NX 0614T - 1214T

159-352 kW

Chiller, air source for outdoor installation

(The photo of the unit is indicative and may vary depending on the model)

- CLASS A EFFICIENCY
- ALUMINIUM MICRO-CHANNEL HEAT EXCHANGERS
- ELECTRONIC EXPANSION VALVE SUPPLIED STANDARD
- WIDE OPERATING RANGE
- EXCHANGER
- INTEGRATED HYDRONIC MODULE

CLIMAVENETA
SUSTAINABLE COMFORT
A Group Company of MITSUBISHI ELECTRIC

CERTIFICATIONS

Product certifications

Certificate Number MCS HP0005
Heat Pumps

Voluntary product certifications

Check ongoing validity of certificate:
www.eurovent-certification.com
or
www.certiflash.com

System certifications

Certificate Number MCS HP0005
Heat Pumps

Climaveneta S.p.A.:

Quality System complying with the requirements of UNI EN ISO9001:2008 regulation

Environmental Management System complying with the requirements of UNI EN ISO14001:2004 regulation

LEGEND

Functions

Cooling

Refrigerant

R-410A

Compressors

Scroll compressor

Fan

Axial fan

Exchangers

Shell & Tubes

Other features

Energy Class A

Eurovent

1.1 PRODUCT PRESENTATION

2.1 GREEN CERTIFICATION RELEVANT

Climaveneta as a major player in the world HVAC market and a leading manufacturer of energy efficient, sustainable HVAC solutions, recognizes and supports the diffusion of green certification systems, as an effective way to deliver high performance buildings and improve the quality and the sustainability of the built environment.

Since the first certification system was introduced at the beginning of the 1990s, the demand for certified buildings has grown considerably, as well as the number of standards, rating and certification programs. Operating worldwide Climaveneta has extensive experience with many of them and is active member of Green Building Council Italy.

Climaveneta commitment to develop responsible and sustainable HVAC solutions, is reflected by a full range of premium efficiency products and systems, designed with special care to improve building energy performance ratings, according to major certification protocols, including LEED, BREAM, GREENSTAR, BCA, NABERS, DNGB, HQE and BEAM.

To find out more about how our products contribute to enhanced green certification rating and energy performance of a building, please refer to:
http://www.climaveneta.com/GLOBAL/Company/Green-Certifications/
QR code

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

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

1.4 ALUMINIUM MICRO-CHANNEL HEAT EXCHANGERS
The NX family uses aluminium micro-channel condenser coils that deliver premium efficiency whilst ensuring a reduced refrigerant volume and a lower unit weight. The traditional copper/aluminium tube and fin coils are available as an alternative. A full range of protective treatments is available to assure the highest level of resistance to corrosion in any condition, even in the most aggressive environments.

1.5 ELECTRONIC EXPANSION VALVE SUPPLIED STANDARD
The use of the electronic expansion valve generates considerable benefits, especially in cases of variable demand and different external conditions. It has been introduced into these units as a result of accurate design choices concerning the cooling circuit and the optimisation of operation in various different working conditions. The electronic expansion valve comes standard in the high-efficieny CA version, optional for the compact K versions.

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

1.7 EXCHANGER
The shell and tube exchanger allows to achieve the highest flexibility on the unit's installation, keeping on the hydronic side the pressure drops at the minimum level, thus representing the best choice for all the hydronic applications on the residential, commercial and industrial markets.

1.8 INTEGRATED HYDRONIC MODULE
The optional built-in hydronic module already contains the main water circuit components; it is available with single or twin in-line, for achieving both low or high head.

K VERSIONS: COMPACT LIQUID CHILLERS

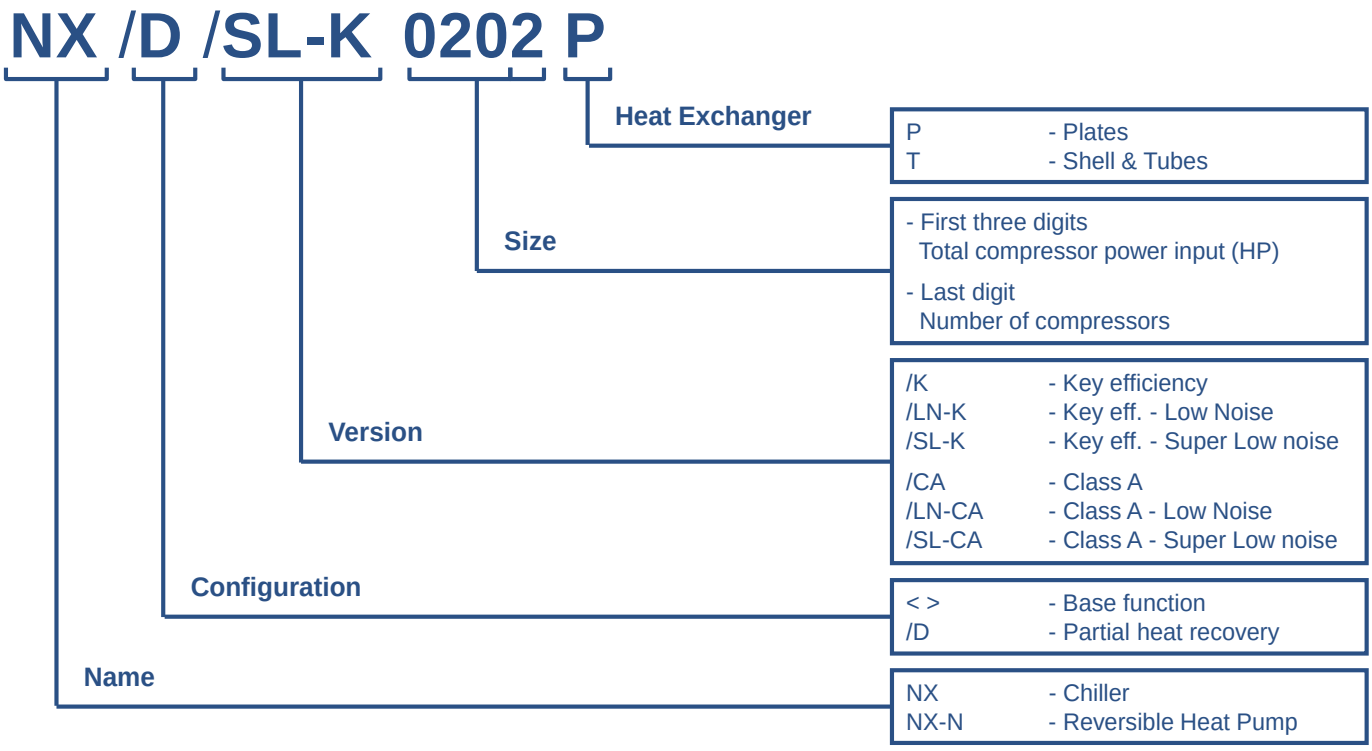
The compact versions of NX Climaveneta liquid chillers achieve excellent levels of energy efficiency while keeping the footprint to a minimum. They are the best solution in all the installations with limited clearance available or when replacing or upgrading existing systems.
The K version is available with three different sound emission ratings: /K, LN-K, SL-K.
The LN and SL versions reduce the noise level by up to 10 dB(A) compared to the base version, being the ideal solutions to satisfy even the most demanding application requirements.

CA VERSIONS: HIGH EFFICIENCY LIQUID CHILLERS

The high efficiency versions of NX Climaveneta liquid chillers ensure the highest efficiency level of the category. They are the best solution in all the installations where energy saving is a must.
The CA version is available with three different sound emission ratings: /CA, LN-CA, SL-CA.
The LN and SL versions reduce the noise level by up to 10 dB(A) compared to the base version, always keeping Eurovent class A efficiency (EER calculated based on the restrictive European standard EN14511).

This variability, further increased by a full range of accessories, makes the NX range able to fit the needs of any installation with tailored performance levels and technical features.

	K versions: **compact liquid chillers**	**CA versions:** **high efficiency liquid chillers**
Standard noise (-)	**NX /K** Compact chillers with key efficiency	**NX /CA** High efficiency chillers with class A Eurovent EER
Low Noise (LN)	**NX /LN-K** Compared to the standard noise version: - same dimensions (when possible) - lower noise emissions (reduction of up to 6 dB(A))	**NX /LN-CA** Compared to the standard noise version: - same efficiency (Class A Eurovent) - lower noise emissions (reduction of up to 6 dB(A))
Super Low noise (SL)	**NX /SL-K** Compared to the Low Noise version: - same dimensions (when possible) - lower noise emissions (further reduction of 4 to 6 dB(A))	**NX /SL-CA** Compared to the Low Noise version: - same efficiency (Class A Eurovent) - lower noise emissions (further reduction of 4 to 6 dB(A))



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2.2 Chiller, air source for outdoor installation
Outdoor unit for the production of chilled water with hermetic rotary Scroll compressors, ozone-friendly refrigerant R410A, axial-flow fans, shell and tubes heat exchanger, micro-channel full-aluminum air coils and thermostatic or electronic expansion valve, according to the model. The range is composed by units equipped with four compressors in tandem configuration on two independent refrigeration circuits.
- The unit is supplied fully refrigerant charged and factory tested. On site installation only requires power and hydraulic connection.

2.3 Structure
Structure specifically designed for outdoor installation. Basement and frame in hot-galvanised shaped sheet steel with a suitable thickness. All parts polyester-powder painted to assure total weather resistance.
- Compressors fastened to unit's frame with ani-vibration mountings.
- Compressor compartment separated from ventilation section.
- Compressor compartment with soundproofing enclosure (thickness of 15 mm on sides, top and bottom for versions LN-K, LN-CA), (thickness of 30 mm on sides, top and bottom for versions SL-K, SL-CA).

2.4 Compressor
Hermetic scroll compressors in tandem layout complete with oil sump heater, electronic overheating protection with centralised manual reset and a two-pole electric motor.

2.5 Plant side heat exchanger
Direct expansion multi-circuit shell and tube exchanger with asymmetric side coolant flows for maintaining the coolant at the correct speed inside the tubes when passing from the liquid to the gas phase. The shell & tube is manufactured using copper tubes with internal grooves for favouring heat exchange and mechanically expanded onto the tube plates. The heat exchanger may be inspected to facilitate cleaning operations when using particularly hard water (limestone). The heat exchanger is lined on the outside with 9 mm thick closed-cell neoprene lagging to prevent condensation, with a thermal conductivity of 0,33 W/mK at 0°C. The heat exchanger is fitted with a differential pressure switch to monitor the correct flow of water when the unit is operating, thus preventing ice form forming inside. An electric antifreeze heater prevents the ice from forming inside the exchanger when the unit is not working but connected to the electrical supply.

2.6 Source side heat exchanger
Full-aluminum microchannel coil.

2.7 Fan section source side
Axial electric fans, protected to IP 54, with external rotor and plastic-coated aluminium blades. Housed in aerodynamic hoods complete with safety grille. 6-pole electric motor (8-pole motor for versions LN-CA, SL-CA) with built-in overload protection. Fan diameter of 800 mm. Separated ventilation control with inactive circuit fan disabling. Fan section controlled wth pressostatic device for version K, with fan speed adjusted by autotrasformers for versions LN-K, SL-K, CA, LN-CA, SL-CA.

2.8 Refrigerant circuit
Main components of the cooling circuit:
- single circuit in tandem compressors
- R410A refrigerant
- total ratio between refrigerant charge and cooling capacity* lower than 0,145 g/W (versions K, LN-K, SL-K, CA, LN-CA)
- total ratio between refrigerant charge and cooling capacity* lower than 0,170 g/W (versions SL-CA)
- shell and tube exchanger
- drier filter with replaceable cartridge
- refrigerant line sight glass with humidity indicator
- mechanical thermostatic expansion valves (versions K, LN-K, SL-K)
- electronic expansion valves (versions CA, LN-CA, SL-CA)
- high and low pressure transducers
- high and low pressure safety valve
- safety switching device for limiting the pressure
- crankcase heater on each compressor
- * Cooling capacity according to Eurovent conditions: water (in/out) 12/7°C, outdoor temperature 7°C

2.9 Electrical and control panel
Electrical and control panel built to EN60204-1 and EC204-1 standards, complete with:
- general door lock isolator
- control circuit transformer
- IP44 XW protection
- power circuit with electric bus bar distribution system
- fuses and contactors for compressors and fans
- remote ON/OFF terminals
- terminals for cumulative alarm block
- auxiliary 4-20mA analogue input
- relays for remote pump(s) activation for both circuits (only for units without hydronic pumps)
- antifreeze electric heater for heat exchanger
- electronic controller
- multi-language user keypad with LCD display
- Power supply: 400V~ ±10% 3ph 50Hz

2.10 Certification and applicable directives
The unit complies with the following directives and relative amendments:
- EUROVENT Certification program
- CE Declaration of conformity certificate for the European Union
- EAC Product quality certificate for Russian Federation
- Machine directive 2006/42/EC
- ElectroMagnetic compatibility directive 89/336/EEC + 2004/108/EC
- Low Voltage directive 2006/95/EC
- PED Directive 2014/68/EC
- ISO 9001 Company´s Quality Management System certification
- ISO 14001 Company´s Environmental Management System certification

2.11 Tests
Tests performed throughout the production process, as indicated in ISO9001.
Performance or noise tests can be performed by highly qualified staff in the presence of customers.
Performance tests comprise the measurement of:
- electrical data
- water flow rates
- working temperatures
- power input
- power output
- pressure drops on the water-side exchanger both at full load (at the conditions of selection and at the most critical conditions for the condenser) and at part load conditions.

During performance testing it is also possible to simulate the main alarm states.
Noise tests are performed to check noise emissions according to ISO9614.

2.13 Versions
/LN-K - Low Noise, Key efficiency and compact version
This configuration features a special soundproofing for the compressor compartment and the pumps (if present), a reduced fan speed and an oversized condensing section.
The fan speed is automatically increased in case of particularly tough environmental conditions.

/SL-K - Super Low noise, Key efficiency and compact version
This configuration features a special soundproofing for the compressor compartment and the pumps (if present), a reduced fan speed and an oversized condensing section.
The fan speed is automatically increased in case of particularly tough environmental conditions.

/CA - Class A of efficiency
Class A of efficiency as per Eurovent.

/LN-CA - Low Noise, Class A of efficiency
Unit in Eurovent class A of efficiency.
This configuration features a special soundproofing for the compressor compartment and the pumps (if present), a reduced fan speed and an oversized condensing section.
The fan speed is automatically increased in case of particularly tough environmental conditions.

/SL-CA - Super Low noise, Class A of efficiency
Unit in Eurovent class A of efficiency.
This configuration features a special soundproofing for the compressor compartment and the pumps (if present), a reduced fan speed and an oversized condensing section.
The fan speed is automatically increased in case of particularly tough environmental conditions.

2.14 Configurations
< >, Standard unit
Standard unit for production of chilled water

/D, with Desuperheater
Unit for the production of chilled water, equipped with an auxiliary heat exchanger on the compressor discharge for superheat recovery. The

recovered heat is approximately the 20% of the total cooling capacity and can be used for domestic hot water production or other secondary uses, such as the integration of an existing boiler.

3.1 ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
1960 **PRESSURE RELIEF VALVES**			
1961 DUAL RELIEF VALVES WITH SWITCH	Dual relief valve with switch	Allows to unselect a relief valve in order to service the unit avoiding medium or long inoperative periods	ALL
380 **NUMBERED WIRING**			
381 NUMBERED WIRING ON EL. BOARD			ALL
2410 **PHASE SEQUENCE RELAY**			
2411 WITH EXTERNAL PHASE SEQUENCE RELAY	Relay for checking mains phase-sequence	Protects loads against faults due to incorrect connection of mains	ALL
3300 **COMPRESSOR REPHASING**			
3301 COMPR.POWER FACTOR CORR.	Capacitors on the compressors' power inlet line.	The unit's average cos(phi) increases.	ALL
3410 **AUTOMATIC CIRCUIT BREAKERS**			
3412 AUTOM. CIRCUIT BREAK. ON LOADS	Over-current switch on the major electrical loads.	In case of overcurrent allows resetting of the switch without the replacement of relative fuses.	ALL
3600 **ON/OFF COMPRESSOR SIGNAL**			
3601 COMPRESSOR OPERATION SIGNAL	Auxiliary contacts providing a voltage-free signal.	Allows remote signalling of compressor's activation or remote control of any auxiliary loads.	ALL
4180 **REMOTE CONNECTION ARRANGEMENT**			
4181 SERIAL CARD MODBUS	Interface module for ModBUS protocols.	Allows integration with BMS operating with ModBUS protocol.	ALL
4182 SERIAL CARD FOR LONWORKS	Interface module for Echelon systems.	Allows integration with BMS operating with LonWorks protocols	ALL
4184 SERIAL CARD BACNET MS/TP RS485	Interface module for BACnet protocols.	Allows integration with BMS operating with BACnet protocol.	ALL
4185 SERIAL CARD FOR BACNET OVER IP	Interface module for BACnet OVER-IP protocols.	Allows to interconnect BACnet devices over Internet Protocol within wide-area networks.	ALL
6160 **AUXILIARY INPUT**			
6161 AUXILIARY SIGNAL 4-20mA	4-20 mA analog input	Allows to change the operating set-point according to the value of current applied to the analogue input.	ALL
6162 REMOTE SIGNAL DOUBLE SP	Allows to activate the Energy Saving set-point.	Allows to change the operating set-point according to a remote switch	ALL
6170 **DEMAND LIMIT**			
6171 INPUT REMOTE DEMAND LIMIT	Digital input (voltage free)	It permits to limit the unit's power absorption for safety reasons or in temporary situation.	ALL

ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
1510 **SOFT-STARTER**			
1511 SOFT-STARTER FOR THREE-PHASE POWER SUPPLY	Electronic device adopted to manage the inrush current.	Break down of the inrush current compared to the direct motor start, lower motor windings' mechanical wear, avoidance of mains voltage fluctuations during starting, favourable sizing for the electrical system.	ALL
6310 **VISUAL DISPLAY PROTECTION**			
6311 WITH DISPLAY PROTECTION	Display protection sealed panel	Provide complete protection against UV rays, atmospheric agents, sand storms.	ALL
600 **LIQUID LINE SOLENOID VALVE**			
601 LIQUID LINE SOLENOID VALVE	Solenoid valve on the refrigerant liquid line, between the condenser and the expansion valve.	Prevent liquid from migrating towards the compressors when the unit is turned off.	ALL
1400 **HP AND LP GAUGES**			
1401 HP AND LP GAUGES	High and low pressure gauges	Allows immediate reading of the pressure values on both low and high pressure circuits	ALL
1900 **COMPRESSOR SUCTION VALVE**			
1901 COMPRESSOR SUCTION VALVE	Shut-off valve on compressor's suction circuit.	Simplifies maintenance activities	ALL
1910 **COMPRESSOR DISCHARGE VALVE**			
1911 COMPR. DISCHARGE LINE VALVE	Shut-off solenoid valve on compressor discharge circuit	Simplifies maintenance activities	ALL
1930 **ELECTRONIC EXPANSION VALVES**			
1925 EEV FOR UNITS WITHOUT DVV	Electronic expansion valve. This code includes the DVV device for the ventilation control. This code can be selected only for the models equipped with the pressostatic fan control (DP device).	The electronic valve ensures a quick, fluctuating-free refrigerant circuit regulation, and therefore a highly accurate adjustment to the load swings. Furthermore it allows to reduce the super heating in the evaporator, thus enhancing unit's operating efficiency.	**NX /K**: 0614T, 0714T, 0814T, 0914T, 1014T, 1114T, 1214T. **NX /D /K**: 0614T, 0714T, 0814T, 0914T, 1014T, 1114T, 1214T.
1926 EEV FOR UNITS WITH DVV	Electronic expansion valve. This code can be selected only for the models already equipped with a fan speed control device (DVV, DVVF, DVV2F).	The electronic valve ensures a quick, fluctuating-free refrigerant circuit regulation, and therefore a highly accurate adjustment to the load swings. Furthermore it allows to reduce the super heating in the evaporator, thus enhancing unit's operating efficiency.	ALL
990 **CONDENSING COIL**			
876 E-COATING MICROCHANNEL COILS	The heat exchanger is completely treated by electrolysis so as to create a protective layer of epoxy polymer on the surface, with the following characteristics: - over 3120 hours of salt spray protection as per ASTM G85-02 A3 (SWAAT); - polyurethane surface protection against UV rays.	Provide a very high resistance against corrosion, also in very aggressive environment. For further information please refer to the Guidelines "Finned coil heat exchangers and protection against corrosion", available in the download section of the website www.climaveneta.com, or contact our sales department.	ALL

ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
879 COPPER/ALUMINIUM COILS	Finned coil heat exchanger made from suitably-spaced copper tubes and aluminum fins designed to ensure maximum heat exchange efficiency.	Provide a good resistance against corrosion. For further information please refer to the Guidelines “Finned coil heat exchangers and protection against corrosion”, available in the download section of the website www.climaveneta.com, or contact our sales department.	ALL
881 Cu/Cu EXTERNAL COIL	Finned coil heat exchanger made from copper tubes and aluminum fins with chemical cleaning treatment to remove impurities, and then coated with protective paint with the following characteristics: - fins treated with protective polyester resin paint; - over 1000 hours of salt spray protection as per ASTM B117 (fins without cross and protected edges); - excellent resistance to UV rays.	Provide a very high resistance against corrosion, also in very aggressive environment. For further information please refer to the Guidelines “Finned coil heat exchangers and protection against corrosion”, available in the download section of the website www.climaveneta.com, or contact our sales department.	ALL
894 Cu PIPES/PREPAINTED ALL. FINS	Finned coil heat exchanger made from copper tubes and aluminum fins with chemical cleaning treatment to remove impurities, and then coated with protective paint with the following characteristics: - fins treated with protective polyester resin paint; - over 1000 hours of salt spray protection as per ASTM B117 (fins without cross and protected edges); - excellent resistance to UV rays.	Provide a good resistance against corrosion. For further information please refer to the Guidelines “Finned coil heat exchangers and protection against corrosion”, available in the download section of the website www.climaveneta.com, or contact our sales department.	ALL
895 FIN GUARD SILVER TREATM	Copper-aluminum heat exchanger coils with polyurethane paint Fin Guard Silver SB. Coil completely coated by a protective layer of polyurethane paint with the following characteristics: - polyurethane paint with metallic emulsion; - over 3000 hours of salt spray protection as per ASTM B117; - excellent resistance to UV rays; - high-pressure spray painting system.	Provide a very high resistance against corrosion, also in very aggressive environment. For further information please refer to the Guidelines “Finned coil heat exchangers and protection against corrosion”, available in the download section of the website www.climaveneta.com, or contact our sales department.	ALL
820 **LOW AMBIENT CONTROL**			
801 PRESSOST. LOW AMBIENT CONTROL	Pressostatic control of the fans	Extension of the unit operating range (see the section dedicated to the operating limits). The device allows the unit to operate in the most extreme conditions avoiding any risk of low pressure alarm intervention. The enhanced air flow management delivers also benefits in terms of both efficiency and quietness.	**NX /K**: 0614T, 0714T, 0814T, 0914T, 1014T, 1114T, 1214T. **NX /D /K**: 0614T, 0714T, 0814T, 0914T, 1014T, 1114T, 1214T.
802 VAR.FAN SPEED LOW AMB.CONTROL	Fan speed control according to the condensing pressure; the use of this device is mandatory in case the unit operates with low evaporator leaving water temperature combined with low outdoor air temperatures	Extension of the unit operating range (see the section dedicated to the operating limits). The device allows the unit to operate in the most extreme conditions avoiding any risk of low pressure alarm intervention. The enhanced air flow management delivers also benefits in terms of both efficiency and quietness.	ALL

ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
819 DVVF	Fan speed control according to the condensing pressure; the use of this device is mandatory in case the unit operates with low evaporator leaving water temperature combined with low outdoor air temperatures	Extension of the unit operating range (see the section dedicated to the operating limits). The device allows the unit to operate in the most extreme conditions avoiding any risk of low pressure alarm intervention. The enhanced air flow management delivers also benefits in terms of both efficiency and quietness.	ALL
821 DVV2F	Fan speed control according to the condensing pressure; the use of this device is mandatory in case the unit operates with low evaporator leaving water temperature combined with low outdoor air temperatures	Extension of the unit operating range (see the section dedicated to the operating limits). The device allows the unit to operate in the most extreme conditions avoiding any risk of low pressure alarm intervention. The enhanced air flow management delivers also benefits in terms of both efficiency and quietness.	ALL
3160 **WITH HYDRAULIC KIT ON BOARD**			
3152 KIT 1 PUMP 2 POL LH+TANK	Hydronic group (see dedicated section).		ALL
3153 KIT 1 PUMP 2 POL HH+TANK	Hydronic group (see dedicated section).		ALL
3155 KIT 2 PUMPS 2 POL LH+TANK	Hydronic group (see dedicated section).		ALL
3156 KIT 2 PUMPS 2 POL HH+TANK	Hydronic group (see dedicated section).		ALL
3164 KIT 1 PUMP 2 POLES LH	Hydronic group (see dedicated section).		ALL
3165 KIT 1 PUMP 2 POLES HH	Hydronic group (see dedicated section).		ALL
3167 KIT 2 PUMPS 2 POLES LH	Hydronic group (see dedicated section).		ALL
3168 KIT 2 PUMPS 2 POLES HH	Hydronic group (see dedicated section).		ALL
2430 **PIPING KIT ANTIFREEZE HEATER**			
2432 ANTIFREEZE PIPING, PUMPS	Electrical heaters on pipes and other hydraulic unit's components. This option is mandatory if the unit is supposed to work with outdoor temperature below 0°C.	It protects the unit against ice formation on its hydraulic components.	ALL
2433 ANTIFREEZE PIPING, PUMPS, TANK	Electrical heaters on pipes and other hydraulic unit's components. This option is mandatory if the unit is supposed to work with outdoor temperature below 0°C.		ALL
2660 **HEAT-EXCHANGER INSULATION**			
2641 EXTRA INSULAT. FOR LOW TEMP.	Increased thermal insulation on the heat exchanger: 20 mm thick closed-cell expanded polyurethane.	Reduces heat losses and prevent from condensate problems.	ALL
2020 **ANTI-INTRUSION GRILLS**			
2021 ANTI-INTRUSION GRILLS	Anti-intrusions grills	Avoid the intrusion of solid bodies into the unit's structure.	ALL

ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
1980 **ENCLOSURE PANELS**			
1981 SIDE PANELS ON THE COILS	Metallic panels on the side of the coils that cover piping and headers.	Improve protection and aesthetics.	ALL
2620 **ACOUSTICAL ENCLOSURE**			
2621 EXTRA INSUL.ON COMPR. SECTION	Increased soundproofing enclosure for compressor section	Noise emission reduction of 4 dB(A)	ALL
2100 **ANTIVIBRATION MOUNTING**			
2101 RUBBER TYPE ANTIVIBR.MOUNTING			ALL
2102 SPRING TYPE ANTIVIBR.MOUNTING			ALL
9970 **PACKING**			
9969 NYLON + WOODEN CRATE PACKING	Unit provided with wooden cage and covered with nylon		ALL
9971 WITHOUT PACKAGING	Unit provided with plastic supports		ALL
9972 WOODEN BOX PACKING	Unit provided with wooden box		ALL
9973 WOODEN CAGE PACKING	Unit provided with wooden cage		ALL
9974 MARINE PACKING	Unit provided with barrier bag and wooden cage		ALL
9979 CONTAINER PACKING	Unit provided with container slides and covered with nylon		ALL
9996 CONTAINER SLIDES	Unit provided with container slides		ALL
9999 SUPPORTS AND NYLON	Unit provided with plastic supports and covered with nylon		ALL

ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
PF0 **Generic accessory**			
C5140131 Evaporator water flow switch	Flow switch with stainless scoop AISI 316L and IP65 protection suitable for installation in industrial plant pipes. It should be installed in a straight pipe without filters, valves, etc., long at least 5 times its diameter, both upstream and downstream. ADVANTAGES: signaling of lack of or	Signaling of lack of or excessive reduction of flow, it generates an alarm that is in automatic or manual reset depending on n ° alarms per hour and the maximum time of operation of the pump under conditions of low flow rate.	NX /CA: 0614T, 0714T, 0814T, 0914T. NX /K: 0614T, 0714T, 0814T, 0914T. NX /LN-CA: 0614T, 0714T, 0814T, 0914T. NX /LN-K: 0614T, 0714T, 0814T, 0914T. NX /SL-CA: 0614T, 0714T, 0814T, 0914T. NX /SL-K: 0614T, 0714T, 0814T, 0914T. NX /D /CA: 0614T, 0714T, 0814T, 0914T. NX / D /K: 0614T, 0714T, 0814T, 0914T. NX / D /LN-CA: 0614T, 0714T, 0814T, 0914T. NX / D /LN-K: 0614T, 0714T, 0814T, 0914T. NX / D /SL-CA: 0614T, 0714T, 0814T, 0914T. NX / D /SL-K: 0614T, 0714T, 0814T, 0914T.
C5140120 Evaporator water flow switch	Flow switch with stainless scoop AISI 316L and IP65 protection suitable for installation in industrial plant pipes. It should be installed in a straight pipe without filters, valves, etc., long at least 5 times its diameter, both upstream and downstream. ADVANTAGES: signaling of lack of or	Signaling of lack of or excessive reduction of flow, it generates an alarm that is in automatic or manual reset depending on n ° alarms per hour and the maximum time of operation of the pump under conditions of low flow rate.	NX /CA: 1014T, 1114T, 1214T. NX /K: 1014T, 1114T, 1214T. NX /LN-CA: 1014T, 1114T, 1214T. NX /LN-K: 1014T, 1114T, 1214T. NX /SL-CA: 1014T, 1114T, 1214T. NX /SL-K: 1014T, 1114T, 1214T. NX /D /CA: 1014T, 1114T, 1214T. NX / D /K: 1014T, 1114T, 1214T. NX / D /LN-CA: 1014T, 1114T, 1214T. NX / D /LN-K: 1014T, 1114T, 1214T. NX / D /SL-CA: 1014T, 1114T, 1214T. NX / D /SL-K: 1014T, 1114T, 1214T.

ACCESSORY NOTES

6161 – Auxiliary signal 4-20 mA
Presente di std.

3301 – Compressor power factor correction
1511 – Soft starter
There is a mutual exclusion rule between the compressor rephrasing condensers and the soft start device. When both accessories are required together, a feasibility analysis is needed. If the configuration is available as a special execution, an extra-price may be quoted.

1925-1926 – Electronic expansion valve
601 – Liquid line solenoid valve
The use of the electronic expansion valve entails the selection of the solenoid valve.

Chiller Plant Control with Active Optimization System

ClimaPRO System Manager

ClimaPRO System Manager represents the state-of-the-art platform for chiller plant management and control.
ClimaPRO ensures to actively optimize the entire chiller plant by managing and adjusting each component directly involved in the production and the distribution of the heating and the cooling energies, therefore involving chillers and heat pumps, pumping groups as well as the source-side devices like, for example, the cooling towers.

In particular, ClimaPRO measures in real-time all the operating variables from the field, for each individual device and each of the main system branche, by using serial communication lines as well as dedicated analogue signals.

The acquired data are then compared with the design data of each single unit at any different working conditions, thus allowing to implement control strategies based on dynamic algorithms which take into account the real operating conditions.

On the basis of these values, an advanced diagnostic module also allows to assess the level of efficiency for each individual unit, translating data into easy-to-read information in order to simplify and optimize the maintenance activities.

The “Chart Builder” software module allows to display the trends of the main operating variables. The “Reporting” module allows to send reports to selected users, including data and system’s status of the main devices as well as to perform calculation of the energy indexes for each single unit and for the entire chiller plant.

The accessibility to ClimaPRO System Manager is ensured by an integrated web server that makes it visible from any computer equipped with a web browser, either locally or remotely.

4.1 GENERAL TECHNICAL DATA NX / K

[SI System]

NX / K			0614T	0714T	0814T	0914T	1014T	1114T	1214T
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	**kW**	**165**	**194**	**218**	**248**	**289**	**308**	**327**
Total power input	(1)	kW	58,3	66,7	78,9	88,6	99,0	108	118
EER	(1)	kW/kW	2,83	2,91	2,76	2,80	2,92	2,85	2,76
ESEER	(1)	kW/kW	4,06	4,39	4,30	4,41	4,26	4,27	4,18
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	**kW**	**164**	**193**	**217**	**247**	**288**	**307**	**326**
EER	(1)(2)	kW/kW	2,79	2,87	2,71	2,76	2,86	2,81	2,73
ESEER	(1)(2)	kW/kW	3,92	4,21	4,08	4,20	4,02	4,11	4,02
Cooling energy class			C	C	C	C	C	C	C
COOLING WITH PARTIAL RECOVERY									
Cooling capacity	(3)	kW	171	201	226	257	300	320	339
Total power input	(3)	kW	56,6	64,7	76,4	85,8	95,9	105	114
Desuperheater heating capacity	(3)	**kW**	**44,9**	**52,4**	**63,3**	**72,0**	**77,6**	**86,1**	**94,8**
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,87	9,28	10,4	11,9	13,8	14,7	15,6
Pressure drop	(1)	kPa	23,3	32,4	50,9	45,5	61,7	38,0	42,7
PARTIAL RECOVERY USER SIDE IN REFRIGERATION									
Water flow	(3)	l/s	2,17	2,53	3,05	3,47	3,75	4,16	4,58
Pressure drop	(3)	kPa	19,2	26,1	38,1	39,1	45,5	44,7	54,3
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
Number of capacity		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	22	22	25	26	32	35	35
Oil charge		kg	14	27	27	27	27	28	29
Rc (ASHRAE)	(4)	kg/kW	0,135	0,114	0,114	0,106	0,110	0,116	0,109
FANS									
Quantity		N°	4	4	4	4	6	6	6
Air flow		m³/s	23,97	23,30	23,30	22,73	34,95	34,95	34,95
Fans power input		kW	2,00	2,00	2,00	2,00	2,00	2,00	2,00
NOISE LEVEL									
Noise Pressure	(5)	dB(A)	60	60	61	62	63	63	63
Sound power level in cooling	(6)(7)	dB(A)	92	92	93	94	95	95	95
SIZE AND WEIGHT									
A	(8)	mm	3160	3160	3160	3160	4335	4335	4335
B	(8)	mm	2250	2250	2250	2250	2250	2250	2250
H	(8)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(8)	kg	1650	1810	1820	1950	2340	2530	2550

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 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.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / LN-K

[SI System]

NX / LN-K			0614T	0714T	0814T	0914T	1014T	1114T	1214T
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	**kW**	**160**	**185**	**208**	**235**	**274**	**290**	**320**
Total power input	(1)	kW	58,1	68,6	79,6	92,2	101	112	118
EER	(1)	kW/kW	2,75	2,70	2,62	2,55	2,71	2,60	2,70
ESEER	(1)	kW/kW	4,13	4,42	4,37	4,41	4,25	4,25	4,37
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	**kW**	**159**	**185**	**207**	**234**	**273**	**290**	**319**
EER	(1)(2)	kW/kW	2,72	2,67	2,57	2,51	2,67	2,57	2,67
ESEER	(1)(2)	kW/kW	3,99	4,25	4,16	4,21	4,04	4,10	4,21
Cooling energy class			C	D	D	D	D	D	D
COOLING WITH PARTIAL RECOVERY									
Cooling capacity	(3)	kW	166	192	216	244	284	301	332
Total power input	(3)	kW	56,3	66,3	77,0	89,2	97,7	108	115
Desuperheater heating capacity	(3)	**kW**	**47,6**	**56,9**	**66,8**	**77,7**	**83,7**	**93,2**	**99,3**
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,64	8,87	9,96	11,2	13,1	13,9	15,3
Pressure drop	(1)	kPa	21,9	29,6	46,5	40,7	55,4	33,7	41,0
PARTIAL RECOVERY USER SIDE IN REFRIGERATION									
Water flow	(3)	l/s	2,30	2,75	3,22	3,75	4,04	4,50	4,80
Pressure drop	(3)	kPa	21,6	30,8	42,4	45,5	52,9	52,4	59,6
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
Number of capacity		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	22	22	25	26	32	35	35
Oil charge		kg	14	27	27	27	27	28	29
Rc (ASHRAE)	(4)	kg/kW	0,139	0,120	0,119	0,112	0,116	0,123	0,111
FANS									
Quantity		N°	4	4	4	4	6	6	6
Air flow		m³/s	17,87	17,17	16,47	17,80	25,76	25,76	24,71
Fans power input		kW	1,20	1,20	1,20	1,30	1,20	1,20	1,20
NOISE LEVEL									
Noise Pressure	(5)	dB(A)	54	54	55	56	57	57	58
Sound power level in cooling	(6)(7)	dB(A)	86	86	87	88	89	89	90
SIZE AND WEIGHT									
A	(8)	mm	3160	3160	3160	3160	4335	4335	4335
B	(8)	mm	2250	2250	2250	2250	2250	2250	2250
H	(8)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(8)	kg	1700	1860	1870	1990	2380	2580	2600

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 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.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / SL-K

[SI System]

NX / SL-K			0614T	0714T	0814T	0914T	1014T	1114T	1214T
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	**kW**	**159**	**180**	**214**	**241**	**264**	**296**	**312**
Total power input	(1)	kW	56,3	70,7	77,8	89,3	104	109	120
EER	(1)	kW/kW	2,82	2,54	2,75	2,70	2,55	2,71	2,61
ESEER	(1)	kW/kW	4,34	4,41	4,40	4,41	4,28	4,34	4,26
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	**kW**	**158**	**179**	**213**	**240**	**263**	**295**	**311**
EER	(1)(2)	kW/kW	2,79	2,52	2,71	2,66	2,51	2,68	2,58
ESEER	(1)(2)	kW/kW	4,18	4,24	4,19	4,20	4,07	4,17	4,10
Cooling energy class			C	D	C	D	D	D	D
COOLING WITH PARTIAL RECOVERY									
Cooling capacity	(3)	kW	165	187	222	250	274	307	324
Total power input	(3)	kW	54,4	68,4	75,3	86,4	100	106	116
Desuperheater heating capacity	(3)	**kW**	**47,0**	**59,9**	**64,6**	**74,9**	**87,7**	**90,9**	**100**
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	7,60	8,60	10,2	11,5	12,6	14,2	14,9
Pressure drop	(1)	kPa	21,7	27,8	49,3	43,0	51,4	35,1	39,0
PARTIAL RECOVERY USER SIDE IN REFRIGERATION									
Water flow	(3)	l/s	2,27	2,89	3,12	3,62	4,24	4,39	4,84
Pressure drop	(3)	kPa	21,0	34,1	39,7	42,4	58,1	50,0	60,8
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
Number of capacity		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	22	22	30	32	32	41	41
Oil charge		kg	14	27	27	27	27	28	29
Rc (ASHRAE)	(4)	kg/kW	0,140	0,123	0,142	0,132	0,121	0,140	0,132
FANS									
Quantity		N°	4	4	6	6	6	8	8
Air flow		m³/s	13,17	13,17	20,30	19,76	19,76	27,06	27,06
Fans power input		kW	0,90	0,90	0,90	0,90	0,90	0,90	0,90
NOISE LEVEL									
Noise Pressure	(5)	dB(A)	50	51	51	52	52	54	54
Sound power level in cooling	(6)(7)	dB(A)	82	83	83	84	84	86	86
SIZE AND WEIGHT									
A	(8)	mm	3160	3160	4335	4335	4335	5510	5510
B	(8)	mm	2250	2250	2250	2250	2250	2250	2250
H	(8)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(8)	kg	1700	1860	2160	2290	2380	2930	2950

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 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.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / CA

[SI System]

