



# formula NX

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

PREMIUM  
EFFICIENCY

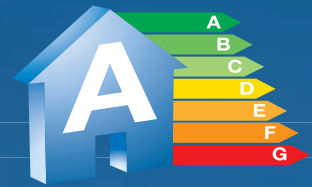
LOWEST  
ENVIRONMENTAL IMPACT

MAXIMUM  
RELIABILITY

ABSOLUTE  
INTEGRABILITY

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

CHALLENGING ENERGY  
EFFICIENCY



GROWING ATTENTION ON  
SUSTAINABILITY



MAXIMUM RELIABILITY



SYSTEM SIMPLIFICATION  
AND VERSATILITY



# 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.

## ▼ COMFORT APPLICATIONS

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.

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.

The need to ensure continuous operation all the year round requires solutions able to effectively meet the more demanding needs in terms of reliability. This aspect becomes crucial when the centralized units are used to simultaneously serving more devices applied in different contexts of the structure, as in the case of air handling unit, fan coils or chilled beams.

The construction of new generation plants such as the refurbishment of already existing structures requires the greatest flexibility in both the design and on-site manufacturing activities. The awareness that best results are to be found not in the single component but in a broader context requires to increase the level of integration and synergy between different kinds of devices and technologies.

## ▼ INDUSTRIAL PROCESS APPLICATIONS

In all the industrial processes virtually active 24 hours a day, 365 days a year, even a small improvement in performance of the cooling units can lead to a significant reduction in operating costs and environmental impact the entire system.

The sensitivity placed by consumers, investors and institutions on environmental issues require markets to rethink not only on the rules of marketing goods, but also on those for their realization. This is generating by all companies an increased focus to their internal production processes, and requires the adoption of new models and a more careful choice of components involved within the manufacturing lines.

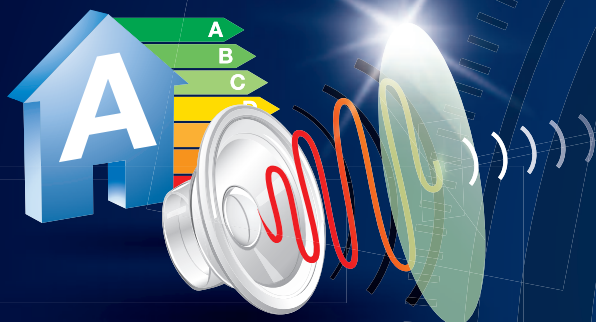
The performance of the most efficient industrial process also depends on the stability and the continuous operation of every single part of it. For this reason, even more than in other applications, reliability is a must. To reach this purpose, the design evolves through a careful selection of the technology adopted for realizing the system.

Industrial processes require integration among many components, from the cooling unit until the filtration systems, as well as to the most advanced control and supervisory devices, whether local or remote. The objective of pursuing the highest quality in the result of the process, then the finished product, drives the choices of components and technologies to be adopted, which must meet the most ambitious design requirements.

# FORMULA NX

# SOLUTION

## HIGHEST ENERGY EFFICIENCY



When energy efficiency is a fundamental prerequisite, the Climaveneta NX/CA represents the best solution, ensuring the highest efficiency in its category, with Eurovent class A EER values, calculated on the base of the restrictive European standard EN14511.

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 CHILLERS

## MAXIMUM RELIABILITY



**LOW  
MAINTENANCE  
LONGER  
LIFETIME**

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 by Climaveneta, 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).

# TECHNOLOGIC

## 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 by Climaveneta, with low pressure drops, ideal for use with particularly hard water or for industrial processes. The Climaveneta's 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 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 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.



FINO A  
1500 kW

All NECS units, as well as the complete range of Climaveneta aircooled liquid chillers up to 1.500 kW, are certified by the Eurovent program for units with capacities over 600kW. Climaveneta is among the principal players in the air-conditioning sector participating 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.

# TECHNICAL CHOICES

## 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.

## ELECTRONIC EXPANSION VALVE



The use of the electronic expansion valve allows to extend the operating conditions even with external temperature seasonal limits.

All the models of the new NX/CA high efficiency version and NECS with a cooling capacity over 350kW make use of electronic valves as standard, for all sizes. The electronic expansion valve brings significant benefits, especially with variable loads and different outdoor climate conditions.

The electronic expansion valve also represents the ideal solution for all industrial processes characterized by several temperature changes over the most different environmental conditions. In these specific cases it is possible to make the system independent of continuous calibrations, thus adapting the process to different load conditions in a completely autonomous mode.

