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

Data Book

COOLING

NX-C 0072 - 1204_202101_EN R410A
ELCA_Engine ver.4.5.0.0

NX-C 0072 - 1204

17,4-291 kW

Chiller, air source for indoor installation

HFC R-410A
SCROLL
PLATES
EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

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

- HIGH EFFICIENCY
- ErP READY
- PLUG FUN WITH EC MOTOR
- TOTAL VERSATILITY
- INTEGRATED HYDRONIC MODULE

CLIMAVENETA®

CERTIFICATIONS

Product certifications

Voluntary product certifications

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

System certifications

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

Quality System complying with the requirements of UNI EN ISO 9001:2008 regulation
Environmental Management System complying with the requirements of UNI EN ISO 14001:2004 regulation
Occupational Health and Safety Management System complying with the requirements of BS OHSAS 18001:2007

The units highlighted in this publication contain R410A [GWP_{100} 2088] fluorinated greenhouse gases.

Functions

COOLING — Cooling

Refrigerant

R HFC R-410A — R-410A

Compressors

SCROLL — Scroll compressor

Fan

PLUG FAN — Plug fan

Exchangers

P PLATES — Plates heat exchanger

Other features

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com — Eurovent

GREEN CERTIFICATION RELEVANT

Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., 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 Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., has extensive experience with many of them and is active member of Green Building Council Italy.

Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., 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:
https://www.melcohit.com/EN/Environment/green_certifications/

Unit for indoor installation to produce chilled water with hermetic rotary Scroll compressors, centrifugal plug fans with EC motor, braze-welded plate-type exchanger and thermal expansion valve.
Structure and the external paneling made of hot-galvanised metal and painted with epoxy powder coat RAL 7035. The panels are easily removable for a quick and easy access to the inside components on either side of the unit.
The range includes the single-circuit two-compressor version and the dual circuit four-compressor version.

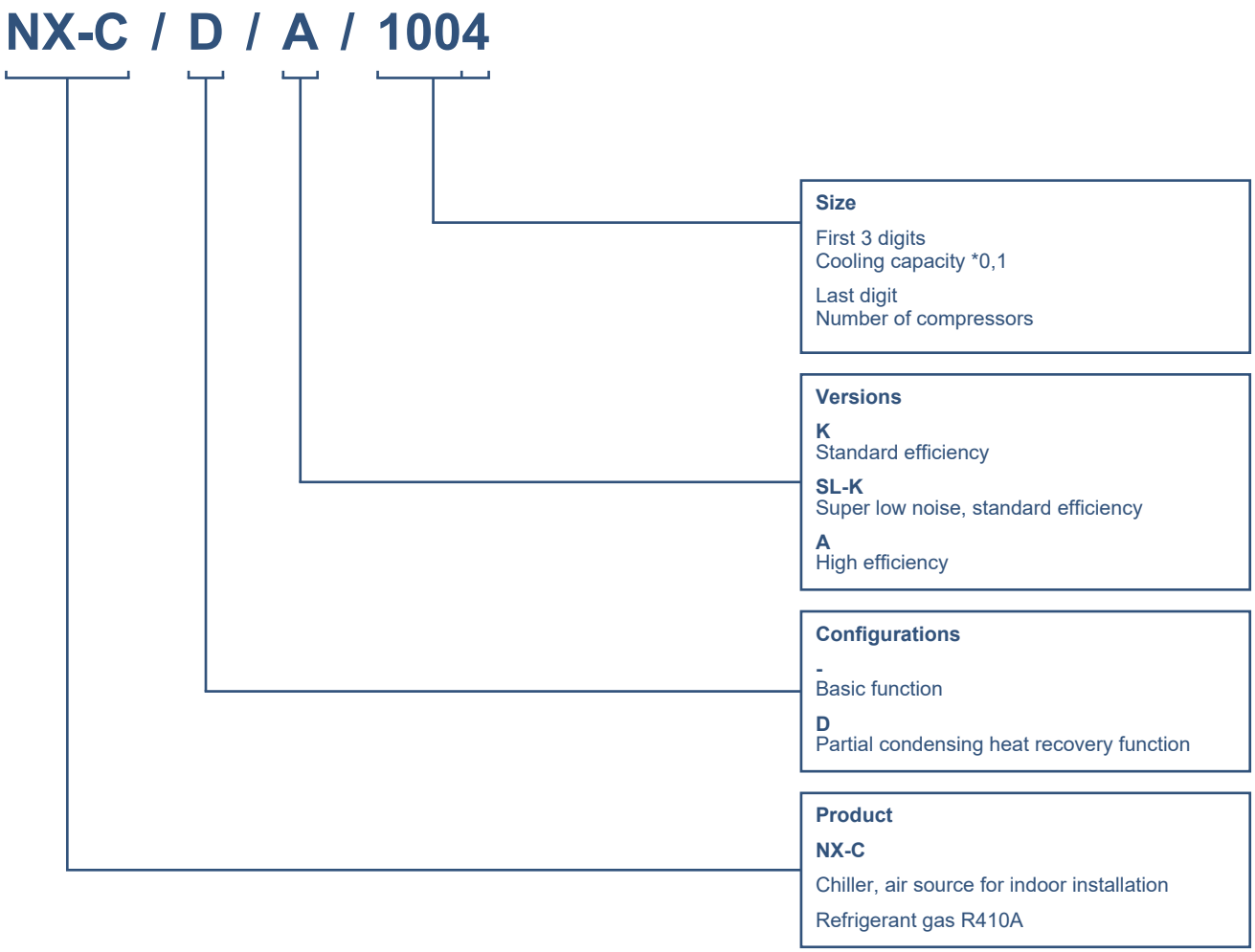
1.3 HIGH EFFICIENCY
Very high efficiency at full and partial loads, at the highest market levels, thanks to the adopted technological solutions. These units ensure low operating costs and therefore a quick payback time.

1.4 ErP READY
The highest level of efficiency at part loads, thanks to the inverter technology, can meet and exceed the minimum seasonal efficiency for cooling, SEER, according with the eco-sustainable design requirements for all products using energy.

1.5 PLUG FUN WITH EC MOTOR
More air flow with a smaller diameter.
Energy cost savings with the highest efficiency at the operating point.
Fans are directly coupled with the motor, no energy lost due to transmission (belts and pulleys). External rotor fitted with permanent magnets. Outstanding efficiency even at partial loads, due to the lack of brushes and lower consumption in every working condition in order to achieve a better seasonal efficiency in accordance with the ErP Directive.

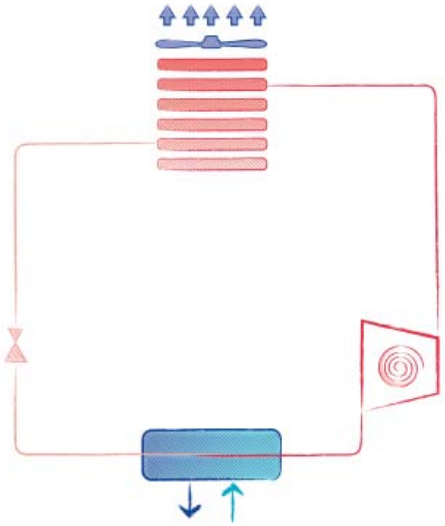
1.6 TOTAL VERSATILITY
Horizontal or vertical air flow.

1.7 INTEGRATED HYDRONIC MODULE
The built-in hydronic module already contains the main water circuit components; it is available as option with single or twin in-line pumps, for achieving low or high head, with fixed or variable speed.


NX-C / D / A / 1004
Size
First 3 digits
Cooling capacity *0,1
Last digit
Number of compressors
Versions
K
Standard efficiency
SL-K
Super low noise, standard efficiency
A
High efficiency
Configurations
-
Basic function
D
Partial condensing heat recovery function
Product
NX-C
Chiller, air source for indoor installation
Refrigerant gas R410A

CONFIGURATIONS

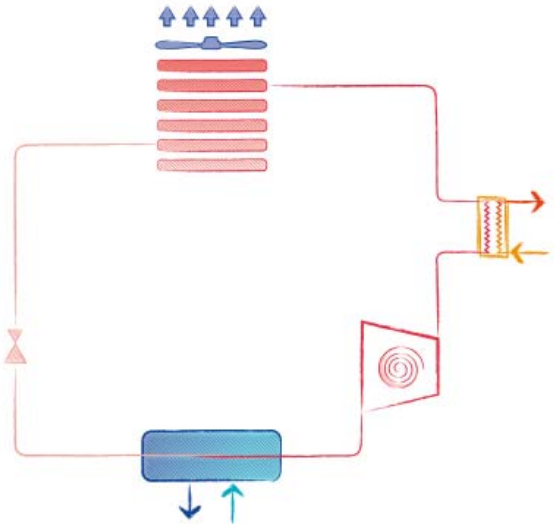
- , standard unit



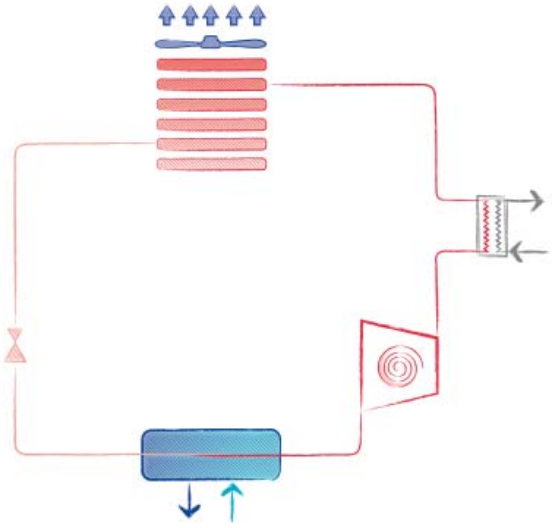
No heat recovery is possible.

/D, unit with partial heat recovery

Heat recovery: ON



Heat recovery: OFF (water flow stopped)



Each refrigerant circuit is fitted with a desuperheater.
The superheating heat recovery is only possible when the temperature of the hot water circuit is lower than the compressor discharge temperature. The heat recovery and its amount depends on the unit's operating conditions, in particular the outdoor air temperature and the load percentage. It is advised to interrupt the water flow to the desuperheater when the conditions for an actual heat recovery are not met.

The smart management of the desuperheater pump(s) is possible with the option 3371 D – RELAY 1 PUMP (ON/OFF), further information is available in the bulletin section dedicated to accessories.

Partial heat recovery operating limits:

	MIN temperature	MAX temperature
Inlet water	25°C (77°F)	56°C (132,8°F)
Outlet water	30°C (86°F)	60°C (140°F)

3.2 Chiller, air source for indoor installation
Unit for indoor installation to produce chilled water with hermetic rotary Scroll compressors, centrifugal plug fans with EC motor, braze-welded plate-type exchanger and thermal expansion valve.
Structure and the external paneling made of hot-galvanised metal and painted with epoxy powder coat RAL 7035. The panels are easily removable for a quick and easy access to the inside components on either side of the unit.
The range includes the single-circuit two-compressor version and the dual circuit four-compressor version.
- The unit is supplied fully refrigerant charged and factory tested. On site installation only requires power and hydraulic connection.

3.3 Structure
Structure in hot-galvanised shaped sheet steel with a suitable thickness. All parts polyester-powder painted RAL 7035. The self-supporting frame is built to guarantee maximum accessibility for servicing and maintenance operations.

3.4 Panelling
The external paneling made from hot galvanised metal plate and painted with epoxy powder coat RAL 7035. The panels are easy to remove for quick and easy access to the inside components from either side of the unit.

3.5 Constant-speed compressor
Hermetic scroll compressors complete with an oil sump heater, electronic overheating protection with centralised manual reset and a two-pole electric motor.

3.6 Refrigerant circuit
Main components of the cooling circuit:
- R410A refrigerant
- mechanical thermostatic expansion valves
- High and low pressure safety valve
- High pressure switches
- Liquid line solenoid valve
- crankcase heater on each compressor
- refrigerant line sight glass with humidity indicator
- high and low pressure transducers
- Filter Drier
- antifreeze electric heater for plate heat exchanger
- Liquid receivers

3.7 Plant side heat exchanger
Braze welded AISI 316 steel plate heat exchanger. The heat exchangers are lined on the outside with closed-cell neoprene lagging. When the unit is not operating, these are protected against formation of ice on the inside by an electric heater with thermostat, while when the unit is operating protection is ensured by a flow switch on the water side. The unit can also operate with non-freezing mixes, down to heat exchanger outlet temperatures of -8°C.

3.8 Source side heat exchanger
Microchannel coils. Made entirely in aluminum, the coils are not subjected to galvanic corrosion.
Channel small section favour refrigerant fluid turbulence, which enhances the heat exchange. Tube geometry maximize the surface touched by the air, thus allowing compact dimension and refrigerant charge reduction (sizes 0904/A, 0904/SL-K, 1004/A, 1004/SL-K, 1104/K e 1204/K are realized with copper tubes and aluminium fins heat exchanger coils).

3.9 Fan section source side
The unit is fitted with centrifugal fans with backward-curved blades. The impeller is produced in a single piece without joints and made of fibreglass-reinforced plastic that minimises the noise level and decreases power requirements significantly. EC motors guarantees up to 50% less energy consumption in comparison with AC solutions thanks to the continuous speed control with a 0-10V signal, especially at part loads.
Air delivery is vertical in standard unit configuration. In the field, the panels can be removed and re-positioned to configure a horizontal air supply.

3.10 Electrical and control panel
Electrical and control panel built in accordance with EN60204-1 standard, complete with:
- Electronic control W3000TE
- automatic circuit breakers on electric loads (2 compressor units)
- numbered cables (2 compressor units)
- control circuit transformer
- general door lock isolator
- terminals for cumulative alarm block
- remote ON/OFF terminals
- relays for remote pump(s) activation for both circuits (only for units without hydronic pumps)
- remote demand limit contact (2 compressors unit)

3.11 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
- Machine directive 2006/42/EC
- PED Directive 2014/68/EC
- ErP Directive 2009/125/EC
- F-Gas Regulation 517/2014/EC
- 811/2013/EC and 813/2103/EC EcoLabelling Regulations
- 2014/30/EC EMC Directive
- 2014/35/EC Low Voltage Directive
- ISO 9001 Company Quality Management System certification
- ISO 14001 Company Environmental Management System certification

3.12 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.

3.13 Electronic control W3000TE
The W3000 Compact keypad provided as standard, features control functions and a complete LCD display for viewing data and activating the unit, via a multi-language menu. In alternative or in addition to the keyboard, the innovative user interface KIPlink allows one to operate on the unit directly from a smartphone or tablet. Using KIPlink, it is possible to turn the unit on and off, adjust the set-point, plot the main operating variables, monitor the status of the refrigerant circuits, the compressors, the fans and the pumps (if present), and display and reset possible alarms.
The regulation is based on the exclusive QuickMind algorithm, including self-adaptive control logics, beneficial in low water content systems. Alternatively, proportional or proportional- integral regulations are also available.
A complete alarm management system is available, with a “black-box” and the alarm history display functions. For a multiple unit systems, the regulation of the resources can be implemented via optional proprietary devices. Energy metering, for both consumption and capacity, can also be developed.
The built-in clock can create an operating profile up to 4 typical days and 10 time bands.
Supervision is available either using proprietary devices or by integration into third party systems using ModBus, BACnet, BACnet-over-IP and Echelon LonWorks protocols.
A dedicated wall-mounted keypad can be used for remote control of all functions.
Optionally (VPF package), capacity modulation can be integrated with hydraulic flow modulation, thanks to inverter-driven pumps and to specific resources for the hydraulic circuit.

3.14 Versions
/A - High efficiency
High efficiency units with minimum investment payback time. High performing heat exchangers and generous heat exchanger surfaces.

/K - Key efficiency
Key efficiency units grant the best cooling capacity/footprint ratio.

/SL - Super Low noise
This configuration features a reduced fan speed and an oversized condensing section.
The fan speed is automatically increased in case of particularly tough environmental conditions.

4.1 OPTIONS

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
PF409 **WATER FILTER**			
C7420821 Filter 1" 1/2	Wire mesh water filter, to be installed on field. For the correct match between unit model and water filter please refer to the price list		ALL
C7420831 Filter 2"	Wire mesh water filter, to be installed on field. For the correct match between unit model and water filter please refer to the price list		ALL
C7420841 Filter 2" 1/2	Wire mesh water filter, to be installed on field. For the correct match between unit model and water filter please refer to the price list		ALL
C7420851 Filter 3"	Wire mesh water filter, to be installed on field. For the correct match between unit model and water filter please refer to the price list		ALL
380 **NUMBERED WIRING**			
381 NUMBERED WIRING ON EL. BOARD	Electrical board wires are identified by numbered labels. The reference numbers are indicated in the unit's wiring scheme.	Facilitate maintainance interventions to the electrical board connections.	ALL
383 NUMBERED WIRINGS+UK REQUESTS	Electrical board wires are identified by numbered labels. The reference numbers are indicated in the unit's wiring scheme.	Facilitate maintainance interventions to the electrical board connections.	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
2412 PHASE SEQU. RELAY + OVER/UNDER VOLT. MONIT.	Relay for checking mains phase-sequence and voltage	The monitoring relay protects loads against faults due to incorrect connection of mains, and it monitors whether it exceeds or falls below a specified voltage in a three-phase network.	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 **COMPRESSOR RUN STATUS 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

OPTIONS

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
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
1510 SOFT-STARTER			
1511 UNIT WITH SOFT-START	Electronic device adopted to manage the inrush current. The device controls 2 phases.	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
3300 COMPRESSOR REPHASING			
3301 COMPR.POWER FACTOR CORR.	Capacitors on the compressors' power inlet line.	The unit's average cos(phi) increases.	ALL
1440 USER INTERFACE			
1441 KIPlink + COMPACT KEYBOARD	In addition to KIPlink, the innovative user interface based on WiFi technology, the unit is equipped with the Compact keyboard with LCD display and buttons.		ALL
6192 COMPACT KEYBOARD	Keyboard with LCD display	Features a multi-language menu (with the W3000 software there are 3 languages available). Allows the connection of the remote keyboard. When equipped with a real time clock (optional), enables the alarm history display function.	ALL
6196 KIPlink	The unit is equipped with KIPlink, the innovative user interface based on WiFi technology		ALL
5940 SETP. COMPENSATION OUT. TEMP.			
5941 WITH SETPOINT COMPENSATION	This option includes an outside air sensor to be installed outside the building and enable the climatic curve function.	An outside air temperature probe, available as option, controls the system water temperature set point based on heating and cooling (reversible units) climatic curves. Delivering water at different temperatures to the terminals based on the outside air temperature achieves high seasonal efficiency ratios and provides considerable savings in running costs.	ALL

OPTIONS

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
5920 **MANAGEMENT & CONTROL SYSTEMS**			
5922 ClimaPRO ModBUS RS485 - MID	This option includes the following devices on-board the unit panel: - MID certified network analyzer operating on ModBUS over RS-485 - Current transformers - Software release LA09 or later version.	This accessory allows to acquire the electrical data and the power absorbed by the unit and communicate with ClimaPRO via high level communication interface based on ModBUS over EIA RS-485. More specifically, the data collected are: power supply, current, frequency, power factor (cos_{φ}), electrical power consumption, energy consumption. This specific energy meter model is MID certified and can therefore be used for billing applications. This option also ensures the compatibility between the units and ClimaPRO, thus allowing ClimaPRO to acquire all the main unit's operating variables and status by means of a high level communication interface to the controller installed onboard the unit panel.	ALL
5923 ClimaPRO BacNET over IP	This option includes the following devices on-board the unit panel: - network analyzer operating on BACnet over IP - Current transformers - Software release LA09 or later version.	This accessory allows to acquire the electrical data and the power absorbed by the unit and communicate with ClimaPRO via high level communication interface based on BACnet over IP. More specifically, the data collected are: power supply, current, frequency, power factor (cos_{φ}), electrical power consumption, energy consumption. This network analyzer is not MID certified and cannot therefore be used for billing applications. This option also ensures the compatibility between the units and ClimaPRO, thus allowing ClimaPRO to acquire all the main unit's operating variables and status by means of a high level communication interface to the controller installed onboard the unit panel.	ALL
5924 ENERGY METER FOR BMS	This option includes the following devices on-board the unit panel: - network analyzer with display operating on ModBUS protocol over RS-485 (without certification MID) - current transformers.	This accesory allows to acquire the electrical data and the power absorbed by the unit and send them via RS-485 bus to the BMS for energy metering.	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
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
5040 **COMPRESSOR SUCTION AND DISCHARGE VALVE**			
5042 COMPRESSOR SUCTION AND DISCHARGE VALVE	Shut-off valve on compressor's suction and discharge circuit.	Simplifies maintenance activities	ALL
1940 **EXPANSION VALVE**			
1941 ELECTRONIC EXPANSION VALVE	Electronic expansion valve	Electronic lamination device wtih step motor. It is designed for the continuous and precise control of refrigerant flow entering in the evaporator. This solution permits extremely short times for reaction to variation in load, optimising power consumption.	ALL