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
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	**kW**	**174**	**205**	**235**	**266**	**302**	**330**	**352**
Total power input	(1)	kW	54,4	65,0	72,9	84,1	95,8	103	111
EER	(1)	kW/kW	3,20	3,16	3,23	3,17	3,15	3,21	3,17
ESEER	(1)	kW/kW	4,31	4,26	4,45	4,49	4,43	4,35	4,37
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	**kW**	**174**	**204**	**234**	**265**	**301**	**329**	**351**
EER	(1)(2)	kW/kW	3,16	3,11	3,16	3,11	3,11	3,16	3,12
ESEER	(1)(2)	kW/kW	4,17	4,06	4,20	4,24	4,26	4,17	4,18
Cooling energy class			A	A	A	A	A	A	A
COOLING WITH PARTIAL RECOVERY									
Cooling capacity	(3)	kW	181	213	244	276	313	342	365
Total power input	(3)	kW	52,8	63,1	70,7	81,6	92,8	99,8	108
Desuperheater heating capacity	(3)	**kW**	**41,4**	**47,3**	**54,3**	**64,4**	**74,8**	**77,5**	**84,8**
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	8,33	9,81	11,3	12,7	14,4	15,8	16,8
Pressure drop	(1)	kPa	26,1	36,2	59,5	52,4	36,5	43,6	49,6
PARTIAL RECOVERY USER SIDE IN REFRIGERATION									
Water flow	(3)	l/s	2,00	2,28	2,62	3,11	3,61	3,74	4,10
Pressure drop	(3)	kPa	16,3	21,3	28,1	31,3	42,2	36,3	43,5
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
Number of capacity		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	22	28	30	32	35	41	41
Oil charge		kg	14	27	27	27	27	28	29
Rc (ASHRAE)	(4)	kg/kW	0,128	0,136	0,129	0,120	0,118	0,125	0,118
FANS									
Quantity		N°	4	6	6	6	6	8	8
Air flow		m³/s	22,73	34,95	34,09	34,09	34,09	45,45	45,45
Fans power input		kW	2,00	2,00	2,00	2,00	2,00	2,00	2,00
NOISE LEVEL									
Noise Pressure	(5)	dB(A)	60	61	62	63	63	64	65
Sound power level in cooling	(6)(7)	dB(A)	92	93	94	95	95	96	97
SIZE AND WEIGHT									
A	(8)	mm	3160	4335	4335	4335	4335	5510	5510
B	(8)	mm	2250	2250	2250	2250	2250	2250	2250
H	(8)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(8)	kg	1700	2150	2160	2290	2550	2930	2950

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 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.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / LN-CA

[SI System]

NX / LN-CA			0614T	0714T	0814T	0914T	1014T	1114T	1214T
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	**kW**	**168**	**198**	**227**	**262**	**295**	**318**	**344**
Total power input	(1)	kW	52,8	61,6	70,5	82,8	93,2	99,6	109
EER	(1)	kW/kW	3,17	3,22	3,23	3,17	3,16	3,19	3,17
ESEER	(1)	kW/kW	4,56	4,61	4,70	4,71	4,55	4,63	4,70
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	**kW**	**167**	**198**	**226**	**261**	**294**	**317**	**343**
EER	(1)(2)	kW/kW	3,13	3,17	3,16	3,11	3,12	3,15	3,12
ESEER	(1)(2)	kW/kW	4,40	4,40	4,44	4,47	4,39	4,43	4,48
Cooling energy class			A	A	A	A	A	A	A
COOLING WITH PARTIAL RECOVERY									
Cooling capacity	(3)	kW	174	206	236	272	306	330	357
Total power input	(3)	kW	51,1	59,7	68,2	80,1	90,2	96,4	105
Desuperheater heating capacity	(3)	**kW**	**43,8**	**50,0**	**57,9**	**68,9**	**76,6**	**82,2**	**90,4**
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	8,01	9,49	10,9	12,5	14,1	15,2	16,5
Pressure drop	(1)	kPa	24,1	33,8	55,5	50,7	34,7	40,5	47,5
PARTIAL RECOVERY USER SIDE IN REFRIGERATION									
Water flow	(3)	l/s	2,12	2,41	2,80	3,33	3,70	3,97	4,36
Pressure drop	(3)	kPa	18,3	23,8	31,9	35,8	44,3	40,9	49,3
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
Number of capacity		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	22	28	30	32	41	41	41
Oil charge		kg	14	27	27	27	27	28	29
Rc (ASHRAE)	(4)	kg/kW	0,132	0,140	0,134	0,122	0,140	0,130	0,120
FANS									
Quantity		N°	4	6	6	6	8	8	8
Air flow		m³/s	16,94	26,05	25,41	25,41	34,73	33,88	33,88
Fans power input		kW	0,93	0,93	0,93	0,93	0,93	0,93	0,93
NOISE LEVEL									
Noise Pressure	(5)	dB(A)	54	55	56	57	58	59	59
Sound power level in cooling	(6)(7)	dB(A)	86	87	88	89	90	91	91
SIZE AND WEIGHT									
A	(8)	mm	3160	4335	4335	4335	5510	5510	5510
B	(8)	mm	2250	2250	2250	2250	2250	2250	2250
H	(8)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(8)	kg	1700	2150	2160	2290	2880	2900	2930

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 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.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / SL-CA

[SI System]

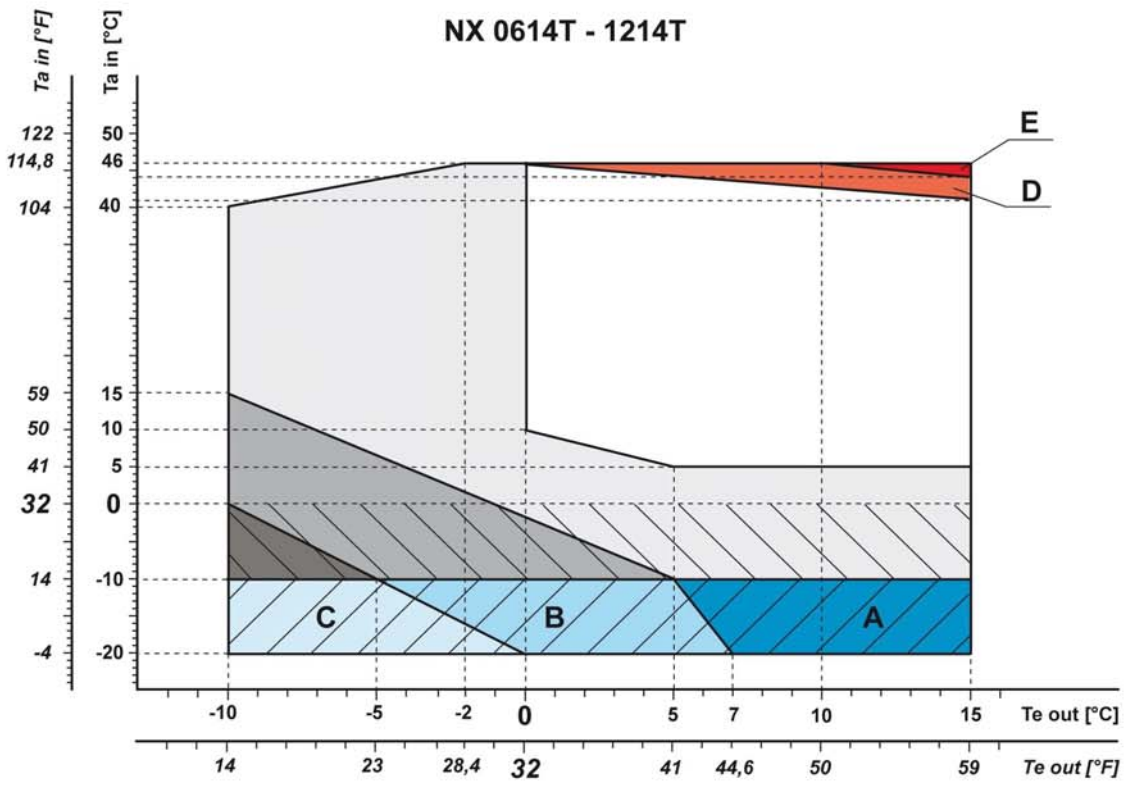
NX / SL-CA			0614T	0714T	0814T	0914T	1014T	1114T	1214T
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	**kW**	**167**	**195**	**224**	**259**	**292**	**317**	**344**
Total power input	(1)	kW	52,3	61,0	69,9	82,0	92,6	99,6	109
EER	(1)	kW/kW	3,20	3,20	3,21	3,16	3,15	3,18	3,16
ESEER	(1)	kW/kW	4,69	4,70	4,68	4,72	4,72	4,68	4,70
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	**kW**	**167**	**194**	**223**	**258**	**291**	**316**	**342**
EER	(1)(2)	kW/kW	3,16	3,15	3,14	3,11	3,11	3,13	3,11
ESEER	(1)(2)	kW/kW	4,52	4,49	4,42	4,47	4,55	4,49	4,47
Cooling energy class			A	A	A	A	A	A	A
COOLING WITH PARTIAL RECOVERY									
Cooling capacity	(3)	kW	174	202	233	269	303	328	357
Total power input	(3)	kW	50,6	59,0	67,6	79,3	89,6	96,3	105
Desuperheater heating capacity	(3)	**kW**	**43,9**	**50,7**	**57,4**	**68,2**	**77,7**	**82,8**	**91,0**
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	8,00	9,32	10,7	12,4	14,0	15,1	16,4
Pressure drop	(1)	kPa	24,1	32,7	53,9	49,6	34,1	40,1	47,2
PARTIAL RECOVERY USER SIDE IN REFRIGERATION									
Water flow	(3)	l/s	2,12	2,45	2,77	3,29	3,75	4,00	4,39
Pressure drop	(3)	kPa	18,4	24,5	31,3	35,1	45,6	41,4	50,0
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
Number of capacity		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	28	28	36	37	41	41	41
Oil charge		kg	14	27	27	27	27	28	29
Rc (ASHRAE)	(4)	kg/kW	0,166	0,143	0,161	0,145	0,142	0,131	0,120
FANS									
Quantity		N°	6	6	8	8	8	8	8
Air flow		m³/s	18,90	21,47	29,90	29,90	28,63	32,94	32,94
Fans power input		kW	0,51	0,70	0,70	0,70	0,70	0,85	0,85
NOISE LEVEL									
Noise Pressure	(5)	dB(A)	51	51	52	53	54	55	55
Sound power level in cooling	(6)(7)	dB(A)	83	83	84	85	86	87	87
SIZE AND WEIGHT									
A	(8)	mm	4335	4335	5510	5510	5510	5510	5510
B	(8)	mm	2250	2250	2250	2250	2250	2250	2250
H	(8)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(8)	kg	1980	2150	2490	2610	2880	2900	2930

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 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.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

5.1 OPERATING LIMITS



Ta in Outdoor air temperature [°C]
Te out Evaporator outlet temperature [°C]

DP device (code 801)
- STD for version K

DVV device (code 802)
- STD for versions LN-K, SL-K, CA, LN-CA, SL-CA.

DVVF device (code 819)

DVV2F device (code 821)

A

For wind protected installations (wind speed lower than 0,5 m/s - 1,64 ft/s) provide:
- DVVF device (code 819),
- Electronic expansion valve (code 1926), liquid line solenoid valve (code 601).

For windy installations provide:
- DBA device (RFQ),
- DVVF device (code 819),
- Electronic expansion valve (code 1926), liquid line solenoid valve (code 601).

B

For wind protected installations (wind speed lower than 0,5 m/s - 1,64 ft/s) provide:
- DVV2F device (code 821),
- Electronic expansion valve (code 1926), liquid line solenoid valve (code 601).

For windy installations provide:
- DBA device (RFQ),
- DVVF device (code 819),
- Electronic expansion valve (code 1926), liquid line solenoid valve (code 601).

C
- DBA device (RFQ),
- DVVF device (code 819),
- Electronic expansion valve (code 1926), liquid line solenoid valve (code 601).

D **E** - Versions SL-K, SL-CA : non-silent-mode operating area

E - Versions LN-K, LN-CA : non-silent-mode operating area

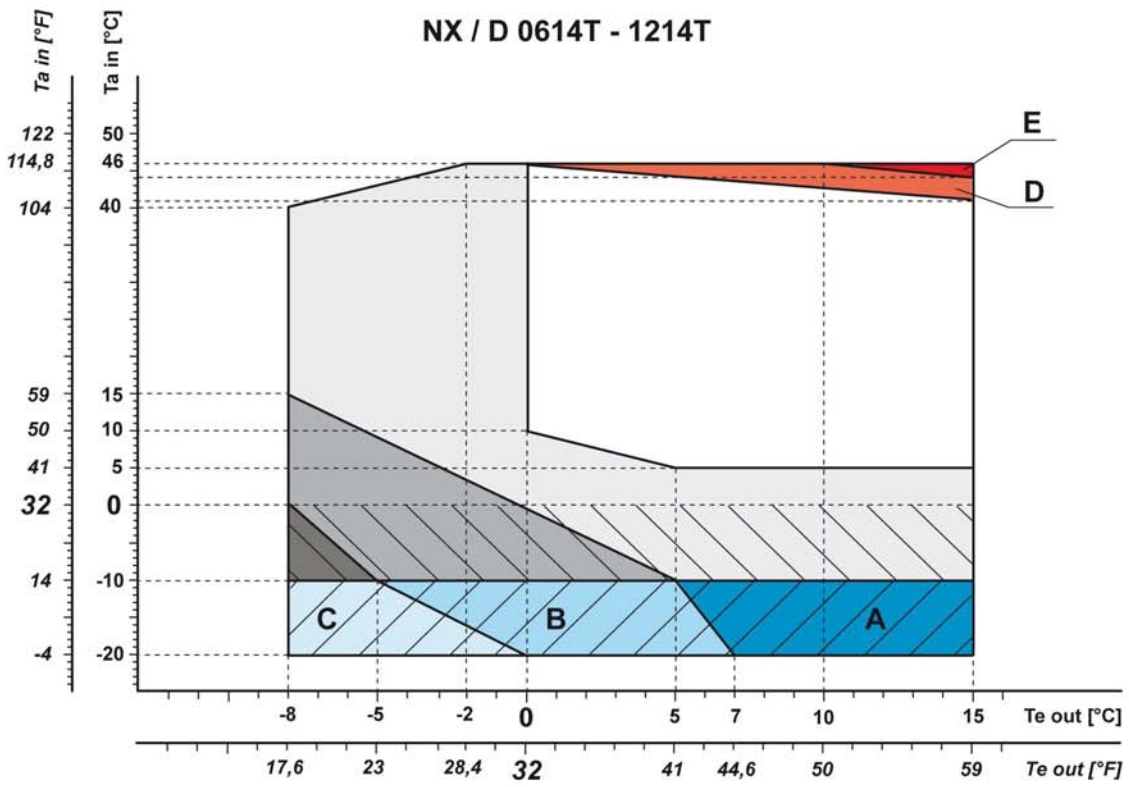
- Antifreeze heaters on pipes, pumps* and buffer tank* (code 2432 o 2433).
(* if present)

- Extra insulation on heat exchangers, pipes, pumps* and buffer tank* (RFQ),
- Extra antifreeze heaters on heat exchangers, pipes, pumps* and buffer tank* (RFQ),
(* if present)

NOTES:
For the temperature limits of each size please refer to the selection software ElcaStudio
(the diagram over 40°C could vary according to the size and the version of the selected unit).
RFQ: Request for quotation

SIZE
NX /K /0614T
NX /K /0714T
NX /K /0814T
NX /K /0914T
NX /K /1014T
NX /K /1114T
NX /K /1214T
NX /LN-K /0614T
NX /LN-K /0714T
NX /LN-K /0814T
NX /LN-K /0914T
NX /LN-K /1014T
NX /LN-K /1114T
NX /LN-K /1214T
NX /SL-K /0614T
NX /SL-K /0714T
NX /SL-K /0814T
NX /SL-K /0914T
NX /SL-K /1014T
NX /SL-K /1114T
NX /SL-K /1214T
NX /CA /0614T
NX /CA /0714T
NX /CA /0814T
NX /CA /0914T
NX /CA /1014T
NX /CA /1114T
NX /CA /1214T
NX /LN-CA /0614T
NX /LN-CA /0714T
NX /LN-CA /0814T
NX /LN-CA /0914T
NX /LN-CA /1014T
NX /LN-CA /1114T
NX /LN-CA /1214T
NX /SL-CA /0614T
NX /SL-CA /0714T
NX /SL-CA /0814T
NX /SL-CA /0914T
NX /SL-CA /1014T
NX /SL-CA /1114T
NX /SL-CA /1214T

OPERATING LIMITS



Ta in Outdoor air temperature [°C]
Te out Evaporator outlet temperature [°C]

DP device (code 801)
- STD for version K

DVV device (code 802)
- STD for versions LN-K, SL-K, CA, LN-CA, SL-CA.

DVVF device (code 819)

DVV2F device (code 821)

A

For wind protected installations (wind speed lower than 0,5 m/s - 1,64 ft/s) provide:
- DVVF device (code 819),
- Electronic expansion valve (code 1926), liquid line solenoid valve (code 601).

For windy installations provide:
- DBA device (RFQ),
- DVVF device (code 819),
- Electronic expansion valve (code 1926), liquid line solenoid valve (code 601).

B

For wind protected installations (wind speed lower than 0,5 m/s - 1,64 ft/s) provide:
- DVV2F device (code 821),
- Electronic expansion valve (code 1926), liquid line solenoid valve (code 601).

For windy installations provide:
- DBA device (RFQ),
- DVVF device (code 819),
- Electronic expansion valve (code 1926), liquid line solenoid valve (code 601).

C

- DBA device (RFQ),
- DVVF device (code 819),
- Electronic expansion valve (code 1926), liquid line solenoid valve (code 601).

D **E** - Versions SL-K, SL-CA : non-silent-mode operating area

E - Versions LN-K, LN-CA : non-silent-mode operating area

- Antifreeze heaters on pipes, pumps* and buffer tank* (code 2432 o 2433).
(* if present)

- Extra insulation on heat exchangers, pipes, pumps* and buffer tank* (RFQ),
- Extra antifreeze heaters on heat exchangers, pipes, pumps* and buffer tank* (RFQ),
(* if present)

NOTES:
For the temperature limits of each size please refer to the selection software ElcaStudio
(the diagram over 40°C could vary according to the size and the version of the selected unit).
RFQ: Request for quotation

SIZE
NX /D /K /0614T
NX /D /K /0714T
NX /D /K /0814T
NX /D /K /0914T
NX /D /K /1014T
NX /D /K /1114T
NX /D /K /1214T
NX /D /LN-K /0614T
NX /D /LN-K /0714T
NX /D /LN-K /0814T
NX /D /LN-K /0914T
NX /D /LN-K /1014T
NX /D /LN-K /1114T
NX /D /LN-K /1214T
NX /D /SL-K /0614T
NX /D /SL-K /0714T
NX /D /SL-K /0814T
NX /D /SL-K /0914T
NX /D /SL-K /1014T
NX /D /SL-K /1114T
NX /D /SL-K /1214T
NX /D /CA /0614T
NX /D /CA /0714T
NX /D /CA /0814T
NX /D /CA /0914T
NX /D /CA /1014T
NX /D /CA /1114T
NX /D /CA /1214T
NX /D /LN-CA /0614T
NX /D /LN-CA /0714T
NX /D /LN-CA /0814T
NX /D /LN-CA /0914T
NX /D /LN-CA /1014T
NX /D /LN-CA /1114T
NX /D /LN-CA /1214T
NX /D /SL-CA /0614T
NX /D /SL-CA /0714T
NX /D /SL-CA /0814T
NX /D /SL-CA /0914T
NX /D /SL-CA /1014T
NX /D /SL-CA /1114T
NX /D /SL-CA /1214T

5.2 ETHYLENE GLYCOL MIXTURE

Ethylene glycol and water mixture, used as a heat-conveying fluid, cause a variation in unit performance. For correct data, use the factors indicated in the following tabel.

	Freezing point (°C)							
	0	-5	-10	-15	-20	-25	-30	-35
	Ethylene glycol percentage by weight							
	0%	12%	20%	30%	35%	40%	45%	50%
cPf	1	0,985	0,98	0,974	0,97	0,965	0,964	0,96
cQ	1	1,02	1,04	1,075	1,11	1,14	1,17	1,2
cdp	1	1,07	1,11	1,18	1,22	1,24	1,27	1,3

cPf: cooling power correction factor
cQ: flow correction factor
cdp: pressure drop correction factor

For data concerning other kind of anti-freeze solutions (e,g, propylene glycol) please contact our Sale Department.

5.3 FOULING FACTORS

Performances are based on clean condition of tubes (fouling factor = 1). For different fouling values, performance should be adjusted using the correction factors shown in the following table.

