

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

COMFORT

CHILLERS

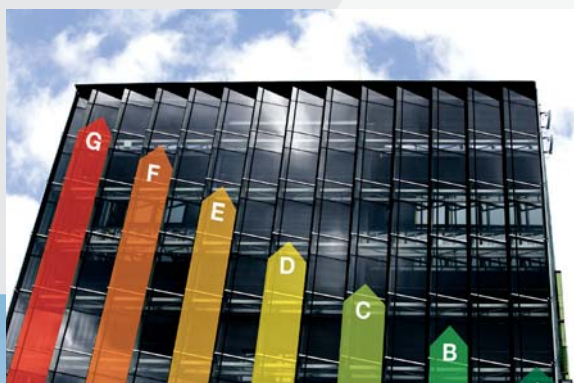
# NECS-NX

**NEW GENERATION OF WATER CHILLERS FOR  
COMFORT AND PROCESS COOLING APPLICATIONS.  
CAPACITY RANGE 39÷885 kW,  
SCROLL COMPRESSORS AND R410A**



# WHEN UNITING MAXIMUM EFFICIENCY, INTEGRATION AND PRECISION OF CONTROL IS THE GREATEST CHALLENGE

Modern multi-function buildings, shopping centres, large business centres and process cooling are characterized by growing comfort and precision of control which require to integrate the units into even more extremely complex systems.



## Challenging energy efficiency

Reduced investments and operating costs, respect for progressively more strict regulatory restrictions, attention to environmental impact and use of renewables are increasingly vital factors in evaluating the units assigned to the production of energy within all the comfort installations.



## Growing attention on sustainability

The constant search for energy-saving policies together with a growing attention on sustainability has a strong impact on the life-cycle of more complex systems, from the choice of materials in the design phase, their use in the construction and the maintenance of the facilities until their disposal and subsequent reuse.



## Maximum reliability

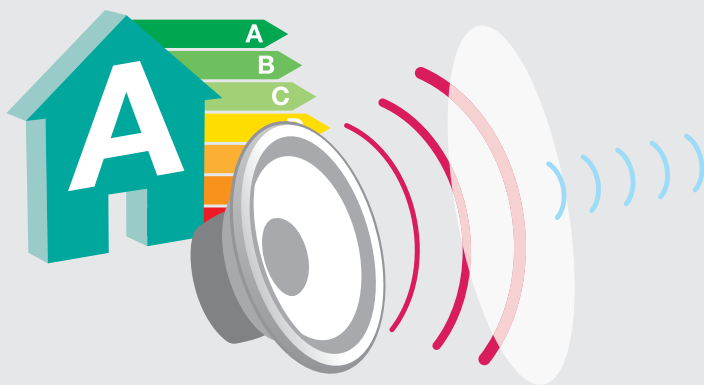
La necessità di garantire continuità di esercizio durante tutta la durata dell'anno impone di prevedere soluzioni in grado di rispondere efficacemente ai più stringenti requisiti di affidabilità. Questo aspetto assume primaria importanza quando le unità centralizzate vengono utilizzate per servire simultaneamente dispositivi di diversa natura in differenti contesti della struttura, come nel caso di unità di trattamento dell'aria, ventilconvettori oppure travi fredde.



## System simplification and versatility

La realizzazione di impianti di nuova generazione come la riqualificazioni di strutture esistenti richiede la massima flessibilità applicativa sia in sede progettuale che nella realizzazione in cantiere. La consapevolezza che i massimi risultati sono da ricercare non nel singolo componente ma in un contesto più esteso impone di incrementare il livello di integrazione e la sinergia tra dispositivi e tecnologie di diversa natura con sempre maggiore frequenza.