## 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.



## SPECIFIC SOLUTION FOR EACH PROJECT

### 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 /CA			0152P	0182P	0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P	0562P	0612P	0712P	0812P	
Power supply	V/ph/Hz		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	108	122	138	160	178	201	227	
Total power input	(1)	kW	12,8	14,5	16,7	19,3	21,8	26,5	30,2	33,6	38,3	42,6	48,9	55,4	63,5	70,5	
EER	(1)		3,26	3,27	3,29	3,24	3,19	3,21	3,20	3,21	3,18	3,23	3,28	3,22	3,17	3,22	
ESEER	(1)		4,56	4,65	4,45	4,45	4,49	4,28	4,41	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	41,4	47,1	54,7	62,2	69,2	84,5	95,9	107	121	137	159	178	200	226
EER	(1)	(2)		3,17	3,18	3,21	3,16	3,12	3,14	3,11	3,13	3,10	3,16	3,20	3,15	3,10	3,14
ESEER	(1)	(2)		4,30	4,41	4,23	4,26	4,28	4,07	4,13	4,19	4,30	4,13	4,08	4,13	4,18	3,96
Cooling Energy class	(1)	(2)		A	A	A	A	A	A	A	A	A	A	A	A	A	
<b>COMPRESSORS</b>																	
Compressors nr.	N°		2														
No. Circuits	N°		1														
<b>NOISE LEVEL</b>																	
Noise Pressure	(3)	dB(A)	52	52	53	53	54	56	56	58	58	58	59	59	60	61	
Noise Power	(4)	dB(A)	84	84	85	85	86	88	88	90	90	90	91	91	92	93	
<b>SIZE AND WEIGHT</b>																	
A	(5)	mm	1755	2290	2290	2290	2290	2825	3360	3360	3360	3980	3160	3160	3160	4335	
B	(5)	mm	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195	2250	2250	2250	2250	
H	(5)	mm	1885	1885	1885	1885	1885	2010	2010	2025	2025	2010	2170	2170	2170	2170	
Operating weight	(5)	kg	480	540	550	560	570	680	830	960	1000	1080	1510	1560	1570	1850	

NX /LN-CA			0152P	0182P	0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P	0562P	0612P	0712P	0812P	
Power supply	V/ph/Hz		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	107	121	134	154	173	198	221	
Total power input	(1)	kW	12,6	14,4	17,2	19,5	21,9	26,0	29,3	33,3	37,9	42,2	47,1	54,4	60,8	67,5	
EER	(1)		3,29	3,26	3,20	3,26	3,23	3,18	3,22	3,23	3,18	3,18	3,27	3,18	3,26	3,28	
ESEER	(1)		4,56	4,62	4,71	4,31	4,34	4,37	4,52	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	41,2	46,7	54,7	63,1	70,3	82,3	93,8	107	120	133	153	172	197	220
EER	(1)	(2)		3,20	3,18	3,12	3,18	3,15	3,11	3,13	3,14	3,10	3,11	3,19	3,11	3,20	3,20
ESEER	(1)	(2)		4,29	4,38	4,46	4,11	4,15	4,20	4,25	4,10	4,19	4,15	4,40	4,29	4,43	4,16
Cooling Energy class	(1)	(2)		A	A	A	A	A	A	A	A	A	A	A	A	A	
<b>COMPRESSORS</b>																	
Compressors nr.	N°		2														
No. Circuits	N°		1														
<b>NOISE LEVEL</b>																	
Noise Pressure	(3)	dB(A)	48	48	48	49	49	50	52	52	52	53	54	54	55	56	
Noise Power	(4)	dB(A)	80	80	80	81	81	82	84	84	84	85	86	86	87	88	
<b>SIZE AND WEIGHT</b>																	
A	(5)	mm	2290	2290	2290	2825	2825	3360	3360	3980	3980	3980	3160	3160	4335	4335	
B	(5)	mm	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195	2250	2250	2250	2250	
H	(5)	mm	1885	1885	1885	2010	2010	2010	2025	2010	2010	2010	2170	2170	2170	2170	
Operating weight	(5)	kg	550	560	560	670	680	750	870	1050	1080	1090	1510	1550	1850	1870	

NX /SL-CA			0152P	0182P	0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P	0562P	0612P	0712P	0812P	
Power supply	V/ph/Hz		400/3/50														
<b>PERFORMANCE</b>																	
<b>COOLING ONLY (GROSS VALUE)</b>																	
Cooling capacity	(1)	kW	41,9	47,5	55,3	62,2	69,2	81,9	94,5	106	119	133	152	172	195	218	
Total power input	(1)	kW	12,8	14,5	17,1	19,0	21,4	25,5	29,6	32,4	36,9	41,9	47,3	52,8	61,6	68,2	
EER	(1)		3,27	3,28	3,23	3,27	3,23	3,21	3,19	3,27	3,22	3,17	3,21	3,26	3,16	3,19	
ESEER	(1)		4,26	4,39	4,52	4,44	4,46	4,57	4,52	4,56	4,64	4,67	4,70	4,63	4,72	4,46	
<b>COOLING ONLY (EN14511 VALUE)</b>																	
Cooling capacity	(1)	(2)	kW	41,6	47,2	55,0	61,9	68,8	81,5	93,9	105	118	132	151	171	194	216
EER	(1)	(2)		3,18	3,19	3,15	3,20	3,16	3,14	3,10	3,19	3,14	3,10	3,13	3,19	3,10	3,12
ESEER	(1)	(2)		4,02	4,16	4,30	4,24	4,26	4,38	4,27	4,35	4,39	4,46	4,47	4,42	4,51	4,26
Cooling Energy class	(1)	(2)		A	A	A	A	A	A	A	A	A	A	A	A	A	
<b>COMPRESSORS</b>																	
Compressors nr.	N°		2														
No. Circuits	N°		1														
<b>NOISE LEVEL</b>																	
Noise Pressure	(3)	dB(A)	45	46	46	47	47	47	48	49	50	50	51	52	53	54	
Noise Power	(4)	dB(A)	77	78	78	79	79	79	80	81	82	82	83	84	85	86	
<b>SIZE AND WEIGHT</b>																	
A	(5)	mm	2825	2825	2825	3360	3360	3360	3980	3160	3160	3160	4335	4335	4335	5510	
B	(5)	mm	1195	1195	1195	1195	1195	1195	1195	2250	2250	2250	2250	2250	2250	2250	
H	(5)	mm	2010	2010	2010	2025	2025	2025	2010	2170	2170	2170	2170	2170	2170	2170	
Operating weight	(5)	kg	650	660	670	760	770	780	940	1410	1450	1480	1760	1820	1850	2160	