SERIES	FOULING FACTORS	EVAPORATOR			CONDENSER/RECOVERY			DESUPERHEATER
	ff (m² °CW)	F1	FK1	KE [°C]	F2	FK2	KC [°C]	R3
VARIOUS	0	1,000	1,000	0,0	1,000	1,000	0,0	1,000
VARIOUS	$1{,}80 \times 10^{-5}$	1,000	1,000	0,0	1,000	1,000	0,0	1,000
VARIOUS	$4{,}40 \times 10^{-5}$	1,000	1,000	0,0	0,990	1,030	1,0	0,990
VARIOUS	$8{,}80 \times 10^{-5}$	0,960	0,990	0,7	0,980	1,040	1,5	0,980
VARIOUS	$13{,}20 \times 10^{-5}$	0,944	0,985	1,0	0,964	1,050	2,3	0,964
VARIOUS	$17{,}20 \times 10^{-5}$	0,930	0,980	1,5	0,950	1,060	3,0	0,950

ff: fouling factors
F1 - F2: potential correction factors
FK1 - FK2: compressor power input correction factors
R3: capacity correction factors
KE: minimum evaporator outlet temperature increase
KC: maximum condenser outlet temperature decrease

6.1 HYDRAULIC DATA

[SI System]

Water flow and pressure drop

Water flow in the plant (side) exchanger is given by:
Q=P/(4,186 x Dt)
Q: water flow (l/s)
Dt: difference between inlet and outlet water temp. (°C)
P: heat exchanger capacity (kW)

Pressure drop is given by:
Dp= K x (3,6 x Q)^2/1000
Q: water flow (l/s)
Dp: pressure drop (kPa)
K: unit size ratio

SIZE	Power supply V/ph/Hz	HEAT EXCHANGER USER SIDE					HEAT RECOVERY EX. USER SIDE			
		K	Q min l/s	Q max l/s	C.A.S. l	C.a. min l	K	Q min l/s	Q max l/s	C.A.S. l
NX /K /0614T	400/3/50	29,0	4,86	13,2	41,4	412	-	-	-	-
NX /K /0714T	400/3/50	29,0	5,75	15,5	41,4	485	-	-	-	-
NX /K /0814T	400/3/50	36,2	6,39	16,3	35,8	545	-	-	-	-
NX /K /0914T	400/3/50	24,9	7,36	18,9	39,6	621	-	-	-	-
NX /K /1014T	400/3/50	24,9	8,58	18,9	39,6	723	-	-	-	-
NX /K /1114T	400/3/50	13,5	9,17	24,6	86,0	771	-	-	-	-
NX /K /1214T	400/3/50	13,5	9,69	25,8	86,0	817	-	-	-	-
NX /D /K /0614T	400/3/50	29,0	4,86	13,2	41,4	412	315	-	2,69	1,22
NX /D /K /0714T	400/3/50	29,0	5,75	15,5	41,4	485	315	-	3,14	1,22
NX /D /K /0814T	400/3/50	36,2	6,39	16,3	35,8	545	315	-	3,78	1,22
NX /D /K /0914T	400/3/50	24,9	7,36	18,9	39,6	621	250	-	4,31	1,46
NX /D /K /1014T	400/3/50	24,9	8,58	18,9	39,6	723	250	-	4,64	1,46
NX /D /K /1114T	400/3/50	13,5	9,17	24,6	86,0	771	200	-	5,14	1,83
NX /D /K /1214T	400/3/50	13,5	9,69	25,8	86,0	817	200	-	5,67	1,83
NX /LN-K /0614T	400/3/50	29,0	4,86	13,2	41,4	412	-	-	-	-
NX /LN-K /0714T	400/3/50	29,0	5,75	15,5	41,4	485	-	-	-	-
NX /LN-K /0814T	400/3/50	36,2	6,39	16,3	35,8	545	-	-	-	-
NX /LN-K /0914T	400/3/50	24,9	7,36	18,9	39,6	621	-	-	-	-
NX /LN-K /1014T	400/3/50	24,9	8,58	18,9	39,6	723	-	-	-	-
NX /LN-K /1114T	400/3/50	13,5	9,17	24,6	86,0	771	-	-	-	-
NX /LN-K /1214T	400/3/50	13,5	9,69	25,8	86,0	817	-	-	-	-
NX /D /LN-K /0614T	400/3/50	29,0	4,86	13,2	41,4	412	315	-	2,69	1,22
NX /D /LN-K /0714T	400/3/50	29,0	5,75	15,5	41,4	485	315	-	3,14	1,22
NX /D /LN-K /0814T	400/3/50	36,2	6,39	16,3	35,8	545	315	-	3,78	1,22
NX /D /LN-K /0914T	400/3/50	24,9	7,36	18,9	39,6	621	250	-	4,31	1,46
NX /D /LN-K /1014T	400/3/50	24,9	8,58	18,9	39,6	723	250	-	4,64	1,46
NX /D /LN-K /1114T	400/3/50	13,5	9,17	24,6	86,0	771	200	-	5,14	1,83
NX /D /LN-K /1214T	400/3/50	13,5	9,69	25,8	86,0	817	200	-	5,67	1,83
NX /SL-K /0614T	400/3/50	29,0	4,86	13,2	41,4	412	-	-	-	-
NX /SL-K /0714T	400/3/50	29,0	5,75	15,5	41,4	485	-	-	-	-
NX /SL-K /0814T	400/3/50	36,2	6,39	16,3	35,8	545	-	-	-	-
NX /SL-K /0914T	400/3/50	24,9	7,36	18,9	39,6	621	-	-	-	-
NX /SL-K /1014T	400/3/50	24,9	8,58	18,9	39,6	723	-	-	-	-
NX /SL-K /1114T	400/3/50	13,5	9,17	24,6	86,0	771	-	-	-	-
NX /SL-K /1214T	400/3/50	13,5	9,69	25,8	86,0	817	-	-	-	-
NX /D /SL-K /0614T	400/3/50	29,0	4,86	13,2	41,4	412	315	-	2,69	1,22
NX /D /SL-K /0714T	400/3/50	29,0	5,75	15,5	41,4	485	315	-	3,14	1,22
NX /D /SL-K /0814T	400/3/50	36,2	6,39	16,3	35,8	545	315	-	3,78	1,22
NX /D /SL-K /0914T	400/3/50	24,9	7,36	18,9	39,6	621	250	-	4,31	1,46
NX /D /SL-K /1014T	400/3/50	24,9	8,58	18,9	39,6	723	250	-	4,64	1,46
NX /D /SL-K /1114T	400/3/50	13,5	9,17	24,6	86,0	771	200	-	5,14	1,83
NX /D /SL-K /1214T	400/3/50	13,5	9,69	25,8	86,0	817	200	-	5,67	1,83

Q min: minimum water flow admitted to the heat exchanger
Q max: maximum water flow admitted to the heat exchanger
C.a. min: minimum water content admitted in the plant
C.A.S.: Exchanger water content

HYDRAULIC DATA

[SI System]

SIZE	Power supply V/ph/Hz	HEAT EXCHANGER USER SIDE					HEAT RECOVERY EX. USER SIDE			
		K	Q min l/s	Q max l/s	C.A.S. l	C.a. min l	K	Q min l/s	Q max l/s	C.A.S. l
NX /CA /0614T	400/3/50	29,0	5,14	13,9	41,4	435	-	-	-	-
NX /CA /0714T	400/3/50	29,0	6,06	16,2	41,4	513	-	-	-	-
NX /CA /0814T	400/3/50	36,2	6,89	16,3	35,8	589	-	-	-	-
NX /CA /0914T	400/3/50	24,9	7,89	18,9	39,6	666	-	-	-	-
NX /CA /1014T	400/3/50	13,5	8,83	23,7	86,0	755	-	-	-	-
NX /CA /1114T	400/3/50	13,5	9,72	25,8	86,0	825	-	-	-	-
NX /CA /1214T	400/3/50	13,5	10,4	25,8	86,0	880	-	-	-	-
NX /D /CA /0614T	400/3/50	29,0	5,14	13,9	41,4	435	315	-	2,69	1,22
NX /D /CA /0714T	400/3/50	29,0	6,06	16,2	41,4	513	315	-	3,14	1,22
NX /D /CA /0814T	400/3/50	36,2	6,89	16,3	35,8	589	315	-	3,78	1,22
NX /D /CA /0914T	400/3/50	24,9	7,89	18,9	39,6	666	250	-	4,31	1,46
NX /D /CA /1014T	400/3/50	13,5	8,83	23,7	86,0	755	250	-	4,64	1,46
NX /D /CA /1114T	400/3/50	13,5	9,72	25,8	86,0	825	200	-	5,14	1,83
NX /D /CA /1214T	400/3/50	13,5	10,4	25,8	86,0	880	200	-	5,67	1,83
NX /LN-CA /0614T	400/3/50	29,0	5,14	13,9	41,4	435	-	-	-	-
NX /LN-CA /0714T	400/3/50	29,0	6,06	16,2	41,4	513	-	-	-	-
NX /LN-CA /0814T	400/3/50	36,2	6,89	16,3	35,8	589	-	-	-	-
NX /LN-CA /0914T	400/3/50	24,9	7,89	18,9	39,6	666	-	-	-	-
NX /LN-CA /1014T	400/3/50	13,5	8,83	23,7	86,0	755	-	-	-	-
NX /LN-CA /1114T	400/3/50	13,5	9,72	25,8	86,0	825	-	-	-	-
NX /LN-CA /1214T	400/3/50	13,5	10,4	25,8	86,0	880	-	-	-	-
NX /D /LN-CA /0614T	400/3/50	29,0	5,14	13,9	41,4	435	315	-	2,69	1,22
NX /D /LN-CA /0714T	400/3/50	29,0	6,06	16,2	41,4	513	315	-	3,14	1,22
NX /D /LN-CA /0814T	400/3/50	36,2	6,89	16,3	35,8	589	315	-	3,78	1,22
NX /D /LN-CA /0914T	400/3/50	24,9	7,89	18,9	39,6	666	250	-	4,31	1,46
NX /D /LN-CA /1014T	400/3/50	13,5	8,83	23,7	86,0	755	250	-	4,64	1,46
NX /D /LN-CA /1114T	400/3/50	13,5	9,72	25,8	86,0	825	200	-	5,14	1,83
NX /D /LN-CA /1214T	400/3/50	13,5	10,4	25,8	86,0	880	200	-	5,67	1,83
NX /SL-CA /0614T	400/3/50	29,0	5,14	13,9	41,4	435	-	-	-	-
NX /SL-CA /0714T	400/3/50	29,0	6,06	16,2	41,4	513	-	-	-	-
NX /SL-CA /0814T	400/3/50	36,2	6,89	16,3	35,8	589	-	-	-	-
NX /SL-CA /0914T	400/3/50	24,9	7,89	18,9	39,6	666	-	-	-	-
NX /SL-CA /1014T	400/3/50	13,5	8,83	23,7	86,0	755	-	-	-	-
NX /SL-CA /1114T	400/3/50	13,5	9,72	25,8	86,0	825	-	-	-	-
NX /SL-CA /1214T	400/3/50	13,5	10,4	25,8	86,0	880	-	-	-	-
NX /D /SL-CA /0614T	400/3/50	29,0	5,14	13,9	41,4	435	315	-	2,69	1,22
NX /D /SL-CA /0714T	400/3/50	29,0	6,06	16,2	41,4	513	315	-	3,14	1,22
NX /D /SL-CA /0814T	400/3/50	36,2	6,89	16,3	35,8	589	315	-	3,78	1,22
NX /D /SL-CA /0914T	400/3/50	24,9	7,89	18,9	39,6	666	250	-	4,31	1,46
NX /D /SL-CA /1014T	400/3/50	13,5	8,83	23,7	86,0	755	250	-	4,64	1,46
NX /D /SL-CA /1114T	400/3/50	13,5	9,72	25,8	86,0	825	200	-	5,14	1,83
NX /D /SL-CA /1214T	400/3/50	13,5	10,4	25,8	86,0	880	200	-	5,67	1,83

Q min: minimum water flow admitted to the heat exchanger
Q max: maximum water flow admitted to the heat exchanger
C.a. min: minimum water content admitted in the plant
C.A.S.: Exchanger water content

7.1 ELECTRICAL DATA NX / K

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0614T	400/3/50	4	4x17.2	4x29.2	4x197	2,00	4	77,0	133	301
0714T	400/3/50	4	2x17.3+2x23.8	2x30.5+2x39.8	2x160+2x215	2,00	4	90,0	157	332
0814T	400/3/50	4	4x23.8	4x39.8	4x215	2,00	4	103	176	351
0914T	400/3/50	4	2x23.8+2x30	2x39.8+2x51.2	2x215+2x260	2,00	4	116	198	407
1014T	400/3/50	4	4x30	4x51.2	4x260	2,00	4	132	229	438
1114T	400/3/50	4	2x30+2x35.3	2x51.2+2x57.9	2x260+2x320	2,00	4	143	243	505
1214T	400/3/50	4	4x35.3	4x57.9	4x320	2,00	4	153	256	518

F.L.I.: Full load power
F.L.A.: Full load current
L.R.A.: Locked rotor amperes for single compressor
S.A.: Inrush current

(1) Values calculated referring to the version with the maximum number of fans working at the max absorbed current
(1)(2) Safety values to be considered when cabling the unit for power supply and line-protections

Electrical data valid for standard units without any additional option

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

Give the typical operating conditions of units designed for outdoor installation, which can be associated (according to reference document IEC 60721) to the following classes:
- climatic conditions class 4K4H: air temperature range from -20 up to 55°C (*), relative humidity range from 4 up to 100%, with possible precipitations, at air pressure from 70 and 106 kPa and a maximum solar radiation of 1120 W/m2
- special climatic conditions negligible
- biological conditions class 4B1 and 4C2: locations in a generic urban area
- mechanically active substances class 4S2: locations in areas with sand or dust representative of urban areas
- mechanical conditions class 4M1: locations protected from significant vibrations or shocks

The required protection level for safe operation, according to reference document IEC 60529, is IP43XW (protection against access, to the most critical unit's parts, of external devices with diameter larger than 1 mm and rain).
The unit can be considered IP44XW protected, i.e. protected against access of external devices (with diameter larger than 1 mm) and water in general.

(*) for the unit's operating limits, see "selection limits" section

ELECTRICAL DATA NX / LN-K

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0614T	400/3/50	4	4x17.2	4x29.2	4x197	2,00	4	77,0	133	301
0714T	400/3/50	4	2x17.3+2x23.8	2x30.5+2x39.8	2x160+2x215	2,00	4	90,0	157	332
0814T	400/3/50	4	4x23.8	4x39.8	4x215	2,00	4	103	176	351
0914T	400/3/50	4	2x23.8+2x30	2x39.8+2x51.2	2x215+2x260	2,00	4	116	198	407
1014T	400/3/50	4	4x30	4x51.2	4x260	2,00	4	132	229	438
1114T	400/3/50	4	2x30+2x35.3	2x51.2+2x57.9	2x260+2x320	2,00	4	143	243	505
1214T	400/3/50	4	4x35.3	4x57.9	4x320	2,00	4	153	256	518

F.L.I.: Full load power
F.L.A.: Full load current
L.R.A.: Locked rotor amperes for single compressor
S.A.: Inrush current

(1) Values calculated referring to the version with the maximum number of fans working at the max absorbed current
(1)(2) Safety values to be considered when cabling the unit for power supply and line-protections

Electrical data valid for standard units without any additional option

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

Give the typical operating conditions of units designed for outdoor installation, which can be associated (according to reference document IEC 60721) to the following classes:
- climatic conditions class 4K4H: air temperature range from -20 up to 55°C (*), relative humidity range from 4 up to 100%, with possible precipitations, at air pressure from 70 and 106 kPa and a maximum solar radiation of 1120 W/m2
- special climatic conditions negligible
- biological conditions class 4B1 and 4C2: locations in a generic urban area
- mechanically active substances class 4S2: locations in areas with sand or dust representative of urban areas
- mechanical conditions class 4M1: locations protected from significant vibrations or shocks

The required protection level for safe operation, according to reference document IEC 60529, is IP43XW (protection against access, to the most critical unit's parts, of external devices with diameter larger than 1 mm and rain).
The unit can be considered IP44XW protected, i.e. protected against access of external devices (with diameter larger than 1 mm) and water in general.

(*) for the unit's operating limits, see "selection limits" section

ELECTRICAL DATA NX / SL-K

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0614T	400/3/50	4	4x17.2	4x29.2	4x197	1,20	4	74,0	133	301
0714T	400/3/50	4	2x17.3+2x23.8	2x30.5+2x39.8	2x160+2x215	1,20	4	87,0	157	332
0814T	400/3/50	4	4x23.8	4x39.8	4x215	1,20	4	102	184	359
0914T	400/3/50	4	2x23.8+2x30	2x39.8+2x51.2	2x215+2x260	1,20	4	115	207	415
1014T	400/3/50	4	4x30	4x51.2	4x260	1,20	4	127	229	438
1114T	400/3/50	4	2x30+2x35.3	2x51.2+2x57.9	2x260+2x320	1,20	4	140	251	513
1214T	400/3/50	4	4x35.3	4x57.9	4x320	1,20	4	151	264	527

F.L.I.: Full load power
F.L.A.: Full load current
L.R.A.: Locked rotor amperes for single compressor
S.A.: Inrush current

(1) Values calculated referring to the version with the maximum number of fans working at the max absorbed current
(1)(2) Safety values to be considered when cabling the unit for power supply and line-protections

Electrical data valid for standard units without any additional option

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

Give the typical operating conditions of units designed for outdoor installation, which can be associated (according to reference document IEC 60721) to the following classes:
- climatic conditions class 4K4H: air temperature range from -20 up to 55°C (*), relative humidity range from 4 up to 100%, with possible precipitations, at air pressure from 70 and 106 kPa and a maximum solar radiation of 1120 W/m2
- special climatic conditions negligible
- biological conditions class 4B1 and 4C2: locations in a generic urban area
- mechanically active substances class 4S2: locations in areas with sand or dust representative of urban areas
- mechanical conditions class 4M1: locations protected from significant vibrations or shocks

The required protection level for safe operation, according to reference document IEC 60529, is IP43XW (protection against access, to the most critical unit's parts, of external devices with diameter larger than 1 mm and rain).
The unit can be considered IP44XW protected, i.e. protected against access of external devices (with diameter larger than 1 mm) and water in general.

(*) for the unit's operating limits, see "selection limits" section

ELECTRICAL DATA NX / CA

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0614T	400/3/50	4	4x17.2	4x29.2	4x197	2,00	4	77,0	133	301
0714T	400/3/50	4	2x17.3+2x23.8	2x30.5+2x39.8	2x160+2x215	2,00	4	94,0	165	340
0814T	400/3/50	4	4x23.8	4x39.8	4x215	2,00	4	107	184	359
0914T	400/3/50	4	2x23.8+2x30	2x39.8+2x51.2	2x215+2x260	2,00	4	120	207	415
1014T	400/3/50	4	4x30	4x51.2	4x260	2,00	4	132	229	438
1114T	400/3/50	4	2x30+2x35.3	2x51.2+2x57.9	2x260+2x320	2,00	4	147	251	513
1214T	400/3/50	4	4x35.3	4x57.9	4x320	2,00	4	157	264	527

F.L.I.: Full load power
F.L.A.: Full load current
L.R.A.: Locked rotor amperes for single compressor
S.A.: Inrush current

(1) Values calculated referring to the version with the maximum number of fans working at the max absorbed current
(1)(2) Safety values to be considered when cabling the unit for power supply and line-protections

Electrical data valid for standard units without any additional option

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

Give the typical operating conditions of units designed for outdoor installation, which can be associated (according to reference document IEC 60721) to the following classes:
- climatic conditions class 4K4H: air temperature range from -20 up to 55°C (*), relative humidity range from 4 up to 100%, with possible precipitations, at air pressure from 70 and 106 kPa and a maximum solar radiation of 1120 W/m2
- special climatic conditions negligible
- biological conditions class 4B1 and 4C2: locations in a generic urban area
- mechanically active substances class 4S2: locations in areas with sand or dust representative of urban areas
- mechanical conditions class 4M1: locations protected from significant vibrations or shocks

The required protection level for safe operation, according to reference document IEC 60529, is IP43XW (protection against access, to the most critical unit's parts, of external devices with diameter larger than 1 mm and rain).
The unit can be considered IP44XW protected, i.e. protected against access of external devices (with diameter larger than 1 mm) and water in general.

