)		4,06	4,03	4,10	4,17	4,25	4,13	4,10
Performance ηs	(7)(9)	%	159	158	161	164	167	162	161
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	8,33	9,81	11,26	12,74	14,44	15,78	16,83
Pressure drop	(1)	kPa	26,1	36,2	59,5	52,4	36,5	43,6	49,6
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	22,0	27,6	30,2	31,6	35,4	41,0	41,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	60	61	62	63	63	64	65
Sound power level in cooling	(4)(5)	dB(A)	92	93	94	95	95	96	97
SIZE AND WEIGHT									
Length A	(6)	mm	3160	4335	4335	4335	4335	5510	5510
Width B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
Height H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1700	2150	2160	2290	2550	2930	2950

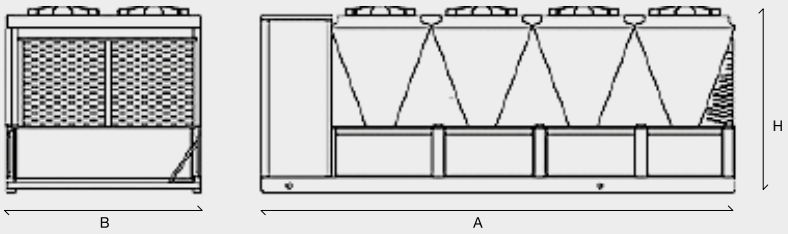
NX 0614T - 1214T

Refrigeratore di liquido con sorgente aria per installazione esterna 159-352 kW

NX / LN-CA			0614T	0714T	0814T	0914T	1014T	1114T	1214T
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	168	198	227	262	295	318	344
Total power input	(1)	kW	52,8	61,6	70,5	82,8	93,2	99,6	109
EER	(1)	kW/kW	3,17	3,22	3,23	3,17	3,16	3,19	3,17
ESEER	(1)	kW/kW	4,56	4,61	4,70	4,71	4,55	4,63	4,70
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	167	198	226	261	294	317	343
EER	(1)(2)	kW/kW	3,13	3,17	3,16	3,11	3,12	3,15	3,12
ESEER	(1)(2)	kW/kW	4,40	4,40	4,44	4,47	4,39	4,43	4,48
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	167	198	226	261	294	317	343
SEER	(7)(8)		4,23	4,31	4,31	4,36	4,37	4,39	4,37
Performance ηs	(7)(9)	%	166	170	169	171	172	172	172
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	8,01	9,49	10,87	12,53	14,08	15,21	16,47
Pressure drop	(1)	kPa	24,1	33,8	55,5	50,7	34,7	40,5	47,5
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	A
Refrigerant charge		kg	22,0	27,6	30,2	31,6	41,0	41,0	41,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	54	55	56	57	58	59	59
Sound power level in cooling	(4)(5)	dB(A)	86	87	88	89	90	91	91
SIZE AND WEIGHT									
Length A	(6)	mm	3160	4335	4335	4335	5510	5510	5510
Width B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
Height H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1700	2150	2160	2290	2880	2900	2930

NX / SL-CA			0614T	0714T	0814T	0914T	1014T	1114T	1214T
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	167	195	224	259	292	317	344
Total power input	(1)	kW	52,3	61,0	69,9	82,0	92,6	99,6	109
EER	(1)	kW/kW	3,20	3,20	3,21	3,16	3,15	3,18	3,16
ESEER	(1)	kW/kW	4,69	4,70	4,68	4,72	4,72	4,68	4,70
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	167	194	223	258	291	316	342
EER	(1)(2)	kW/kW	3,16	3,15	3,14	3,11	3,11	3,13	3,11
ESEER	(1)(2)	kW/kW	4,52	4,49	4,42	4,47	4,55	4,49	4,47
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	167	194	223	258	29	316	342
SEER	(7)(8)		4,33	4,37	4,28	4,35	4,50	4,42	4,35
Performance ηs	(7)(9)	%	170	172	168	171	177	174	171
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	8,00	9,32	10,72	12,40	13,95	5,14	16,43
Pressure drop	(1)	kPa	24,1	32,7	53,9	49,6	34,1	40,1	47,2
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	27,6	27,6	35,8	37,2	41,0	41,0	41,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	51	51	52	53	54	55	55
Sound power level in cooling	(4)(5)	dB(A)	83	83	84	85	86	87	87
SIZE AND WEIGHT									
Length A	(6)	mm	4335	4335	5510	5510	5510	5510	5510
Width B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
Height H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1980	2150	2490	2610	2880	2900	2930