# NX 0614P÷1214P



## LIQUID CHILLER EQUIPPED WITH 4 COMPRESSORS ON 2 INDEPENDENT CIRCUITS, PLATE HEAT EXCHANGER



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)		2,83	2,91	2,76	2,80	2,92	2,85	2,76
ESEER	(1)		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)		2,78	2,86	2,72	2,76	2,87	2,80	2,72
ESEER	(1) (2)		3,85	4,16	4,08	4,18	4,05	4,08	3,99
Cooling Energy class	(1) (2)		C	C	C	C	C	C	C
<b>COMPRESSORS</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
<b>NOISE LEVEL</b>									
Noise Pressure	(3)	dB(A)	60	60	61	62	63	63	63
Noise Power	(4)	dB(A)	92	92	93	94	95	95	95
<b>SIZE AND WEIGHT</b>									
A	(5)	mm	3160	3160	3160	3160	4335	4335	4335
B	(5)	mm	2250	2250	2250	2250	2250	2250	2250
H	(5)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(5)	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)		2,75	2,70	2,62	2,55	2,71	2,60	2,70
ESEER	(1)		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)		2,70	2,66	2,58	2,51	2,67	2,57	2,66
ESEER	(1) (2)		3,94	4,19	4,16	4,19	4,05	4,06	4,16
Cooling Energy class	(1) (2)		C	D	D	D	D	D	D
<b>COMPRESSORS</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
<b>NOISE LEVEL</b>									
Noise Pressure	(3)	dB(A)	54	54	55	56	57	57	58
Noise Power	(4)	dB(A)	86	86	87	88	89	89	90
<b>SIZE AND WEIGHT</b>									
A	(5)	mm	3160	3160	3160	3160	4335	4335	4335
B	(5)	mm	2250	2250	2250	2250	2250	2250	2250
H	(5)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(5)	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)		2,82	2,54	2,75	2,70	2,55	2,71	2,61
ESEER	(1)		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)		2,78	2,51	2,71	2,66	2,51	2,68	2,57
ESEER	(1) (2)		4,13	4,21	4,19	4,20	4,09	4,15	4,07
Cooling Energy class	(1) (2)		C	D	C	D	D	D	D
<b>COMPRESSORS</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
<b>NOISE LEVEL</b>									
Noise Pressure	(3)	dB(A)	50	51	51	52	52	54	54
Noise Power	(4)	dB(A)	82	83	83	84	84	86	86
<b>SIZE AND WEIGHT</b>									
A	(5)	mm	3160	3160	4335	4335	4335	5510	5510
B	(5)	mm	2250	2250	2250	2250	2250	2250	2250
H	(5)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(5)	kg	1550	1730	2030	2170	2300	2700	2730

(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 EN14511-3:2011

(3) Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

(4) Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.