(*) for the unit's operating limits, see "selection limits" section

ELECTRICAL DATA NX / LN-CA

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0614T	400/3/50	4	4x17.2	4x29.2	4x197	0,93	2	73,0	126	294
0714T	400/3/50	4	2x17.3+2x23.8	2x30.5+2x39.8	2x160+2x215	0,93	2	88,0	154	330
0814T	400/3/50	4	4x23.8	4x39.8	4x215	0,93	2	101	173	348
0914T	400/3/50	4	2x23.8+2x30	2x39.8+2x51.2	2x215+2x260	0,93	2	113	196	405
1014T	400/3/50	4	4x30	4x51.2	4x260	0,93	2	127	223	432
1114T	400/3/50	4	2x30+2x35.3	2x51.2+2x57.9	2x260+2x320	0,93	2	138	237	499
1214T	400/3/50	4	4x35.3	4x57.9	4x320	0,93	2	149	250	512

F.L.I.: Full load power
F.L.A.: Full load current
L.R.A.: Locked rotor amperes for single compressor
S.A.: Inrush current

(1) Values calculated referring to the version with the maximum number of fans working at the max absorbed current
(1)(2) Safety values to be considered when cabling the unit for power supply and line-protections

Electrical data valid for standard units without any additional option

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

Give the typical operating conditions of units designed for outdoor installation, which can be associated (according to reference document IEC 60721) to the following classes:
- climatic conditions class 4K4H: air temperature range from -20 up to 55°C (*), relative humidity range from 4 up to 100%, with possible precipitations, at air pressure from 70 and 106 kPa and a maximum solar radiation of 1120 W/m2
- special climatic conditions negligible
- biological conditions class 4B1 and 4C2: locations in a generic urban area
- mechanically active substances class 4S2: locations in areas with sand or dust representative of urban areas
- mechanical conditions class 4M1: locations protected from significant vibrations or shocks

The required protection level for safe operation, according to reference document IEC 60529, is IP43XW (protection against access, to the most critical unit's parts, of external devices with diameter larger than 1 mm and rain).
The unit can be considered IP44XW protected, i.e. protected against access of external devices (with diameter larger than 1 mm) and water in general.

(*) for the unit's operating limits, see "selection limits" section

ELECTRICAL DATA NX / SL-CA

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0614T	400/3/50	4	4x17.2	4x29.2	4x197	0,93	2	74,0	131	298
0714T	400/3/50	4	2x17.3+2x23.8	2x30.5+2x39.8	2x160+2x215	0,93	2	88,0	154	330
0814T	400/3/50	4	4x23.8	4x39.8	4x215	0,93	2	103	178	353
0914T	400/3/50	4	2x23.8+2x30	2x39.8+2x51.2	2x215+2x260	0,93	2	115	200	409
1014T	400/3/50	4	4x30	4x51.2	4x260	0,93	2	127	223	432
1114T	400/3/50	4	2x30+2x35.3	2x51.2+2x57.9	2x260+2x320	0,93	2	138	237	499
1214T	400/3/50	4	4x35.3	4x57.9	4x320	0,93	2	149	250	512

F.L.I.: Full load power
F.L.A.: Full load current
L.R.A.: Locked rotor amperes for single compressor
S.A.: Inrush current

(1) Values calculated referring to the version with the maximum number of fans working at the max absorbed current
(1)(2) Safety values to be considered when cabling the unit for power supply and line-protections

Electrical data valid for standard units without any additional option

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

Give the typical operating conditions of units designed for outdoor installation, which can be associated (according to reference document IEC 60721) to the following classes:
- climatic conditions class 4K4H: air temperature range from -20 up to 55°C (*), relative humidity range from 4 up to 100%, with possible precipitations, at air pressure from 70 and 106 kPa and a maximum solar radiation of 1120 W/m2
- special climatic conditions negligible
- biological conditions class 4B1 and 4C2: locations in a generic urban area
- mechanically active substances class 4S2: locations in areas with sand or dust representative of urban areas
- mechanical conditions class 4M1: locations protected from significant vibrations or shocks

The required protection level for safe operation, according to reference document IEC 60529, is IP43XW (protection against access, to the most critical unit's parts, of external devices with diameter larger than 1 mm and rain).
The unit can be considered IP44XW protected, i.e. protected against access of external devices (with diameter larger than 1 mm) and water in general.

(*) for the unit's operating limits, see "selection limits" section

8.1 FULL LOAD SOUND LEVEL NX / K

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0614T	96	94	93	90	87	82	77	72	**92**
0714T	96	94	93	90	87	82	77	72	**92**
0814T	97	95	94	91	88	83	78	73	**93**
0914T	98	96	95	92	89	84	79	74	**94**
1014T	99	97	96	93	90	85	80	75	**95**
1114T	99	97	96	93	90	85	80	75	**95**
1214T	99	97	96	93	90	85	80	75	**95**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Sound power on the basis of measurements made in compliance with ISO 9614.

Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.

Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0614T	64	62	61	58	55	50	45	40	**60**
0714T	64	62	61	58	55	50	45	40	**60**
0814T	65	63	62	59	56	51	46	41	**61**
0914T	66	64	63	60	57	52	47	42	**62**
1014T	67	65	64	61	58	53	48	43	**63**
1114T	67	65	64	61	58	53	48	43	**63**
1214T	67	65	64	61	58	53	48	43	**63**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

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.

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0614T	89	86	85	84	82	76	71	66	**86**
0714T	89	86	85	84	82	76	71	66	**86**
0814T	90	87	86	85	83	77	72	67	**87**
0914T	91	88	87	86	84	78	73	68	**88**
1014T	92	89	88	87	85	79	74	69	**89**
1114T	92	89	88	87	85	79	74	69	**89**
1214T	93	90	89	88	86	80	75	70	**90**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Sound power on the basis of measurements made in compliance with ISO 9614.

Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.

Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0614T	57	54	53	52	50	44	39	34	**54**
0714T	57	54	53	52	50	44	39	34	**54**
0814T	58	55	54	53	51	45	40	35	**55**
0914T	59	56	55	54	52	46	41	36	**56**
1014T	60	57	56	55	53	47	42	37	**57**
1114T	60	57	56	55	53	47	42	37	**57**
1214T	61	58	57	56	54	48	43	38	**58**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

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.

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0614T	85	83	82	81	76	71	67	62	**82**
0714T	86	84	83	82	77	72	68	63	**83**
0814T	86	84	83	82	77	72	68	63	**83**
0914T	87	85	84	83	78	73	69	64	**84**
1014T	87	85	84	83	78	73	69	64	**84**
1114T	89	87	86	85	80	75	71	66	**86**
1214T	89	87	86	85	80	75	71	66	**86**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Sound power on the basis of measurements made in compliance with ISO 9614.

Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.

Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0614T	53	51	50	49	44	39	35	30	**50**
0714T	54	52	51	50	45	40	36	31	**51**
0814T	54	52	51	50	45	40	36	31	**51**
0914T	55	53	52	51	46	41	37	32	**52**
1014T	55	53	52	51	46	41	37	32	**52**
1114T	57	55	54	53	48	43	39	34	**54**
1214T	57	55	54	53	48	43	39	34	**54**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

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.

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0614T	96	94	93	90	87	82	77	72	**92**
0714T	97	95	94	91	88	83	78	73	**93**
0814T	98	96	95	92	89	84	79	74	**94**
0914T	99	97	96	93	90	85	80	75	**95**
1014T	99	97	96	93	90	85	80	75	**95**
1114T	100	98	97	94	91	86	81	76	**96**
1214T	101	99	98	95	92	87	82	77	**97**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Sound power on the basis of measurements made in compliance with ISO 9614.

Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.

Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0614T	64	62	61	58	55	50	45	40	**60**
0714T	65	63	62	59	56	51	46	41	**61**
0814T	66	64	63	60	57	52	47	42	**62**
0914T	67	65	64	61	58	53	48	43	**63**
1014T	67	65	64	61	58	53	48	43	**63**
1114T	68	66	65	62	59	54	49	44	**64**
1214T	69	67	66	63	60	55	50	45	**65**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

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.

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0614T	89	86	85	84	82	76	71	66	**86**
0714T	90	87	86	85	83	77	72	67	**87**
0814T	91	88	87	86	84	78	73	68	**88**
0914T	92	89	88	87	85	79	74	69	**89**
1014T	93	90	89	88	86	80	75	70	**90**
1114T	94	91	90	89	87	81	76	71	**91**
1214T	94	91	90	89	87	81	76	71	**91**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Sound power on the basis of measurements made in compliance with ISO 9614.

Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.

Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0614T	57	54	53	52	50	44	39	34	**54**
0714T	58	55	54	53	51	45	40	35	**55**
0814T	59	56	55	54	52	46	41	36	**56**
0914T	60	57	56	55	53	47	42	37	**57**
1014T	61	58	57	56	54	48	43	38	**58**
1114T	62	59	58	57	55	49	44	39	**59**
1214T	62	59	58	57	55	49	44	39	**59**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

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.

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0614T	86	84	83	82	77	72	68	63	**83**
0714T	86	84	83	82	77	72	68	63	**83**
0814T	87	85	84	83	78	73	69	64	**84**
0914T	88	86	85	84	79	74	70	65	**85**
1014T	89	87	86	85	80	75	71	66	**86**
1114T	90	88	87	86	81	76	72	67	**87**
1214T	90	88	87	86	81	76	72	67	**87**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

Sound power on the basis of measurements made in compliance with ISO 9614.

Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.

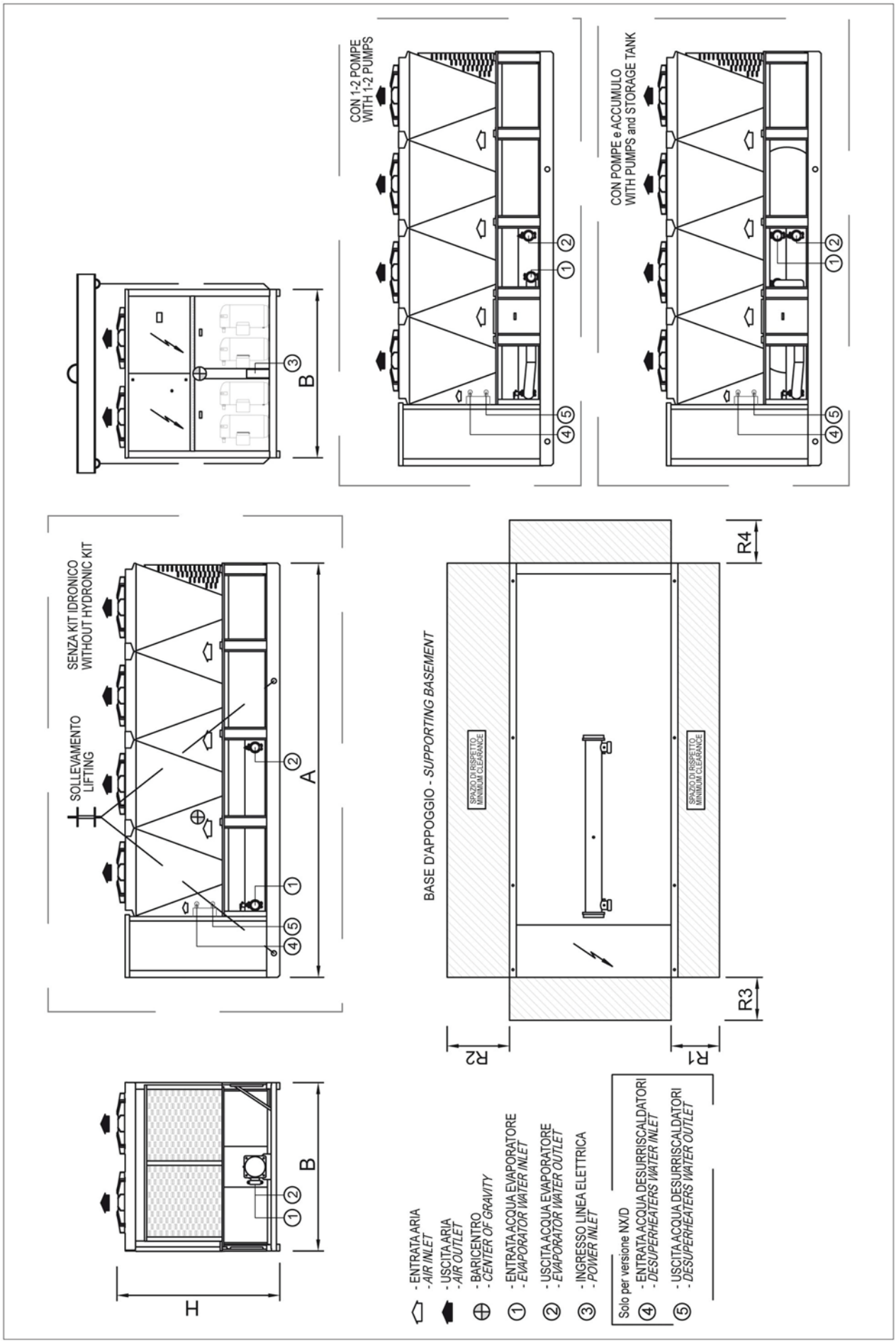
Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0614T	54	52	51	50	45	40	36	31	**51**
0714T	54	52	51	50	45	40	36	31	**51**
0814T	55	53	52	51	46	41	37	32	**52**
0914T	56	54	53	52	47	42	38	33	**53**
1014T	57	55	54	53	48	43	39	34	**54**
1114T	58	56	55	54	49	44	40	35	**55**
1214T	58	56	55	54	49	44	40	35	**55**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.

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.



"REMARKS:
For installation purposes, please refer to the documentation sent after the purchase-contract. This technical data should be considered as indicative. CLIMAVENETA may modify them at any moment."

DIMENSIONAL DRAWINGS

NX 0614T - 1214T

[SI System]

SIZE	DIMENSIONS AND WEIGHTS				CLEARANCE				HEAT EXCHANGER USER SIDE		HEAT RECOVERY EX. USER SIDE	
	A	B	H	VEIGH	R1	R2	R3	R4	IN/OUT		IN/OUT	
	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	TYPE	Ø	TYPE	Ø
NX /K /0614T	3160	2250	2170	1650	1500	2300	1500	1500	F	3"	-	-
NX /K /0714T	3160	2250	2170	1810	1500	2300	1500	1500	F	3"	-	-
NX /K /0814T	3160	2250	2170	1820	1500	2300	1500	1500	F	3"	-	-
NX /K /0914T	3160	2250	2170	1950	1500	2300	1500	1500	F	3"	-	-
NX /K /1014T	4335	2250	2170	2340	1500	2300	1500	1500	F	3"	-	-
NX /K /1114T	4335	2250	2170	2530	1500	2300	1500	1500	F	4"	-	-
NX /K /1214T	4335	2250	2170	2550	1500	2300	1500	1500	F	4"	-	-
NX /D /K /0614T	3160	2250	2170	1650	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /K /0714T	3160	2250	2170	1810	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /K /0814T	3160	2250	2170	1820	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /K /0914T	3160	2250	2170	1950	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /K /1014T	4335	2250	2170	2340	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /K /1114T	4335	2250	2170	2530	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /D /K /1214T	4335	2250	2170	2550	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /LN-K /0614T	3160	2250	2170	1700	1500	2300	1500	1500	F	3"	-	-
NX /LN-K /0714T	3160	2250	2170	1860	1500	2300	1500	1500	F	3"	-	-
NX /LN-K /0814T	3160	2250	2170	1870	1500	2300	1500	1500	F	3"	-	-
NX /LN-K /0914T	3160	2250	2170	1990	1500	2300	1500	1500	F	3"	-	-
NX /LN-K /1014T	4335	2250	2170	2380	1500	2300	1500	1500	F	3"	-	-
NX /LN-K /1114T	4335	2250	2170	2580	1500	2300	1500	1500	F	4"	-	-
NX /LN-K /1214T	4335	2250	2170	2600	1500	2300	1500	1500	F	4"	-	-
NX /D /LN-K /0614T	3160	2250	2170	1700	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /LN-K /0714T	3160	2250	2170	1860	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /LN-K /0814T	3160	2250	2170	1870	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /LN-K /0914T	3160	2250	2170	1990	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /LN-K /1014T	4335	2250	2170	2380	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /LN-K /1114T	4335	2250	2170	2580	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /D /LN-K /1214T	4335	2250	2170	2600	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /SL-K /0614T	3160	2250	2170	1700	1500	2300	1500	1500	F	3"	-	-
NX /SL-K /0714T	3160	2250	2170	1860	1500	2300	1500	1500	F	3"	-	-
NX /SL-K /0814T	4335	2250	2170	2160	1500	2300	1500	1500	F	3"	-	-
NX /SL-K /0914T	4335	2250	2170	2290	1500	2300	1500	1500	F	3"	-	-
NX /SL-K /1014T	4335	2250	2170	2380	1500	2300	1500	1500	F	3"	-	-
NX /SL-K /1114T	5510	2250	2170	2930	1500	2300	1500	1500	F	4"	-	-
NX /SL-K /1214T	5510	2250	2170	2950	1500	2300	1500	1500	F	4"	-	-
NX /D /SL-K /0614T	3160	2250	2170	1700	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /SL-K /0714T	3160	2250	2170	1860	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /SL-K /0814T	4335	2250	2170	2160	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /SL-K /0914T	4335	2250	2170	2290	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /SL-K /1014T	4335	2250	2170	2380	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /SL-K /1114T	5510	2250	2170	2930	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /D /SL-K /1214T	5510	2250	2170	2950	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /CA /0614T	3160	2250	2170	1700	1500	2300	1500	1500	F	3"	-	-
NX /CA /0714T	4335	2250	2170	2150	1500	2300	1500	1500	F	3"	-	-
NX /CA /0814T	4335	2250	2170	2160	1500	2300	1500	1500	F	3"	-	-
NX /CA /0914T	4335	2250	2170	2290	1500	2300	1500	1500	F	3"	-	-
NX /CA /1014T	4335	2250	2170	2550	1500	2300	1500	1500	F	4"	-	-
NX /CA /1114T	5510	2250	2170	2930	1500	2300	1500	1500	F	4"	-	-
NX /CA /1214T	5510	2250	2170	2950	1500	2300	1500	1500	F	4"	-	-
NX /D /CA /0614T	3160	2250	2170	1700	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /CA /0714T	4335	2250	2170	2150	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /CA /0814T	4335	2250	2170	2160	1500	2300	1500	1500	F	3"	F	1" 1/2

DIMENSIONAL DRAWINGS

NX 0614T - 1214T

[SI System]

SIZE	DIMENSIONS AND WEIGHTS				CLEARANCE				HEAT EXCHANGER USER SIDE		HEAT RECOVERY EX. USER SIDE	
	A	B	H	VEIGHT	R1	R2	R3	R4	IN/OUT		IN/OUT	
	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	TYPE	Ø	TYPE	Ø
NX /D /CA /0914T	4335	2250	2170	2290	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /CA /1014T	4335	2250	2170	2550	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /D /CA /1114T	5510	2250	2170	2930	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /D /CA /1214T	5510	2250	2170	2950	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /LN-CA /0614T	3160	2250	2170	1700	1500	2300	1500	1500	F	3"	-	-
NX /LN-CA /0714T	4335	2250	2170	2150	1500	2300	1500	1500	F	3"	-	-
NX /LN-CA /0814T	4335	2250	2170	2160	1500	2300	1500	1500	F	3"	-	-
NX /LN-CA /0914T	4335	2250	2170	2290	1500	2300	1500	1500	F	3"	-	-
NX /LN-CA /1014T	5510	2250	2170	2880	1500	2300	1500	1500	F	4"	-	-
NX /LN-CA /1114T	5510	2250	2170	2900	1500	2300	1500	1500	F	4"	-	-
NX /LN-CA /1214T	5510	2250	2170	2930	1500	2300	1500	1500	F	4"	-	-
NX /D /LN-CA /0614T	3160	2250	2170	1700	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /LN-CA /0714T	4335	2250	2170	2150	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /LN-CA /0814T	4335	2250	2170	2160	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /LN-CA /0914T	4335	2250	2170	2290	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /LN-CA /1014T	5510	2250	2170	2880	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /D /LN-CA /1114T	5510	2250	2170	2900	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /D /LN-CA /1214T	5510	2250	2170	2930	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /SL-CA /0614T	4335	2250	2170	1980	1500	2300	1500	1500	F	3"	-	-
NX /SL-CA /0714T	4335	2250	2170	2150	1500	2300	1500	1500	F	3"	-	-
NX /SL-CA /0814T	5510	2250	2170	2490	1500	2300	1500	1500	F	3"	-	-
NX /SL-CA /0914T	5510	2250	2170	2610	1500	2300	1500	1500	F	3"	-	-
NX /SL-CA /1014T	5510	2250	2170	2880	1500	2300	1500	1500	F	4"	-	-
NX /SL-CA /1114T	5510	2250	2170	2900	1500	2300	1500	1500	F	4"	-	-
NX /SL-CA /1214T	5510	2250	2170	2930	1500	2300	1500	1500	F	4"	-	-
NX /D /SL-CA /0614T	4335	2250	2170	1980	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /SL-CA /0714T	4335	2250	2170	2150	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /SL-CA /0814T	5510	2250	2170	2490	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /SL-CA /0914T	5510	2250	2170	2610	1500	2300	1500	1500	F	3"	F	1" 1/2
NX /D /SL-CA /1014T	5510	2250	2170	2880	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /D /SL-CA /1114T	5510	2250	2170	2900	1500	2300	1500	1500	F	4"	F	1" 1/2
NX /D /SL-CA /1214T	5510	2250	2170	2930	1500	2300	1500	1500	F	4"	F	1" 1/2

LEGEND OF PIPE CONNECTIONS

TYPE = F
Grooved coupling
with male threaded
counter-pipe user side

LEGEND OF PIPE CONNECTIONS

UNI ISO 228/1

Pipe threads where pressure-tight joints are not made on the threads - Designation, dimensions and tolerances

Used terminology:

G: Pipe threads where pressure-tight joints are not made on the threads
A: Close tolerance class for external pipe threads where pressure-tight joints are not made on the threads
B: Wider tolerance class for external pipe threads where pressure-tight joints are not made on the threads
Internal threads: G letter followed by thread mark (only tolerance class)
External threads: G letter followed by thread mark and by A letter for A class external threads or by B letter for B class external threads.