OPTIONS

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
870 **OPERATION RANGE UNIT**			
874 EVAPORATOR OUTLET WATER TEMPERATURE <5°C	The option includes an expansion valve optimized for outlet water temperature <5°C up to according the operating limits of the unit. The glycol is mandatory.	Dedicated components to the application to allow always the best performances in all working conditions.	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.	Provides a very high resistance against corrosion, also in very aggressive environments. 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.melcohit.com/EN/Download/Corporate/GUIDELINES 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.melcohit.com/EN/Download/Corporate/GUIDELINES 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.	Provides a very high resistance against corrosion, also in very aggressive environments. 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.melcohit.com/EN/Download/Corporate/GUIDELINES or contact our sales department.	ALL
4700 **EV - HYDRONIC MODULE**			
4702 EV - RELAY 1 PUMP (ON/OFF)	Evaporator hydronic module, compatible with constant flow control. The unit is provided with 1 relay to control the activation of 1 external pump via single ON/OFF signal.	The hydronic module controls the external pumps with the unit controller logic.	ALL
4703 EV - RELAY 2 PUMPS (ON/OFF)	Evaporator hydronic module, compatible with constant flow control. The unit is provided with 2 relays to control the activation of 2 external pumps via double ON/OFF signal. The pumps are controlled in duty/standby, with running hours equalization and changeover on device failure.	The hydronic module controls the external pumps with the unit controller logic.	ALL
4706 EV - 1 PUMP 2P LH (FIX SPEED)	Evaporator hydronic module, compatible with constant flow control. The unit is provided with 1 fixed speed pump, with 2-pole motor. Residual head of 100 kPa approximately. Specifications and characteristic curves are available in the dedicated bulletin section.	The hydronic module includes the pumps and the main water circuit components, thus optimizing hydraulic and electrical installation space, time and costs.	ALL
4707 EV - 1 PUMP 2P HH (FIX SPEED)	Evaporator hydronic module, compatible with constant flow control. The unit is provided with 1 fixed speed pump, with 2-pole motor. Residual head of 200 kPa approximately. Specifications and characteristic curves are available in the dedicated bulletin section.	The hydronic module includes the pumps and the main water circuit components, thus optimizing hydraulic and electrical installation space, time and costs.	ALL

OPTIONS

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
4711 EV - 2 PUMPS 2P LH (FIX SPEED)	Evaporator hydronic module, compatible with constant flow control. The unit is provided with 2 fixed speed pumps, with 2-pole motor. Residual head of 100 kPa approximately. The pumps are controlled in duty/standby, with running hours equalization and changeover on device failure. Specifications and characteristic curves are available in the dedicated bulletin section.	The hydronic module includes the pumps and the main water circuit components, thus optimizing hydraulic and electrical installation space, time and costs.	ALL
4712 EV - 2 PUMPS 2P HH (FIX SPEED)	Evaporator hydronic module, compatible with constant flow control. The unit is provided with 2 fixed speed pumps, with 2-pole motor. Residual head of 200 kPa approximately. The pumps are controlled in duty/standby, with running hours equalization and changeover on device failure. Specifications and characteristic curves are available in the dedicated bulletin section.	The hydronic module includes the pumps and the main water circuit components, thus optimizing hydraulic and electrical installation space, time and costs.	ALL
4713 EV - RELAY 1 PUMP + 0-10V SIG	Evaporator hydronic module, compatible with constant or variable flow control. The unit is provided with 1 relay and a 0-10V signal terminal to control the activation and the speed of 1 external variable speed pump.	The hydronic module controls the external pumps with the unit controller logic.	ALL
4714 EV - RELAY 2 PUMPS + 0-10V SIG	Evaporator hydronic module, compatible with constant or variable flow control. The unit is provided with 2 relays and a 0-10V signal terminal to control the activation and the speed of 2 external variable speed pump. The pumps are controlled in duty/standby, with running hours equalization and changeover on device failure.	The hydronic module controls the external pumps with the unit controller logic.	ALL
4717 EV - 1 PUMP 2P LH (VAR SPEED)	Evaporator hydronic module, compatible with constant or variable flow control. The unit is provided with 1 variable speed pump, with 2-pole motor. Residual head of 100 kPa approximately. Specifications and characteristic curves are available in the dedicated bulletin section.	The hydronic module includes the pumps and the main water circuit components, thus optimizing hydraulic and electrical installation space, time and costs.	ALL
4722 EV - 2 PUMPS 2P LH (VAR SPEED)	Evaporator hydronic module, compatible with constant or variable flow control. The unit is provided with 2 variable speed pumps, with 2-pole motor. Residual head of 100 kPa approximately. The pumps are controlled in duty/standby, with running hours equalization and changeover on device failure. Specifications and characteristic curves are available in the dedicated bulletin section.	The hydronic module includes the pumps and the main water circuit components, thus optimizing hydraulic and electrical installation space, time and costs.	ALL
4860 **EV - PRIMARY FLOW CONTROL**			
4861 EV - CONSTANT FLOW	Evaporator water flow control (plant primary circuit): constant flow. Compatible with hydronic modules without regulation devices (no pumps, no contacts), with ON/OFF regulation devices (relays) or with fixed speed pumps (codes: 4701, 4702, 4703, 4704, 4705, 4706, 4707, 4708, 4709, 4711, 4712 - hydronic modules availability depends on unit model).	The unit is set up to operate with a constant water flow in the heat exchanger (plant primary circuit). This is the only option available in case of unit without any water flow regulation devices (no pumps, no contacts), which means with water flow control provided by others. In case of unit with ON/FF regulation devices or fixed speed pumps, the unit controller manages the pump activation to reduce pump consumption.	ALL

OPTIONS

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
4862 EV - CONSTANT FLOW (PARAMETER)	Evaporator water flow control (plant primary circuit): constant flow (parameter set). Compatible with hydronic modules with modulating regulation devices (0-10V signal) or with variable speed pumps (codes: 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4721, 4722, 4723 - hydronic modules availability depends on unit model).	The unit is set up to operate with a constant water flow in the heat exchanger (plant primary circuit). The unit controller manages the pump activation to reduce pump consumption. The pump speed is adjusted via 0-10V signal. The option provides the possibility to set the pump speed with a controller parameter. Once set, the speed pump remains constant until the next parameter adjustment. The parameter set constant flow control is useful during the unit installation and commissioning, to adjust water flow and pressure head according to the real plant characteristics.	ALL
4864 EV – VPF (w/o DP)(SU, MM_PR)	Evaporator water flow control (plant primary circuit): variable flow (delta P control). Only for single unit systems or unit with option 1541 (Multi Manager - Priority Master) if available. Compatible with hydronic modules with modulating regulation devices (0-10V signal) or with variable speed pumps (codes: 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4721, 4722, 4723 - hydronic modules availability depends on unit model). The option includes: differential pressure transducer on the unit's heat exchanger and related controller expansion board, controller expansion board to read the plant side differential pressure transducer (4-20mA signal) and manage the hydraulic by-pass valve opening (0-10V signal). Compulsory equipment, supplied by others: plant side differential pressure transducer, plant side hydraulic by-pass valve.	The unit is set up to operate with a variable water flow in the heat exchanger (plant primary circuit). The unit controller manages the pump activation to reduce pump consumption. The pump speed is adjusted via 0-10V signal. The option provides a pump speed management based on the VPF (Variable Primary Flow) function. It keeps the delta P constant on the plant side (primary circuit), thus bringing significant pump consumption reduction during part load operation. The VPF function is applicable in systems with only the primary circuit. Further information available in the dedicated bulletin section.	ALL
4865 EV – VPF (w DP)(SU, MM_PR)	Evaporator water flow control (plant primary circuit): variable flow (delta P control). Only for single unit systems or unit with option 1541 (Multi Manager - Priority Master) if available. Compatible with hydronic modules with modulating regulation devices (0-10V signal) or with variable speed pumps (codes: 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4721, 4722, 4723 - hydronic modules availability depends on unit model). The option includes: differential pressure transducer on the unit's heat exchanger and related controller expansion board, plant side differential pressure transducer (installation by others), controller expansion board to read the plant side differential pressure transducer (4-20mA signal) and manage the hydraulic by-pass valve opening (0-10V signal). Compulsory equipment, supplied by others: plant side hydraulic by-pass valve.	The unit is set up to operate with a variable water flow in the heat exchanger (plant primary circuit). The unit controller manages the pump activation to reduce pump consumption. The pump speed is adjusted via 0-10V signal. The option provides a pump speed management based on the VPF (Variable Primary Flow) function. It keeps the delta P constant on the plant side (primary circuit), thus bringing significant pump consumption reduction during part load operation. The VPF function is applicable in systems with only the primary circuit. Further information available in the dedicated bulletin section.	ALL

OPTIONS

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
4866 EV – VPF (M3000, CPRO, MM_N-PR)	Evaporator water flow control (plant primary circuit): variable flow (delta P control). Only for multi-unit systems with external controller (Manager3000 or ClimaPRO) or unit with option 1542 (Multi Manager - Non Priority Master) if available. Compatible with hydronic modules with modulating regulation devices (0-10V signal) or with variable speed pumps (codes: 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4721, 4722, 4723 - hydronic modules availability depends on unit model). The option includes: differential pressure transducer on the unit's heat exchanger and related controller expansion board. It shall be the customer responsibility to configure the multi-unit control system (Manager3000, ClimaPRO or Multi Manager Priority Master) with option VPF.	The unit is set up to operate with a variable water flow in the heat exchanger (plant primary circuit). The unit controller manages the pump activation to reduce pump consumption. The pump speed is adjusted via 0-10V signal. The option provides a pump speed management based on the VPF (Variable Primary Flow) function. It keeps the delta P constant on the plant side (primary circuit), thus bringing significant pump consumption reduction during part load operation. The VPF function is applicable in systems with only the primary circuit. Further information available in the dedicated bulletin section.	ALL
4867 EV - VPF.D (SU, MM_PR)	Evaporator water flow control (plant primary circuit): variable flow (delta T control). Only for single unit systems or unit with option 1541 (Multi Manager - Priority Master) if available. Compatible with hydronic modules with modulating regulation devices (0-10V signal) or with variable speed pumps (codes: 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4721, 4722, 4723 - hydronic modules availability depends on unit model). The option includes: 2 plant side NTC temperature sensors (installation by others).	The unit is set up to operate with a variable water flow in the heat exchanger (plant primary circuit). The unit controller manages the pump activation to reduce pump consumption. The pump speed is adjusted via 0-10V signal. The option provides a pump speed management based on the VPF.D (Variable Primary Flow with Decoupler) function. It keeps the delta T constant on the plant side (primary circuit), thus bringing significant pump consumption reduction during part load operation. The VPF.D function is applicable in systems with the primary and secondary circuits separated by a hydraulic decoupler. Further information available in the dedicated bulletin section.	ALL
4868 EV - VPF.D(M3000, CPRO, MM_N-PR)	Evaporator water flow control (plant primary circuit): variable flow (delta T control). Only for multi-unit systems with external controller (Manager3000 or ClimaPRO) or unit with option 1542 (Multi Manager - Non Priority Master) if available. Compatible with hydronic modules with modulating regulation devices (0-10V signal) or with variable speed pumps (codes: 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4721, 4722, 4723 - hydronic modules availability depends on unit model). It shall be the customer responsibility to configure the multi-unit control system (Manager3000, ClimaPRO or Multi Manager - Priority Master) with option VPF.D.	The unit is set up to operate with a variable water flow in the heat exchanger (plant primary circuit). The unit controller manages the pump activation to reduce pump consumption. The pump speed is adjusted via 0-10V signal. The option provides a pump speed management based on the VPF.D (Variable Primary Flow with Decoupler) function. It keeps the delta T constant on the plant side (primary circuit), thus bringing significant pump consumption reduction during part load operation. The VPF.D function is applicable in systems with the primary and secondary circuits separated by a hydraulic decoupler. Further information available in the dedicated bulletin section.	ALL

OPTIONS

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
4869 EV - VPF.E	Evaporator water flow control (plant primary circuit): variable flow (delta T control). Compatible with hydronic modules with modulating regulation devices (0-10V signal) or with variable speed pumps (codes: 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4721, 4722, 4723 - hydronic modules availability depends on unit model).	The unit is set up to operate with a variable water flow in the heat exchanger (plant primary circuit). The unit controller manages the pump activation to reduce pump consumption. The pump speed is adjusted via 0-10V signal. The option provides a pump speed management based on the VPF.E function. It keeps the delta T constant on the plant side (primary circuit), thus bringing significant pump consumption reduction during part load operation. The VPF.E function is applicable in systems with only the primary circuit and with the hydraulic terminals equipped 3 way valve (by-pass). Further information available in the dedicated bulletin section.	ALL
1800 **EVAPORATOR WATER FLOW SWITCH**			
1801 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.	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.	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. Only for units provided with on-board pumps.	It protects the unit against ice formation on its hydraulic components.	ALL
2100 **ANTIVIBRATION MOUNTING**			
2101 RUBBER TYPE ANTIVIBR.MOUNTING			ALL
9970 **PACKING**			
9968 NYLON, SUPP., COIL PROT. PACK.	Unit provided plastic supports, with polypropylene panels for coils protection and covered with nylon		ALL
9969 NYLON + WOODEN CRATE PACKING	Unit provided with wooden cage and covered with nylon		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

OPTIONS

Additional information - IMPORTANT -

381 – Numbered wiring on electrical
Standard feature (taglie 0072 - 0702)

3412 – Automatic circuit breakers
Standard feature (taglie 0072 - 0702)

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.

OPTIONS

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.

5.1 GENERAL TECHNICAL DATA NX-C / K

[SI System]

NX-C / K			0072	0092	0102	0122	0152	0182	0202	0232	0272	0302
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	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	17,76	22,48	26,53	30,29	38,46	45,45	51,78	58,09	66,80	75,49
Total power input	(1)	kW	6,520	8,660	9,440	11,18	13,54	15,48	18,39	21,20	23,41	27,78
EER	(1)	kW/kW	2,730	2,598	2,807	2,705	2,852	2,935	2,815	2,741	2,855	2,716
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	17,70	22,40	26,50	30,20	38,40	45,40	51,70	58,00	66,70	75,40
EER	(2)(3)	kW/kW	2,900	2,740	3,020	2,880	3,040	3,160	3,000	2,900	3,050	2,880
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	18,43	23,32	27,52	31,43	39,90	47,15	53,72	60,27	69,31	78,32
Total power input	(4)	kW	6,322	8,403	9,149	10,83	13,13	15,01	17,83	20,55	22,68	26,93
Desuperheater heating capacity	(4)	kW	5,052	6,552	7,427	8,899	10,39	11,94	14,31	16,57	18,70	21,80
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)	l/s	0,849	1,075	1,269	1,449	1,839	2,173	2,476	2,778	3,194	3,610
Pressure drop at the heat exchanger	(1)	kPa	24,8	24,4	25,1	25,5	27,3	24,9	25,3	25,6	25,3	25,9
HEAT RECOVERY EX. USER SIDE												
Water flow	(4)	l/s	0,244	0,316	0,358	0,430	0,502	0,577	0,691	0,800	0,903	1,052
Pressure drop at the heat exchanger	(4)	kPa	2,92	4,92	6,32	9,07	4,52	5,97	8,57	11,5	8,78	11,9
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity steps		N°	2	2	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	3,50	3,70	4,10	4,20	7,30	8,30	9,20	9,40	10,7	11,1
Oil charge		kg	2,70	2,70	2,70	3,30	3,90	5,50	5,50	6,30	7,30	7,40
FANS												
Quantity		N°	1	1	1	1	2	2	2	2	2	3
Air flow		m³/s	2,08	2,50	3,33	3,47	4,44	5,42	5,69	5,97	7,50	8,06
Available static pressure		Pa	120	120	120	120	120	120	120	120	120	120
Fans power input		kW	0,86	1,32	1,12	1,21	0,95	1,05	1,18	1,32	1,23	1,12
NOISE LEVEL												
Sound power level in cooling	(5)(6)	dB(A)	83	88	79	80	88	85	86	87	83	87
SIZE AND WEIGHT												
A	(7)	mm	1500	1500	1500	1500	2480	2480	2480	2480	2480	2480
B	(7)	mm	900	900	900	900	1100	1100	1100	1100	1100	1100
H	(7)	mm	1910	1910	1910	1910	2100	2100	2100	2100	2100	2100
Operating weight	(7)	kg	380	380	400	410	680	710	720	740	800	820

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
3 Values in compliance with EN14511
4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
5 Total sound power of fans, as declared by the manufacturer, at the rated speed of rotation and a nominal available static pressure on the delivery side.
6 Sound power level in cooling, outdoors.
7 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

GENERAL TECHNICAL DATA NX-C / K

[SI System]

NX-C / K			0352	0402	0452	0502	0602	0702	0524	0604	0704	0804
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	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	85,51	97,63	110,0	125,0	155,7	178,1	127,2	148,4	171,2	191,2
Total power input	(1)	kW	32,71	35,09	40,24	46,00	58,51	68,14	49,02	55,46	65,44	75,91
EER	(1)	kW/kW	2,615	2,781	2,736	2,717	2,662	2,615	2,596	2,674	2,618	2,519
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	85,40	97,50	109,9	124,8	155,4	177,8	126,9	148,2	170,9	190,9
EER	(2)(3)	kW/kW	2,760	2,960	2,890	2,870	2,810	2,750	2,730	2,820	2,760	2,650
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	88,72	101,3	114,2	129,7	161,5	184,8	131,9	154,0	177,6	198,4
Total power input	(4)	kW	31,71	33,98	38,97	44,60	56,67	66,06	47,54	53,71	63,45	73,62
Desuperheater heating capacity	(4)	kW	25,42	28,24	32,49	35,63	46,91	52,95	37,72	44,58	50,86	58,33
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)	l/s	4,089	4,669	5,262	5,978	7,445	8,518	6,080	7,098	8,188	9,143
Pressure drop at the heat exchanger	(1)	kPa	25,7	25,3	25,4	25,4	25,6	26,3	25,6	27,0	25,7	26,1
HEAT RECOVERY EX. USER SIDE												
Water flow	(4)	l/s	1,227	1,363	1,568	1,720	2,264	2,556	1,821	2,152	2,455	2,816
Pressure drop at the heat exchanger	(4)	kPa	11,1	13,7	10,6	12,8	14,7	13,9	17,8	24,9	22,1	29,1
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	4	4	4	4
Number of capacity steps		N°	2	2	2	2	2	2	4	4	4	4
No. Circuits		N°	1	1	1	1	1	1	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	25	25	25	25
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	12,0	14,1	14,8	18,6	20,0	23,5	21,0	22,3	26,3	28,4
Oil charge		kg	8,90	10,3	12,6	15,0	13,9	13,9	14,3	14,9	17,7	20,5
FANS												
Quantity		N°	3	3	3	4	4	6	4	4	6	6
Air flow		m³/s	8,89	10,56	11,11	12,50	15,83	18,06	13,06	15,28	17,78	19,44
Available static pressure		Pa	120	120	120	120	120	120	120	120	120	120
Fans power input		kW	1,41	1,15	1,28	1,52	1,49	1,47	1,69	1,38	1,41	1,76
NOISE LEVEL												
Sound power level in cooling	(5)(6)	dB(A)	89	84	85	91	88	92	92	87	92	94
SIZE AND WEIGHT												
A	(7)	mm	2480	2980	2980	3970	3970	4670	3970	3970	4670	4670
B	(7)	mm	1100	1260	1260	1260	1260	1260	1260	1260	1260	1260
H	(7)	mm	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
Operating weight	(7)	kg	890	1080	1110	1290	1380	1560	1250	1350	1640	1780

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
3 Values in compliance with EN14511
4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
5 Total sound power of fans, as declared by the manufacturer, at the rated speed of rotation and a nominal available static pressure on the delivery side.
6 Sound power level in cooling, outdoors.
7 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

GENERAL TECHNICAL DATA NX-C / K

[SI System]