# THE SOLUTIONS



## HIGHEST ENERGY EFFICIENCY

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

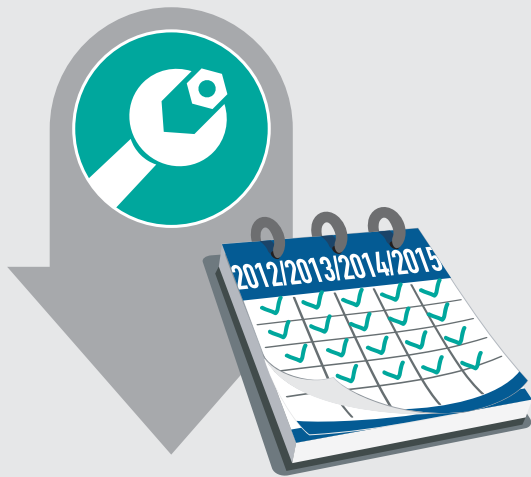
NX/CA also features three different versions as regards sound emissions. In addition to the standard version, two further versions can be selected, LN-CA and SL-CA, which reduce noise by up to 10dB(A) while maintaining the same energy efficiency class.

Hence, the main new feature that distinguishes the Climaveneta NX/CA units from other products available on the market is the availability of a complete selection of versions with different sound emission levels that do not affect the energy efficiency class but maintain exceptional efficiency, all rated Eurovent class A.

## LOWEST ENVIRONMENTAL IMPACT

The new NX range uses microchannel aluminum condenser coils on 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 with complete respect of the environment.

**Maximum reliability, production of the cooling energy by using multi-circuit and multi-compressor systems, unbeatable energy efficiency, 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 load and part loads, assuring uninterrupted service in the event one of the two circuits fails.

The number of compressors also ensures an accurate multi-step management of the cooling capacity provided by each unit in order to precisely meet the most demanding needs of comfort into modern buildings or the production of chilled water used within cooling processes.



## **ABSOLUTE INTEGRABILITY**

The availability of pumps and built-in water tanks allow to reduce the installation activities. The integrated hydronic module incorporates all the hydraulic components, thus optimizing installation space, time and costs. All the units can be equipped with a multi-circuit shell and tube heat exchanger, designed and manufactured internally, with low pressure drops, ideal for use with particularly hard water or for industrial processes.

Furthermore, 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) as well as in process cooling, where the temperature adjustment is in charge of the most advanced industrial controls systems (PLC, SCADA).

# TECNOLOGICAL CHOICES



## FULL-ALUMINUM COIL

The new NX range uses microchannel aluminum condenser coils on 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, making this product range unique in its reference market, at the same time extending product life due to better resistance to corrosion by atmospheric agents.

The reduction in weight achieved by using this technology also means 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 space, time and costs. On all versions we can select 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 internally, with low pressure drops, ideal for use with particularly hard water or for industrial processes. The shell and tube exchanger allows to achieve the highest flexibility on the unit's installation, keeping the efficiency at the maximum level.

For this reason, both NX and NECS units represent the best choice for all the hydronic application on the residential, commercial and industrial markets.

## EXCELLENCE IN RESULTS

### Compliance with the most strict european standard

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 taking 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, consequently taking into account the energy required to pump the refrigerant or heat carrier fluid used in the system.



UP TO  
1500 kW

**All NECS units, as well as the complete range of Climaveneta air cooled liquid chillers up to 1.500 kW, are certified by the Eurovent program for units with capacities over 600kW. 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 the 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 optimise unit performance by minimising power consumption during periods of inactivity, such as during the night. Up to 10 daily time bands can be associated with different operating setpoints.

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 and Echelon LonWorks.

## ABSOLUTE INTEGRABILITY

The availability of pumps and built-in water tanks allow to reduce the installation activities. The integrated hydronic module incorporates all the hydraulic components, thus optimizing installation space, time and costs.

All the units can be equipped with a multi-circuit shell and tube heat exchanger, designed and manufactured internally, with low pressure drops, ideal for use with particularly hard water or for industrial processes. Furthermore, 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) as well as in process cooling, where the temperature adjustment is in charge of the most advanced industrial controls systems (PLC, SCADA).

## 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 appliances in fact 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 features, high efficiency and low noise can exist side-by-side without having to relinquish one or the other.

## 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 temperature, this range represent the ideal solution for most demanding industrial processes.