UNI EN 10226-1

Pipe threads where pressure-tight joints are made on the threads - Designation, dimensions and tolerances

Used terminology:

Rp: Internal cylindrical threads where pressure-tight joints are made on the threads
Rc: Internal conical threads where pressure-tight joints are made on the threads
R: External conical threads where pressure-tight joints are made on the threads
Internal cylindrical threads: R letter followed by p letter
Internal conical threads: R letter followed by c letter
External conical threads: R letter

Designation	Description
UNI EN 10226-1 - Rp 1 1/2	Internal cylindrical threads where pressure-tight joints are made on the threads, defined by standard UNI ISO 7/1 Conventional ø 1 1/2”
UNI EN 10226-1 - Rp 2 1/2	Internal cylindrical threads where pressure-tight joints are made on the threads, defined by standard UNI ISO 7/1 Conventional ø 2 1/2”
UNI EN 10226-1 - Rp 3	Internal cylindrical threads where pressure-tight joints are made on the threads, defined by standard UNI ISO 7/1 Conventional ø 3”
UNI EN 10226-1 - R 3	External conical threads where pressure-tight joints are made on the threads, defined by standard UNI ISO 7/1 Conventional ø 3”
UNI ISO 228/1 - G 4 B	Internal cylindrical threads where pressure-tight joints are not made on the threads, defined by standard UNI ISO 228/1 Tolerance class B for external thread Conventional ø 4”
DN 80 PN 16	Flange Nominal Diameter: 80 mm Nominal Pressure: 16 bar

Notes:

Conventional diameter value [in inches] identifies short thread designation, based upon the relative standard.
All relative values are defined by standards.
As example, here below some values:

	UNI EN 10226-1	UNI ISO 228/1
Conventional ø	1"	1"
Pitch	2.309 mm	2.309 mm
External ø	33.249 mm	33.249 mm
Core ø	30.291 mm	30.291 mm
Thread height	1.479 mm	1.479 mm

10.1 HYDRONIC GROUP

The hydronic group consisting of:
- 1 or 2 pumps, 2 poles, low or high head
- 10 mm insulation lining on pumps and pipes
- pump inlet / oulet valves
- check valves (only for twin end-suction pumps)
- drain valve
- air vent

Each of the components of the hydraulic group has been designed to optimise hydraulic and electrical installation space,
time and costs.
The hydronic group is protected by a special casing ventilating (versions LN and SL).
In case of twin pump version, the second pump operates in stand-by to the first. The relative operating hours of the two pumps are balanced. In case the operating
pump breaks down, the reserve pump is automatically enabled.
The electrical panel of the unit is protected with fuses and contactors with thermals cut-out.
The hydronic kit of this family includes in-line pumps.

10.2 IN-LINE PUMP SPECIFICATION

Low or high head pump
Centrifugal pumps with in-line suction and delivery flanges, in single or twin versions. Pump body in cast iron and impeller in AISI 316L stainless steel or cast-iron, entirely laser technology welded. Mechanical seal with components in ceramics, carbon and EPDM elastomers. Three-phase electric motor protected to IP55, insulation class F, suitable for continuous service.

10.3 BUFFER TANK

The buffer tank system features:
- buffer tank, which capacity depends on the unit size (see the dedicated table)
- 20 mm insulation lining on buffer tank
- expansion vessel (EPDM membrane), with 2,5 bar pre-charge
- safety valve calibrated to 5 bars (Longitudinal-V shaped units) or 6 bars (Horizontal V-shaped units)
- pressure gauge
- filling valve
- drain valve
- air vent

10.4 SPECIAL PUMPS

For pumps with different configurations, please contact our sales department.

10.5 OTHER COMPONENTS

The hydronic kits do not include the following accessories though these are recommended to ensure correct system operation:
- Flow-out switch
- Pressure gauges upline and downline from the unit
- Flexible joints on piping
- On-off valves
- Outlet control thermometer
- Mains filter.

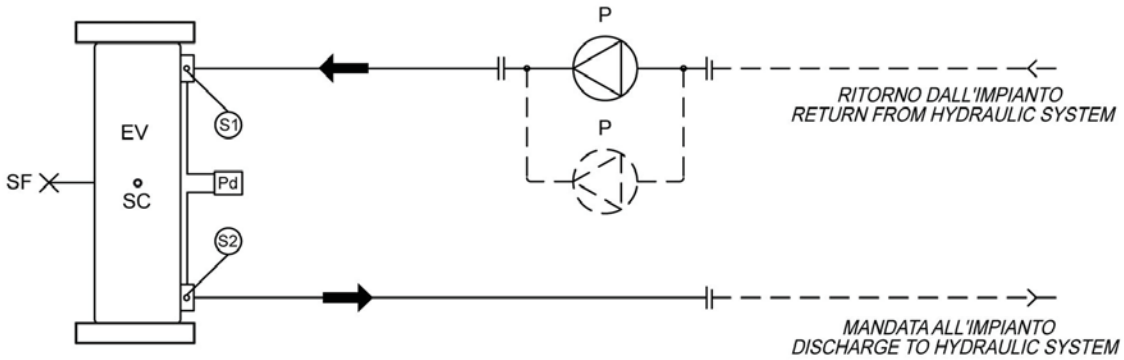
Possible configuration

PUMPS GROUP	Versions					
	CA	K	LN-CA	LN-K	SL-CA	SL-K
KIT IDRONICO - 1 POMPA 2P BP + ACC(3152)	X	X	X	X	X	X
KIT IDRONICO - 1 POMPA 2P AP + ACC(3153)	X	X	X	X	X	X
KIT IDRONICO - 2 POMPE 2P BP + ACC(3155)	X	X	X	X	X	X
KIT IDRONICO - 2 POMPE 2P AP + ACC(3156)	X	X	X	X	X	X
KIT IDRONICO - 1 POMPA 2P BP(3164)	X	X	X	X	X	X
KIT IDRONICO - 1 POMPA 2P AP(3165)	X	X	X	X	X	X
KIT IDRONICO - 2 POMPE 2P BP(3167)	X	X	X	X	X	X
KIT IDRONICO - 2 POMPE 2P AP(3168)	X	X	X	X	X	X

Storage tank combinations

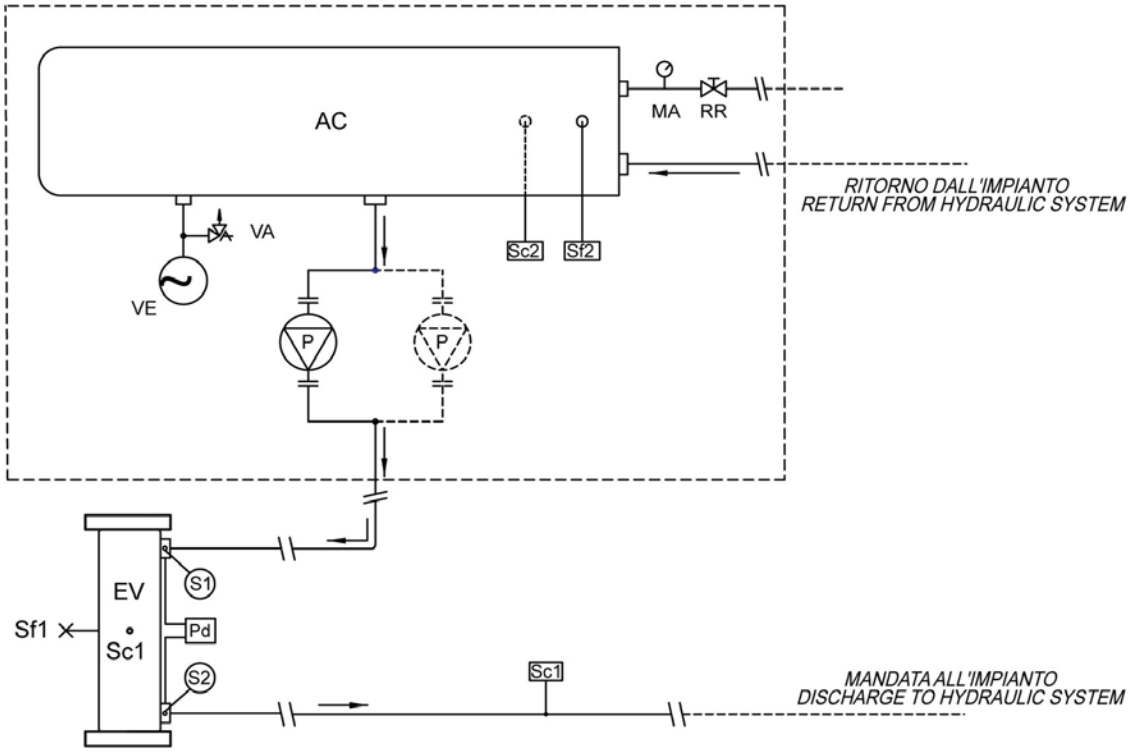
	Version	ACCUMULATION Capacity [l]
0614T	CA	500
	K	
	LN-CA	
	LN-K	
	SL-K	
	SL-CA	700
0714T	CA	700
	LN-CA	
	SL-CA	
	K	500
	LN-K	
	SL-K	
0814T	CA	700
	LN-CA	
	SL-CA	
	SL-K	
	K	500
	LN-K	
0914T	CA	700
	LN-CA	
	SL-CA	
	SL-K	
	K	500
	LN-K	
1014T	CA	700
	K	
	LN-CA	
	LN-K	
	SL-CA	
	SL-K	
1114T	CA	700
	K	
	LN-CA	
	LN-K	
	SL-CA	
	SL-K	
1214T	CA	700
	K	
	LN-CA	
	LN-K	
	SL-CA	
	SL-K	

Schema idraulico gruppo idronico
Hydraulic diagram



LEGENDA - LEGEND	
CONPONENTI DEL KIT IDRONICO *COMPONENTS OF THE HYDRONIC KIT*	
EV	Evaporatore Evaporator
P	Pompa Water pump
Pd	Pressostato differenziale lato acqua Water Differential pressure switch
SC	Valvola di scarico Drain valve
SF	Valvola di sfiato Purge valve
S1	Sonda ingresso acqua scambiatore Exchanger water inlet probe
S2	Sonda uscita acqua scambiatore Exchanger water outlet probe

Schema idraulico gruppo idronico con accumulo
Hydraulic diagram with water tank



LEGENDA - LEGEND	
AC	Accumulo Water tank
EV	Evaporatore Evaporator
MA	Manometro Water pressure gauge
P	Pompa Water pump
Pd	Pressostato differenziale Differential pressure switch
RR	Rubinetto reintegro Filling valve
S1	Sonda ingresso acqua evaporatori/condensatori Evaporators/Condensers water inlet probe
S2	Sonda uscita acqua evaporatori/condensatori Evaporators/Condensers water outlet probe
Sc1	Scarico Evaporatore/Condensatore Evaporator/Condenser drain valve
Sc2	Scarico acqua accumulo Water tank drain valve
Sf1	Sfiato Evaporatore/Condensatore Evaporator/Condenser breather valve
Sf2	Sfiato accumulo Tank breather valve
VA	Valvola di sicurezza Safety valve
VE	Vaso di espansione Expansion tank

HYDRONIC GROUP

Hydronic kit positioning

	Version	KIT IDRONICO - 1 POMPA 2P BP + ACC (3152)				KIT IDRONICO - 1 POMPA 2P AP + ACC (3153)				KIT IDRONICO - 2 POMPE 2P BP + ACC (3155)				KIT IDRONICO - 2 POMPE 2P AP + ACC (3156)			
		extra L [mm]	**extra W [mm]**	**extra H [mm]**	extra wgt [kg]	**extra L [mm]**	**extra W [mm]**	**extra H [mm]**	extra wgt [kg]	**extra L [mm]**	**extra W [mm]**	**extra H [mm]**	extra wgt [kg]	**extra L [mm]**	**extra W [mm]**	**extra H [mm]**	extra wgt [kg]
0614T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0714T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0814T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0914T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1014T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1114T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1214T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

extra L Unit's extra length
extra W Unit's extra operating width (NOT to be considered for transport)
extra H Unit's extra height
extra wgt Unit's extra weight (pumps and piping)
KIT IDRONICO - 1 POMPA 2P BP + ACC HYDRONIC KIT 1 PUMP 2 POLES LH + TANK
KIT IDRONICO - 1 POMPA 2P AP + ACC HYDRONIC KIT 1 PUMP 2 POLES HH + TANK
KIT IDRONICO - 2 POMPE 2P BP + ACC HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK
KIT IDRONICO - 2 POMPE 2P AP + ACC HYDRONIC KIT 2 PUMPS 2 POLES HH + TANK
- Unavailable

HYDRONIC GROUP

Hydronic kit positioning

	Version	KIT IDRONICO - 1 POMPA 2P BP (3164)				KIT IDRONICO - 1 POMPA 2P AP (3165)				KIT IDRONICO - 2 POMPE 2P BP (3167)				KIT IDRONICO - 2 POMPE 2P AP (3168)			
		extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]
0614T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0714T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0814T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0914T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1014T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1114T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1214T	CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	LN-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-CA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	SL-K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

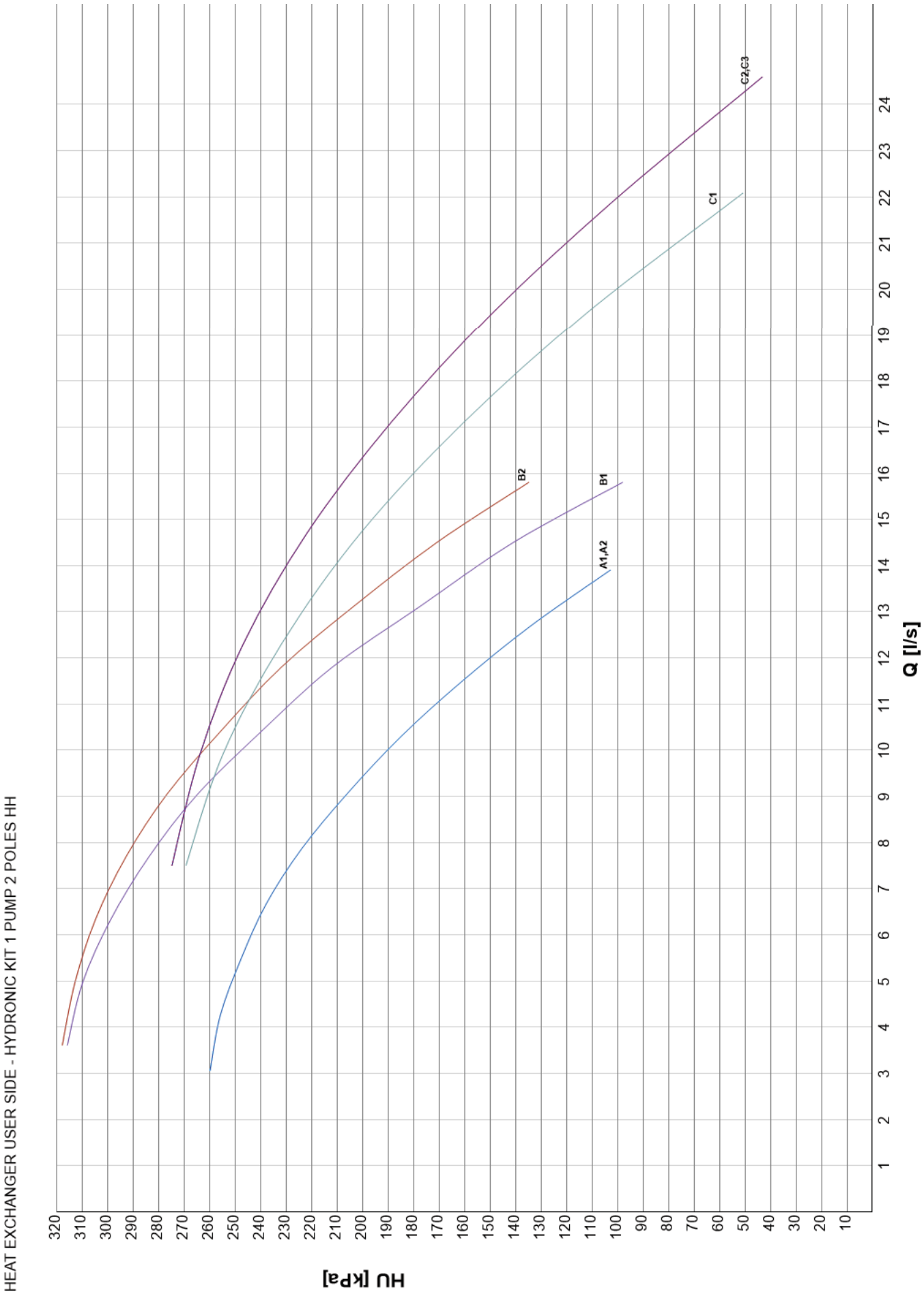
extra L Unit's extra length
extra W Unit's extra operating width (NOT to be considered for transport)
extra H Unit's extra height
extra wgt Unit's extra weight (pumps and piping)
KIT IDRONICO - 1 POMPA 2P BP HYDRONIC KIT 1 PUMP 2 POLES LH
KIT IDRONICO - 1 POMPA 2P AP HYDRONIC KIT 1 PUMP 2 POLES HH
KIT IDRONICO - 2 POMPE 2P BP HYDRONIC KIT 2 PUMPS 2 POLES LH
KIT IDRONICO - 2 POMPE 2P AP HYDRONIC KIT 2 PUMPS 2 POLES HH
- Unavailable

HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES HH

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0614T	CA	174	8,33	A1	LNEE 50-160/40/2	2	8	4,00	217
	K	165	7,87						223
	LN-CA	168	8,01						222
	LN-K	160	7,64						226
	SL-CA	167	8,00						222
	SL-K	159	7,60						227
0714T	CA	205	9,81	A2					194
	K	194	9,28						203
	LN-CA	198	9,49						199
	LN-K	185	8,87						209
	SL-CA	195	9,32						202
	SL-K	180	8,60						213
0814T	CA	235	11,3	B1	LNEE 50-160/55/2	2	11	5,50	223
	K	218	10,4						240
	LN-CA	227	10,9						231
	LN-K	208	9,96						249
	SL-CA	224	10,7						234
	SL-K	214	10,2						243
0914T	CA	266	12,7	B2					212
	K	248	11,9						230
	LN-CA	262	12,5						216
	LN-K	235	11,2						242
	SL-CA	259	12,4						219
	SL-K	241	11,5						236
1014T	CA	302	14,4	C1	LNEE 65-125/75/2	2	14	7,50	220
	K	289	13,8						199
	LN-CA	295	14,1						224
	LN-K	274	13,1						210
	SL-CA	292	14,0						226
	SL-K	264	12,6						217
1114T	CA	330	15,8	C2					208
	K	308	14,7						221
	LN-CA	318	15,2						216
	LN-K	290	13,9						231
	SL-CA	317	15,1						216
	SL-K	296	14,2						228
1214T	CA	352	16,8	C3					193
	K	327	15,6						210
	LN-CA	344	16,5						199
	LN-K	320	15,3						214
	SL-CA	344	16,4						199
	SL-K	312	14,9						219

(1) Values refer to nominal conditions
CH Cooling mode
Pf Cooling capacity unit (Cooling mode)
Pt Heating capacity unit (Heating mode)
Q Plant (side) exchanger water flow
F.L.I. Pump power input
F.L.A. Pump running current
HU Pump residual pressure head (Units with hydronic group without mains filter)