NX-C / K			0904	1004	1104	1204
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
COOLING ONLY (GROSS VALUE)						
Cooling capacity	(1)	kW	220,1	245,7	281,7	291,1
Total power input	(1)	kW	80,49	91,18	101,8	115,2
EER	(1)	kW/kW	2,734	2,694	2,767	2,527
COOLING ONLY (EN14511 VALUE)						
Cooling capacity	(2)(3)	kW	219,7	245,4	281,4	290,8
EER	(2)(3)	kW/kW	2,890	2,840	2,900	2,630
COOLING WITH PARTIAL RECOVERY						
Cooling capacity	(4)	kW	228,3	254,9	292,2	302,1
Total power input	(4)	kW	77,95	88,31	98,54	111,5
Desuperheater heating capacity	(4)	kW	64,78	73,14	82,10	94,12
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN COOLING						
Water flow	(1)	l/s	10,52	11,75	13,47	13,92
Pressure drop at the heat exchanger	(1)	kPa	26,1	26,1	23,5	25,1
HEAT RECOVERY EX. USER SIDE						
Water flow	(4)	l/s	3,127	3,531	3,963	4,543
Pressure drop at the heat exchanger	(4)	kPa	21,0	26,8	33,8	29,4
REFRIGERANT CIRCUIT						
Compressors nr.		N°	4	4	4	4
Number of capacity steps		N°	4	4	4	4
No. Circuits		N°	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25
Refrigerant			R410A	R410A	R410A	R410A
Refrigerant charge		kg	32,3	34,6	86,0	86,0
Oil charge		kg	25,2	29,9	28,8	28,8
FANS						
Quantity		N°	6	6	6	6
Air flow		m³/s	22,50	24,17	24,17	24,17
Available static pressure		Pa	120	120	120	120
Fans power input		kW	1,32	1,54	1,63	1,63
NOISE LEVEL						
Sound power level in cooling	(5)(6)	dB(A)	88	90	90	90
SIZE AND WEIGHT						
A	(7)	mm	5670	5670	5670	5670
B	(7)	mm	1260	1260	1260	1260
H	(7)	mm	2100	2100	2100	2100
Operating weight	(7)	kg	2060	2140	2530	2580

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
3 Values in compliance with EN14511
4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
5 Total sound power of fans, as declared by the manufacturer, at the rated speed of rotation and a nominal available static pressure on the delivery side.
6 Sound power level in cooling, outdoors.
7 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

GENERAL TECHNICAL DATA NX-C / SL-K

[SI System]

NX-C / SL-K			0072	0092	0102	0122	0152	0182	0202	0232	0272	0302
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	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	17,43	21,89	25,62	29,28	37,48	44,40	51,20	56,83	65,37	73,49
Total power input	(1)	kW	6,300	8,240	9,400	11,13	13,06	14,97	17,86	20,56	23,43	26,82
EER	(1)	kW/kW	2,762	2,658	2,723	2,640	2,863	2,960	2,860	2,757	2,795	2,743
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	17,40	21,80	25,60	29,20	37,40	44,30	51,10	56,70	65,30	73,40
EER	(2)(3)	kW/kW	2,960	2,810	2,870	2,760	3,050	3,170	3,040	2,920	2,950	2,880
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	18,08	22,71	26,58	30,38	38,89	46,07	53,12	58,96	67,82	76,25
Total power input	(4)	kW	6,095	7,970	9,088	10,76	12,64	14,48	17,28	19,89	22,67	25,93
Desuperheater heating capacity	(4)	kW	5,231	6,873	7,944	9,453	10,84	12,43	14,84	17,15	19,33	22,68
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)	l/s	0,834	1,047	1,225	1,400	1,792	2,123	2,448	2,718	3,126	3,514
Pressure drop at the heat exchanger	(1)	kPa	23,9	23,1	23,5	23,9	25,9	23,8	24,8	24,5	24,2	24,5
HEAT RECOVERY EX. USER SIDE												
Water flow	(4)	l/s	0,252	0,332	0,383	0,456	0,523	0,600	0,717	0,828	0,933	1,095
Pressure drop at the heat exchanger	(4)	kPa	3,13	5,41	7,23	10,2	4,91	6,46	9,22	12,3	9,38	12,9
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity steps		N°	2	2	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	3,50	3,70	6,80	7,00	7,30	8,30	9,20	9,40	11,6	12,0
Oil charge		kg	2,70	2,70	2,70	3,30	3,90	5,50	5,50	6,30	7,30	7,40
FANS												
Quantity		N°	2	2	2	2	2	3	3	3	3	3
Air flow		m³/s	1,81	2,08	2,22	2,36	3,61	4,44	4,86	5,14	6,11	6,39
Available static pressure		Pa	120	120	120	120	120	120	120	120	120	120
Fans power input		kW	0,22	0,27	0,25	0,27	0,46	0,35	0,41	0,45	0,59	0,47
NOISE LEVEL												
Sound power level in cooling	(5)(6)	dB(A)	68	71	71	73	76	74	76	77	81	74
SIZE AND WEIGHT												
A	(7)	mm	1500	1500	2480	2480	2480	2480	2480	2480	2980	2980
B	(7)	mm	900	900	1100	1100	1100	1100	1100	1100	1260	1260
H	(7)	mm	1910	1910	2100	2100	2100	2100	2100	2100	2100	2100
Operating weight	(7)	kg	450	450	690	700	730	790	790	810	930	980

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
3 Values in compliance with EN14511
4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
5 Total sound power of fans, as declared by the manufacturer, at the rated speed of rotation and a nominal available static pressure on the delivery side.
6 Sound power level in cooling, outdoors.
7 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

GENERAL TECHNICAL DATA NX-C / SL-K

[SI System]

NX-C / SL-K			0352	0402	0452	0502	0552	0602	0524	0604	0704	0804
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	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	82,99	94,78	106,9	122,4	136,4	150,5	124,0	144,5	166,2	185,1
Total power input	(1)	kW	31,41	34,89	39,99	44,04	51,56	58,94	46,78	55,19	62,85	72,35
EER	(1)	kW/kW	2,643	2,716	2,672	2,782	2,643	2,555	2,650	2,618	2,642	2,557
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	82,90	94,60	106,7	122,2	136,2	150,2	123,8	144,3	165,9	184,8
EER	(2)(3)	kW/kW	2,770	2,860	2,800	2,920	2,770	2,670	2,780	2,740	2,770	2,670
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	86,10	98,33	110,9	127,0	141,5	156,1	128,6	149,9	172,4	192,0
Total power input	(4)	kW	30,37	33,73	38,66	42,60	49,87	57,01	45,24	53,37	60,76	69,95
Desuperheater heating capacity	(4)	kW	26,59	29,57	33,98	36,81	43,17	49,29	39,15	46,34	53,21	61,31
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)	l/s	3,969	4,533	5,111	5,852	6,521	7,196	5,929	6,911	7,946	8,851
Pressure drop at the heat exchanger	(1)	kPa	24,2	23,9	23,9	24,4	24,4	23,9	24,3	25,6	24,2	24,5
HEAT RECOVERY EX. USER SIDE												
Water flow	(4)	l/s	1,284	1,427	1,640	1,777	2,084	2,379	1,890	2,237	2,568	2,960
Pressure drop at the heat exchanger	(4)	kPa	12,1	15,0	11,6	13,7	12,4	16,2	19,2	26,9	24,2	32,1
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	4	4	4	4
Number of capacity steps		N°	2	2	2	2	2	2	4	4	4	4
No. Circuits		N°	1	1	1	1	1	1	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	25	25	25	25
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	12,8	16,8	17,3	18,6	19,2	21,1	21,0	23,1	27,6	29,7
Oil charge		kg	8,90	10,3	12,6	15,0	14,4	13,9	14,3	14,9	17,7	20,5
FANS												
Quantity		N°	3	4	4	4	4	6	4	4	6	6
Air flow		m³/s	6,94	8,06	8,61	10,83	11,67	12,22	11,11	12,22	13,89	15,00
Available static pressure		Pa	120	120	120	120	120	120	120	120	120	120
Fans power input		kW	0,54	0,44	0,48	0,70	0,80	0,62	0,73	0,82	0,54	0,61
NOISE LEVEL												
Sound power level in cooling	(5)(6)	dB(A)	76	74	75	80	82	84	81	83	79	80
SIZE AND WEIGHT												
A	(7)	mm	2980	3970	3970	3970	3970	4670	3970	4670	5670	5670
B	(7)	mm	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260
H	(7)	mm	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
Operating weight	(7)	kg	1060	1220	1380	1400	1430	1610	1370	1550	1960	2110

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
3 Values in compliance with EN14511
4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
5 Total sound power of fans, as declared by the manufacturer, at the rated speed of rotation and a nominal available static pressure on the delivery side.
6 Sound power level in cooling, outdoors.
7 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

GENERAL TECHNICAL DATA NX-C / SL-K

[SI System]

NX-C / SL-K			0904	1004
Power supply		V/ph/Hz	400/3/50	400/3/50
PERFORMANCE				
COOLING ONLY (GROSS VALUE)				
Cooling capacity	(1)	kW	222,3	243,4
Total power input	(1)	kW	77,39	88,51
EER	(1)	kW/kW	2,872	2,750
COOLING ONLY (EN14511 VALUE)				
Cooling capacity	(2)(3)	kW	221,9	243,0
EER	(2)(3)	kW/kW	3,020	2,870
COOLING WITH PARTIAL RECOVERY				
Cooling capacity	(4)	kW	230,6	252,5
Total power input	(4)	kW	74,89	85,63
Desuperheater heating capacity	(4)	kW	63,78	73,38
EXCHANGERS				
HEAT EXCHANGER USER SIDE IN COOLING				
Water flow	(1)	l/s	10,63	11,64
Pressure drop at the heat exchanger	(1)	kPa	26,6	25,6
HEAT RECOVERY EX. USER SIDE				
Water flow	(4)	l/s	3,079	3,542
Pressure drop at the heat exchanger	(4)	kPa	20,4	27,0
REFRIGERANT CIRCUIT				
Compressors nr.		N°	4	4
Number of capacity steps		N°	4	4
No. Circuits		N°	2	2
Regulation			STEPS	STEPS
Min. capacity step		%	25	25
Refrigerant			R410A	R410A
Refrigerant charge		kg	82,6	84,3
Oil charge		kg	25,2	29,9
FANS				
Quantity		N°	6	6
Air flow		m³/s	19,17	19,72
Available static pressure		Pa	120	120
Fans power input		kW	0,99	1,05
NOISE LEVEL				
Sound power level in cooling	(5)(6)	dB(A)	86	86
SIZE AND WEIGHT				
A	(7)	mm	5670	5670
B	(7)	mm	1260	1260
H	(7)	mm	2100	2100
Operating weight	(7)	kg	2550	2600

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
3 Values in compliance with EN14511
4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
5 Total sound power of fans, as declared by the manufacturer, at the rated speed of rotation and a nominal available static pressure on the delivery side.
6 Sound power level in cooling, outdoors.
7 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

GENERAL TECHNICAL DATA NX-C / A

[SI System]

NX-C / A			0072	0092	0102	0122	0152	0182	0202	0232	0272	0302
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	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	18,11	22,91	27,39	31,64	38,83	46,00	53,05	59,17	67,76	77,18
Total power input	(1)	kW	6,180	8,070	9,080	10,82	13,12	14,97	17,79	20,44	23,65	26,20
EER	(1)	kW/kW	2,929	2,838	3,018	2,926	2,962	3,067	2,978	2,902	2,873	2,947
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	18,10	22,90	27,30	31,60	38,70	45,90	52,90	59,10	67,60	77,00
EER	(2)(3)	kW/kW	3,220	3,080	3,300	3,170	3,200	3,370	3,230	3,110	3,080	3,170
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	18,79	23,77	28,42	32,83	40,29	47,73	55,04	61,39	70,30	80,07
Total power input	(4)	kW	5,990	7,822	8,808	10,50	12,72	14,51	17,24	19,81	22,93	25,37
Desuperheater heating capacity	(4)	kW	4,856	6,329	6,945	8,194	10,23	11,70	13,98	16,08	18,27	21,06
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)	l/s	0,866	1,096	1,310	1,513	1,857	2,200	2,537	2,830	3,240	3,691
Pressure drop at the heat exchanger	(1)	kPa	25,8	25,3	26,8	27,9	27,8	25,5	26,6	26,6	26,0	27,1
HEAT RECOVERY EX. USER SIDE												
Water flow	(4)	l/s	0,234	0,305	0,335	0,396	0,494	0,565	0,675	0,776	0,882	1,016
Pressure drop at the heat exchanger	(4)	kPa	2,70	4,59	5,52	7,69	4,38	5,73	8,18	10,8	8,38	11,1
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity steps		N°	2	2	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	3,50	3,70	6,80	7,00	7,30	8,30	9,20	9,40	11,6	12,0
Oil charge		kg	2,70	2,70	2,70	3,30	3,90	5,50	5,50	6,30	7,30	7,40
FANS												
Quantity		N°	2	2	2	2	2	3	3	3	3	3
Air flow		m³/s	2,50	2,92	3,75	4,17	4,86	6,11	6,53	6,94	8,06	9,17
Available static pressure		Pa	120	120	120	120	120	120	120	120	120	120
Fans power input		kW	0,37	0,49	0,65	0,82	0,83	0,62	0,71	0,81	1,06	0,87
NOISE LEVEL												
Sound power level in cooling	(5)(6)	dB(A)	74	78	84	86	83	81	82	84	87	82
SIZE AND WEIGHT												
A	(7)	mm	1500	1500	2480	2480	2480	2480	2480	2480	2980	2980
B	(7)	mm	900	900	1100	1100	1100	1100	1100	1100	1260	1260
H	(7)	mm	1910	1910	2100	2100	2100	2100	2100	2100	2100	2100
Operating weight	(7)	kg	450	450	690	700	730	790	790	810	930	980

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
3 Values in compliance with EN14511
4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
5 Total sound power of fans, as declared by the manufacturer, at the rated speed of rotation and a nominal available static pressure on the delivery side.
6 Sound power level in cooling, outdoors.
7 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

GENERAL TECHNICAL DATA NX-C / A

[SI System]

NX-C / A			0352	0402	0452	0502	0552	0602	0702	0524	0604	0704
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	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	87,21	99,82	113,0	126,1	141,0	158,5	180,4	127,2	150,0	173,5
Total power input	(1)	kW	30,54	33,75	38,57	43,51	50,90	58,70	67,15	46,22	54,47	61,81
EER	(1)	kW/kW	2,859	2,953	2,927	2,899	2,770	2,700	2,685	2,753	2,752	2,807
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	87,10	99,60	112,8	125,8	140,7	158,2	180,1	126,9	149,8	173,2
EER	(2)(3)	kW/kW	3,050	3,190	3,130	3,090	2,930	2,860	2,840	2,920	2,910	3,000
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	90,48	103,6	117,2	130,8	146,3	164,5	187,2	131,9	155,6	180,0
Total power input	(4)	kW	29,57	32,68	37,35	42,13	49,29	56,91	65,11	44,74	52,75	59,86
Desuperheater heating capacity	(4)	kW	24,66	27,27	31,18	35,16	41,08	45,65	51,96	37,72	43,87	49,82
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)	l/s	4,171	4,774	5,402	6,028	6,742	7,580	8,628	6,080	7,174	8,298
Pressure drop at the heat exchanger	(1)	kPa	26,7	26,5	26,7	25,9	26,1	26,5	27,0	25,6	27,6	26,4
HEAT RECOVERY EX. USER SIDE												
Water flow	(4)	l/s	1,191	1,316	1,505	1,697	1,983	2,204	2,508	1,821	2,118	2,405
Pressure drop at the heat exchanger	(4)	kPa	10,4	12,7	9,81	12,5	11,3	13,9	13,4	17,8	24,1	21,2
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	4	4	4
Number of capacity steps		N°	2	2	2	2	2	2	2	4	4	4
No. Circuits		N°	1	1	1	1	1	1	1	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	50	25	25	25
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	12,8	16,8	17,3	18,6	19,2	21,1	25,3	21,0	23,1	27,6
Oil charge		kg	8,90	10,3	12,6	15,0	14,4	13,9	13,9	14,3	14,9	17,7
FANS												
Quantity		N°	3	4	4	4	4	6	6	4	4	6
Air flow		m³/s	9,72	11,67	12,50	13,33	14,44	16,94	18,61	13,06	15,56	19,72
Available static pressure		Pa	120	120	120	120	120	120	120	120	120	120
Fans power input		kW	0,97	0,80	0,91	1,03	1,22	1,26	1,49	0,99	1,33	1,00
NOISE LEVEL												
Sound power level in cooling	(5)(6)	dB(A)	83	82	83	84	86	91	93	84	87	86
SIZE AND WEIGHT												
A	(7)	mm	2980	3970	3970	3970	3970	4670	5670	3970	4670	5670
B	(7)	mm	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260
H	(7)	mm	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
Operating weight	(7)	kg	1060	1220	1380	1400	1430	1610	1790	1370	1550	1960

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
3 Values in compliance with EN14511
4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
5 Total sound power of fans, as declared by the manufacturer, at the rated speed of rotation and a nominal available static pressure on the delivery side.
6 Sound power level in cooling, outdoors.
7 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

GENERAL TECHNICAL DATA NX-C / A

[SI System]

NX-C / A			0804	0904	1004
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50
PERFORMANCE					
COOLING ONLY (GROSS VALUE)					
Cooling capacity	(1)	kW	193,4	225,0	251,1
Total power input	(1)	kW	70,18	77,69	87,12
EER	(1)	kW/kW	2,755	2,896	2,883
COOLING ONLY (EN14511 VALUE)					
Cooling capacity	(2)(3)	kW	193,1	224,6	250,8
EER	(2)(3)	kW/kW	2,920	3,060	3,030
COOLING WITH PARTIAL RECOVERY					
Cooling capacity	(4)	kW	200,7	233,4	260,5
Total power input	(4)	kW	67,93	75,25	84,35
Desuperheater heating capacity	(4)	kW	57,29	62,28	70,70
EXCHANGERS					
HEAT EXCHANGER USER SIDE IN COOLING					
Water flow	(1)	l/s	9,249	10,76	12,01
Pressure drop at the heat exchanger	(1)	kPa	26,7	27,3	27,3
HEAT RECOVERY EX. USER SIDE					
Water flow	(4)	l/s	2,765	3,006	3,413
Pressure drop at the heat exchanger	(4)	kPa	28,0	19,4	25,1
REFRIGERANT CIRCUIT					
Compressors nr.		N°	4	4	4
Number of capacity steps		N°	4	4	4
No. Circuits		N°	2	2	2
Regulation			STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25
Refrigerant			R410A	R410A	R410A
Refrigerant charge		kg	29,7	82,6	84,3
Oil charge		kg	20,5	25,2	29,9
FANS					
Quantity		N°	6	6	6
Air flow		m³/s	19,72	21,94	21,94
Available static pressure		Pa	120	120	120
Fans power input		kW	1,00	1,32	1,32
NOISE LEVEL					
Sound power level in cooling	(5)(6)	dB(A)	86	88	88
SIZE AND WEIGHT					
A	(7)	mm	5670	5670	5670
B	(7)	mm	1260	1260	1260
H	(7)	mm	2100	2100	2100
Operating weight	(7)	kg	2110	2550	2600

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
3 Values in compliance with EN14511
4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
5 Total sound power of fans, as declared by the manufacturer, at the rated speed of rotation and a nominal available static pressure on the delivery side.
6 Sound power level in cooling, outdoors.
7 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

GENERAL TECHNICAL DATA

FANS PERFORMANCES (1)