R HFC R-410A | COOLING | PLATES | AXIAL | ENERGY CLASS | SCROLL



Notes:
1 Acqua scambiatore freddo lato utenza (in/out) 12°C/7°C; Aria scambiatore lato sorgente (in) 35°C.
2 Valori riferiti alla normativa EN14511-3:2013.
3 Livello di pressione sonora medio a 10m di distanza, per unità in campo libero su superficie riflettente; valore non vincolante calcolato dalla potenza sonora
4 Potenza sonora sulla base di misure effettuate in accordo alla normativa ISO 9614.
5 Potenza sonora in refrigerazione, outdoors.
6 Unità in configurazione ed esecuzione standard, priva di accessori opzionali.
7 Efficienza energetica stagionale del raffreddamento d'ambiente in condizioni climatiche AVERAGE [REGOLAMENTO (UE) N. 2016/2281]
8 Indice di efficienza energetica stagionale
9 Efficienza energetica stagionale del raffreddamento d'ambiente
Le unità, evidenziate nella presente pubblicazione, contengono gas fluorurato HFC R410A [GWP_{100} 2088] ad effetto serra.
Dati certificati in EUROVENT

NECS 1314 - 3218

Refrigeratore di liquido con sorgente
aria per installazione esterna 334-885 kW

NECS / B			1314	1414	1614	1715	1816	2015	2116
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	354	379	413	458	501	526	569
Total power input	(1)	kW	124	130	148	160	172	184	195
EER	(1)	kW/kW	2,85	2,91	2,80	2,86	2,92	2,86	2,91
ESEER	(1)	kW/kW	4,16	4,24	4,04	4,19	4,21	4,07	4,18
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	353	377	412	456	499	524	567
EER	(1)(2)	kW/kW	2,80	2,87	2,75	2,81	2,87	2,82	2,87
ESEER	(1)(2)	kW/kW	3,95	4,06	3,86	3,99	3,99	3,91	4,00
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	353	377	412	456	499	524	567
SEER	(7)(8)		4,11	4,22	4,10	4,17	4,22	4,10	4,23
Performance ηs	(7)(9)	%	162	166	161	164	166	161	166
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	16,94	18,12	19,77	21,91	23,97	25,14	27,23
Pressure drop	(1)	kPa	54,0	43,8	52,2	48,5	58,1	39,3	46,1
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	5	6	5	6
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	39,0	45,0	45,0	53,0	58,0	63,0	67,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	64	64	64	64	65	65	64
Sound power level in cooling	(4)(5)	dB(A)	96	96	96	96	97	97	97
SIZE AND WEIGHT									
Length A	(6)	mm	3905	3905	3905	5080	5080	5080	6255
Width B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height H	(6)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6)	kg	2730	2770	2800	3400	3650	3690	4200