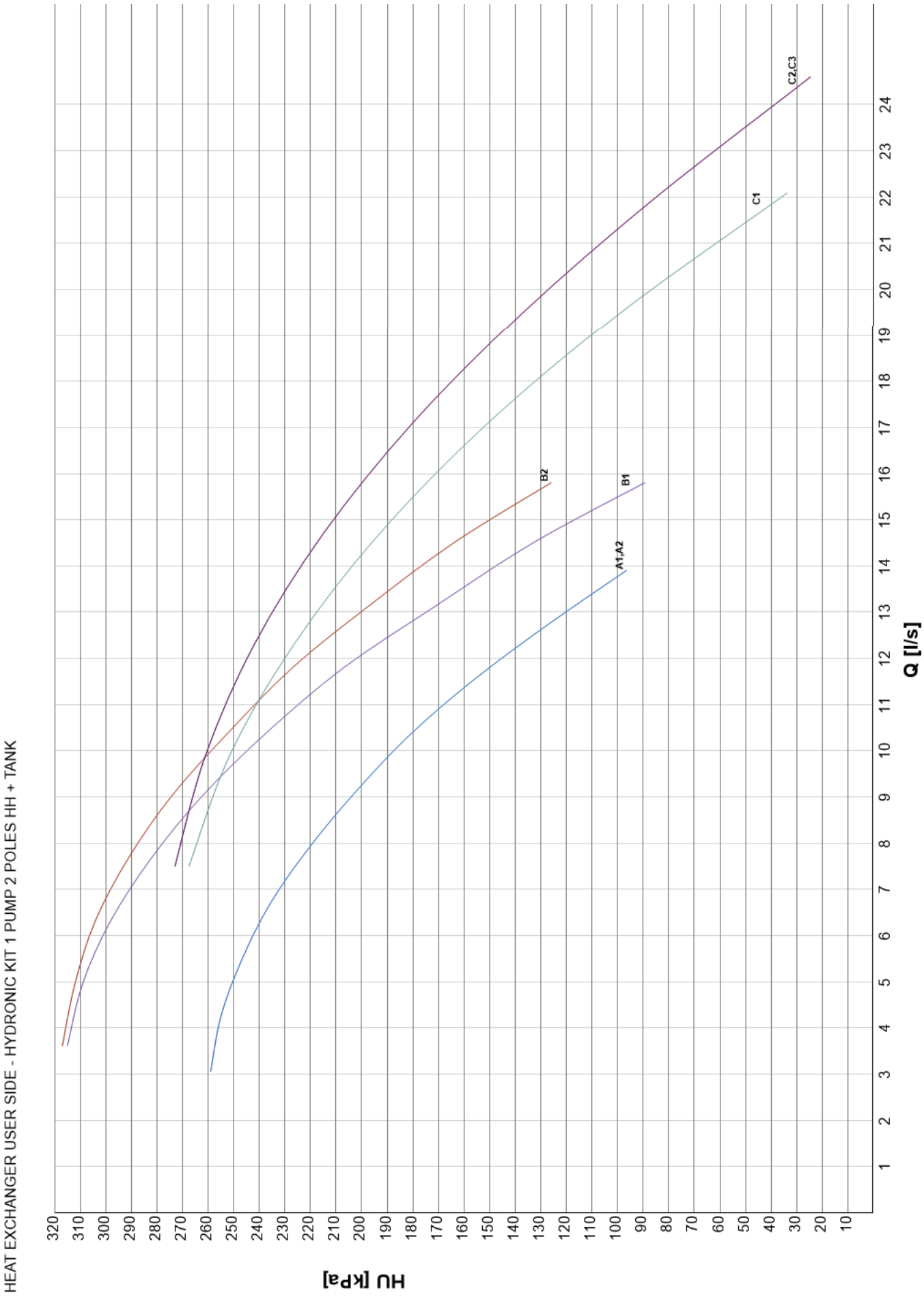

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES HH
HU [kPa]
Q [l/s]
A1,A2
B1
B2
C1
C2,C3

HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES HH + TANK

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0614T	CA	174	8,33	A1	LNEE 50-160/40/2	2	8	4,00	215
	K	165	7,87						221
	LN-CA	168	8,01						219
	LN-K	160	7,64						224
	SL-CA	167	8,00						220
	SL-K	159	7,60						225
0714T	CA	205	9,81	A2					190
	K	194	9,28						200
	LN-CA	198	9,49						196
	LN-K	185	8,87						207
	SL-CA	195	9,32						199
	SL-K	180	8,60						211
0814T	CA	235	11,3	B1	LNEE 50-160/55/2	2	11	5,50	218
	K	218	10,4						236
	LN-CA	227	10,9						227
	LN-K	208	9,96						245
	SL-CA	224	10,7						230
	SL-K	214	10,2						240
0914T	CA	266	12,7	B2					206
	K	248	11,9						225
	LN-CA	262	12,5						211
	LN-K	235	11,2						237
	SL-CA	259	12,4						214
	SL-K	241	11,5						232
1014T	CA	302	14,4	C1	LNEE 65-125/75/2	2	14	7,50	213
	K	289	13,8						192
	LN-CA	295	14,1						217
	LN-K	274	13,1						204
	SL-CA	292	14,0						219
	SL-K	264	12,6						211
1114T	CA	330	15,8	C2					200
	K	308	14,7						215
	LN-CA	318	15,2						208
	LN-K	290	13,9						225
	SL-CA	317	15,1						209
	SL-K	296	14,2						222
1214T	CA	352	16,8	C3					185
	K	327	15,6						203
	LN-CA	344	16,5						190
	LN-K	320	15,3						207
	SL-CA	344	16,4						191
	SL-K	312	14,9						212

(1) Values refer to nominal conditions
CH Cooling mode
Pf Cooling capacity unit (Cooling mode)
Pt Heating capacity unit (Heating mode)
Q Plant (side) exchanger water flow
F.L.I. Pump power input
F.L.A. Pump running current
HU Pump residual pressure head (Units with hydronic group without mains filter)


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES HH + TANK
HU [kPa]
Q [l/s]
A1-A2
B1
B2
C1
C2-C3

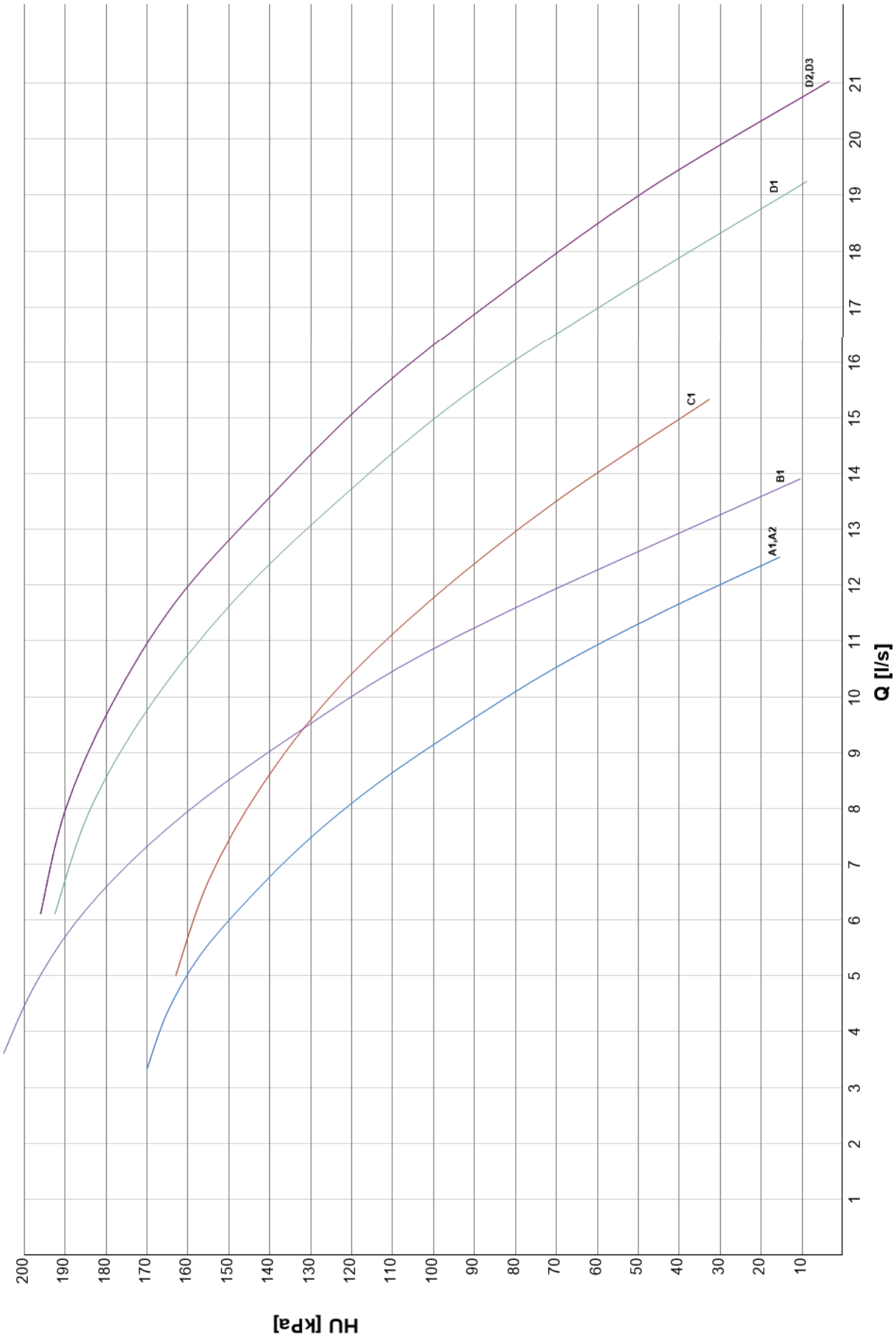
HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES LH

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0614T	CA	174	8,33	A1	LNEE 50-125/22/2	2	5	2,20	116
	K	165	7,87						124
	LN-CA	168	8,01						121
	LN-K	160	7,64						127
	SL-CA	167	8,00						122
	SL-K	159	7,60						128
0714T	CA	205	9,81	A2					85,7
	K	194	9,28						97,2
	LN-CA	198	9,49						92,9
	LN-K	185	8,87						106
	SL-CA	195	9,32						96,4
	SL-K	180	8,60						111
0814T	CA	235	11,3	B1	LNEE 50-125/30/2	2	6	3,00	89,0
	K	218	10,4						110
	LN-CA	227	10,9						98,8
	LN-K	208	9,96						120
	SL-CA	224	10,7						103
	SL-K	214	10,2						114
0914T	CA	266	12,7	C1	LNEE 65-125/30/2	2	6	3,00	83,7
	K	248	11,9						98,3
	LN-CA	262	12,5						87,3
	LN-K	235	11,2						108
	SL-CA	259	12,4						89,6
	SL-K	241	11,5						103
1014T	CA	302	14,4	D1	LNEE 65-125/40/2	2	8	4,00	124
	K	289	13,8						105
	LN-CA	295	14,1						129
	LN-K	274	13,1						117
	SL-CA	292	14,0						131
	SL-K	264	12,6						125
1114T	CA	330	15,8	D2					109
	K	308	14,7						125
	LN-CA	318	15,2						118
	LN-K	290	13,9						137
	SL-CA	317	15,1						119
	SL-K	296	14,2						133
1214T	CA	352	16,8	D3					90,9
	K	327	15,6						111
	LN-CA	344	16,5						97,2
	LN-K	320	15,3						116
	SL-CA	344	16,4						97,9
	SL-K	312	14,9						122

(1) Values refer to nominal conditions
CH Cooling mode
Pf Cooling capacity unit (Cooling mode)
Pt Heating capacity unit (Heating mode)
Q Plant (side) exchanger water flow
F.L.I. Pump power input
F.L.A. Pump running current
HU Pump residual pressure head (Units with hydronic group without mains filter)

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES LH



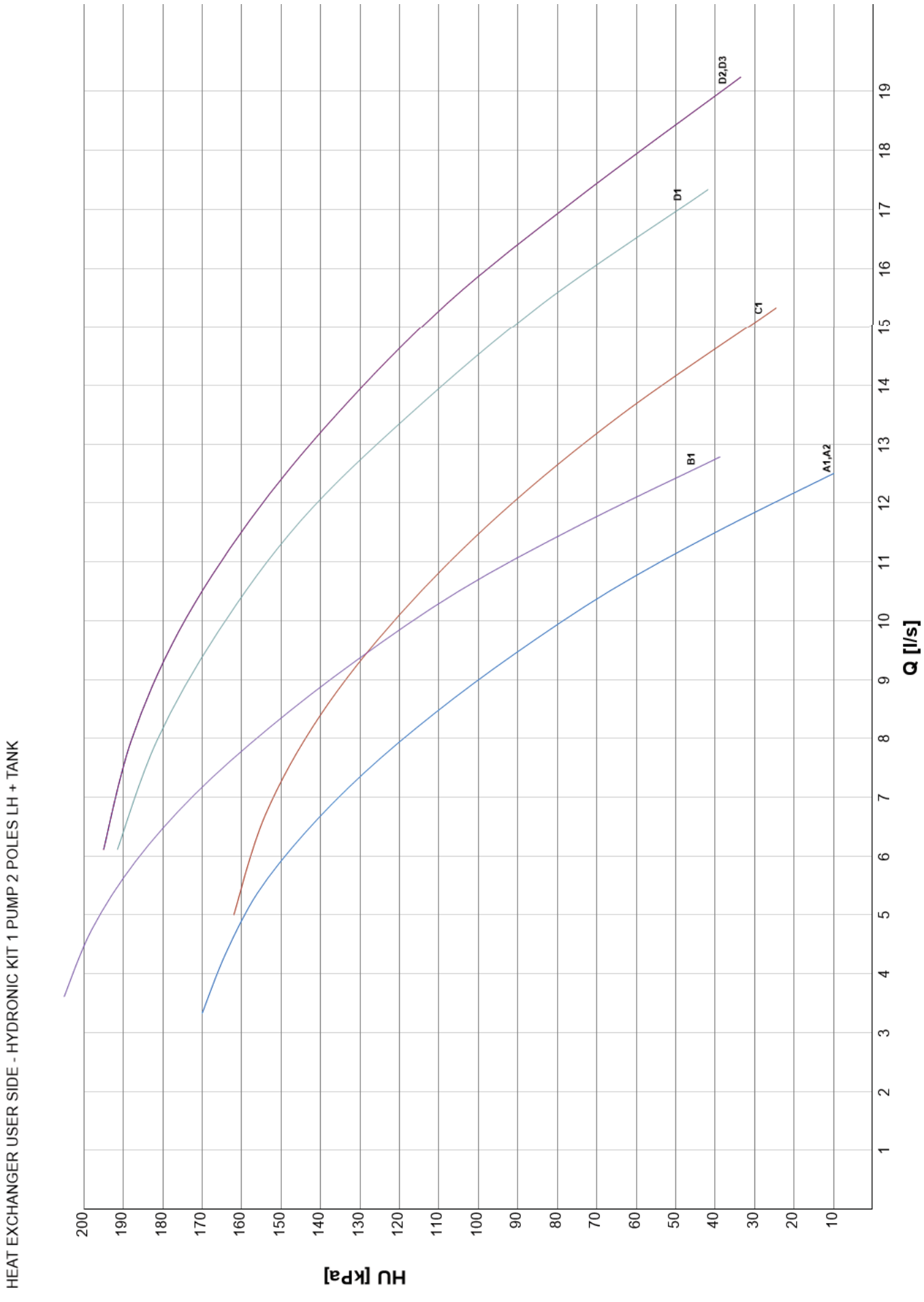
CLIMAVENETA
A Group Company of MITSUBISHI ELECTRIC

HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES LH + TANK

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0614T	CA	174	8,33	A1	LNEE 50-125/22/2	2	5	2,20	113
	K	165	7,87						121
	LN-CA	168	8,01						119
	LN-K	160	7,64						125
	SL-CA	167	8,00						119
	SL-K	159	7,60						126
0714T	CA	205	9,81	A2					82,4
	K	194	9,28						94,2
	LN-CA	198	9,49						89,7
	LN-K	185	8,87						103
	SL-CA	195	9,32						93,4
	SL-K	180	8,60						108
0814T	CA	235	11,3	B1	LNEE 50-125/30/2	2	6	3,00	84,5
	K	218	10,4						106
	LN-CA	227	10,9						94,7
	LN-K	208	9,96						117
	SL-CA	224	10,7						98,5
	SL-K	214	10,2						110
0914T	CA	266	12,7	C1	LNEE 65-125/30/2	2	6	3,00	78,1
	K	248	11,9						93,4
	LN-CA	262	12,5						81,9
	LN-K	235	11,2						104
	SL-CA	259	12,4						84,2
	SL-K	241	11,5						98,8
1014T	CA	302	14,4	D1	LNEE 65-125/40/2	2	8	4,00	117
	K	289	13,8						98,0
	LN-CA	295	14,1						122
	LN-K	274	13,1						111
	SL-CA	292	14,0						124
	SL-K	264	12,6						119
1114T	CA	330	15,8	D2					101
	K	308	14,7						118
	LN-CA	318	15,2						110
	LN-K	290	13,9						131
	SL-CA	317	15,1						112
	SL-K	296	14,2						127
1214T	CA	352	16,8	D3					82,1
	K	327	15,6						104
	LN-CA	344	16,5						88,8
	LN-K	320	15,3						109
	SL-CA	344	16,4						89,5
	SL-K	312	14,9						115

(1) Values refer to nominal conditions
CH Cooling mode
Pf Cooling capacity unit (Cooling mode)
Pt Heating capacity unit (Heating mode)
Q Plant (side) exchanger water flow
F.L.I. Pump power input
F.L.A. Pump running current
HU Pump residual pressure head (Units with hydronic group without mains filter)


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES LH + TANK
HU [kPa]
Q [l/s]
D2,D3
D1
C1
B1
A1,A2

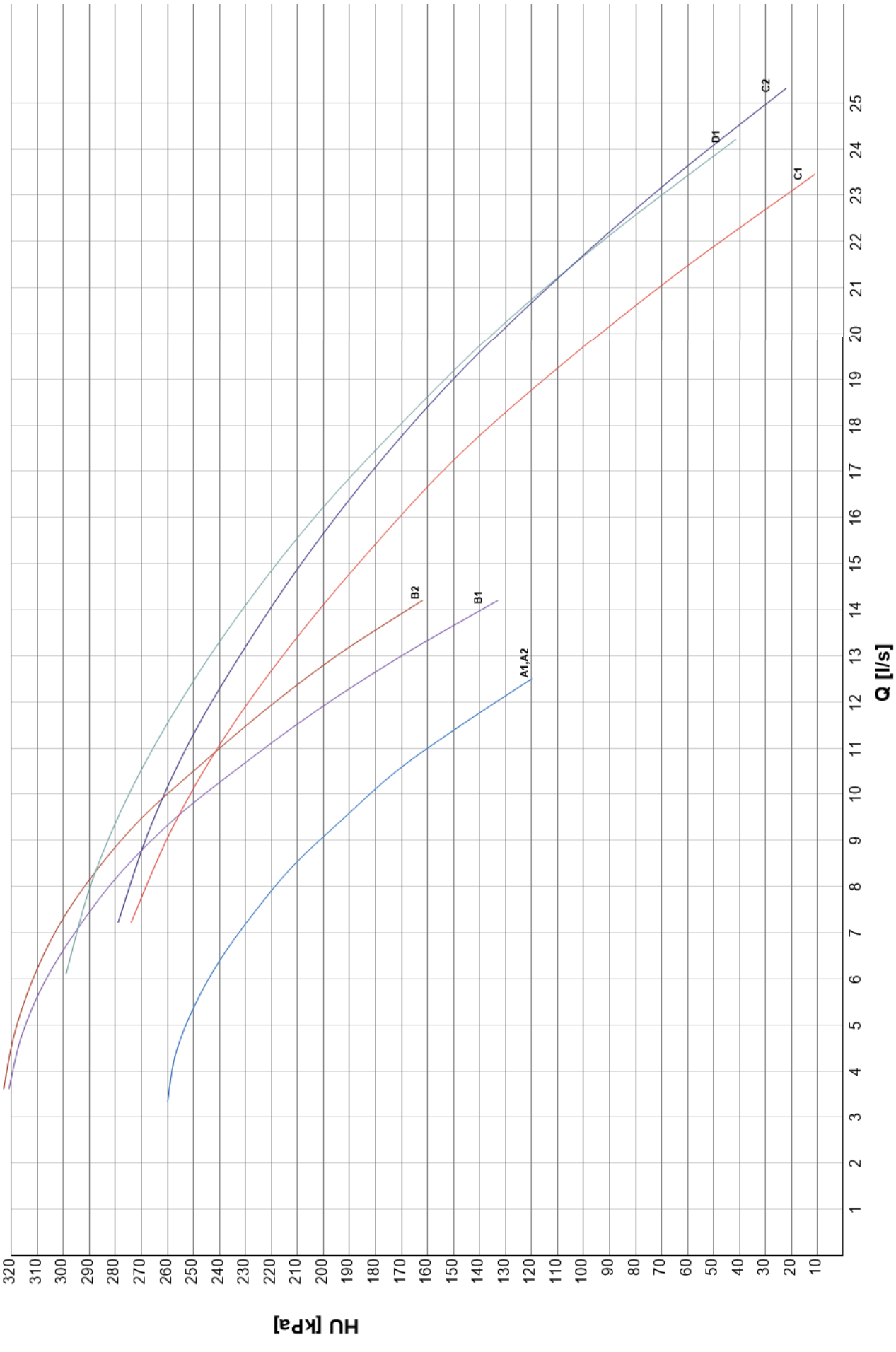
HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES HH