VER.	SIZE	FANS N.	TOTAL AIR FLOW [m³/h]	DESCRIPTION										
/K	0072	1	7500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,64	0,71	0,78	0,86	0,93	1,01	1,09	1,17	1,26	1,34
				Sound power level	dB(A)	84	83	83	83	83	83	83	83	83	83
				Fans speed	r.p.m	1154	1180	1206	1232	1258	1283	1308	1332	1357	1381
/K	0092	1	9000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,06	1,15	1,23	1,32	1,41	1,50	1,59	1,68	1,78	1,87
				Sound power level	dB(A)	88	88	88	88	88	88	88	88	88	88
				Fans speed	r.p.m	1374	1396	1418	1440	1461	1483	1504	1525	1546	1567
/K	0102	1	12000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,76	0,87	0,99	1,12	1,24	1,37	1,50	1,64	1,78	1,92
				Sound power level	dB(A)	77	78	78	79	79	79	79	79	79	80
				Fans speed	r.p.m	903	932	961	989	1016	1044	1070	1097	1123	1149
/K	0122	1	12500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,84	0,96	1,09	1,21	1,35	1,48	1,62	1,76	1,90	2,04
				Sound power level	dB(A)	78	78	78	80	80	80	80	80	80	80
				Fans speed	r.p.m	938	966	993	1020	1047	1073	1099	1125	1150	1175
/K	0152	2	16000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,44	1,59	1,74	1,90	2,06	2,22	2,39	2,56	2,73	2,90
				Sound power level	dB(A)	88	88	88	88	87	87	87	87	87	87
				Fans speed	r.p.m	1213	1238	1262	1287	1311	1335	1359	1382	1405	1428
/K	0182	2	19500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,56	1,73	1,91	2,10	2,29	2,48	2,68	2,88	3,08	3,29
				Sound power level	dB(A)	85	85	85	85	86	86	86	86	86	86
				Fans speed	r.p.m	1158	1185	1211	1237	1263	1288	1313	1338	1363	1387
/K	0202	2	20500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,79	1,97	2,16	2,36	2,55	2,75	2,96	3,17	3,38	3,59
				Sound power level	dB(A)	86	86	86	86	87	87	87	87	87	87
				Fans speed	r.p.m	1215	1240	1265	1290	1314	1339	1363	1387	1410	1434
/K	0232	2	21500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	2,04	2,24	2,43	2,63	2,84	3,05	3,26	3,48	3,70	3,92
				Sound power level	dB(A)	87	87	87	87	88	88	88	88	88	88
				Fans speed	r.p.m	1271	1295	1319	1343	1367	1390	1413	1436	1459	1481
/K	0272	2	27000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,69	1,94	2,20	2,46	2,73	3,00	3,28	3,57	3,86	4,16
				Sound power level	dB(A)	83	83	83	83	83	83	83	84	84	84
				Fans speed	r.p.m	968	994	1020	1046	1071	1097	1121	1146	1170	1194
/K	0302	3	29000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	2,54	2,81	3,09	3,37	3,65	3,95	4,25	4,55	4,86	5,18
				Sound power level	dB(A)	87	87	87	87	87	87	87	88	88	88
				Fans speed	r.p.m	1175	1202	1228	1254	1279	1305	1330	1355	1379	1403
/K	0352	3	32000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	3,34	3,64	3,94	4,24	4,55	4,87	5,19	5,52	5,86	6,19
				Sound power level	dB(A)	89	89	89	89	89	89	89	89	90	90
				Fans speed	r.p.m	1291	1315	1339	1362	1386	1409	1432	1455	1477	1500
/K	0402	3	38000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	2,35	2,71	3,07	3,45	3,84	4,24	4,65	5,06	5,49	5,92
				Sound power level	dB(A)	83	83	83	84	84	84	84	84	85	85
				Fans speed	r.p.m	928	956	984	1011	1037	1064	1089	1115	1140	1165
/K	0452	3	40000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	2,69	3,07	3,45	3,85	4,25	4,66	5,09	5,52	5,96	6,41
				Sound power level	dB(A)	85	85	85	85	85	85	85	85	86	86
				Fans speed	r.p.m	974	1000	1027	1052	1078	1103	1128	1152	1177	1201
/K	0502	4	45000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	4,85	5,25	5,66	6,09	6,51	6,95	7,39	7,84	8,30	8,77
				Sound power level	dB(A)	91	91	91	91	92	92	92	92	92	92
				Fans speed	r.p.m	1340	1363	1386	1408	1431	1453	1475	1497	1519	1540

Notes:
(1) For higher external static pressure please contact our Sales Departement

GENERAL TECHNICAL DATA

FANS PERFORMANCES (1)

VER.	SIZE	FANS N.	TOTAL AIR FLOW [m³/h]	DESCRIPTION										
/K	0602	4	57000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	4,32	4,85	5,39	5,95	6,52	7,10	7,69	8,29	8,91	9,53
				Sound power level	dB(A)	87	87	87	88	88	88	88	88	88	88
				Fans speed	r.p.m	1038	1063	1087	1111	1135	1159	1183	1206	1229	1252
/K	0702	6	65000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	6,98	7,58	8,19	8,81	9,44	10,08	10,73	11,40	12,07	12,76
				Sound power level	dB(A)	92	92	92	92	93	93	93	93	93	93
				Fans speed	r.p.m	1310	1334	1357	1381	1404	1427	1449	1472	1494	1516
/K	0524	4	47000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	5,48	5,90	6,33	6,77	7,21	7,66	8,12	8,59	9,06	9,54
				Sound power level	dB(A)	92	92	92	92	93	93	93	93	93	93
				Fans speed	r.p.m	1397	1419	1441	1463	1484	1506	1527	1548	1569	1590
/K	0604	4	55000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	3,92	4,43	4,96	5,50	6,05	6,62	7,20	7,78	8,38	8,99
				Sound power level	dB(A)	86	86	86	87	87	87	87	87	87	88
				Fans speed	r.p.m	1003	1029	1055	1080	1104	1129	1153	1177	1201	1224
/K	0704	6	64000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	6,68	7,27	7,87	8,48	9,11	9,74	10,39	11,05	11,71	12,39
				Sound power level	dB(A)	92	92	92	92	92	92	92	92	93	93
				Fans speed	r.p.m	1291	1315	1339	1362	1386	1409	1432	1455	1477	1500
/K	0804	6	70000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	8,60	9,24	9,89	10,55	11,22	11,91	12,60	13,30	14,02	14,74
				Sound power level	dB(A)	94	94	94	94	94	94	94	94	94	94
				Fans speed	r.p.m	1407	1429	1451	1472	1494	1515	1537	1558	1579	1599
/K	0904	6	81000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	5,57	6,33	7,10	7,90	8,72	9,55	10,41	11,28	12,16	13,07
				Sound power level	dB(A)	88	88	88	88	88	88	88	89	89	89
				Fans speed	r.p.m	985	1012	1037	1063	1088	1113	1138	1162	1186	1210
/K	1004	6	87000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	6,76	7,56	8,39	9,24	10,10	10,98	11,88	12,80	13,73	/
				Sound power level	dB(A)	89	89	89	90	90	90	90	90	90	/
				Fans speed	r.p.m	1054	1078	1103	1126	1150	1173	1197	1219	1242	/
/K	1104	6	87000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	7,24	8,06	8,90	9,76	10,63	11,52	12,43	13,36	14,30	/
				Sound power level	dB(A)	89	89	89	90	90	90	90	90	90	/
				Fans speed	r.p.m	1069	1093	1117	1141	1164	1187	1210	1233	1256	/
/K	1204	6	87000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	7,24	8,06	8,90	9,76	10,63	11,52	12,43	13,36	14,30	/
				Sound power level	dB(A)	89	89	89	90	90	90	90	90	90	/
				Fans speed	r.p.m	1069	1093	1117	1141	1164	1187	1210	1233	1256	/

Notes:
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FANS PERFORMANCES (1)

VER.	SIZE	FANS N.	TOTAL AIR FLOW [m³/h]	DESCRIPTION										
/SL-K	0072	2	6500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,20	0,27	0,35	0,44	0,53	0,62	0,72	0,81	0,92	1,02
				Sound power level	dB(A)	68	68	68	68	72	73	74	75	76	77
				Fans speed	r.p.m	584	639	691	741	789	835	879	922	964	1005
/SL-K	0092	2	7500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,28	0,36	0,45	0,54	0,64	0,74	0,84	0,95	1,06	1,17
				Sound power level	dB(A)	71	71	71	71	73	74	75	76	77	78
				Fans speed	r.p.m	656	705	751	796	840	882	923	963	1002	1039
/SL-K	0102	2	8000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,24	0,32	0,41	0,50	0,60	0,70	0,80	0,91	1,02	1,14
				Sound power level	dB(A)	73	72	72	71	73	74	75	76	76	77
				Fans speed	r.p.m	644	692	738	782	825	866	907	946	985	1022
/SL-K	0122	2	8500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,28	0,36	0,45	0,55	0,65	0,75	0,86	0,98	1,09	1,21
				Sound power level	dB(A)	73	73	73	73	74	75	76	76	77	78
				Fans speed	r.p.m	678	724	767	809	851	890	929	967	1004	1040
/SL-K	0152	2	13000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,53	0,65	0,78	0,92	1,06	1,20	1,35	1,51	1,67	1,83
				Sound power level	dB(A)	77	77	77	76	77	78	78	79	79	80
				Fans speed	r.p.m	795	834	872	909	946	981	1016	1050	1083	1116
/SL-K	0182	3	16000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,54	0,70	0,87	1,05	1,24	1,44	1,65	1,86	2,08	2,30
				Sound power level	dB(A)	74	74	74	74	76	77	78	78	79	80
				Fans speed	r.p.m	684	730	775	818	859	900	939	978	1015	1052
/SL-K	0202	3	17500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,67	0,84	1,03	1,22	1,42	1,63	1,84	2,07	2,30	2,53
				Sound power level	dB(A)	76	76	76	76	78	78	79	79	80	81
				Fans speed	r.p.m	739	782	823	863	902	940	977	1014	1049	1084
/SL-K	0232	3	18500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,77	0,95	1,14	1,34	1,55	1,76	1,99	2,22	2,45	2,70
				Sound power level	dB(A)	77	77	77	77	78	79	79	80	81	81
				Fans speed	r.p.m	776	817	856	895	932	968	1004	1039	1073	1107
/SL-K	0272	3	22000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,13	1,33	1,55	1,77	2,00	2,24	2,49	2,74	2,99	3,26
				Sound power level	dB(A)	81	81	81	81	82	82	82	82	83	83
				Fans speed	r.p.m	895	929	963	997	1030	1062	1093	1124	1155	1185
/SL-K	0302	3	23000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,67	0,91	1,16	1,42	1,69	1,98	2,28	2,59	2,90	3,23
				Sound power level	dB(A)	73	73	74	74	75	76	77	78	79	80
				Fans speed	r.p.m	593	638	680	721	761	800	837	874	910	945
/SL-K	0352	3	25000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,82	1,07	1,33	1,61	1,90	2,20	2,51	2,83	3,17	3,51
				Sound power level	dB(A)	74	75	75	76	76	77	78	79	80	81
				Fans speed	r.p.m	637	678	718	756	794	830	866	901	935	968
/SL-K	0402	4	29000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,79	1,09	1,41	1,75	2,11	2,48	2,86	3,26	3,67	4,09
				Sound power level	dB(A)	73	73	74	74	76	77	78	79	80	81
				Fans speed	r.p.m	567	613	658	701	742	782	821	859	896	932
/SL-K	0452	4	31000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,92	1,24	1,57	1,93	2,30	2,68	3,08	3,50	3,92	4,36
				Sound power level	dB(A)	74	74	75	75	77	78	79	80	81	81
				Fans speed	r.p.m	599	643	685	726	766	804	841	878	913	948
/SL-K	0502	4	39000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,60	1,98	2,38	2,79	3,22	3,67	4,12	4,59	5,08	5,57
				Sound power level	dB(A)	79	79	79	80	80	81	81	82	82	83
				Fans speed	r.p.m	732	767	802	836	869	902	933	965	995	1025

Notes:
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FANS PERFORMANCES (1)

VER.	SIZE	FANS N.	TOTAL AIR FLOW [m³/h]	DESCRIPTION											
/SL-K	0552	4	42000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,93	2,34	2,76	3,19	3,64	4,11	4,59	5,08	5,59	6,10
				Sound power level	dB(A)	81	81	81	82	82	82	82	83	83	84
				Fans speed	r.p.m	782	815	848	880	911	942	972	1001	1030	1059
/SL-K	0602	6	44000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	2,41	2,83	3,26	3,72	4,18	4,66	5,16	5,67	6,19	6,72
				Sound power level	dB(A)	84	84	84	84	85	85	85	86	86	86
				Fans speed	r.p.m	908	942	976	1009	1042	1074	1105	1136	1166	1196
/SL-K	0524	4	40000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,71	2,09	2,50	2,92	3,36	3,81	4,27	4,75	5,24	5,74
				Sound power level	dB(A)	80	80	80	81	81	81	82	82	83	83
				Fans speed	r.p.m	749	783	817	850	883	915	946	977	1007	1036
/SL-K	0604	4	44000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,98	2,39	2,82	3,27	3,73	4,20	4,69	5,19	5,70	6,23
				Sound power level	dB(A)	82	82	82	83	83	83	83	83	84	84
				Fans speed	r.p.m	801	833	864	895	925	955	984	1013	1041	1069
/SL-K	0704	6	50000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,63	2,13	2,66	3,22	3,80	4,40	5,03	5,67	6,33	7,01
				Sound power level	dB(A)	77	78	78	79	80	80	81	82	83	84
				Fans speed	r.p.m	637	678	718	756	794	830	866	901	935	968
/SL-K	0804	6	54000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,96	2,50	3,06	3,64	4,25	4,88	5,54	6,21	6,90	7,61
				Sound power level	dB(A)	79	79	80	80	81	81	82	83	83	84
				Fans speed	r.p.m	681	719	757	793	828	863	896	929	962	993
/SL-K	0904	6	69000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	3,90	4,56	5,25	5,96	6,69	7,44	8,21	9,00	9,81	10,63
				Sound power level	dB(A)	84	84	85	86	86	86	86	86	86	87
				Fans speed	r.p.m	861	891	921	950	979	1007	1035	1063	1090	1117
/SL-K	1004	6	71000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	4,20	4,88	5,59	6,31	7,06	7,83	8,61	9,42	10,24	11,07
				Sound power level	dB(A)	85	85	85	86	86	86	86	86	87	87
				Fans speed	r.p.m	884	914	942	971	999	1027	1054	1081	1107	1133

Notes:
(1) For higher external static pressure please contact our Sales Departement

GENERAL TECHNICAL DATA

FANS PERFORMANCES (1)

VER.	SIZE	FANS N.	TOTAL AIR FLOW [m³/h]	DESCRIPTION										
/A	0072	2	9000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,43	0,53	0,63	0,74	0,85	0,96	1,07	1,19	1,32	1,44
				Sound power level	dB(A)	74	74	74	74	76	76	77	78	78	79
				Fans speed	r.p.m	767	809	849	888	926	963	999	1035	1069	1104
/A	0092	2	10500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,64	0,75	0,87	0,99	1,11	1,23	1,36	1,49	1,63	1,77
				Sound power level	dB(A)	78	78	78	78	79	79	79	80	80	81
				Fans speed	r.p.m	881	916	951	986	1019	1052	1085	1117	1148	1179
/A	0102	2	13500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	0,90	1,03	1,16	1,30	1,44	1,58	1,73	1,88	2,03	2,18
				Sound power level	dB(A)	84	84	84	84	84	84	84	84	84	84
				Fans speed	r.p.m	1032	1061	1090	1119	1147	1175	1202	1229	1256	1282
/A	0122	2	15000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,20	1,34	1,49	1,64	1,79	1,94	2,10	2,26	2,43	2,59
				Sound power level	dB(A)	87	86	86	86	86	86	86	86	86	86
				Fans speed	r.p.m	1140	1167	1193	1219	1245	1270	1295	1320	1344	1369
/A	0152	2	17500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,16	1,32	1,48	1,65	1,83	2,00	2,19	2,37	2,56	2,76
				Sound power level	dB(A)	83	83	83	83	83	83	84	84	84	84
				Fans speed	r.p.m	1045	1075	1104	1133	1161	1189	1216	1244	1270	1297
/A	0182	3	22000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,20	1,41	1,63	1,86	2,09	2,33	2,58	2,83	3,09	3,36
				Sound power level	dB(A)	81	81	81	81	82	82	82	83	83	83
				Fans speed	r.p.m	908	942	976	1009	1042	1074	1105	1136	1166	1196
/A	0202	3	23500	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,44	1,66	1,89	2,12	2,37	2,62	2,88	3,14	3,42	3,69
				Sound power level	dB(A)	82	82	82	82	83	83	83	84	84	84
				Fans speed	r.p.m	965	997	1029	1060	1091	1121	1151	1181	1209	1238
/A	0232	3	25000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,69	1,93	2,17	2,42	2,68	2,94	3,21	3,48	3,77	4,05
				Sound power level	dB(A)	83	83	83	83	84	84	84	85	85	85
				Fans speed	r.p.m	1022	1053	1083	1112	1141	1170	1199	1226	1254	1281
/A	0272	3	29000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	2,38	2,64	2,91	3,19	3,47	3,76	4,06	4,36	4,67	4,98
				Sound power level	dB(A)	87	87	87	87	87	87	87	87	88	88
				Fans speed	r.p.m	1158	1185	1211	1238	1263	1289	1314	1339	1364	1388
/A	0302	3	33000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,62	1,94	2,27	2,61	2,96	3,32	3,69	4,07	4,45	4,85
				Sound power level	dB(A)	80	80	81	82	82	82	82	82	83	83
				Fans speed	r.p.m	815	847	878	909	939	968	997	1026	1054	1082
/A	0352	3	35000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,89	2,22	2,57	2,92	3,29	3,66	4,05	4,44	4,84	5,26
				Sound power level	dB(A)	82	82	82	83	83	83	83	83	83	84
				Fans speed	r.p.m	860	890	920	949	978	1006	1033	1061	1088	1114
/A	0402	4	42000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	1,93	2,34	2,76	3,19	3,64	4,11	4,59	5,08	5,59	6,10
				Sound power level	dB(A)	81	81	81	82	82	82	82	83	83	84
				Fans speed	r.p.m	782	815	848	880	911	942	972	1001	1030	1059
/A	0452	4	45000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	2,31	2,73	3,18	3,64	4,11	4,60	5,10	5,62	6,14	6,68
				Sound power level	dB(A)	82	82	82	83	83	83	83	84	84	85
				Fans speed	r.p.m	833	864	895	925	954	983	1012	1040	1067	1095
/A	0502	4	48000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	2,73	3,18	3,65	4,14	4,63	5,14	5,67	6,20	6,75	7,31
				Sound power level	dB(A)	83	83	84	84	84	84	84	85	85	86
				Fans speed	r.p.m	884	913	942	970	998	1026	1053	1079	1106	1132

Notes:
(1) For higher external static pressure please contact our Sales Departement

GENERAL TECHNICAL DATA

FANS PERFORMANCES (1)

VER.	SIZE	FANS N.	TOTAL AIR FLOW [m³/h]	DESCRIPTION										
/A	0552	4	52000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	3,37	3,86	4,36	4,88	5,41	5,95	6,50	7,07	7,65	8,23
				Sound power level	dB(A)	85	85	85	86	86	86	86	86	86	87
				Fans speed	r.p.m	952	979	1006	1032	1058	1084	1109	1134	1159	1184
/A	0602	6	61000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	5,85	6,41	6,98	7,57	8,17	8,78	9,40	10,04	10,68	11,34
				Sound power level	dB(A)	91	91	91	91	91	91	91	92	92	92
				Fans speed	r.p.m	1233	1258	1283	1308	1332	1357	1381	1404	1428	1451
/A	0702	6	67000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	7,10	7,71	8,32	8,95	9,59	10,24	10,90	11,57	12,25	12,94
				Sound power level	dB(A)	93	93	93	93	93	93	93	93	93	94
				Fans speed	r.p.m	1329	1353	1376	1399	1421	1444	1466	1488	1510	1531
/A	0524	4	47000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	2,58	3,03	3,49	3,96	4,45	4,96	5,47	6,00	6,54	7,09
				Sound power level	dB(A)	83	83	83	84	84	84	84	84	85	85
				Fans speed	r.p.m	867	897	926	955	983	1011	1039	1066	1093	1119
/A	0604	4	56000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	3,74	4,25	4,77	5,31	5,86	6,43	7,00	7,59	8,19	8,80
				Sound power level	dB(A)	87	87	87	87	87	87	87	87	88	88
				Fans speed	r.p.m	1002	1027	1052	1077	1102	1126	1150	1174	1197	1221
/A	0704	6	71000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	3,93	4,60	5,29	6,01	6,75	7,51	8,29	9,08	9,89	10,72
				Sound power level	dB(A)	85	85	85	86	86	86	86	86	87	87
				Fans speed	r.p.m	872	901	931	959	987	1015	1043	1070	1096	1123
/A	0804	6	71000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	3,93	4,60	5,29	6,01	6,75	7,51	8,29	9,08	9,89	10,72
				Sound power level	dB(A)	85	85	85	86	86	86	86	86	87	87
				Fans speed	r.p.m	872	901	931	959	987	1015	1043	1070	1096	1123
/A	0904	6	79000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	5,58	6,33	7,10	7,89	8,70	9,53	10,38	11,24	12,12	13,02
				Sound power level	dB(A)	87	87	87	88	88	88	88	88	89	89
				Fans speed	r.p.m	976	1003	1029	1055	1081	1106	1131	1155	1180	1204
/A	1004	6	79000	**External static pressure**	**Pa**	**30**	**60**	**90**	**120**	**150**	**180**	**210**	**240**	**270**	**300**
				TOT fans power input	kW	5,58	6,33	7,10	7,89	8,70	9,53	10,38	11,24	12,12	13,02
				Sound power level	dB(A)	87	87	87	88	88	88	88	88	89	89
				Fans speed	r.p.m	976	1003	1029	1055	1081	1106	1131	1155	1180	1204