NECS / B			2316	2416	2418	2618	2818	3018	3218
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	604	635	665	708	759	793	827
Total power input	(1)	kW	214	219	234	249	261	279	296
EER	(1)	kW/kW	2,82	2,90	2,85	2,85	2,92	2,84	2,80
ESEER	(1)	kW/kW	4,11	4,08	4,12	4,18	4,27	4,20	4,07
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	602	632	663	705	757	791	824
EER	(1)(2)	kW/kW	2,78	2,86	2,81	2,80	2,88	2,81	2,76
ESEER	(1)(2)	kW/kW	3,94	3,90	3,94	3,98	4,10	4,03	3,90
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	602	632	663	705	757	791	824
SEER	(7)(8)		4,15	4,14	4,12	4,17	4,29	4,22	4,10
Performance ηs	(7)(9)	%	163	162	162	164	168	166	161
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	28,87	30,36	31,81	33,85	36,31	37,95	39,53
Pressure drop	(1)	kPa	44,3	49,0	48,5	54,9	42,7	46,7	50,6
REFRIGERANT CIRCUIT									
Compressors nr.		N°	6	6	8	8	8	8	8
No. Circuits		N°	3	2	4	4	4	4	4
Refrigerant charge		kg	67,0	76,0	75,0	82,0	93,0	93,0	93,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	64	65	65	65	66	66	66
Sound power level in cooling	(4)(5)	dB(A)	97	98	98	98	99	99	99
SIZE AND WEIGHT									
Length A	(6)	mm	6255	6255	7430	7430	7430	7430	7430
Width B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height H	(6)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6)	kg	4220	4350	5260	5300	5370	5400	5430

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

R HFC R-410A | COOLING | PLATES | AXIAL | ENERGY CLASS | SCROLL

NECS / SL			1314	1414	1614	1715	1816	2015	2116
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	334	358	397	431	465	498	532
Total power input	(1)	kW	129	137	153	168	183	192	206
EER	(1)	kW/kW	2,58	2,61	2,60	2,57	2,55	2,60	2,58
ESEER	(1)	kW/kW	4,29	4,31	4,21	4,33	4,36	4,26	4,37
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	332	357	396	430	463	496	531
EER	(1)(2)	kW/kW	2,55	2,58	2,56	2,53	2,51	2,57	2,55
ESEER	(1)(2)	kW/kW	4,10	4,15	4,03	4,14	4,15	4,12	4,19
Cooling energy class			D	D	D	D	D	D	D
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	332	357	396	430	463	496	531
SEER	(7)(8)		4,03	4,12	4,02	4,13	4,13	4,14	4,21
Performance ηs	(7)(9)	%	158	162	158	162	162	163	165
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	15,95	17,13	19,01	20,63	22,24	23,80	25,46
Pressure drop	(1)	kPa	47,8	39,2	48,2	43,0	50,0	35,2	40,3
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	5	6	5	6
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	42,0	45,0	54,0	57,0	55,0	72,0	71,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	54	54	54	54	54	54	54
Sound power level in cooling	(4)(5)	dB(A)	86	86	86	87	87	87	87
SIZE AND WEIGHT									
Length A	(6)	mm	5080	5080	5080	6255	6255	6255	7430
Width B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height H	(6)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6)	kg	3060	3160	3200	3900	4110	4190	4640

NECS / SL			2316	2416	2418	2618	2818	3018	3218
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	579	596	616	666	718	758	795
Total power input	(1)	kW	220	230	245	258	275	288	306
EER	(1)	kW/kW	2,63	2,59	2,52	2,58	2,61	2,63	2,60
ESEER	(1)	kW/kW	4,38	4,29	4,32	4,39	4,36	4,39	4,27
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	577	594	614	664	716	755	792
EER	(1)(2)	kW/kW	2,60	2,56	2,49	2,55	2,58	2,60	2,56
ESEER	(1)(2)	kW/kW	4,20	4,12	4,15	4,19	4,19	4,21	4,09
Cooling energy class			D	D	E	D	D	D	D
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	577	594	614	664	716	755	792
SEER	(7)(8)		4,21	4,14	4,11	4,16	4,20	4,21	4,11
Performance ηs	(7)(9)	%	165	163	162	163	165	166	161
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	27,70	28,49	29,45	31,87	34,32	36,24	38,00
Pressure drop	(1)	kPa	40,8	43,1	41,6	48,7	38,2	42,6	46,8
REFRIGERANT CIRCUIT									
Compressors nr.		N°	6	6	8	8	8	8	8
No. Circuits		N°	3	2	4	4	4	4	4
Refrigerant charge		kg	77,0	86,0	89,0	89,0	93,0	103	112
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	55	55	55	56	57	57	57
Sound power level in cooling	(4)(5)	dB(A)	88	88	88	89	90	90	90
SIZE AND WEIGHT									
Length A	(6)	mm	7430	7430	7430	8605	9780	9780	9780
Width B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height H	(6)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6)	kg	4730	4790	5410	5810	6160	6200	6250