(5) Unit in standard configuration/execution, without optional accessories

# NECS 0202T÷0612T



## LIQUID CHILLER EQUIPPED WITH 2 COMPRESSOR ON 2 INDEPENDENT CIRCUITS, SHELL AND TUBES HEAT EXCHANGER



NECS /B			0202T	0252T	0302T	0352T	0412T	0452T	0512T	0552T	0612T
Power supply	V/ph/Hz		400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N
<b>PERFORMANCE</b>											
<b>COOLING ONLY (GROSS VALUE)</b>											
Cooling capacity	(1) kW		53,0	58,1	76,0	86,8	96,9	112	127	145	159
Total power input	(1) kW		18,3	21,5	27,8	31,9	36,3	39,7	43,7	50,2	58,6
EER	(1)		2,90	2,70	2,73	2,72	2,67	2,83	2,90	2,89	2,71
ESEER	(1)		3,72	3,47	3,52	3,49	3,41	3,59	3,65	3,66	3,44
<b>COOLING ONLY (EN14511 VALUE)</b>											
Cooling capacity	(1) (2) kW		52,9	58,0	75,8	86,5	96,7	112	126	145	158
EER	(1) (2)		2,88	2,68	2,71	2,69	2,65	2,80	2,87	2,85	2,67
ESEER	(1) (2)		3,68	3,41	3,45	3,40	3,36	3,51	3,59	3,58	3,37
Cooling Energy class	(1) (2)		C	D	C	D	D	C	C	C	D
<b>COMPRESSORS</b>											
Compressors nr.	N°		2	2	2	2	2	2	2	2	2
No. Circuits	N°		2	2	2	2	2	2	2	2	2
<b>NOISE LEVEL</b>											
Noise Pressure	(3) dB(A)		53	53	53	54	54	54	55	55	55
Noise Power	(4) dB(A)		85	85	85	86	86	86	87	87	87
<b>SIZE AND WEIGHT</b>											
A	(5) mm		2195	2195	2195	2195	2745	2745	3245	3245	3245
B	(5) mm		1120	1120	1120	1120	1120	1120	1120	1120	1120
H	(5) mm		1420	1420	1420	1420	1420	1420	1620	1620	1620
Operating weight	(5) kg		625	625	665	765	920	990	1135	1180	1155

NECS /HT			0202T	0252T	0302T	0352T	0412T	0452T	0512T
Power supply	V/ph/Hz		400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1) kW		55,0	61,6	80,6	91,4	104	116	130
Total power input	(1) kW		17,3	20,3	25,9	30,5	33,7	38,6	42,2
EER	(1)		3,18	3,03	3,11	3,00	3,09	3,00	3,08
ESEER	(1)		4,07	3,81	3,93	3,76	3,87	3,76	3,86
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1) (2) kW		54,9	61,5	80,4	91,1	104	115	130
EER	(1) (2)		3,16	3,01	3,08	2,96	3,06	2,96	3,05
ESEER	(1) (2)		3,99	3,75	3,85	3,67	3,78	3,69	3,79
Cooling Energy class	(1) (2)		A	B	B	B	B	B	B
<b>COMPRESSORS</b>									
Compressors nr.	N°		2	2	2	2	2	2	2
No. Circuits	N°		2	2	2	2	2	2	2
<b>NOISE LEVEL</b>									
Noise Pressure	(3) dB(A)		53	54	54	55	55	55	55
Noise Power	(4) dB(A)		85	86	86	87	87	87	87
<b>SIZE AND WEIGHT</b>									
A	(5) mm		2195	2745	2745	3245	3245	3245	3245
B	(5) mm		1120	1120	1120	1120	1120	1120	1120
H	(5) mm		1420	1420	1420	1620	1620	1620	1620
Operating weight	(5) kg		650	700	750	915	1050	1075	1115

NECS /SL			0202T	0252T	0302T	0352T	0412T	0452T	0512T
Power supply	V/ph/Hz		400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1) kW		47,8	55,5	69,9	85,4	96,8	106	117
Total power input	(1) kW		20,3	22,6	30,9	33,6	37,3	43,2	48,1
EER	(1)		2,35	2,46	2,26	2,54	2,60	2,46	2,44
ESEER	(1)		3,13	3,19	3,00	3,25	3,30	3,14	3,14
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1) (2) kW		47,7	55,4	69,7	85,2	96,6	106	117
EER	(1) (2)		2,34	2,44	2,25	2,52	2,57	2,43	2,42
ESEER	(1) (2)		3,09	3,14	2,93	3,19	3,25	3,09	3,09
Cooling Energy class	(1) (2)		E	E	F	D	D	E	E
<b>COMPRESSORS</b>									
Compressors nr.	N°		2	2	2	2	2	2	2
No. Circuits	N°		2	2	2	2	2	2	2
<b>NOISE LEVEL</b>									
Noise Pressure	(3) dB(A)		45	46	46	49	49	49	50
Noise Power	(4) dB(A)		77	78	78	81	81	81	82
<b>SIZE AND WEIGHT</b>									
A	(5) mm		2195	2745	2745	3245	3245	3245	3245
B	(5) mm		1100	1100	1100	1100	1100	1100	1100
H	(5) mm		1420	1420	1420	1620	1620	1620	1620
Operating weight	(5) kg		650	700	750	915	1050	1075	1115