Notes:
(1) For higher external static pressure please contact our Sales Departement

6.1 TECHNICAL DATA SEASONAL EFFICIENCY IN COOLING (EN14825 VALUE)

[SI System]

ENERGY EFFICIENCY

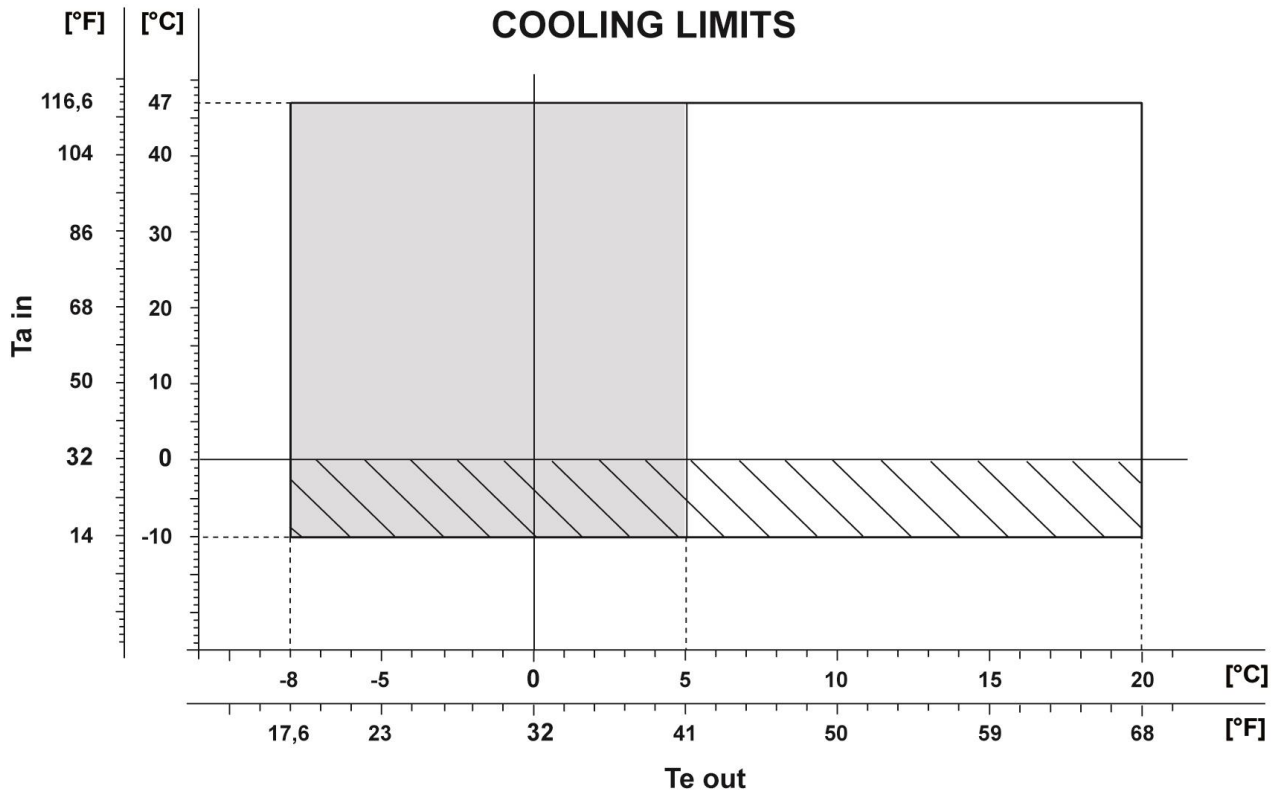
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)
Ambient refrigeration

NX-C / K			0072	0092	0102	0122	0152	0182	0202	0232	0272	0302
Prated,c	(1)	kW	17,7	22,4	26,5	30,2	38,4	45,4	51,7	58,0	66,7	75,4
SEER	(1) (2)	-	4,17	4,10	4,35	4,25	4,27	4,35	4,22	4,14	4,42	4,10
Performance ηs	(1) (3)	%	164,0	161,0	171,0	167,0	168,0	171,0	166,0	162,0	174,0	161,0
NX-C / K			**0352**	**0402**	**0452**	**0502**	**0602**	**0702**	**0524**	**0604**	**0704**	**0804**
Prated,c	(1)	kW	85,4	97,5	109,9	124,8	155,4	177,8	126,9	148,2	170,9	190,9
SEER	(1) (2)	-	4,10	4,16	4,12	4,10	4,10	4,10	4,29	4,37	4,32	4,21
Performance ηs	(1) (3)	%	161,0	163,0	162,0	161,0	161,0	161,0	169,0	172,0	170,0	165,0
NX-C / K			**0904**	**1004**	**1104**	**1204**						
Prated,c	(1)	kW	219,7	245,4	281,4	290,8						
SEER	(1) (2)	-	4,41	4,34	4,28	4,10						
Performance ηs	(1) (3)	%	174,0	171,0	168,0	161,0						

NX-C / SL-K			0072	0092	0102	0122	0152	0182	0202	0232	0272	0302
Prated,c	(1)	kW	17,4	21,8	25,6	29,2	37,4	44,3	51,1	56,7	65,3	73,4
SEER	(1) (2)	-	4,26	4,17	4,18	4,26	4,22	4,43	4,31	4,26	4,36	4,10
Performance ηs	(1) (3)	%	168,0	164,0	164,0	167,0	166,0	174,0	169,0	167,0	172,0	161,0
NX-C / SL-K			**0352**	**0402**	**0452**	**0502**	**0552**	**0602**	**0524**	**0604**	**0704**	**0804**
Prated,c	(1)	kW	82,9	94,6	106,7	122,2	136,2	150,2	123,8	144,3	165,9	184,8
SEER	(1) (2)	-	4,10	4,10	4,10	4,10	4,10	4,10	4,20	4,19	4,31	4,10
Performance ηs	(1) (3)	%	161,0	161,0	161,0	161,0	161,0	161,0	165,0	164,0	169,0	161,0
NX-C / SL-K			**0904**	**1004**								
Prated,c	(1)	kW	221,9	243,0								
SEER	(1) (2)	-	4,53	4,29								
Performance ηs	(1) (3)	%	178,0	169,0								

NX-C / A			0072	0092	0102	0122	0152	0182	0202	0232	0272	0302
Prated,c	(1)	kW	18,1	22,9	27,3	31,6	38,7	45,9	52,9	59,1	67,6	77,0
SEER	(1) (2)	-	4,58	4,47	4,57	4,64	4,45	4,57	4,47	4,48	4,51	4,39
Performance ηs	(1) (3)	%	180,0	176,0	180,0	183,0	175,0	180,0	176,0	176,0	177,0	173,0
NX-C / A			**0352**	**0402**	**0452**	**0502**	**0552**	**0602**	**0702**	**0524**	**0604**	**0704**
Prated,c	(1)	kW	87,1	99,6	112,8	125,8	140,7	158,2	180,1	126,9	149,8	173,2
SEER	(1) (2)	-	4,42	4,40	4,19	4,27	4,28	4,10	4,18	4,39	4,40	4,65
Performance ηs	(1) (3)	%	174,0	173,0	164,0	168,0	168,0	161,0	164,0	173,0	173,0	183,0
NX-C / A			**0804**	**0904**	**1004**							
Prated,c	(1)	kW	193,1	224,6	250,8							
SEER	(1) (2)	-	4,40	4,66	4,45							
Performance ηs	(1) (3)	%	173,0	183,0	175,0							

Notes:
(1) Parameter calculated according to [REGULATION (EU) N. 2016/2281]
(2) Seasonal energy efficiency ratio
(3) Seasonal space cooling energy efficiency
The units highlighted in this publication contain R410A [GWP_{100} 2088] fluorinated greenhouse gases.
Data certified in EUROVENT



Ta in Source (side) heat exchanger air

Te out Plant (side) cooling exchanger water

Required accessories: EVAPORATOR OUTLET WATER TEMPERATURE <5°C (Option 874)

Required accessories if hydronic module is present: ANTIFREEZE PIPING, PUMPS (Option 2432)

SIZE				
NX-C /K /0072	NX-C /K /1204	NX-C /D /K /1104	NX-C /SL-K /1004	NX-C /A /0072
NX-C /K /0092	NX-C /D /K /0072	NX-C /D /K /1204	NX-C /D /SL-K /0072	NX-C /A /0092
NX-C /K /0102	NX-C /D /K /0092	NX-C /SL-K /0072	NX-C /D /SL-K /0092	NX-C /A /0102
NX-C /K /0122	NX-C /D /K /0102	NX-C /SL-K /0092	NX-C /D /SL-K /0102	NX-C /A /0122
NX-C /K /0152	NX-C /D /K /0122	NX-C /SL-K /0102	NX-C /D /SL-K /0122	NX-C /A /0152
NX-C /K /0182	NX-C /D /K /0152	NX-C /SL-K /0122	NX-C /D /SL-K /0152	NX-C /A /0182
NX-C /K /0202	NX-C /D /K /0182	NX-C /SL-K /0152	NX-C /D /SL-K /0182	NX-C /A /0202
NX-C /K /0232	NX-C /D /K /0202	NX-C /SL-K /0182	NX-C /D /SL-K /0202	NX-C /A /0232
NX-C /K /0272	NX-C /D /K /0232	NX-C /SL-K /0202	NX-C /D /SL-K /0232	NX-C /A /0272
NX-C /K /0302	NX-C /D /K /0272	NX-C /SL-K /0232	NX-C /D /SL-K /0272	NX-C /A /0302
NX-C /K /0352	NX-C /D /K /0302	NX-C /SL-K /0272	NX-C /D /SL-K /0302	NX-C /A /0352
NX-C /K /0402	NX-C /D /K /0352	NX-C /SL-K /0302	NX-C /D /SL-K /0352	NX-C /A /0402
NX-C /K /0452	NX-C /D /K /0402	NX-C /SL-K /0352	NX-C /D /SL-K /0402	NX-C /A /0452
NX-C /K /0502	NX-C /D /K /0452	NX-C /SL-K /0402	NX-C /D /SL-K /0452	NX-C /A /0502
NX-C /K /0602	NX-C /D /K /0502	NX-C /SL-K /0452	NX-C /D /SL-K /0502	NX-C /A /0552
NX-C /K /0702	NX-C /D /K /0602	NX-C /SL-K /0502	NX-C /D /SL-K /0552	NX-C /A /0602
NX-C /K /0524	NX-C /D /K /0702	NX-C /SL-K /0552	NX-C /D /SL-K /0602	NX-C /A /0702
NX-C /K /0604	NX-C /D /K /0524	NX-C /SL-K /0602	NX-C /D /SL-K /0524	NX-C /A /0524
NX-C /K /0704	NX-C /D /K /0604	NX-C /SL-K /0524	NX-C /D /SL-K /0604	NX-C /A /0604
NX-C /K /0804	NX-C /D /K /0704	NX-C /SL-K /0604	NX-C /D /SL-K /0704	NX-C /A /0704
NX-C /K /0904	NX-C /D /K /0804	NX-C /SL-K /0704	NX-C /D /SL-K /0804	NX-C /A /0804
NX-C /K /1004	NX-C /D /K /0904	NX-C /SL-K /0804	NX-C /D /SL-K /0904	NX-C /A /0904
NX-C /K /1104	NX-C /D /K /1004	NX-C /SL-K /0904	NX-C /D /SL-K /1004	NX-C /A /1004

SIZE
NX-C /D /A /0072
NX-C /D /A /0092
NX-C /D /A /0102
NX-C /D /A /0122
NX-C /D /A /0152
NX-C /D /A /0182
NX-C /D /A /0202
NX-C /D /A /0232
NX-C /D /A /0272
NX-C /D /A /0302
NX-C /D /A /0352
NX-C /D /A /0402
NX-C /D /A /0452
NX-C /D /A /0502
NX-C /D /A /0552
NX-C /D /A /0602
NX-C /D /A /0702
NX-C /D /A /0524
NX-C /D /A /0604
NX-C /D /A /0704
NX-C /D /A /0804
NX-C /D /A /0904
NX-C /D /A /1004

7.2 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.

7.3 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

8.1 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-C /K /0072	400/3/50	2650	0,583	1,111	1,50	45,0	-	-	-	-
NX-C /K /0092	400/3/50	1629	0,750	1,417	1,90	56,0	-	-	-	-
NX-C /K /0102	400/3/50	1206	0,889	1,667	2,30	66,0	-	-	-	-
NX-C /K /0122	400/3/50	939	1,028	1,889	2,60	76,0	-	-	-	-
NX-C /K /0152	400/3/50	622	1,306	2,417	3,20	96,0	-	-	-	-
NX-C /K /0182	400/3/50	407	1,528	2,833	4,10	114	-	-	-	-
NX-C /K /0202	400/3/50	319	1,750	3,250	4,70	130	-	-	-	-
NX-C /K /0232	400/3/50	256	1,944	3,611	4,40	145	-	-	-	-
NX-C /K /0272	400/3/50	191	2,250	4,167	5,10	167	-	-	-	-
NX-C /K /0302	400/3/50	153	2,528	4,694	5,70	189	-	-	-	-
NX-C /K /0352	400/3/50	118	2,861	5,333	6,50	214	-	-	-	-
NX-C /K /0402	400/3/50	89,7	3,278	6,083	7,50	244	-	-	-	-
NX-C /K /0452	400/3/50	70,7	3,694	6,833	8,50	275	-	-	-	-
NX-C /K /0502	400/3/50	54,9	4,194	7,778	9,70	313	-	-	-	-
NX-C /K /0602	400/3/50	35,6	5,222	9,694	12,3	390	-	-	-	-
NX-C /K /0702	400/3/50	28,0	5,972	11,08	14,1	445	-	-	-	-
NX-C /K /0524	400/3/50	53,4	4,250	7,917	14,0	318	-	-	-	-
NX-C /K /0604	400/3/50	41,4	4,833	8,972	16,1	370	-	-	-	-
NX-C /K /0704	400/3/50	29,6	5,722	10,64	19,6	428	-	-	-	-
NX-C /K /0804	400/3/50	24,1	6,389	11,89	22,1	478	-	-	-	-
NX-C /K /0904	400/3/50	18,2	7,389	13,69	26,4	550	-	-	-	-
NX-C /K /1004	400/3/50	14,6	8,222	15,25	30,7	615	-	-	-	-
NX-C /K /1104	400/3/50	10,0	9,444	17,53	39,2	705	-	-	-	-
NX-C /K /1204	400/3/50	10,0	10,28	19,08	39,2	728	-	-	-	-
NX-C /D /K /0072	400/3/50	2650	0,583	1,111	1,50	45,0	3793	-	0,361	0,40
NX-C /D /K /0092	400/3/50	1629	0,750	1,417	1,90	56,0	3793	-	0,472	0,40
NX-C /D /K /0102	400/3/50	1206	0,889	1,667	2,30	66,0	3793	-	0,528	0,40
NX-C /D /K /0122	400/3/50	939	1,028	1,889	2,60	76,0	3793	-	0,611	0,40
NX-C /D /K /0152	400/3/50	622	1,306	2,417	3,20	96,0	1386	-	0,694	0,60
NX-C /D /K /0182	400/3/50	407	1,528	2,833	4,10	114	1386	-	0,806	0,60
NX-C /D /K /0202	400/3/50	319	1,750	3,250	4,70	130	1386	-	0,944	0,60
NX-C /D /K /0232	400/3/50	256	1,944	3,611	4,40	145	1386	-	1,083	0,60
NX-C /D /K /0272	400/3/50	191	2,250	4,167	5,10	167	831	-	1,222	0,80
NX-C /D /K /0302	400/3/50	153	2,528	4,694	5,70	189	831	-	1,417	0,80
NX-C /D /K /0352	400/3/50	118	2,861	5,333	6,50	214	567	-	1,639	1,00
NX-C /D /K /0402	400/3/50	89,7	3,278	6,083	7,50	244	567	-	1,833	1,00
NX-C /D /K /0452	400/3/50	70,7	3,694	6,833	8,50	275	334	-	2,083	1,40
NX-C /D /K /0502	400/3/50	54,9	4,194	7,778	9,70	313	334	-	2,250	1,40
NX-C /D /K /0602	400/3/50	35,6	5,222	9,694	12,3	390	221	-	3,000	1,80
NX-C /D /K /0702	400/3/50	28,0	5,972	11,08	14,1	445	164	-	3,361	2,30
NX-C /D /K /0524	400/3/50	53,4	4,250	7,917	14,0	318	415	-	2,389	1,60

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-C /D /K /0604	400/3/50	41,4	4,833	8,972	16,1	370	415	-	2,833	1,60
NX-C /D /K /0704	400/3/50	29,6	5,722	10,64	19,6	428	283	-	3,222	2,00
NX-C /D /K /0804	400/3/50	24,1	6,389	11,89	22,1	478	283	-	3,722	2,00
NX-C /D /K /0904	400/3/50	18,2	7,389	13,69	26,4	550	166	-	3,917	2,80
NX-C /D /K /1004	400/3/50	14,6	8,222	15,25	30,7	615	166	-	4,444	2,80
NX-C /D /K /1104	400/3/50	10,0	9,444	17,53	39,2	705	166	-	4,972	2,80
NX-C /D /K /1204	400/3/50	10,0	10,28	19,08	39,2	728	110	-	5,667	3,70
NX-C /SL-K /0072	400/3/50	2650	0,667	1,222	1,90	44,0	-	-	-	-
NX-C /SL-K /0092	400/3/50	1629	0,833	1,528	2,30	55,0	-	-	-	-
NX-C /SL-K /0102	400/3/50	1206	0,944	1,778	2,70	64,0	-	-	-	-
NX-C /SL-K /0122	400/3/50	939	1,083	2,000	3,10	73,0	-	-	-	-
NX-C /SL-K /0152	400/3/50	622	1,417	2,639	3,80	94,0	-	-	-	-
NX-C /SL-K /0182	400/3/50	407	1,667	3,111	5,00	111	-	-	-	-
NX-C /SL-K /0202	400/3/50	319	1,917	3,583	5,80	128	-	-	-	-
NX-C /SL-K /0232	400/3/50	256	2,139	3,972	6,80	142	-	-	-	-
NX-C /SL-K /0272	400/3/50	191	2,444	4,528	6,30	164	-	-	-	-
NX-C /SL-K /0302	400/3/50	153	2,722	5,056	7,30	184	-	-	-	-
NX-C /SL-K /0352	400/3/50	118	3,056	5,667	8,10	208	-	-	-	-
NX-C /SL-K /0402	400/3/50	89,7	3,500	6,472	9,10	237	-	-	-	-
NX-C /SL-K /0452	400/3/50	70,7	3,917	7,278	10,3	268	-	-	-	-
NX-C /SL-K /0502	400/3/50	54,9	4,528	8,417	11,7	305	-	-	-	-
NX-C /SL-K /0552	400/3/50	44,3	5,056	9,417	12,9	340	-	-	-	-
NX-C /SL-K /0602	400/3/50	35,6	5,556	10,33	14,3	375	-	-	-	-
NX-C /SL-K /0524	400/3/50	53,4	4,667	8,667	14,0	310	-	-	-	-
NX-C /SL-K /0604	400/3/50	41,4	5,389	10,00	16,1	363	-	-	-	-
NX-C /SL-K /0704	400/3/50	29,6	6,167	11,42	19,6	415	-	-	-	-
NX-C /SL-K /0804	400/3/50	24,1	6,806	12,61	22,1	463	-	-	-	-
NX-C /SL-K /0904	400/3/50	18,2	7,972	14,83	26,4	555	-	-	-	-
NX-C /SL-K /1004	400/3/50	14,6	8,778	16,31	30,7	608	-	-	-	-
NX-C /D /SL-K /0072	400/3/50	2650	0,667	1,222	1,90	44,0	3793	-	0,361	0,40
NX-C /D /SL-K /0092	400/3/50	1629	0,833	1,528	2,30	55,0	3793	-	0,472	0,40
NX-C /D /SL-K /0102	400/3/50	1206	0,944	1,778	2,70	64,0	3793	-	0,528	0,40
NX-C /D /SL-K /0122	400/3/50	939	1,083	2,000	3,10	73,0	3793	-	0,611	0,40
NX-C /D /SL-K /0152	400/3/50	622	1,417	2,639	3,80	94,0	1386	-	0,694	0,60
NX-C /D /SL-K /0182	400/3/50	407	1,667	3,111	5,00	111	1386	-	0,806	0,60
NX-C /D /SL-K /0202	400/3/50	319	1,917	3,583	5,80	128	1386	-	0,944	0,60
NX-C /D /SL-K /0232	400/3/50	256	2,139	3,972	6,80	142	1386	-	1,083	0,60
NX-C /D /SL-K /0272	400/3/50	191	2,444	4,528	6,30	164	831	-	1,222	0,80
NX-C /D /SL-K /0302	400/3/50	153	2,722	5,056	7,30	184	831	-	1,417	0,80
NX-C /D /SL-K /0352	400/3/50	118	3,056	5,667	8,10	208	567	-	1,639	1,00
NX-C /D /SL-K /0402	400/3/50	89,7	3,500	6,472	9,10	237	567	-	1,833	1,00
NX-C /D /SL-K /0452	400/3/50	70,7	3,917	7,278	10,3	268	334	-	2,083	1,40
NX-C /D /SL-K /0502	400/3/50	54,9	4,528	8,417	11,7	305	334	-	2,250	1,40
NX-C /D /SL-K /0552	400/3/50	44,3	5,056	9,417	12,9	340	221	-	2,639	1,80
NX-C /D /SL-K /0602	400/3/50	35,6	5,556	10,33	14,3	375	221	-	3,000	1,80
NX-C /D /SL-K /0524	400/3/50	53,4	4,667	8,667	14,0	310	415	-	2,389	1,60
NX-C /D /SL-K /0604	400/3/50	41,4	5,389	10,00	16,1	363	415	-	2,833	1,60
NX-C /D /SL-K /0704	400/3/50	29,6	6,167	11,42	19,6	415	283	-	3,222	2,00
NX-C /D /SL-K /0804	400/3/50	24,1	6,806	12,61	22,1	463	283	-	3,722	2,00