NECS 1314 - 3218

Refrigeratore di liquido con sorgente aria per installazione esterna 334-885 kW

NECS / CA			1314	1414	1614	1715	1816	2015	2116
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	370	391	438	481	518	549	591
Total power input	(1)	kW	120	125	142	154	166	177	189
EER	(1)	kW/kW	3,10	3,13	3,10	3,12	3,11	3,10	3,12
ESEER	(1)	kW/kW	4,45	4,48	4,39	4,54	4,50	4,42	4,48
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	369	390	436	479	515	547	589
EER	(1)(2)	kW/kW	3,04	3,08	3,04	3,07	3,05	3,06	3,07
ESEER	(1)(2)	kW/kW	4,22	4,28	4,17	4,30	4,24	4,23	4,28
Cooling energy class			B	B	B	B	B	B	B
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	369	390	436	479	515	547	589
SEER	(7)(8)		4,16	4,25	4,14	4,26	4,19	4,23	4,27
Performance ηs	(7)(9)	%	164	167	163	167	165	166	168
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	17,72	18,72	20,97	23,01	24,75	26,26	28,28
Pressure drop	(1)	kPa	59,0	46,8	58,7	53,5	61,9	42,9	49,8
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	5	6	5	6
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	46,0	54,0	54,0	62,0	67,0	72,0	77,0
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	65	65	65	64	65	65	65
Sound power level in cooling	(4)(5)	dB(A)	97	97	97	97	98	98	98
SIZE AND WEIGHT									
Length A	(6)	mm	5080	5080	5080	6255	6255	6255	7430
Width B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height H	(6)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6)	kg	3060	3100	3130	3800	4050	4090	4540

NECS / CA			2316	2416	2418	2618	2818	3018	3218
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	633	657	701	740	785	831	885
Total power input	(1)	kW	204	212	225	239	250	266	283
EER	(1)	kW/kW	3,10	3,10	3,11	3,10	3,13	3,12	3,13
ESEER	(1)	kW/kW	4,48	4,37	4,44	4,46	4,50	4,49	4,45
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	630	655	699	737	782	828	881
EER	(1)(2)	kW/kW	3,06	3,05	3,06	3,04	3,09	3,07	3,07
ESEER	(1)(2)	kW/kW	4,27	4,16	4,22	4,22	4,30	4,28	4,22
Cooling energy class			B	B	B	B	B	B	B
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	630	655	699	737	782	828	881
SEER	(7)(8)		4,28	4,17	4,18	4,17	4,28	4,27	4,21
Performance ηs	(7)(9)	%	168	164	164	164	168	168	166
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	30,26	31,43	33,55	35,39	37,52	39,72	42,31
Pressure drop	(1)	kPa	48,6	52,5	54,0	60,0	45,6	51,1	58,0
REFRIGERANT CIRCUIT									
Compressors nr.		N°	6	6	8	8	8	8	8
No. Circuits		N°	3	2	4	4	4	4	4
Refrigerant charge		kg	81,0	86,0	89,0	99,0	112	112	112
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	66	66	66	66	67	67	67
Sound power level in cooling	(4)(5)	dB(A)	99	99	99	99	100	100	100
SIZE AND WEIGHT									
Length A	(6)	mm	7430	7430	9780	9780	9780	9780	9780
Width B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height H	(6)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6)	kg	4630	4690	5930	5970	6040	6070	6110