# NX 0614T÷1214T

## LIQUID CHILLER EQUIPPED WITH 4 COMPRESSOR ON 2 INDEPENDENT CIRCUITS, SHELL AND TUBES HEAT EXCHANGER



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)		2,83	2,91	2,76	2,80	2,92	2,85	2,76
ESEER	(1)		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)		2,79	2,87	2,71	2,76	2,86	2,81	2,73
ESEER	(1) (2)		3,92	4,21	4,08	4,20	4,02	4,11	4,02
Cooling Energy class	(1) (2)		C	C	C	C	C	C	C
<b>COMPRESSORS</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
<b>NOISE LEVEL</b>									
Noise Pressure	(3)	dB(A)	60	60	61	62	63	63	63
Noise Power	(4)	dB(A)	92	92	93	94	95	95	95
<b>SIZE AND WEIGHT</b>									
A	(5)	mm	3160	3160	3160	3160	4335	4335	4335
B	(5)	mm	2250	2250	2250	2250	2250	2250	2250
H	(5)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(5)	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)		2,75	2,70	2,62	2,55	2,71	2,60	2,70
ESEER	(1)		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)		2,72	2,67	2,57	2,51	2,67	2,57	2,67
ESEER	(1) (2)		3,99	4,25	4,16	4,21	4,04	4,10	4,21
Cooling Energy class	(1) (2)		C	D	D	D	D	D	D
<b>COMPRESSORS</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
<b>NOISE LEVEL</b>									
Noise Pressure	(3)	dB(A)	54	54	55	56	57	57	58
Noise Power	(4)	dB(A)	86	86	87	88	89	89	90
<b>SIZE AND WEIGHT</b>									
A	(5)	mm	3160	3160	3160	3160	4335	4335	4335
B	(5)	mm	2250	2250	2250	2250	2250	2250	2250
H	(5)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(5)	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)		2,82	2,54	2,75	2,70	2,55	2,71	2,61
ESEER	(1)		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	159	179	213	240	263	295	311
EER	(1) (2)		2,79	2,52	2,71	2,66	2,51	2,68	2,58
ESEER	(1) (2)		4,18	4,24	4,19	4,20	4,07	4,17	4,10
Cooling Energy class	(1) (2)		C	D	C	D	D	D	D
<b>COMPRESSORS</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
<b>NOISE LEVEL</b>									
Noise Pressure	(3)	dB(A)	50	51	51	52	52	54	54
Noise Power	(4)	dB(A)	82	83	83	84	84	86	86
<b>SIZE AND WEIGHT</b>									
A	(5)	mm	3160	3160	4335	4335	4335	5510	5510
B	(5)	mm	2250	2250	2250	2250	2250	2250	2250
H	(5)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(5)	kg	1700	1860	2160	2290	2380	2930	2950

(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 EN14511-3:2011

(3) Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

(4) Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.

(5) Unit in standard configuration/execution, without optional accessories



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)	3,20	3,16	3,23	3,17	3,15	3,21	3,17
ESEER	(1)	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)	3,16	3,11	3,16	3,11	3,11	3,16	3,12
ESEER	(1) (2)	4,17	4,06	4,20	4,24	4,26	4,17	4,18
Cooling Energy class	(1) (2)	A	A	A	A	A	A	A
<b>COMPRESSORS</b>								
Compressors nr.	N°	4	4	4	4	4	4	4
No. Circuits	N°	2	2	2	2	2	2	2
<b>NOISE LEVEL</b>								
Noise Pressure	(3) dB(A)	60	61	62	63	63	64	65
Noise Power	(4) dB(A)	92	93	94	95	95	96	97
<b>SIZE AND WEIGHT</b>								
A	(5) mm	3160	4335	4335	4335	4335	5510	5510
B	(5) mm	2250	2250	2250	2250	2250	2250	2250
H	(5) mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(5) kg	1700	2150	2160	2290	2550	2930	2950

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)	3,17	3,22	3,23	3,17	3,16	3,19	3,17
ESEER	(1)	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)	3,13	3,17	3,16	3,11	3,12	3,15	3,12
ESEER	(1) (2)	4,40	4,40	4,44	4,47	4,39	4,43	4,48
Cooling Energy class	(1) (2)	A	A	A	A	A	A	A
<b>COMPRESSORS</b>								
Compressors nr.	N°	4	4	4	4	4	4	4
No. Circuits	N°	2	2	2	2	2	2	2
<b>NOISE LEVEL</b>								
Noise Pressure	(3) dB(A)	54	55	56	57	58	59	59
Noise Power	(4) dB(A)	86	87	88	89	90	91	91
<b>SIZE AND WEIGHT</b>								
A	(5) mm	3160	4335	4335	4335	5510	5510	5510
B	(5) mm	2250	2250	2250	2250	2250	2250	2250
H	(5) mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(5) 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)	3,20	3,20	3,21	3,16	3,15	3,18	3,16
ESEER	(1)	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)	3,16	3,15	3,14	3,11	3,11	3,13	3,11
ESEER	(1) (2)	4,52	4,49	4,42	4,47	4,55	4,49	4,47
Cooling Energy class	(1) (2)	A	A	A	A	A	A	A
<b>COMPRESSORS</b>								
Compressors nr.	N°	4	4	4	4	4	4	4
No. Circuits	N°	2	2	2	2	2	2	2
<b>NOISE LEVEL</b>								
Noise Pressure	(3) dB(A)	51	51	52	53	54	55	55
Noise Power	(4) dB(A)	83	83	84	85	86	87	87
<b>SIZE AND WEIGHT</b>								
A	(5) mm	4335	4335	5510	5510	5510	5510	5510
B	(5) mm	2250	2250	2250	2250	2250	2250	2250
H	(5) mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(5) kg	1980	2150	2490	2610	2880	2900	2930