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-C /D /SL-K /0904	400/3/50	18,2	7,972	14,83	26,4	555	166	-	3,917	2,80
NX-C /D /SL-K /1004	400/3/50	14,6	8,778	16,31	30,7	608	166	-	4,444	2,80
NX-C /A /0072	400/3/50	2650	0,583	1,111	1,50	45,0	-	-	-	-
NX-C /A /0092	400/3/50	1629	0,750	1,417	1,90	57,0	-	-	-	-
NX-C /A /0102	400/3/50	1206	0,889	1,667	2,30	69,0	-	-	-	-
NX-C /A /0122	400/3/50	939	1,028	1,889	2,60	79,0	-	-	-	-
NX-C /A /0152	400/3/50	622	1,306	2,417	3,20	97,0	-	-	-	-
NX-C /A /0182	400/3/50	407	1,528	2,833	4,10	115	-	-	-	-
NX-C /A /0202	400/3/50	319	1,750	3,250	4,70	133	-	-	-	-
NX-C /A /0232	400/3/50	256	1,944	3,611	4,40	148	-	-	-	-
NX-C /A /0272	400/3/50	191	2,250	4,167	5,10	170	-	-	-	-
NX-C /A /0302	400/3/50	153	2,528	4,694	5,70	193	-	-	-	-
NX-C /A /0352	400/3/50	118	2,861	5,333	6,50	218	-	-	-	-
NX-C /A /0402	400/3/50	89,7	3,278	6,083	7,50	250	-	-	-	-
NX-C /A /0452	400/3/50	70,7	3,694	6,833	8,50	283	-	-	-	-
NX-C /A /0502	400/3/50	54,9	4,194	7,778	9,70	315	-	-	-	-
NX-C /A /0552	400/3/50	44,3	4,694	8,722	10,9	353	-	-	-	-
NX-C /A /0602	400/3/50	35,6	5,222	9,694	12,3	398	-	-	-	-
NX-C /A /0702	400/3/50	28,0	5,972	11,08	14,1	450	-	-	-	-
NX-C /A /0524	400/3/50	53,4	4,250	7,917	14,0	318	-	-	-	-
NX-C /A /0604	400/3/50	41,4	4,833	8,972	16,1	375	-	-	-	-
NX-C /A /0704	400/3/50	29,6	5,722	10,64	19,6	435	-	-	-	-
NX-C /A /0804	400/3/50	24,1	6,389	11,89	22,1	483	-	-	-	-
NX-C /A /0904	400/3/50	18,2	7,389	13,69	26,4	563	-	-	-	-
NX-C /A /1004	400/3/50	14,6	8,222	15,25	30,7	628	-	-	-	-
NX-C /D /A /0072	400/3/50	2650	0,583	1,111	1,50	45,0	3793	-	0,361	0,40
NX-C /D /A /0092	400/3/50	1629	0,750	1,417	1,90	57,0	3793	-	0,472	0,40
NX-C /D /A /0102	400/3/50	1206	0,889	1,667	2,30	69,0	3793	-	0,528	0,40
NX-C /D /A /0122	400/3/50	939	1,028	1,889	2,60	79,0	3793	-	0,611	0,40
NX-C /D /A /0152	400/3/50	622	1,306	2,417	3,20	97,0	1386	-	0,694	0,60
NX-C /D /A /0182	400/3/50	407	1,528	2,833	4,10	115	1386	-	0,806	0,60
NX-C /D /A /0202	400/3/50	319	1,750	3,250	4,70	133	1386	-	0,944	0,60
NX-C /D /A /0232	400/3/50	256	1,944	3,611	4,40	148	1386	-	1,083	0,60
NX-C /D /A /0272	400/3/50	191	2,250	4,167	5,10	170	831	-	1,222	0,80
NX-C /D /A /0302	400/3/50	153	2,528	4,694	5,70	193	831	-	1,417	0,80
NX-C /D /A /0352	400/3/50	118	2,861	5,333	6,50	218	567	-	1,639	1,00
NX-C /D /A /0402	400/3/50	89,7	3,278	6,083	7,50	250	567	-	1,833	1,00
NX-C /D /A /0452	400/3/50	70,7	3,694	6,833	8,50	283	334	-	2,083	1,40
NX-C /D /A /0502	400/3/50	54,9	4,194	7,778	9,70	315	334	-	2,250	1,40
NX-C /D /A /0552	400/3/50	44,3	4,694	8,722	10,9	353	221	-	2,639	1,80
NX-C /D /A /0602	400/3/50	35,6	5,222	9,694	12,3	398	221	-	3,000	1,80
NX-C /D /A /0702	400/3/50	28,0	5,972	11,08	14,1	450	164	-	3,361	2,30
NX-C /D /A /0524	400/3/50	53,4	4,250	7,917	14,0	318	415	-	2,389	1,60
NX-C /D /A /0604	400/3/50	41,4	4,833	8,972	16,1	375	415	-	2,833	1,60
NX-C /D /A /0704	400/3/50	29,6	5,722	10,64	19,6	435	283	-	3,222	2,00
NX-C /D /A /0804	400/3/50	24,1	6,389	11,89	22,1	483	283	-	3,722	2,00
NX-C /D /A /0904	400/3/50	18,2	7,389	13,69	26,4	563	166	-	3,917	2,80
NX-C /D /A /1004	400/3/50	14,6	8,222	15,25	30,7	628	166	-	4,444	2,80

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

9.1 ELECTRICAL DATA NX-C / 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]
0072	400/3/50	2	2 x 4,39	2 x 7,24	2 x 43	2,600	4	11,40	19	54,2
0092	400/3/50	2	2 x 5,6	2 x 8,42	2 x 51,5	2,600	4	13,80	21	63,9
0102	400/3/50	2	2 x 6,55	2 x 10,23	2 x 67,1	2,800	4	15,90	25	81,5
0122	400/3/50	2	2 x 7,26	2 x 12,07	2 x 75	2,800	4	17,30	28	91,3
0152	400/3/50	2	2 x 8,6	2 x 13,9	2 x 101	2,600	4	22,40	36	122,9
0182	400/3/50	2	2 x 9,91	2 x 17,1	2 x 128	2,900	4	25,60	43	154
0202	400/3/50	2	2 x 11,6	2 x 20,1	2 x 139	2,900	4	29,00	49	168
0232	400/3/50	2	2 x 13	2 x 21,44	2 x 118	2,900	4	31,80	52	148,3
0272	400/3/50	2	2 x 15,1	2 x 25,63	2 x 140	2,800	4	35,80	60	174
0302	400/3/50	2	2 x 16,9	2 x 31,58	2 x 174	2,900	4	42,50	77	218,9
0352	400/3/50	2	1 x 16,9 + 1 x 22,5	1 x 31,58 + 1 x 36,4	1 x 174 + 1 x 225	2,900	4	48,10	81	269,9
0402	400/3/50	2	2 x 22,5	2 x 36,46	2 x 225	2,800	4	53,40	86	274,1
0452	400/3/50	2	1 x 22,5 + 1 x 27,6	1 x 36,46 + 1 x 44,5	1 x 225 + 1 x 272	2,800	4	58,50	94	321,1
0502	400/3/50	2	2 x 27,6	2 x 44,57	2 x 272	2,900	4	66,80	107	334,3
0602	400/3/50	2	2 x 35,9	2 x 58,97	2 x 310	2,800	4	83,00	135	385,8
0702	400/3/50	2	1 x 35,9 + 1 x 44,7	1 x 58,97 + 1 x 73,3	1 x 310 + 1 x 408	2,900	4	98,00	159	493,6
0524	400/3/50	4	4 x 15,1	4 x 25,63	4 x 140	2,900	4	72,00	120	234,6
0604	400/3/50	4	4 x 16,9	4 x 31,58	4 x 174	2,800	4	78,80	143	285,5
0704	400/3/50	4	2 x 16,9 + 2 x 22,5	2 x 31,58 + 2 x 36,4	2 x 174 + 2 x 225	2,900	4	96,20	163	351,2
0804	400/3/50	4	4 x 22,5	4 x 36,46	4 x 225	2,900	4	107,4	172	361
0904	400/3/50	4	2 x 22,5 + 2 x 27,6	2 x 36,46 + 2 x 44,5	2 x 225 + 2 x 272	2,800	4	117,0	187	414,7
1004	400/3/50	4	4 x 27,6	4 x 44,57	4 x 272	2,800	4	127,2	204	430,9
1104	400/3/50	4	2 x 27,6 + 2 x 35,9	2 x 44,57 + 2 x 58,9	2 x 272 + 2 x 310	2,800	4	143,8	232	483,3
1204	400/3/50	4	4 x 35,9	4 x 58,97	4 x 310	2,800	4	160,4	261	512,1

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

Data valid for standard units without any additional option.

Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

Given the typical operating conditions of units designed for indoor installation, which can be associated (according to reference document IEC 60721) to the following classes:
- climatic conditions class AA4: air temperature range from 5 up to 42°C (*)
- special climatic conditions negligible
- presence of water class AD2: possibility of water dripping inside the technical room
- biological conditions class 4B1 and 4C2: negligible presence of corrosive and polluting substances
- mechanically active substances class 4S2: locations in areas with sand or dust sources

The required protection level for safe operation, according to reference document IEC 60529, is IP21 BW (protection against access of external devices with diameter larger than 12 mm and water falling vertically).
The unit can be considered IP21 CW protected, thus fulfilling the above operating conditions.

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

ELECTRICAL DATA NX-C / 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]
0072	400/3/50	2	2 x 4,39	2 x 7,24	2 x 43	2,600	4	13,98	22	58,2
0092	400/3/50	2	2 x 5,6	2 x 8,42	2 x 51,5	2,600	4	16,40	25	67,9
0102	400/3/50	2	2 x 6,55	2 x 10,23	2 x 67,1	2,600	4	18,30	28	85,3
0122	400/3/50	2	2 x 7,26	2 x 12,07	2 x 75	2,600	4	19,72	32	95,1
0152	400/3/50	2	2 x 8,6	2 x 13,9	2 x 101	2,900	4	23,00	37	123,8
0182	400/3/50	2	2 x 9,91	2 x 17,1	2 x 128	2,900	4	28,52	47	158,4
0202	400/3/50	2	2 x 11,6	2 x 20,1	2 x 139	2,900	4	31,90	53	172,4
0232	400/3/50	2	2 x 13	2 x 21,44	2 x 118	2,900	4	34,70	56	152,7
0272	400/3/50	2	2 x 15,1	2 x 25,63	2 x 140	2,900	4	38,90	65	178,9
0302	400/3/50	2	2 x 16,9	2 x 31,58	2 x 174	2,800	4	42,20	76	218,2
0352	400/3/50	2	1 x 16,9 + 1 x 22,5	1 x 31,58 + 1 x 36,4	1 x 174 + 1 x 225	2,800	4	47,80	81	269,2
0402	400/3/50	2	2 x 22,5	2 x 36,46	2 x 225	2,800	4	56,20	90	278,3
0452	400/3/50	2	1 x 22,5 + 1 x 27,6	1 x 36,46 + 1 x 44,5	1 x 225 + 1 x 272	2,800	4	61,30	98	325,3
0502	400/3/50	2	2 x 27,6	2 x 44,57	2 x 272	2,800	4	66,40	106	333,4
0552	400/3/50	2	1 x 27,6 + 1 x 35,9	1 x 44,57 + 1 x 58,9	1 x 272 + 1 x 310	2,800	4	74,70	120	371,4
0602	400/3/50	2	2 x 35,9	2 x 58,97	2 x 310	2,900	4	89,20	145	395,5
0524	400/3/50	4	4 x 15,1	4 x 25,63	4 x 140	2,800	4	71,60	119	233,7
0604	400/3/50	4	4 x 16,9	4 x 31,58	4 x 174	2,800	4	78,80	143	285,5
0704	400/3/50	4	2 x 16,9 + 2 x 22,5	2 x 31,58 + 2 x 36,4	2 x 174 + 2 x 225	2,800	4	95,60	161	349,8
0804	400/3/50	4	4 x 22,5	4 x 36,46	4 x 225	2,800	4	106,8	171	359,6
0904	400/3/50	4	2 x 22,5 + 2 x 27,6	2 x 36,46 + 2 x 44,5	2 x 225 + 2 x 272	2,800	4	117,0	187	414,7
1004	400/3/50	4	4 x 27,6	4 x 44,57	4 x 272	2,800	4	127,2	203	430,9

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

Data valid for standard units without any additional option.

Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

Given the typical operating conditions of units designed for indoor installation, which can be associated (according to reference document IEC 60721) to the following classes:
- climatic conditions class AA4: air temperature range from 5 up to 42°C (*)
- special climatic conditions negligible
- presence of water class AD2: possibility of water dripping inside the technical room
- biological conditions class 4B1 and 4C2: negligible presence of corrosive and polluting substances
- mechanically active substances class 4S2: locations in areas with sand or dust sources

The required protection level for safe operation, according to reference document IEC 60529, is IP21 BW (protection against access of external devices with diameter larger than 12 mm and water falling vertically).
The unit can be considered IP21 CW protected, thus fulfilling the above operating conditions.

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

ELECTRICAL DATA

NX-C / A

[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]
0072	400/3/50	2	2 x 4,39	2 x 7,24	2 x 43	2,600	4	13,98	22	58,2
0092	400/3/50	2	2 x 5,6	2 x 8,42	2 x 51,5	2,600	4	16,40	25	67,9
0102	400/3/50	2	2 x 6,55	2 x 10,23	2 x 67,1	2,600	4	18,30	28	85,3
0122	400/3/50	2	2 x 7,26	2 x 12,07	2 x 75	2,600	4	19,72	32	95,1
0152	400/3/50	2	2 x 8,6	2 x 13,9	2 x 101	2,900	4	23,00	37	123,8
0182	400/3/50	2	2 x 9,91	2 x 17,1	2 x 128	2,900	4	28,52	47	158,4
0202	400/3/50	2	2 x 11,6	2 x 20,1	2 x 139	2,900	4	31,90	53	172,4
0232	400/3/50	2	2 x 13	2 x 21,44	2 x 118	2,900	4	34,70	56	152,7
0272	400/3/50	2	2 x 15,1	2 x 25,63	2 x 140	2,900	4	38,90	65	178,9
0302	400/3/50	2	2 x 16,9	2 x 31,58	2 x 174	2,800	4	42,20	76	218,2
0352	400/3/50	2	1 x 16,9 + 1 x 22,5	1 x 31,58 + 1 x 36,4	1 x 174 + 1 x 225	2,800	4	47,80	81	269,2
0402	400/3/50	2	2 x 22,5	2 x 36,46	2 x 225	2,800	4	56,20	90	278,3
0452	400/3/50	2	1 x 22,5 + 1 x 27,6	1 x 36,46 + 1 x 44,5	1 x 225 + 1 x 272	2,800	4	61,30	98	325,3
0502	400/3/50	2	2 x 27,6	2 x 44,57	2 x 272	2,800	4	66,40	106	333,4
0552	400/3/50	2	1 x 27,6 + 1 x 35,9	1 x 44,57 + 1 x 58,9	1 x 272 + 1 x 310	2,800	4	74,70	120	371,4
0602	400/3/50	2	2 x 35,9	2 x 58,97	2 x 310	2,900	4	89,20	145	395,5
0702	400/3/50	2	1 x 35,9 + 1 x 44,7	1 x 58,97 + 1 x 73,3	1 x 310 + 1 x 408	2,900	4	98,00	159	493,5
0524	400/3/50	4	4 x 15,1	4 x 25,63	4 x 140	2,800	4	71,60	119	233,7
0604	400/3/50	4	4 x 16,9	4 x 31,58	4 x 174	2,800	4	78,80	143	285,5
0704	400/3/50	4	2 x 16,9 + 2 x 22,5	2 x 31,58 + 2 x 36,4	2 x 174 + 2 x 225	2,800	4	95,60	161	349,8
0804	400/3/50	4	4 x 22,5	4 x 36,46	4 x 225	2,800	4	106,8	171	359,6
0904	400/3/50	4	2 x 22,5 + 2 x 27,6	2 x 36,46 + 2 x 44,5	2 x 225 + 2 x 272	2,800	4	117,0	187	414,7
1004	400/3/50	4	4 x 27,6	4 x 44,57	4 x 272	2,800	4	127,2	203	430,9

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

Data valid for standard units without any additional option.

Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

Given the typical operating conditions of units designed for indoor installation, which can be associated (according to reference document IEC 60721) to the following classes:
- climatic conditions class AA4: air temperature range from 5 up to 42°C (*)
- special climatic conditions negligible
- presence of water class AD2: possibility of water dripping inside the technical room
- biological conditions class 4B1 and 4C2: negligible presence of corrosive and polluting substances
- mechanically active substances class 4S2: locations in areas with sand or dust sources

The required protection level for safe operation, according to reference document IEC 60529, is IP21 BW (protection against access of external devices with diameter larger than 12 mm and water falling vertically).
The unit can be considered IP21 CW protected, thus fulfilling the above operating conditions.

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

10.1 FULL LOAD SOUND LEVEL NX-C / K

SOUND POWER LEVEL IN COOLING									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0072	77	76	77	80	80	75	69	60	**83**
0092	81	80	82	84	84	79	74	64	**88**
0102	68	74	73	76	74	72	63	54	**79**
0122	68	75	74	77	75	73	64	55	**80**
0152	81	80	82	84	85	80	74	64	**88**
0182	83	77	78	82	83	75	68	59	**85**
0202	84	79	80	83	84	76	69	61	**86**
0232	85	80	81	84	85	78	71	62	**87**
0272	72	78	78	81	79	77	68	59	**83**
0302	85	79	80	83	84	77	70	61	**87**
0352	87	81	82	85	87	79	72	63	**89**
0402	73	79	78	82	79	78	68	60	**84**
0452	74	80	79	83	80	79	69	61	**85**
0502	89	84	85	88	89	82	75	66	**91**
0602	77	83	82	85	83	81	72	63	**88**
0702	90	85	86	89	90	82	75	67	**92**
0524	90	85	86	89	90	83	76	67	**92**
0604	76	82	81	85	82	81	71	63	**87**
0704	90	84	85	88	90	82	75	66	**92**
0804	92	86	87	91	92	84	77	68	**94**
0904	77	83	83	86	84	82	73	64	**88**
1004	79	85	84	88	85	84	74	66	**90**
1104	79	85	84	88	85	84	74	66	**90**
1204	79	85	84	88	85	84	74	66	**90**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.