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

R HFC R-410A | COOLING | PLATES | AXIAL | A ENERGY CLASS | SCROLL

NECS / SL-CA			1314	1414	1614	1715	1816
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1)	kW	370	394	440	481	522
Total power input	(1)	kW	119	126	142	154	167
EER	(1)	kW/kW	3,11	3,12	3,11	3,12	3,12
ESEER	(1)	kW/kW	4,57	4,56	4,44	4,54	4,58
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(2)	kW	369	393	438	480	520
EER	(1)(2)	kW/kW	3,07	3,08	3,06	3,08	3,08
ESEER	(1)(2)	kW/kW	4,38	4,39	4,27	4,39	4,40
Cooling energy class			B	B	B	B	B
ENERGY EFFICIENCY							
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)							
Ambient refrigeration							
Prated,c	(7)	kW	369	393	438	480	520
SEER	(7)(8)		4,32	4,37	4,26	4,40	4,37
Performance ηs	(7)(9)	%	170	172	167	173	172
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	(1)	l/s	17,72	18,85	21,05	22,99	24,94
Pressure drop	(1)	kPa	41,9	35,9	44,8	32,9	38,7
REFRIGERANT CIRCUIT							
Compressors nr.		N°	4	4	4	5	6
No. Circuits		N°	2	2	2	2	2
Refrigerant charge		kg	53,0	67,0	67,0	77,0	81,0
NOISE LEVEL							
Sound Pressure	(3)	dB(A)	53	53	53	54	54
Sound power level in cooling	(4)(5)	dB(A)	86	86	86	87	87
SIZE AND WEIGHT							
Length A	(6)	mm	6255	6255	6255	7430	7430
Width B	(6)	mm	2260	2260	2260	2260	2260
Height H	(6)	mm	2450	2450	2450	2450	2450
Operating weight	(6)	kg	3490	3700	3730	4400	4650

NECS / SL-CA			2015	2116	2316	2416	2418
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1)	kW	550	592	638	662	695
Total power input	(1)	kW	177	189	204	213	223
EER	(1)	kW/kW	3,11	3,13	3,12	3,11	3,12
ESEER	(1)	kW/kW	4,52	4,60	4,59	4,53	4,58
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(2)	kW	549	590	636	660	693
EER	(1)(2)	kW/kW	3,08	3,08	3,08	3,06	3,09
ESEER	(1)(2)	kW/kW	4,35	4,40	4,39	4,33	4,43
Cooling energy class			B	B	B	B	B
ENERGY EFFICIENCY							
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)							
Ambient refrigeration							
Prated,c	(7)	kW	549	590	636	660	693
SEER	(7)(8)		4,37	4,39	4,40	4,33	4,39
Performance ηs	(7)(9)	%	172	173	173	170	173
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	(1)	l/s	26,32	28,29	30,52	31,68	33,25
Pressure drop	(1)	kPa	36,8	42,5	44,7	48,1	35,8
REFRIGERANT CIRCUIT							
Compressors nr.		N°	5	6	6	6	8
No. Circuits		N°	2	2	3	2	4
Refrigerant charge		kg	86,0	91,0	96,0	98,0	98,0
NOISE LEVEL							
Sound Pressure	(3)	dB(A)	54	54	55	55	55
Sound power level in cooling	(4)(5)	dB(A)	87	87	88	88	88
SIZE AND WEIGHT							
Length A	(6)	mm	7430	8605	8605	8605	9780
Width B	(6)	mm	2260	2260	2260	2260	2260
Height H	(6)	mm	2450	2450	2450	2450	2450
Operating weight	(6)	kg	4510	4990	5360	5360	6100

“L’ESPERIENZA È DI GRAN LUNGA LA MIGLIOR PROVA”

Sir Francis Bacon
Filosofo britannico (1561 - 1626)

GRAND HYATT HOTEL GOA

2008 - Goa (India)