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0614T	CA	174	8,33	A1	LNTE 50-160/40/2	2	8	4,00	213
	K	165	7,87						220
	LN-CA	168	8,01						218
	LN-K	160	7,64						224
	SL-CA	167	8,00						219
	SL-K	159	7,60						224
0714T	CA	205	9,81	A2					186
	K	194	9,28						196
	LN-CA	198	9,49						192
	LN-K	185	8,87						204
	SL-CA	195	9,32						195
	SL-K	180	8,60						209
0814T	CA	235	11,3	B1	LNTE 50-160/55/2	2	11	5,50	217
	K	218	10,4						237
	LN-CA	227	10,9						227
	LN-K	208	9,96						247
	SL-CA	224	10,7						230
	SL-K	214	10,2						241
0914T	CA	266	12,7	B2					201
	K	248	11,9						222
	LN-CA	262	12,5						206
	LN-K	235	11,2						236
	SL-CA	259	12,4						210
	SL-K	241	11,5						230
1014T	CA	302	14,4	C1	LNTE 65-125/75/2	2	14	7,50	212
	K	289	13,8						191
	LN-CA	295	14,1						216
	LN-K	274	13,1						203
	SL-CA	292	14,0						218
	SL-K	264	12,6						210
1114T	CA	330	15,8	C2					199
	K	308	14,7						212
	LN-CA	318	15,2						207
	LN-K	290	13,9						223
	SL-CA	317	15,1						207
	SL-K	296	14,2						220
1214T	CA	352	16,8	D1	LNTE 65-160/75/2	2	14	7,50	191
	K	327	15,6						210
	LN-CA	344	16,5						197
	LN-K	320	15,3						214
	SL-CA	344	16,4						197
	SL-K	312	14,9						220

(1) Values refer to nominal conditions
CH Cooling mode
Pf Cooling capacity unit (Cooling mode)
Pt Heating capacity unit (Heating mode)
Q Plant (side) exchanger water flow
F.L.I. Pump power input
F.L.A. Pump running current
HU Pump residual pressure head (Units with hydronic group without mains filter)

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES HH



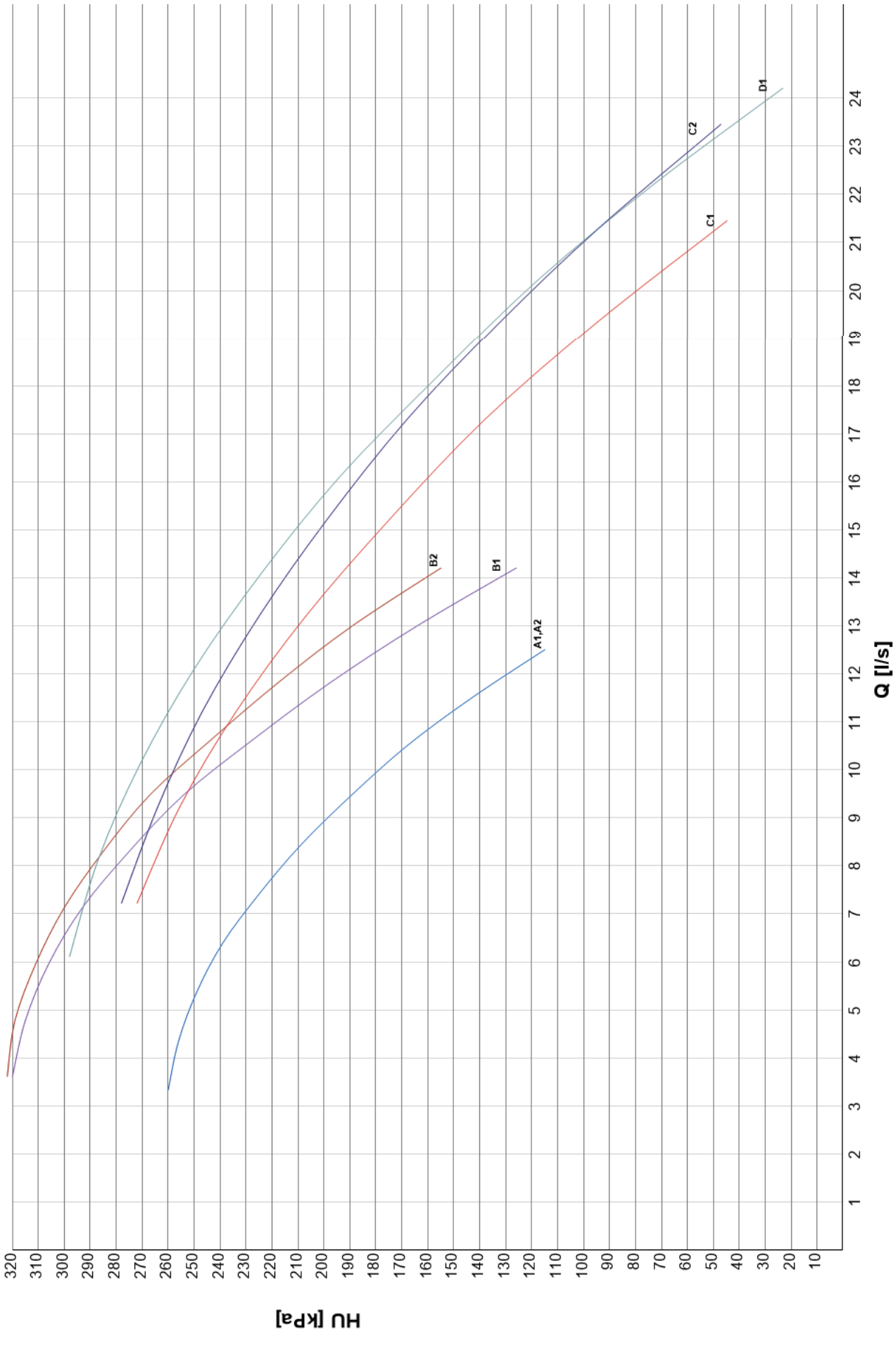
HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES HH + TANK

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0614T	CA	174	8,33	A1	LNTE 50-160/40/2	2	8	4,00	211
	K	165	7,87						218
	LN-CA	168	8,01						216
	LN-K	160	7,64						222
	SL-CA	167	8,00						216
	SL-K	159	7,60						222
0714T	CA	205	9,81	A2					182
	K	194	9,28						193
	LN-CA	198	9,49						189
	LN-K	185	8,87						201
	SL-CA	195	9,32						192
	SL-K	180	8,60						206
0814T	CA	235	11,3	B1	LNTE 50-160/55/2	2	11	5,50	213
	K	218	10,4						233
	LN-CA	227	10,9						222
	LN-K	208	9,96						243
	SL-CA	224	10,7						226
	SL-K	214	10,2						237
0914T	CA	266	12,7	B2					195
	K	248	11,9						217
	LN-CA	262	12,5						201
	LN-K	235	11,2						232
	SL-CA	259	12,4						204
	SL-K	241	11,5						225
1014T	CA	302	14,4	C1	LNTE 65-125/75/2	2	14	7,50	204
	K	289	13,8						184
	LN-CA	295	14,1						209
	LN-K	274	13,1						197
	SL-CA	292	14,0						211
	SL-K	264	12,6						204
1114T	CA	330	15,8	C2					191
	K	308	14,7						206
	LN-CA	318	15,2						199
	LN-K	290	13,9						217
	SL-CA	317	15,1						200
	SL-K	296	14,2						214
1214T	CA	352	16,8	D1	LNTE 65-160/75/2	2	14	7,50	182
	K	327	15,6						202
	LN-CA	344	16,5						188
	LN-K	320	15,3						207
	SL-CA	344	16,4						189
	SL-K	312	14,9						213

(1) Values refer to nominal conditions
CH Cooling mode
Pf Cooling capacity unit (Cooling mode)
Pt Heating capacity unit (Heating mode)
Q Plant (side) exchanger water flow
F.L.I. Pump power input
F.L.A. Pump running current
HU Pump residual pressure head (Units with hydronic group without mains filter)

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES HH + TANK



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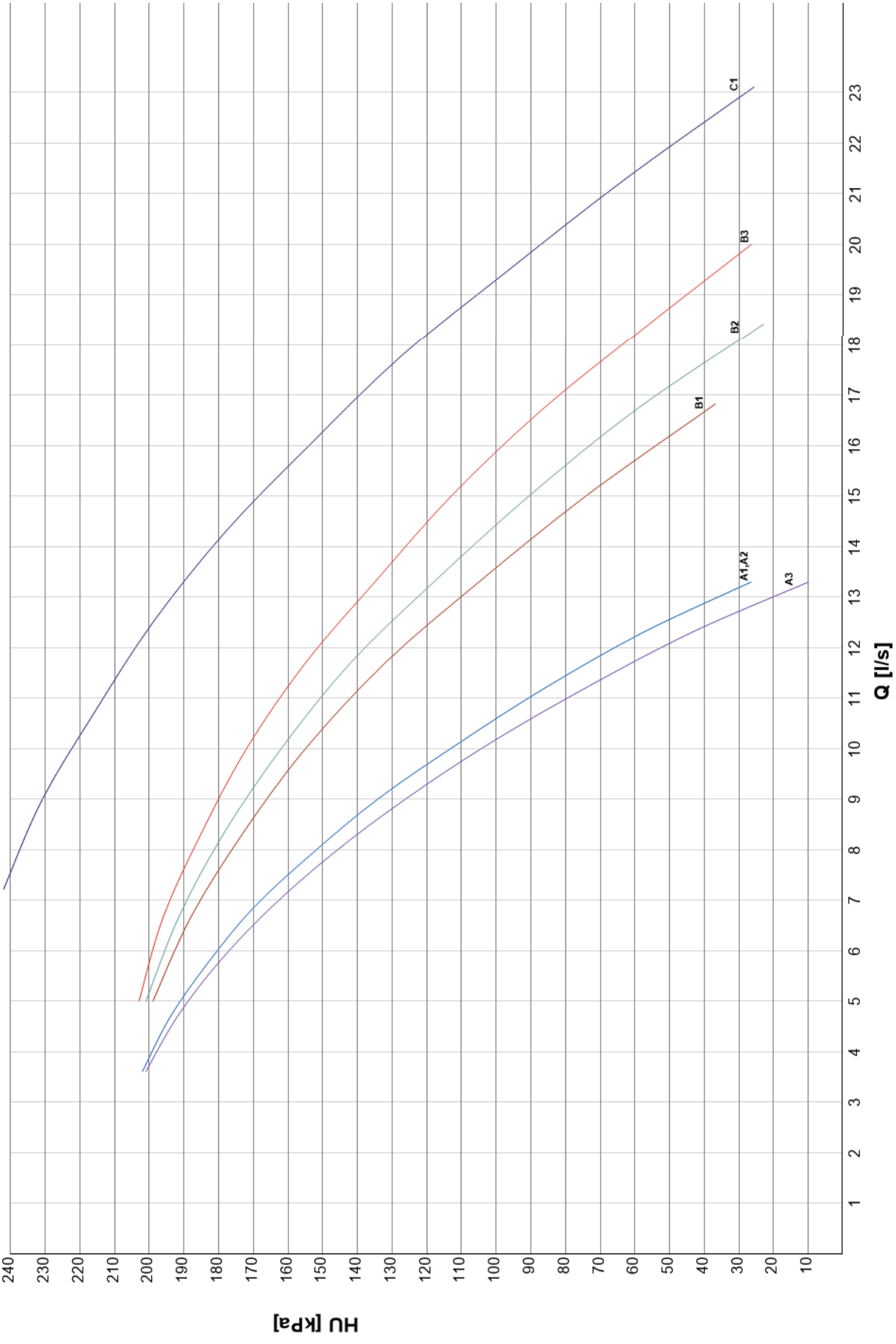
HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES LH

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0614T	CA	174	8,33	A1	LNTE 50-125/30/2	2	6	3,00	146
	K	165	7,87						154
	LN-CA	168	8,01						152
	LN-K	160	7,64						158
	SL-CA	167	8,00						152
	SL-K	159	7,60						159
0714T	CA	205	9,81	A2					117
	K	194	9,28						128
	LN-CA	198	9,49						124
	LN-K	185	8,87						137
	SL-CA	195	9,32						128
	SL-K	180	8,60						141
0814T	CA	235	11,3	A3					72,0
	K	218	10,4						94,0
	LN-CA	227	10,9						82,3
	LN-K	208	9,96						105
	SL-CA	224	10,7						86,2
	SL-K	214	10,2						98,1
0914T	CA	266	12,7	B1	LNTE 65-125/40/2	2	8	4,00	115
	K	248	11,9						129
	LN-CA	262	12,5						118
	LN-K	235	11,2						138
	SL-CA	259	12,4						120
	SL-K	241	11,5						134
1014T	CA	302	14,4	B2					116
	K	289	13,8						96,2
	LN-CA	295	14,1						121
	LN-K	274	13,1						109
	SL-CA	292	14,0						123
	SL-K	264	12,6						117
1114T	CA	330	15,8	B3					101
	K	308	14,7						116
	LN-CA	318	15,2						110
	LN-K	290	13,9						128
	SL-CA	317	15,1						111
	SL-K	296	14,2						125
1214T	CA	352	16,8	C1	LNTE 65-125/55/2	2	11	5,50	142
	K	327	15,6						160
	LN-CA	344	16,5						147
	LN-K	320	15,3						164
	SL-CA	344	16,4						148
	SL-K	312	14,9						169

(1) Values refer to nominal conditions
CH Cooling mode
Pf Cooling capacity unit (Cooling mode)
Pt Heating capacity unit (Heating mode)
Q Plant (side) exchanger water flow
F.L.I. Pump power input
F.L.A. Pump running current
HU Pump residual pressure head (Units with hydronic group without mains filter)

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES LH



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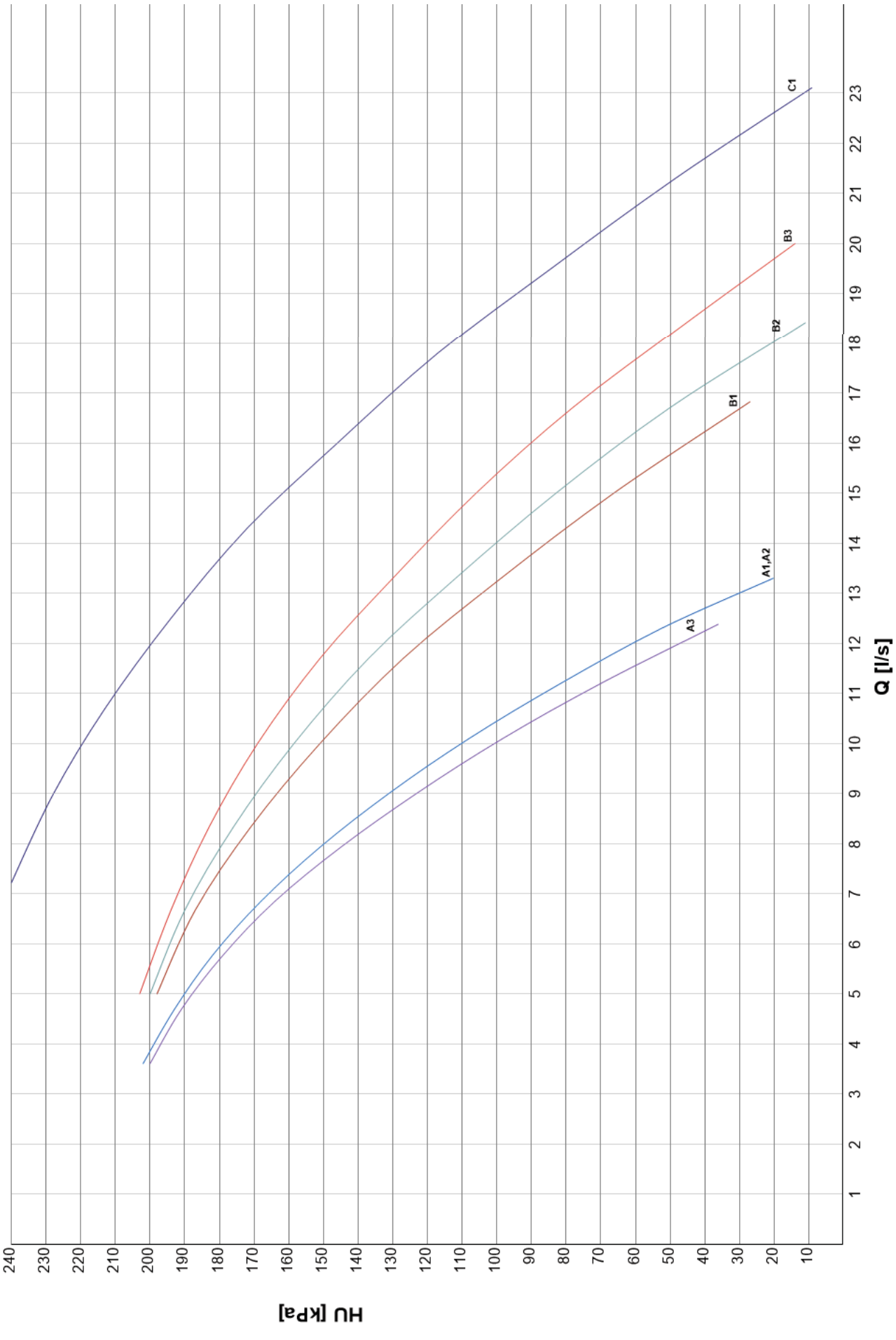
HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0614T	CA	174	8,33	A1	LNTE 50-125/30/2	2	6	3,00	144
	K	165	7,87						152
	LN-CA	168	8,01						150
	LN-K	160	7,64						156
	SL-CA	167	8,00						150
	SL-K	159	7,60						157
0714T	CA	205	9,81	A2					114
	K	194	9,28						125
	LN-CA	198	9,49						121
	LN-K	185	8,87						134
	SL-CA	195	9,32						125
	SL-K	180	8,60						139
0814T	CA	235	11,3	A3					67,6
	K	218	10,4						90,2
	LN-CA	227	10,9						78,2
	LN-K	208	9,96						102
	SL-CA	224	10,7						82,1
	SL-K	214	10,2						94,4
0914T	CA	266	12,7	B1	LNTE 65-125/40/2	2	8	4,00	109
	K	248	11,9						124
	LN-CA	262	12,5						113
	LN-K	235	11,2						134
	SL-CA	259	12,4						115
	SL-K	241	11,5						129
1014T	CA	302	14,4	B2					109
	K	289	13,8						89,6
	LN-CA	295	14,1						114
	LN-K	274	13,1						103
	SL-CA	292	14,0						116
	SL-K	264	12,6						111
1114T	CA	330	15,8	B3					93,3
	K	308	14,7						110
	LN-CA	318	15,2						102
	LN-K	290	13,9						122
	SL-CA	317	15,1						104
	SL-K	296	14,2						118
1214T	CA	352	16,8	C1	LNTE 65-125/55/2	2	11	5,50	133
	K	327	15,6						152
	LN-CA	344	16,5						139
	LN-K	320	15,3						157
	SL-CA	344	16,4						139
	SL-K	312	14,9						162

(1) Values refer to nominal conditions
CH Cooling mode
Pf Cooling capacity unit (Cooling mode)
Pt Heating capacity unit (Heating mode)
Q Plant (side) exchanger water flow
F.L.I. Pump power input
F.L.A. Pump running current
HU Pump residual pressure head (Units with hydronic group without mains filter)

HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK



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