## NX 0152P - 0812P

Chiller, air source 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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>							
<b>COOLING ONLY (GROSS VALUE)</b>							
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
<b>COOLING ONLY (EN14511 VALUE)</b>							
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
<b>ENERGY EFFICIENCY</b>							
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>							
<b>Ambient refrigeration</b>							
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
<b>EXCHANGERS</b>							
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>							
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
<b>REFRIGERANT CIRCUIT</b>							
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
<b>NOISE LEVEL</b>							
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
<b>SIZE AND WEIGHT</b>							
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





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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
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
<b>COOLING ONLY (EN14511 VALUE)</b>									
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
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
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
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
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
<b>REFRIGERANT CIRCUIT</b>									
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
<b>NOISE LEVEL</b>									
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
<b>SIZE AND WEIGHT</b>									
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	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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

Chiller, air source 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	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>							
<b>COOLING ONLY (GROSS VALUE)</b>							
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
<b>COOLING ONLY (EN14511 VALUE)</b>							
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
<b>ENERGY EFFICIENCY</b>							
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>							
<b>Ambient refrigeration</b>							
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
<b>EXCHANGERS</b>							
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>							
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
<b>REFRIGERANT CIRCUIT</b>							
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
<b>NOISE LEVEL</b>							
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
<b>SIZE AND WEIGHT</b>							
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	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>							
<b>COOLING ONLY (GROSS VALUE)</b>							
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
<b>COOLING ONLY (EN14511 VALUE)</b>							
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
<b>ENERGY EFFICIENCY</b>							
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>							
<b>Ambient refrigeration</b>							
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
<b>EXCHANGERS</b>							
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>							
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
<b>REFRIGERANT CIRCUIT</b>							
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
<b>NOISE LEVEL</b>							
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
<b>SIZE AND WEIGHT</b>							
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



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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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

Chiller, air source 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	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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



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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>							
<b>COOLING ONLY (GROSS VALUE)</b>							
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
<b>COOLING ONLY (EN14511 VALUE)</b>							
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
<b>ENERGY EFFICIENCY</b>							
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>							
<b>Ambient refrigeration</b>							
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
<b>EXCHANGERS</b>							
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>							
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
<b>REFRIGERANT CIRCUIT</b>							
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
<b>NOISE LEVEL</b>							
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
<b>SIZE AND WEIGHT</b>							
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

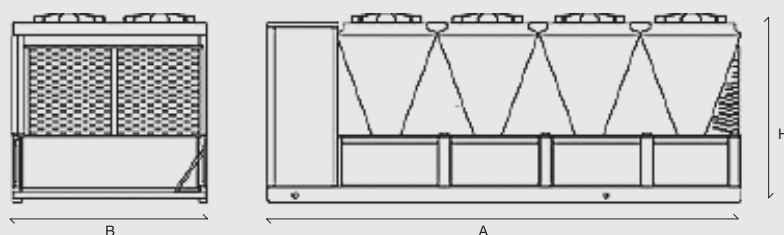
Chiller, air source for outdoor installation 159-327 kW

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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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



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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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

**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 in AVERAGE climatic conditions [REGULATION (EU) N. 2016/2281]
- 8 Seasonal space heating energy index
- 9 Seasonal energy efficiency of the space cooling

The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.

Certified data in EUROVENT



## NX 0614T - 1214T

Chiller, air source for outdoor installation  
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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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





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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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

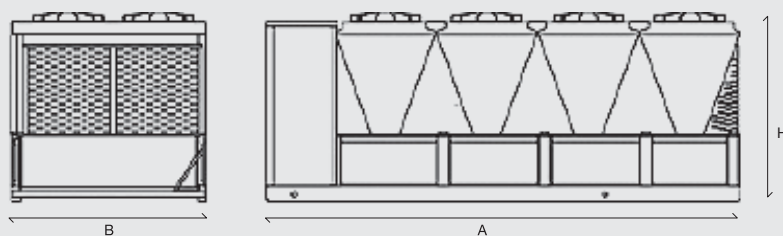


## NX 0614T - 1214T

Chiller, air source for outdoor installation  
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
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
<b>COOLING ONLY (EN14511 VALUE)</b>									
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
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
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
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
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
<b>REFRIGERANT CIRCUIT</b>									
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	41,0	41,0	41,0
<b>NOISE LEVEL</b>									
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
<b>SIZE AND WEIGHT</b>									
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
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
<b>COOLING ONLY (EN14511 VALUE)</b>									
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
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
Prated,c	(7)	kW	167	194	223	258	291	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
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	8,00	9,32	10,72	12,40	13,95	15,14	16,43
Pressure drop	(1)	kPa	24,1	32,7	53,9	49,6	34,1	40,1	47,2
<b>REFRIGERANT CIRCUIT</b>									
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
<b>NOISE LEVEL</b>									
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
<b>SIZE AND WEIGHT</b>									
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