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

Sound power level in cooling, outdoors.

FULL LOAD SOUND LEVEL NX-C / SL-K

SOUND POWER LEVEL IN COOLING									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0072	61	60	62	64	65	60	54	44	**68**
0092	64	63	65	67	67	62	57	47	**71**
0102	65	64	65	68	68	63	57	48	**71**
0122	67	65	67	70	70	65	59	49	**73**
0152	74	69	70	73	74	67	60	51	**76**
0182	72	66	67	71	72	64	57	48	**74**
0202	74	68	69	72	74	66	59	50	**76**
0232	75	69	70	74	75	67	60	51	**77**
0272	78	73	74	77	78	71	64	55	**81**
0302	62	69	68	71	69	67	58	49	**74**
0352	64	71	70	73	71	69	60	51	**76**
0402	63	69	68	72	69	68	58	50	**74**
0452	64	70	70	73	71	69	59	51	**75**
0502	69	75	75	78	76	74	65	56	**80**
0552	71	77	76	80	77	76	66	58	**82**
0602	82	76	77	80	81	74	67	58	**84**
0524	70	76	75	79	76	75	65	57	**81**
0604	71	78	77	80	78	76	67	58	**83**
0704	67	74	73	76	74	72	63	54	**79**
0804	69	75	75	78	76	74	64	56	**80**
0904	74	81	80	83	81	79	70	61	**86**
1004	75	81	80	84	81	80	70	62	**86**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.

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

Sound power level in cooling, outdoors.

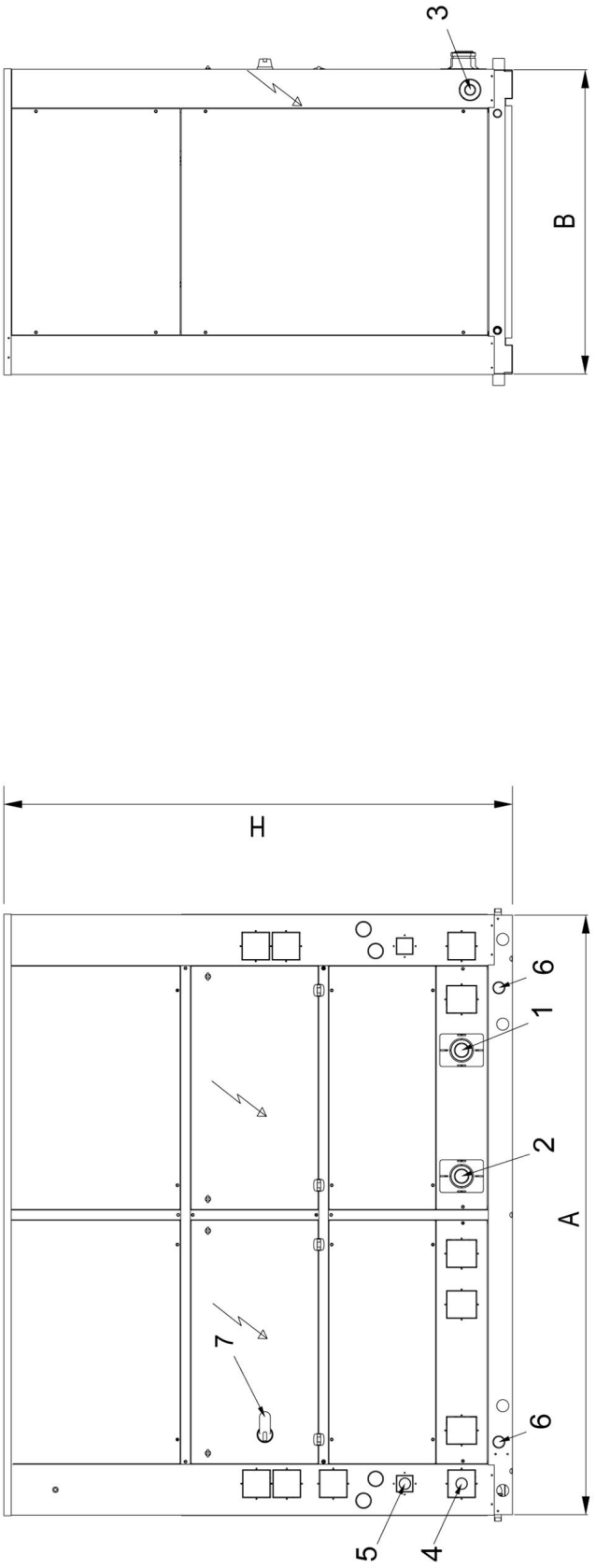
FULL LOAD SOUND LEVEL

NX-C / A

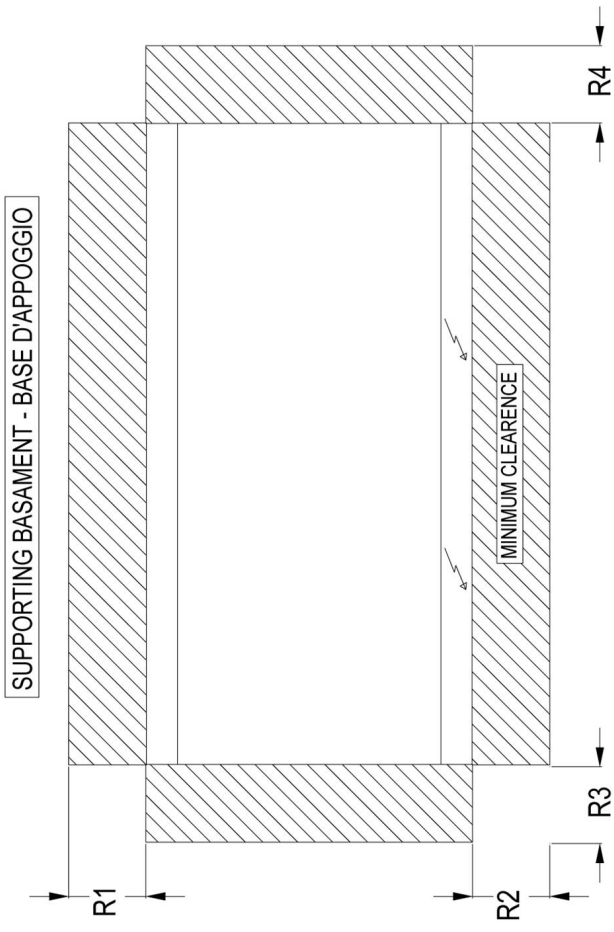
SOUND POWER LEVEL IN COOLING									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0072	68	67	68	71	71	66	60	51	**74**
0092	72	70	72	75	75	70	64	54	**78**
0102	77	76	78	80	81	76	70	60	**84**
0122	80	79	80	83	83	78	72	63	**86**
0152	80	75	76	79	80	73	66	57	**83**
0182	79	73	74	77	78	71	64	55	**81**
0202	80	75	76	79	80	72	65	56	**82**
0232	81	76	77	80	81	74	67	58	**84**
0272	84	79	80	83	84	77	70	61	**87**
0302	70	77	76	79	77	75	66	57	**82**
0352	71	78	77	80	78	76	67	58	**83**
0402	71	77	76	80	77	76	66	58	**82**
0452	72	78	78	81	78	77	67	59	**83**
0502	73	79	79	82	80	78	69	60	**84**
0552	75	81	80	84	81	80	70	62	**86**
0602	89	83	84	87	89	81	74	65	**91**
0702	91	85	86	89	91	83	76	67	**93**
0524	73	79	78	82	79	78	68	60	**84**
0604	76	82	82	85	82	81	71	63	**87**
0704	75	81	80	83	81	79	70	61	**86**
0804	75	81	80	83	81	79	70	61	**86**
0904	77	83	82	86	83	82	72	64	**88**
1004	77	83	82	86	83	82	72	64	**88**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
Sound power on the basis of measurements made in compliance with ISO 9614.
Sound power level in cooling, outdoors.



1 EVAPORATOR WATER INLET
ENTRATA ACQUA EVAPORATORE
2 EVAPORATOR WATER OUTLET
USCITA ACQUA EVAPORATORE
3 POWER INLET
INGRESSO LINEA ELETTRICA
4 DESUPERHEATER WATER INLET
ENTRATA ACQUA
DESURRISCALTATORE
5 DESUPERHEATER WATER OUTLET
USCITA ACQUA
DESURRISCALTATORE
6 LIFTING POINTS
PUNTI DI SOLLEVAMENTO
7 MAIN ISOLATOR
SEZIONATORE PRINCIPALE



REMARKS:For installation purposes, please refer to the documentation sent after the purchase-contract. This technical data should be considered as indicative. Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A. may modify them at any moment. Data valid for standard units without any additional option.

DIMENSIONAL DRAWINGS

NX-C 0072 - 1204

[SI System]

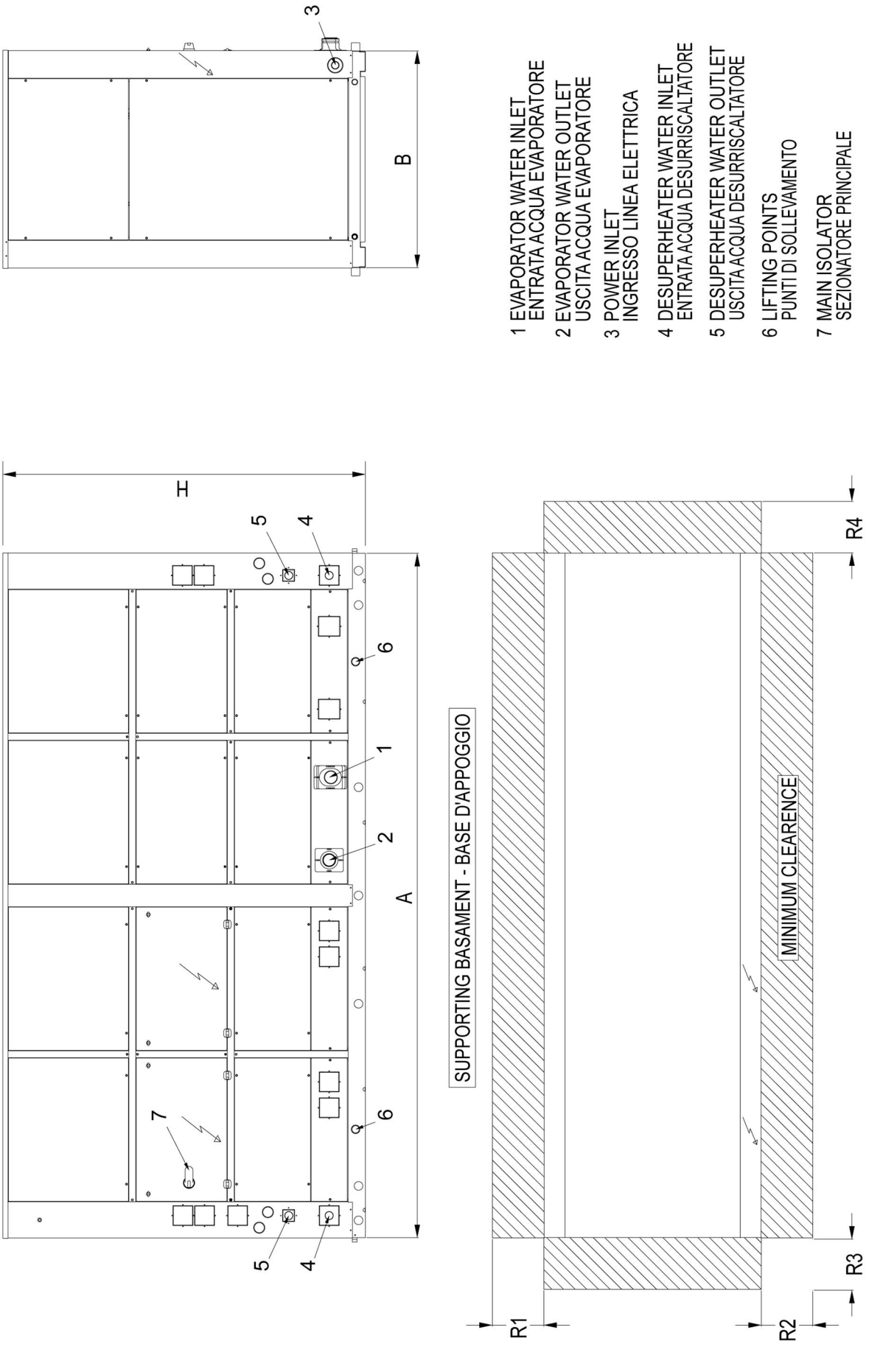
SIZE	DIMENSIONS AND WEIGHTS				CLEARANCE				HEAT EXCHANGER USER SIDE		HEAT RECOVERY EX. USER SIDE	
	A	B	H	WEIGHT	R1	R2	R3	R4	IN/OUT		IN/OUT	
	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	TYPE	Ø	TYPE	Ø
NX-C /K /0072	1500	900	1910	380	1000	1000	1000	1000	B1	1"1/2	-	-
NX-C /K /0092	1500	900	1910	380	1000	1000	1000	1000	B1	1"1/2	-	-
NX-C /K /0102	1500	900	1910	400	1000	1000	1000	1000	B1	1"1/2	-	-
NX-C /K /0122	1500	900	1910	410	1000	1000	1000	1000	B1	1"1/2	-	-
NX-C /K /0152	2480	1100	2100	680	1000	1000	1000	1000	A	2"	-	-
NX-C /K /0182	2480	1100	2100	710	1000	1000	1000	1000	A	2"	-	-
NX-C /K /0202	2480	1100	2100	720	1000	1000	1000	1000	A	2"	-	-
NX-C /K /0232	2480	1100	2100	740	1000	1000	1000	1000	A	2"	-	-
NX-C /K /0272	2480	1100	2100	800	1000	1000	1000	1000	A	2"	-	-
NX-C /K /0302	2480	1100	2100	820	1000	1000	1000	1000	A	2"	-	-
NX-C /K /0352	2480	1100	2100	890	1000	1000	1000	1000	A	2"	-	-
NX-C /K /0402	2980	1260	2100	1080	1000	1000	1000	1000	A	2"	-	-
NX-C /K /0452	2980	1260	2100	1110	1000	1000	1000	1000	A	2"	-	-
NX-C /K /0502	3970	1260	2100	1290	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /K /0602	3970	1260	2100	1380	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /K /0702	4670	1260	2100	1560	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /D /K /0072	1500	900	1910	380	1000	1000	1000	1000	B1	1"1/2	B1	1"
NX-C /D /K /0092	1500	900	1910	380	1000	1000	1000	1000	B1	1"1/2	B1	1"
NX-C /D /K /0102	1500	900	1910	400	1000	1000	1000	1000	B1	1"1/2	B1	1"
NX-C /D /K /0122	1500	900	1910	410	1000	1000	1000	1000	B1	1"1/2	B1	1"
NX-C /D /K /0152	2480	1100	2100	680	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /K /0182	2480	1100	2100	710	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /K /0202	2480	1100	2100	720	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /K /0232	2480	1100	2100	740	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /K /0272	2480	1100	2100	800	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /K /0302	2480	1100	2100	820	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /K /0352	2480	1100	2100	890	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /K /0402	2980	1260	2100	1080	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /K /0452	2980	1260	2100	1110	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /K /0502	3970	1260	2100	1290	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /K /0602	3970	1260	2100	1380	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /K /0702	4670	1260	2100	1560	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /SL-K /0072	1500	900	1910	450	1000	1000	1000	1000	B1	1"1/2	-	-
NX-C /SL-K /0092	1500	900	1910	450	1000	1000	1000	1000	B1	1"1/2	-	-
NX-C /SL-K /0102	2480	1100	2100	690	1000	1000	1000	1000	A	2"	-	-
NX-C /SL-K /0122	2480	1100	2100	700	1000	1000	1000	1000	A	2"	-	-
NX-C /SL-K /0152	2480	1100	2100	730	1000	1000	1000	1000	A	2"	-	-
NX-C /SL-K /0182	2480	1100	2100	790	1000	1000	1000	1000	A	2"	-	-
NX-C /SL-K /0202	2480	1100	2100	790	1000	1000	1000	1000	A	2"	-	-
NX-C /SL-K /0232	2480	1100	2100	810	1000	1000	1000	1000	A	2"	-	-
NX-C /SL-K /0272	2980	1260	2100	930	1000	1000	1000	1000	A	2"	-	-
NX-C /SL-K /0302	2980	1260	2100	980	1000	1000	1000	1000	A	2"	-	-
NX-C /SL-K /0352	2980	1260	2100	1060	1000	1000	1000	1000	A	2"	-	-
NX-C /SL-K /0402	3970	1260	2100	1220	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /SL-K /0452	3970	1260	2100	1380	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /SL-K /0502	3970	1260	2100	1400	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /SL-K /0552	3970	1260	2100	1430	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /SL-K /0602	4670	1260	2100	1610	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /D /SL-K /0072	1500	900	1910	450	1000	1000	1000	1000	B1	1"1/2	B1	1"
NX-C /D /SL-K /0092	1500	900	1910	450	1000	1000	1000	1000	B1	1"1/2	B1	1"
NX-C /D /SL-K /0102	2480	1100	2100	690	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /SL-K /0122	2480	1100	2100	700	1000	1000	1000	1000	A	2"	B1	1"1/4

DIMENSIONAL DRAWINGS

NX-C 0072 - 1204

[SI System]

SIZE	DIMENSIONS AND WEIGHTS				CLEARANCE				HEAT EXCHANGER USER SIDE		HEAT RECOVERY EX. USER SIDE	
	A	B	H	WEIGHT	R1	R2	R3	R4	IN/OUT		IN/OUT	
	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	TYPE	Ø	TYPE	Ø
NX-C /D /SL-K /0152	2480	1100	2100	730	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /SL-K /0182	2480	1100	2100	790	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /SL-K /0202	2480	1100	2100	790	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /SL-K /0232	2480	1100	2100	810	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /SL-K /0272	2980	1260	2100	930	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /SL-K /0302	2980	1260	2100	980	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /SL-K /0352	2980	1260	2100	1060	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /SL-K /0402	3970	1260	2100	1220	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /SL-K /0452	3970	1260	2100	1380	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /SL-K /0502	3970	1260	2100	1400	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /SL-K /0552	3970	1260	2100	1430	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /SL-K /0602	4670	1260	2100	1610	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /A /0072	1500	900	1910	450	1000	1000	1000	1000	B1	1"1/2	-	-
NX-C /A /0092	1500	900	1910	450	1000	1000	1000	1000	B1	1"1/2	-	-
NX-C /A /0102	2480	1100	2100	690	1000	1000	1000	1000	A	2"	-	-
NX-C /A /0122	2480	1100	2100	700	1000	1000	1000	1000	A	2"	-	-
NX-C /A /0152	2480	1100	2100	730	1000	1000	1000	1000	A	2"	-	-
NX-C /A /0182	2480	1100	2100	790	1000	1000	1000	1000	A	2"	-	-
NX-C /A /0202	2480	1100	2100	790	1000	1000	1000	1000	A	2"	-	-
NX-C /A /0232	2480	1100	2100	810	1000	1000	1000	1000	A	2"	-	-
NX-C /A /0272	2980	1260	2100	930	1000	1000	1000	1000	A	2"	-	-
NX-C /A /0302	2980	1260	2100	980	1000	1000	1000	1000	A	2"	-	-
NX-C /A /0352	2980	1260	2100	1060	1000	1000	1000	1000	A	2"	-	-
NX-C /A /0402	3970	1260	2100	1220	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /A /0452	3970	1260	2100	1380	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /A /0502	3970	1260	2100	1400	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /A /0552	3970	1260	2100	1430	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /A /0602	4670	1260	2100	1610	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /A /0702	5670	1260	2100	1790	1000	1000	1000	1000	A	3"	-	-
NX-C /D /A /0072	1500	900	1910	450	1000	1000	1000	1000	B1	1"1/2	B1	1"
NX-C /D /A /0092	1500	900	1910	450	1000	1000	1000	1000	B1	1"1/2	B1	1"
NX-C /D /A /0102	2480	1100	2100	690	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /A /0122	2480	1100	2100	700	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /A /0152	2480	1100	2100	730	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /A /0182	2480	1100	2100	790	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /A /0202	2480	1100	2100	790	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /A /0232	2480	1100	2100	810	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /A /0272	2980	1260	2100	930	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /A /0302	2980	1260	2100	980	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /A /0352	2980	1260	2100	1060	1000	1000	1000	1000	A	2"	B1	1"1/4
NX-C /D /A /0402	3970	1260	2100	1220	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /A /0452	3970	1260	2100	1380	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /A /0502	3970	1260	2100	1400	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /A /0552	3970	1260	2100	1430	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /A /0602	4670	1260	2100	1610	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /A /0702	5670	1260	2100	1790	1000	1000	1000	1000	A	3"	B1	1"1/2