# NECS 1314÷3218

## LIQUID CHILLER EQUIPPED WITH 4 TO 8 COMPRESSORS ON MULTI-CIRCUIT CONFIGURATION, SHELL AND TUBES HEAT EXCHANGER



NECS /B			1314	1414	1614	1715	1816	2015	2116	2316	2416	2418	2618	2818	3018	3218
Power supply	V/ph/Hz		400/3/50													
<b>PERFORMANCE</b>																
<b>COOLING ONLY (GROSS VALUE)</b>																
Cooling capacity	(1)	kW	354	379	413	458	501	526	569	604	635	665	708	759	793	827
Total power input	(1)	kW	124	130	148	160	172	184	195	214	219	234	249	261	279	296
EER	(1)		2,85	2,91	2,80	2,86	2,92	2,86	2,91	2,82	2,90	2,85	2,85	2,92	2,84	2,80
ESEER	(1)		4,16	4,24	4,04	4,19	4,21	4,07	4,18	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	353	377	412	456	499	524	567	602	633	663	705	757	791	824
EER	(1) (2)		2,80	2,87	2,75	2,81	2,87	2,82	2,87	2,78	2,86	2,81	2,80	2,88	2,81	2,76
ESEER	(1) (2)		3,95	4,06	3,86	3,99	3,99	3,91	4,00	3,94	3,90	3,94	3,98	4,10	4,03	3,90
Cooling Energy class	(1) (2)		C	C	C	C	C	C	C	C	C	C	C	C	C	C
<b>COMPRESSORS</b>																
Compressors nr.	N°		4	4	4	5	6	5	6	6	6	8	8	8	8	8
No. Circuits	N°		2	2	2	2	2	2	2	3	2	4	4	4	4	4
<b>NOISE LEVEL</b>																
Noise Pressure	(3)	dB(A)	64	64	64	64	65	65	64	64	65	65	65	66	66	66
Noise Power	(4)	dB(A)	96	96	96	96	97	97	97	97	98	98	98	99	99	99
<b>SIZE AND WEIGHT</b>																
A	(5)	mm	3905	3905	3905	5080	5080	5080	6255	6255	6255	7430	7430	7430	7430	7430
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(5)	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
Operating weight	(5)	kg	2730	2770	2800	3400	3650	3690	4200	4220	4350	5260	5300	5370	5400	5430

NECS /SL			1314	1414	1614	1715	1816	2015	2116	2316	2416	2418	2618	2818	3018	3218
Power supply	V/ph/Hz		400/3/50													
<b>PERFORMANCE</b>																
<b>COOLING ONLY (GROSS VALUE)</b>																
Cooling capacity	(1)	kW	334	358	397	431	465	498	532	579	596	616	666	718	758	795
Total power input	(1)	kW	129	137	153	168	183	192	206	220	230	245	258	275	288	306
EER	(1)		2,58	2,61	2,60	2,57	2,55	2,60	2,58	2,63	2,59	2,52	2,58	2,61	2,63	2,60
ESEER	(1)		4,29	4,31	4,21	4,33	4,36	4,26	4,37	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	332	357	396	430	463	496	531	577	594	614	664	716	755	792
EER	(1) (2)		2,55	2,58	2,56	2,53	2,51	2,57	2,55	2,60	2,56	2,49	2,55	2,58	2,60	2,56
ESEER	(1) (2)		4,10	4,15	4,03	4,14	4,15	4,12	4,19	4,20	4,12	4,15	4,19	4,19	4,21	4,09
Cooling Energy class	(1) (2)		D	D	D	D	D	D	D	D	D	E	D	D	D	D
<b>COMPRESSORS</b>																
Compressors nr.	N°		4	4	4	5	6	5	6	6	6	8	8	8	8	8
No. Circuits	N°		2	2	2	2	2	2	2	3	2	4	4	4	4	4
<b>NOISE LEVEL</b>																
Noise Pressure	(3)	dB(A)	54	54	54	54	54	54	54	55	55	55	56	57	57	57
Noise Power	(4)	dB(A)	86	86	86	87	87	87	87	88	88	88	89	90	90	90
<b>SIZE AND WEIGHT</b>																
A	(5)	mm	5080	5080	5080	6255	6255	6255	7430	7430	7430	7430	8605	9780	9780	9780
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(5)	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
Operating weight	(5)	kg	3060	3160	3200	3900	4110	4190	4640	4730	4790	5410	5810	6160	6200	6250

(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 EN14511-3:2011

(3) Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

(4) Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.