**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 in AVERAGE climatic conditions [REGULATION (EU) N. 2016/2281]
- 8 Seasonal space heating energy index
- 9 Seasonal energy efficiency of the space cooling

The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.

Certified data 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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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



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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
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
<b>COOLING ONLY (EN14511 VALUE)</b>								
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
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
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
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
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
<b>REFRIGERANT CIRCUIT</b>								
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
<b>NOISE LEVEL</b>								
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
<b>SIZE AND WEIGHT</b>								
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
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
<b>COOLING ONLY (EN14511 VALUE)</b>									
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
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
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
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
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
<b>REFRIGERANT CIRCUIT</b>									
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
<b>NOISE LEVEL</b>									
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
<b>SIZE AND WEIGHT</b>									
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
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
<b>COOLING ONLY (EN14511 VALUE)</b>									
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
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
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
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
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
<b>REFRIGERANT CIRCUIT</b>									
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
<b>NOISE LEVEL</b>									
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
<b>SIZE AND WEIGHT</b>									
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

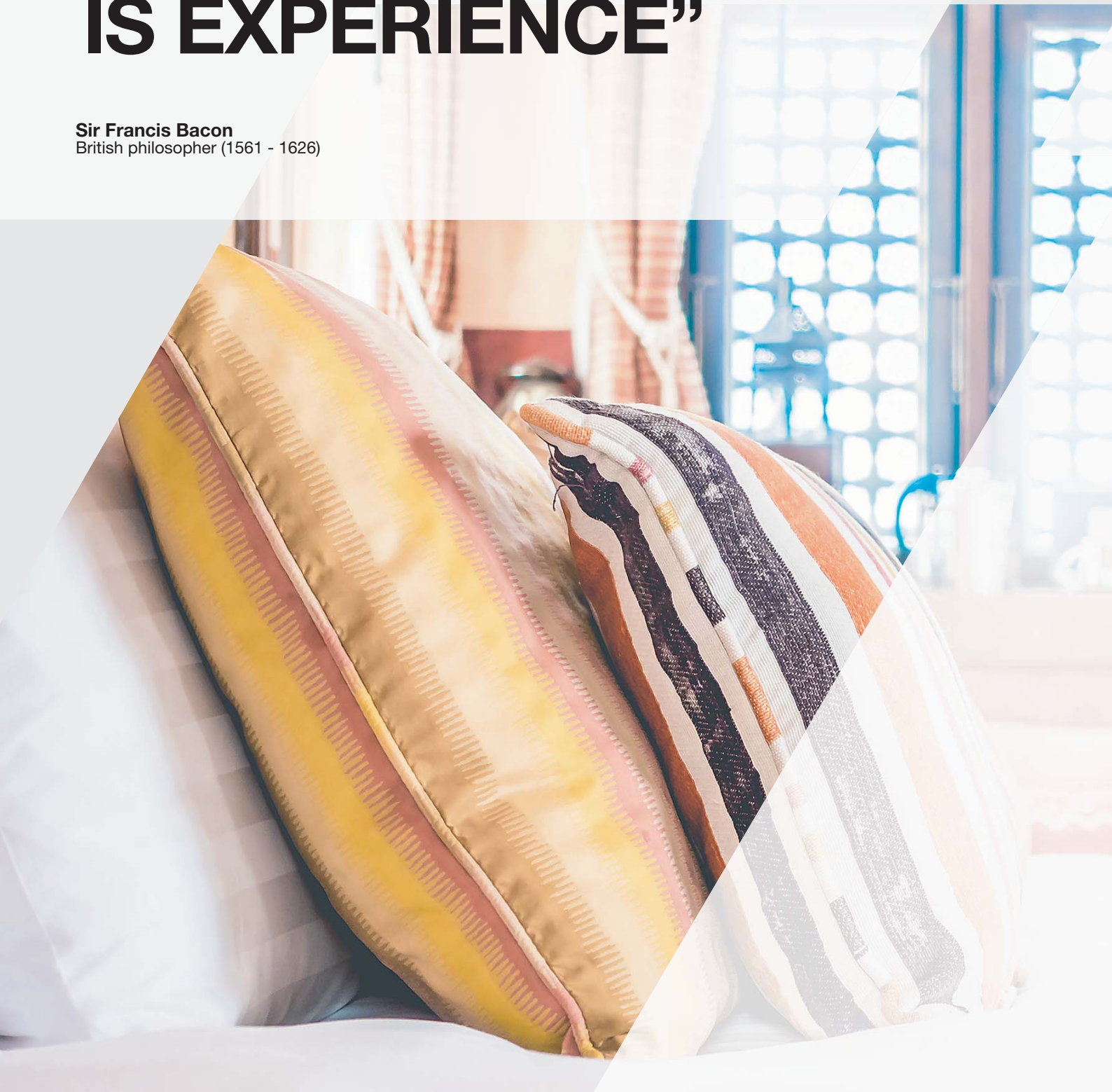


NECS / SL-CA			1314	1414	1614	1715	1816
Power supply	V/ph/Hz		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>							
<b>COOLING ONLY (GROSS VALUE)</b>							
Cooling capacity	(1) kW		370	394	440	481	522
Total power input	(1) kW		119	126	142	154	167
EER	(1) kW/kW		3,11	3,12	3,11	3,12	3,12
ESEER	(1) kW/kW		4,57	4,56	4,44	4,54	4,58
<b>COOLING ONLY (EN14511 VALUE)</b>							
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