Sistema Idronico

Potenza frigorifera totale:
4550 kW

Macchine installate:
2x NECS/B 512,
2x NECS/B 352,
2x NECS/B 252,
2x NECS/B 152,
3x FOCS-W 4802

PROGETTO

Localizzato nella splendida baia di Bambolin nel nord di Goa, il Grand Hotel Hyatt è base ideale per riunioni aziendali o viaggi di piacere grazie alle ben 314 stanze e alle numerose sale riunioni. Progettato in perfetto stile indoeuropeo, l'Hotel si caratterizza per la sua maestosità e un design che cura i particolari, il tutto in perfetta armonia con l'ambiente circostante.

SFIDA

Tutte le aree del complesso, dalle camere al centro congressi alla Spa, sono dotate di strutture all'avanguardia che offrono un trattamento di altissimo livello per qualunque ospite ed esigenza di business.

SOLUZIONE

Per il perfetto comfort di questo lussuoso hotel, è stata scelta l'installazione di unità NECS dotate di sezione frigorifera con sistema multi circuito progettate per assicurare massima efficienza sia a pieno carico che ai carichi parziali. Ridondanza del sistema che è sinonimo di affidabilità e funzionamento continuo.

MORE THAN 1000 PROJECTS ALL OVER THE WORLD

E.LECRERC - BOBIGNY

2013 Bobigny (France)

Application: Supermarket
Plant type: Hydronic System
Cooling capacity: 359 kW
Heating capacity: 400 kW
Installed machines:
1x NECS-CN/B 0904,
1x NECS-CN/B 0604

HOTEL NOVA SENIA

2008 Tarragona (Spain)

Application: Hotel and resorts
Plant type: Hydronic System
Cooling capacity: 70 kW
Installed machines:
1x NECS/SL 0302

HOSPITAL DE LA RIBERA

2008 Alzira (Spain)

Application: Healthcare / Hospitals
Plant type: Hydronic System
Cooling capacity: 34 kW
Installed machines:
1x NECS/SL 0152

GRAN THEATRE DE RABAT

2015 - 2018 Rabat (Morocco)

Application: Theatres
Plant type: Hydronic System
Cooling capacity: 2500 kW
Heating capacity: 1786 kW
Installed machines:
2x NECS-Q 3218,
1x NECS/B 3218

Every project is characterised by different usage conditions and system specifications for many different latitudes. All of them share high energy efficiency, lowest noise emissions and total reliability of the Climaveneta brand.

GALERIA PÓŁNOCNA

2016 Warsaw (Poland)

Application: Shopping Centre
Plant type: Hydronic System
Cooling capacity: 1247 kW
Installed machines:
1x NX/K 0352P,
1x NX/K 0452P,
1x NECS/SL 1816,
2x NECS/SL 2015

HOTEL MANSOUR EDDAHBI & PALAIS DES CONGRES

2014 Marrakech (Morocco)

Application: Hotel and resorts
Plant type: Hydronic System
Cooling capacity: 6114 kW
Heating capacity: 4374 kW

Installed machines:
1x NECS/B 1314,
7x NECS-N/B 1716,
2x NECS-N/B 1614,
1x FOCS2-W/CA 3202,
4x NX-N/K 0904,
1x NECS-N/B 0452T

SWISS MEDICAL GROUP ALTOS DE SALTA HOSPITAL

2016 - 2017 Salta (Argentina)

Application: Healthcare / Hospitals
Plant type: Hydronic System
Cooling capacity: 1328 kW
Installed machines:
2x NECS-B/2418,
38x WIZARD

WOOLWORTHS MASCOT

2017 Mascot (Australia)

Application: Supermarket
Plant type: Hydronic System
Cooling capacity: 458 kW
Installed machines:
1x NECS/B 1715

NECS-NX_ENG_01-2019

CLIMAVENETA®

eco Changes for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

MITSUBISHI ELECTRIC HYDRONICS & IT COOLING SYSTEMS S.p.A.

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