(5) Unit in standard configuration/execution, without optional accessories



NECS /CA			1314	1414	1614	1715	1816	2015	2116	2316	2416	2418	2618	2818	3018	3218	
Power supply		V/ph/Hz	400/3/50														
<b>PERFORMANCE</b>																	
<b>COOLING ONLY (GROSS VALUE)</b>																	
Cooling capacity	(1)	kW	370	391	438	481	518	549	591	633	657	701	740	785	831	885	
Total power input	(1)	kW	120	125	142	154	166	177	189	204	212	225	239	250	266	283	
EER	(1)		3,10	3,13	3,10	3,12	3,11	3,10	3,12	3,10	3,10	3,11	3,10	3,13	3,12	3,13	
ESEER	(1)		4,45	4,48	4,39	4,54	4,50	4,42	4,48	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	369	390	436	479	515	547	589	630	655	699	737	782	828	881	
EER	(1) (2)		3,04	3,08	3,04	3,07	3,05	3,06	3,07	3,06	3,05	3,06	3,04	3,09	3,07	3,07	
ESEER	(1) (2)		4,22	4,28	4,17	4,30	4,24	4,23	4,28	4,27	4,16	4,22	4,22	4,30	4,28	4,22	
Cooling Energy class	(1) (2)		B	B	B	B	B	B	B	B	B	B	B	B	B	B	
<b>COMPRESSORS</b>																	
Compressors nr.		N°	4	4	4	5	6	5	6	6	6	8	8	8	8	8	
No. Circuits		N°	2	2	2	2	2	2	2	3	2	4	4	4	4	4	
<b>NOISE LEVEL</b>																	
Noise Pressure	(3)	dB(A)	65	65	65	64	65	65	65	66	66	66	66	66	67	67	67
Noise Power	(4)	dB(A)	97	97	97	97	98	98	98	98	99	99	99	99	100	100	100
<b>SIZE AND WEIGHT</b>																	
A	(5)	mm	5080	5080	5080	6255	6255	6255	7430	7430	7430	9780	9780	9780	9780	9780	
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	
H	(5)	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	
Operating weight	(5)	kg	3060	3100	3130	3800	4050	4090	4540	4630	4690	5930	5970	6040	6070	6110	

NECS /SL-CA			1314	1414	1614	1715	1816	2015	2116	2316	2416	2418
Power supply		V/ph/Hz	400/3/50									
<b>PERFORMANCE</b>												
<b>COOLING ONLY (GROSS VALUE)</b>												
Cooling capacity	(1)	kW	370	394	440	481	522	550	592	638	662	695
Total power input	(1)	kW	119	126	142	154	167	177	189	204	213	223
EER	(1)		3,11	3,12	3,11	3,12	3,12	3,11	3,13	3,12	3,11	3,12
ESEER	(1)		4,57	4,56	4,44	4,54	4,58	4,52	4,60	4,59	4,53	4,58
<b>COOLING ONLY (EN14511 VALUE)</b>												
Cooling capacity	(1) (2)	kW	369	393	439	480	520	549	590	636	660	693
EER	(1) (2)		3,07	3,08	3,06	3,08	3,08	3,08	3,08	3,08	3,06	3,09
ESEER	(1) (2)		4,38	4,39	4,27	4,39	4,40	4,35	4,40	4,39	4,33	4,43
Cooling Energy class	(1) (2)		B	B	B	B	B	B	B	B	B	B
<b>COMPRESSORS</b>												
Compressors nr.		N°	4	4	4	5	6	5	6	6	6	8
No. Circuits		N°	2	2	2	2	2	2	2	3	2	4
<b>NOISE LEVEL</b>												
Noise Pressure	(3)	dB(A)	53	53	53	54	54	54	54	55	55	55
Noise Power	(4)	dB(A)	86	86	86	87	87	87	87	88	88	88
<b>SIZE AND WEIGHT</b>												
A	(5)	mm	6255	6255	6255	7430	7430	7430	8605	8605	8605	9780
B	(5)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(5)	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
Operating weight	(5)	kg	3490	3700	3730	4400	4650	4510	4990	5360	5360	6100

An aerial photograph of a modern architectural complex, likely a university or corporate campus. The building features large glass facades and a prominent curved structure. A central courtyard is filled with young trees and greenery. The sky is a clear, light blue.

'BY FAR  
THE BEST  
PROOF IS  
EXPERIENCE'

Sir Francis Bacon  
British philosopher  
(1561 - 1626)



INDUSTRIAL PROCESSES

# BMW LEIPZIG

**WITH OVER 5.400 EMPLOYEES AND 45 HECTARE BUILT AREA, THE BMW PLANT LEIPZIG IS A MASTERPIECE OF ARCHITECTURE, EFFICIENCY AND SUSTAINABILITY.**



The iconic central building of the famous London Architect Zaha Hadid elegantly links the several production blocks according to short distance principle, enhancing communication between production areas and accessibility to the public. The flexible design approach allows extensions and integration of new production technologies at minimum costs and environmental impact.

Sustainability also means careful and environmental friendly use of resources and the latest in production technologies. It is no surprise that for the process cooling of several production blocs BMW has chosen Climaveneta BH/SRAT and NECS air-cooled high efficiency chillers, featured by extended operating limits and by an extraordinary energy efficiency ratio at full and part load.

Because in all projects featured by the strictest energy efficiency and environmental sustainability requirements, 35 years of leading experience and cutting edge technology in low impact air-conditioning is the best guarantee.





## MORE ON CLIMAVENETA



### SIEMENS VDO

2007 Regensburg  
(Germany)

Hydronic System

Cooling capacity:  
150 kW

Installed machines:  
1x NECS/LN 0252,  
1x NECS/B 0412



### CICI CHOCOLATE

2010 Istanbul (Turkey)

Hydronic System

Cooling capacity:  
2389 kW

Installed machines:  
3x NECS/B 2818,  
1x NECS/B 0452

## INDUSTRIAL PROCESSES

# AL BASTI INKS INDUSTRY LLC

2010 - Jebel Ali - Dubai (United Arab Emirates)

### PROJECT

AL BASTI INKS INDUSTRY LLC is a leading ink manufacturer and exporter of printing inks and coating in Dubai. The Group is involved in diverse activities in this region since past 30 years.