<b>ENERGY EFFICIENCY</b>							
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>							
<b>Ambient refrigeration</b>							
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
<b>EXCHANGERS</b>							
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>							
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
<b>REFRIGERANT CIRCUIT</b>							
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
<b>NOISE LEVEL</b>							
Sound Pressure	(3) dB(A)		53	53	53	54	54
Sound power level in cooling	(4)(5) dB(A)		86	86	86	87	87
<b>SIZE AND WEIGHT</b>							
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
<b>PERFORMANCE</b>							
<b>COOLING ONLY (GROSS VALUE)</b>							
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
<b>COOLING ONLY (EN14511 VALUE)</b>							
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
<b>ENERGY EFFICIENCY</b>							
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>							
<b>Ambient refrigeration</b>							
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
<b>EXCHANGERS</b>							
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>							
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
<b>REFRIGERANT CIRCUIT</b>							
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
<b>NOISE LEVEL</b>							
Sound Pressure	(3) dB(A)		54	54	55	55	55
Sound power level in cooling	(4)(5) dB(A)		87	87	88	88	88
<b>SIZE AND WEIGHT</b>							
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

# “BY FAR THE BEST PROOF IS EXPERIENCE”

**Sir Francis Bacon**  
British philosopher (1561 - 1626)





# GRAND HYATT HOTEL GOA

2008 - Goa (India)

## Hydronic System

**Cooling capacity:**  
4550 kW

### Installed units:

2x NECS/B 512,  
2x NECS/B 352,

2x NECS/B 252,  
2x NECS/B 152,  
3x FOCS-W 4802

## PROJECT

Overlooking the sparkling waters of Bambolim Bay, Grand Hyatt, with its 314 guestroom, combines elegance with the distinctive regional character.

For business guests, the grand design of the hotel in India, complemented by the largest banquet facilities in Goa, sets Grand Hyatt as a magnificent destination for conferences, business events special events of any size.

## CHALLENGE

All the spaces of the hotel, from the rooms to the Spa, are fitted with the most modern technologies and avant garde equipment for any kind of guest and business meeting.

## SOLUTION

For the perfect comfort of these buildings the consultants have chosen the multicircuit NECS units, specially designed to ensure the maximum efficiency both at high loads and partial loads. This means high reliability through reliable systems and continuous operation.



# 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 PÓLNOCNA

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





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.



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