### CHALLENGE

For its manufacturing and R&D centre at Jebel Ali Industrial Area, Al Basti Inks needed a process cooling and air conditioning solution able to guarantee highest efficiency even with extremely high outdoor air temperature and complete reliability for 24h operation.

### SOLUTION

The ideal choice to satisfy these stringent project requirements was a Climaveneta NECS air cooled chiller with scroll compressors and R-410A. Thanks to its very high

energy efficiency and to the optimization for high external air temperature it could guarantee maximum reliability combined with extremely high EER and ESEER values, thus dramatically contributing to reduce the system running costs. These advantages are completed by the very low sound levels of this unit, which are a further guarantee of perfect comfort also for Al Basti R&D department.

Hydronic System

Cooling capacity:  
113 kW

Installed machines:  
1x NECS/HT 0524



### UNILEVER

2010 Helsingborg  
(Sweden)

Hydronic System

Cooling capacity:  
1600 kW

Installed machines:  
3x FOCS/B 2642,  
1x NECS/B 1104,  
1x FOCS-W 1902



### ABB TURBO SYSTEMS

2009 Klingnau  
(Switzerland)

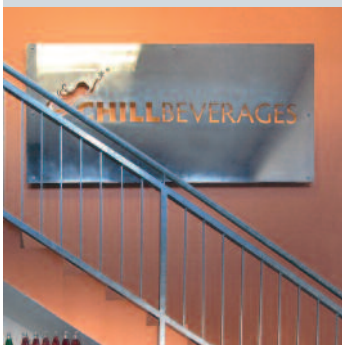
Hydronic System

Cooling capacity:  
438 kW

Installed machines:  
1x NECS/B 1656



## MORE ON CLIMAVENETA



### CHILL BEVERAGES

2007 Stellensbosch  
(South Africa)

Hydronic System

Cooling capacity:  
95 kW

Installed machines:  
1x NECS/B D 0452



### ART OF WINE VINERIA

2008 Drama (Greece)

Hydronic System

Cooling capacity:  
364 kW

Installed machines:  
1x FOCS/B 1542,  
1x NECS/B 0352

## INDUSTRIAL PROCESSES

# WELBEDACHT WINE ESTATE

2005 - Wellington (South Africa)



### PROJECT

Welbedacht Wine Estate is situated in Wellington, one of the Cape's most picturesque wine regions. There is probably no more apt way to describe the set-up at Welbedacht, home of Schalk Burger & Sons Wines, than: "love is in the detail".

### CHALLENGE

The unique cellar has been carefully designed to meet the winemaking team's exacting standards in terms of performance and reliability. There are various steps in the vinification process that require precise temperature control: from filtration to fermentation and from stabilization to barrel maturation.

### SOLUTION

For this project the Schalk Burger & Sons Wines chose Climaveneta's NECS high efficiency units, which ensure the constant availability of cool water for a correct wine-making activity.

Hydronic System

Cooling capacity:  
96 kW

Installed machines:  
1x NECS



### CHAMONIX ACQUA MINERALE

2009 Franschhoek  
(South Africa)

Hydronic System

Cooling capacity:  
96,9 kW

Installed machines:  
1x NECS/B 0412



### LAY GEWÜRZE

2010 Grabfeld  
(Germany)

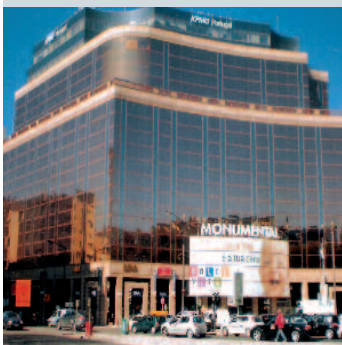
Hydronic System

Cooling capacity:  
78,9 kW

Installed machines:  
1x NECS-C/B D 0412



## MORE ON CLIMAVENETA



### MONUMENTAL CINEMA MADEIRA FILMS

2009 Lisbon (Portugal)

Hydronic System

Cooling capacity:  
161 kW

Installed machines:  
1x NECS/SL 704



### E. LECLERC KLODZKO

2009 Klodzko (Poland)

Hydronic System

Cooling capacity:  
106 kW

Installed machines:  
1x NECS/LN 0452

COMFORT APPLICATIONS

# GRAND HYATT HOTEL GOA

2008 - Goa (India)



## 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.

Hydronic System

Cooling capacity: 4550 kW

Installed machines:

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



## HOTEL NOVA SENIA

2008 Tarragona (Spain)

Hydronic System

Cooling capacity:  
70 kW

Installed machines:  
1x NECS-0302/SL



## HOSPITAL DE LA RIBERA

2008 Alzira (Spain)

Hydronic System

Cooling capacity:  
34 kW

Installed machines:  
1x NECS/SL 0152



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