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DIMENSIONAL DRAWINGS

NX-C 0072 - 1204

[SI System]

SIZE	DIMENSIONS AND WEIGHTS				CLEARANCE				HEAT EXCHANGER USER SIDE		HEAT RECOVERY EX. USER SIDE	
	A	B	H	WEIGHT	R1	R2	R3	R4	IN/OUT		IN/OUT	
	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	TYPE	Ø	TYPE	Ø
NX-C /K /0524	3970	1260	2100	1250	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /K /0604	3970	1260	2100	1350	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /K /0704	4670	1260	2100	1640	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /K /0804	4670	1260	2100	1780	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /K /0904	5670	1260	2100	2060	1000	1000	1000	1000	A	3"	-	-
NX-C /K /1004	5670	1260	2100	2140	1000	1000	1000	1000	A	3"	-	-
NX-C /K /1104	5670	1260	2100	2530	1000	1000	1000	1000	A	3"	-	-
NX-C /K /1204	5670	1260	2100	2580	1000	1000	1000	1000	A	3"	-	-
NX-C /D /K /0524	3970	1260	2100	1250	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /K /0604	3970	1260	2100	1350	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /K /0704	4670	1260	2100	1640	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /K /0804	4670	1260	2100	1780	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /K /0904	5670	1260	2100	2060	1000	1000	1000	1000	A	3"	B1	1"1/2
NX-C /D /K /1004	5670	1260	2100	2140	1000	1000	1000	1000	A	3"	B1	1"1/2
NX-C /D /K /1104	5670	1260	2100	2530	1000	1000	1000	1000	A	3"	B1	1"1/2
NX-C /D /K /1204	5670	1260	2100	2580	1000	1000	1000	1000	A	3"	B1	1"1/2
NX-C /SL-K /0524	3970	1260	2100	1370	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /SL-K /0604	4670	1260	2100	1550	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /SL-K /0704	5670	1260	2100	1960	1000	1000	1000	1000	A	3"	-	-
NX-C /SL-K /0804	5670	1260	2100	2110	1000	1000	1000	1000	A	3"	-	-
NX-C /SL-K /0904	5670	1260	2100	2550	1000	1000	1000	1000	A	3"	-	-
NX-C /SL-K /1004	5670	1260	2100	2600	1000	1000	1000	1000	A	3"	-	-
NX-C /D /SL-K /0524	3970	1260	2100	1370	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /SL-K /0604	4670	1260	2100	1550	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /SL-K /0704	5670	1260	2100	1960	1000	1000	1000	1000	A	3"	B1	1"1/2
NX-C /D /SL-K /0804	5670	1260	2100	2110	1000	1000	1000	1000	A	3"	B1	1"1/2
NX-C /D /SL-K /0904	5670	1260	2100	2550	1000	1000	1000	1000	A	3"	B1	1"1/2
NX-C /D /SL-K /1004	5670	1260	2100	2600	1000	1000	1000	1000	A	3"	B1	1"1/2
NX-C /A /0524	3970	1260	2100	1370	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /A /0604	4670	1260	2100	1550	1000	1000	1000	1000	A	2"1/2	-	-
NX-C /A /0704	5670	1260	2100	1960	1000	1000	1000	1000	A	3"	-	-
NX-C /A /0804	5670	1260	2100	2110	1000	1000	1000	1000	A	3"	-	-
NX-C /A /0904	5670	1260	2100	2550	1000	1000	1000	1000	A	3"	-	-
NX-C /A /1004	5670	1260	2100	2600	1000	1000	1000	1000	A	3"	-	-
NX-C /D /A /0524	3970	1260	2100	1370	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /A /0604	4670	1260	2100	1550	1000	1000	1000	1000	A	2"1/2	B1	1"1/2
NX-C /D /A /0704	5670	1260	2100	1960	1000	1000	1000	1000	A	3"	B1	1"1/2
NX-C /D /A /0804	5670	1260	2100	2110	1000	1000	1000	1000	A	3"	B1	1"1/2
NX-C /D /A /0904	5670	1260	2100	2550	1000	1000	1000	1000	A	3"	B1	1"1/2
NX-C /D /A /1004	5670	1260	2100	2600	1000	1000	1000	1000	A	3"	B1	1"1/2

DIMENSIONAL DRAWINGS

LEGEND OF PIPE CONNECTIONS

TYPE = A
Grooved pipe

TYPE = B
Male threaded pipe

NOMINAL PIPE SIZE	PIPE OUTSIDE DIAMETER
ø inches	ø mm
¾	26,7
1	33,7
1 ¼	42,4
1 ½	48,3
2	60,3
2 ½	76,1
3	88,9
3 ½	101,6

NOMINAL PIPE SIZE	PIPE OUTSIDE DIAMETER
ø inches	ø mm
4	114,3
4 ½	127,0
5	139,7
6	168,3
8	219,1
10	273,0
12	323,9
14	355,6

UNI ISO 228/13
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

NOTE:
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

12.1 HYDRONIC GROUP

12.1 HYDRONIC MODULE

The NX-C(N) units can be fitted with the hydronic module that includes the main water circuit components, thus optimizing water circuit and electrical installation space, times and costs.
The built-in hydronic module is available as option with single or twin in-line pump, for achieving low head or high head, fixed or variable speed.
The hydronic module is available with only terminals, ON/OFF or modulating, to control the activation of external pump(s).

For the hydronic modules with only terminals, the factory-mounted components are:
- terminals for external pumps control (only relays or relays + 0-10V signal)
- paddle flow switch

For the hydronic modules with pumps, the factory-mounted components are:
- 1 or 2 pumps, 2 poles, low head or high head, fixed or variable speed
- paddle flow switch
- Clapet valve to link the impellers of twin type in-line pumps
- purge valve
- safety valve (6 bar) + pressure gauge

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 back-up pump is automatically enabled.
The electrical panel of the unit is protected with fuses and contactors with thermals cut-out.

Suction, volute and discharge of each pump and all the water pipes are covered with an insulation lining in closed-cell reticulated foam in PE, CFC and HCFC-free.

Note: the use of the pumps in SL versions increases the sound power by 1 dB(A).

12.1 IN-LINE PUMP SPECIFICATION IN SINGLE OR TWIN VERSION AT FIXED SPEED

Centrifugal pumps with in-line suction and delivery flanges, in single or twin versions. Pump body and impeller in 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. “Back pull-out” design, impeller, adapter, and motor can be extracted without disconnecting the pump body from the piping system.

12.2 IN-LINE PUMP SPECIFICATION IN SINGLE OR TWIN VERSION AT VARIABLE SPEED

The pumps with 2-pole motors are fitted with permanent-magnet and electronically speed-controlled which have an efficiency that exceeds the IE4 demands, including the energy consumption of the integrated frequency converter. The resulting in energy savings of up to 50% compared to conventional pumps.

Grundfos single and twin-head pumps, are single-stage, close-coupled pumps with in-line suction and discharge ports of identical diameter. Motor and pump shafts are connected via a rigid two-part coupling. The pumps are equipped with an unbalanced mechanical shaft seal.
The pumps are of the “top-pull-out” design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework.
The twin-head pumps are designed with two parallel power heads. A non-return flap valve in the common discharge port is opened by the flow of the pumped liquid and prevents backflow of liquid into the idle pump head.

12.3 SPECIAL PUMPS

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

12.3 OTHER COMPONENTS

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

12.3 MECHANICAL WATER FILTER (optional)

“Y” filter designed and built to trap the impurities in the water circuit. Fitted with stainless steel mesh cartridge and 0.9 mm openings, it can be replaced without removing the valve body from the piping. This accessory Is recommended to ensure correct system operation.

Possible configurations

PUMP GROUP	Versions		
	A	K	SL-K
EV - 1 PUMP 2P LH (FIX SPEED)(4706)	X	X	X
EV - 1 PUMP 2P HP (FIX SPEED)(4707)	X	X	X
EV - 2 PUMPS 2P LH (FIX SPEED)(4711)	X	X	X
EV - 2 PUMPS 2P HP (FIX SPEED)(4712)	X	X	X
EV - 1 PUMP 2P LH (VAR SPEED)(4717)	X	X	X
EV - 2 PUMPS 2P LH (VAR SPEED)(4722)	X	X	X

HYDRONIC GROUP

Hydronic kit positioning

	Version	EV - 1 PUMP 2P LH (FIX SPEED) (4706)				EV - 1 PUMP 2P HP (FIX SPEED) (4707)				EV - 2 PUMPS 2P LH (FIX SPEED) (4711)				EV - 2 PUMPS 2P HP (FIX SPEED) (4712)			
		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]
0122	A	/	/	/	32	/	/	/	40	/	/	/	65	n.a.	n.a.	n.a.	n.a.
	K	/	/	/	32	/	/	/	40	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	SL-K	/	/	/	32	/	/	/	40	/	/	/	65	n.a.	n.a.	n.a.	n.a.
0152	A	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	SL-K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
0182	A	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	SL-K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
0202	A	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	SL-K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
0232	A	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	SL-K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
0272	A	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	SL-K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
0302	A	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
	SL-K	/	/	/	32	/	/	/	40	/	/	/	65	/	/	/	81
0352	A	/	/	/	33	/	/	/	40	/	/	/	65	/	/	/	81
	K	/	/	/	33	/	/	/	40	/	/	/	65	/	/	/	81
	SL-K	/	/	/	33	/	/	/	40	/	/	/	65	/	/	/	81
0402	A	/	/	/	33	/	/	/	42	/	/	/	65	/	/	/	81
	K	/	/	/	33	/	/	/	42	/	/	/	65	/	/	/	81
	SL-K	/	/	/	33	/	/	/	42	/	/	/	65	/	/	/	81
0452	A	/	/	/	33	/	/	/	42	/	/	/	65	/	/	/	81
	K	/	/	/	33	/	/	/	42	/	/	/	65	/	/	/	81
	SL-K	/	/	/	33	/	/	/	42	/	/	/	65	/	/	/	81
0502	A	/	/	/	41	/	/	/	42	/	/	/	79	/	/	/	81
	K	/	/	/	41	/	/	/	42	/	/	/	79	/	/	/	81
	SL-K	/	/	/	41	/	/	/	42	/	/	/	79	/	/	/	81
0524	A	/	/	/	41	/	/	/	42	/	/	/	79	/	/	/	81
	K	/	/	/	41	/	/	/	42	/	/	/	79	/	/	/	81
	SL-K	/	/	/	41	/	/	/	42	/	/	/	79	/	/	/	81
0552	A	/	/	/	41	/	/	/	42	/	/	/	79	/	/	/	100
	SL-K	/	/	/	41	/	/	/	42	/	/	/	79	/	/	/	100
0602	A	/	/	/	41	/	/	/	47	/	/	/	88	/	/	/	100
	K	/	/	/	41	/	/	/	47	/	/	/	88	/	/	/	100

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)
EV - 1 PUMP 2P LH (FIX SPEED)	EV - 1 PUMP 2P LH (FIX SPEED)
EV - 1 PUMP 2P HP (FIX SPEED)	EV - 1 PUMP 2P HP (FIX SPEED)
EV - 2 PUMPS 2P LH (FIX SPEED)	EV - 2 PUMPS 2P LH (FIX SPEED)
EV - 2 PUMPS 2P HP (FIX SPEED)	EV - 2 PUMPS 2P HP (FIX SPEED)
-	Not available

HYDRONIC GROUP

Hydronic kit positioning

	Version	EV - 1 PUMP 2P LH (FIX SPEED) (4706)				EV - 1 PUMP 2P HP (FIX SPEED) (4707)				EV - 2 PUMPS 2P LH (FIX SPEED) (4711)				EV - 2 PUMPS 2P HP (FIX SPEED) (4712)			
		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]
0602	SL-K	/	/	/	41	/	/	/	47	/	/	/	88	/	/	/	100
0604	A	/	/	/	41	/	/	/	47	/	/	/	88	/	/	/	100
	K	/	/	/	41	/	/	/	47	/	/	/	88	/	/	/	100
	SL-K	/	/	/	41	/	/	/	47	/	/	/	88	/	/	/	100
0702	A	/	/	/	42	/	/	/	47	/	/	/	88	/	/	/	118
	K	/	/	/	42	/	/	/	47	/	/	/	88	/	/	/	118
0704	A	/	/	/	45	/	/	/	47	/	/	/	90	/	/	/	118
	K	/	/	/	45	/	/	/	47	/	/	/	90	/	/	/	118
	SL-K	/	/	/	45	/	/	/	47	/	/	/	90	/	/	/	118
0804	A	/	/	/	46	/	/	/	47	/	/	/	90	/	/	/	118
	K	/	/	/	46	/	/	/	47	/	/	/	90	/	/	/	118
	SL-K	/	/	/	46	/	/	/	47	/	/	/	90	/	/	/	118
0904	A	/	/	/	46	/	/	/	60	/	/	/	112	/	/	/	118
	K	/	/	/	46	/	/	/	60	/	/	/	112	/	/	/	118
	SL-K	/	/	/	46	/	/	/	60	/	/	/	112	/	/	/	118
1004	A	/	/	/	63	/	/	/	60	/	/	/	112	/	/	/	168
	K	/	/	/	63	/	/	/	60	/	/	/	112	/	/	/	168
	SL-K	/	/	/	63	/	/	/	60	/	/	/	112	/	/	/	168
1104	K	/	/	/	63	/	/	/	60	/	/	/	112	/	/	/	168
1204	K	/	/	/	63	/	/	/	60	/	/	/	112	/	/	/	168

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)
EV - 1 PUMP 2P LH (FIX SPEED) EV - 1 PUMP 2P LH (FIX SPEED)
EV - 1 PUMP 2P HP (FIX SPEED) EV - 1 PUMP 2P HP (FIX SPEED)
EV - 2 PUMPS 2P LH (FIX SPEED) EV - 2 PUMPS 2P LH (FIX SPEED)
EV - 2 PUMPS 2P HP (FIX SPEED) EV - 2 PUMPS 2P HP (FIX SPEED)
- Not available

HYDRONIC GROUP

Hydronic kit positioning

	Version	EV - 1 PUMP 2P LH (VAR SPEED) (4717)				EV - 2 PUMPS 2P LH (VAR SPEED) (4722)											
		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]
0092	A	/	/	/	53	n.a.	n.a.	n.a.	n.a.								
	K	/	/	/	53	n.a.	n.a.	n.a.	n.a.								
	SL-K	/	/	/	53	n.a.	n.a.	n.a.	n.a.								
0102	A	/	/	/	53	/	/	/	102								
	K	/	/	/	53	n.a.	n.a.	n.a.	n.a.								
	SL-K	/	/	/	53	/	/	/	102								
0122	A	/	/	/	53	/	/	/	102								
	K	/	/	/	53	n.a.	n.a.	n.a.	n.a.								
	SL-K	/	/	/	53	/	/	/	102								
0152	A	/	/	/	55	/	/	/	107								
	K	/	/	/	55	/	/	/	107								
	SL-K	/	/	/	55	/	/	/	107								
0182	A	/	/	/	55	/	/	/	107								
	K	/	/	/	55	/	/	/	107								
	SL-K	/	/	/	55	/	/	/	107								
0202	A	/	/	/	55	/	/	/	107								
	K	/	/	/	55	/	/	/	107								
	SL-K	/	/	/	55	/	/	/	107								
0232	A	/	/	/	55	/	/	/	107								
	K	/	/	/	55	/	/	/	107								
	SL-K	/	/	/	55	/	/	/	107								
0272	A	/	/	/	55	/	/	/	107								
	K	/	/	/	55	/	/	/	107								
	SL-K	/	/	/	55	/	/	/	107								
0302	A	/	/	/	55	/	/	/	107								
	K	/	/	/	55	/	/	/	107								
	SL-K	/	/	/	55	/	/	/	107								
0352	A	/	/	/	55	/	/	/	107								
	K	/	/	/	55	/	/	/	107								
	SL-K	/	/	/	55	/	/	/	107								
0402	A	/	/	/	55	/	/	/	107								
	K	/	/	/	55	/	/	/	107								
	SL-K	/	/	/	55	/	/	/	107								
0452	A	/	/	/	65	/	/	/	137								
	K	/	/	/	65	/	/	/	137								
	SL-K	/	/	/	65	/	/	/	137								
0502	A	/	/	/	65	/	/	/	137								
	K	/	/	/	65	/	/	/	137								
	SL-K	/	/	/	65	/	/	/	137								
0524	A	/	/	/	66	/	/	/	137								
	K	/	/	/	66	/	/	/	137								
	SL-K	/	/	/	66	/	/	/	137								
0552	A	/	/	/	66	/	/	/	137								

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)
EV - 1 PUMP 2P LH (VAR SPEED)	EV - 1 PUMP 2P LH (VAR SPEED)
EV - 2 PUMPS 2P LH (VAR SPEED)	EV - 2 PUMPS 2P LH (VAR SPEED)
-	Not available

HYDRONIC GROUP

Hydronic kit positioning

	Version	EV - 1 PUMP 2P LH (VAR SPEED) (4717)				EV - 2 PUMPS 2P LH (VAR SPEED) (4722)											
		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]
0552	SL-K	/	/	/	66	/	/	/	137								
0602	A	/	/	/	66	/	/	/	137								
	K	/	/	/	66	/	/	/	137								
	SL-K	/	/	/	66	/	/	/	137								
0604	A	/	/	/	66	/	/	/	137								
	K	/	/	/	66	/	/	/	137								
	SL-K	/	/	/	66	/	/	/	137								
0702	A	/	/	/	66	/	/	/	137								
	K	/	/	/	66	/	/	/	137								
0704	A	/	/	/	66	/	/	/	137								
	K	/	/	/	66	/	/	/	137								
	SL-K	/	/	/	66	/	/	/	137								
0804	A	/	/	/	99	/	/	/	192								
	K	/	/	/	99	/	/	/	192								
	SL-K	/	/	/	99	/	/	/	192								
0904	A	/	/	/	99	/	/	/	192								
	K	/	/	/	99	/	/	/	192								
	SL-K	/	/	/	99	/	/	/	192								
1004	A	/	/	/	99	/	/	/	192								
	K	/	/	/	99	/	/	/	192								
	SL-K	/	/	/	99	/	/	/	192								
1104	K	/	/	/	115	/	/	/	245								
1204	K	/	/	/	115	/	/	/	245								

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)
EV - 1 PUMP 2P LH (VAR SPEED)	EV - 1 PUMP 2P LH (VAR SPEED)
EV - 2 PUMPS 2P LH (VAR SPEED)	EV - 2 PUMPS 2P LH (VAR SPEED)
-	Not available

HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 1 PUMP 2P HP (FIX SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0122	A	31,64	1,513	A1	LNEE 32-160/15	2	3	1,500	182
	K	30,29	1,449						183
	SL-K	29,28	1,400						186
0152	A	38,83	1,857	B1	LNEE 32-160/22	2	5	2,200	236
	K	38,46	1,839						236
	SL-K	37,48	1,792						238
0182	A	46,00	2,200	B2					237
	K	45,45	2,173						237
	SL-K	44,40	2,123						239
0202	A	53,05	2,537	B3					233
	K	51,78	2,476						235
	SL-K	51,20	2,448						236
0232	A	59,17	2,830	B4					231
	K	58,09	2,778						232
	SL-K	56,83	2,718						234
0272	A	67,76	3,240	B5					226
	K	66,80	3,194						228
	SL-K	65,37	3,126						230
0302	A	77,18	3,691	B6					219
	K	75,49	3,610						221
	SL-K	73,49	3,514						224
0352	A	87,21	4,171	B7					210
	K	85,51	4,089						213
	SL-K	82,99	3,969						217
0402	A	99,82	4,774	C1	LNEE 40-125/30	2	6	3,000	233
	K	97,63	4,669						236
	SL-K	94,78	4,533						239
0452	A	113,0	5,402	C2					230
	K	110,0	5,262						228
	SL-K	106,9	5,111						237
0502	A	126,1	6,028	C3					222
	K	125,0	5,978						223
	SL-K	122,4	5,852						226
0524	A	127,2	6,080	C4					221
	K	127,2	6,080						221
	SL-K	124,0	5,929						225
0552	A	141,0	6,742	C5					209
	SL-K	136,4	6,521						215
0602	A	158,5	7,580	D1	LNEE 40-160/40/2	2	8	4,000	279
	K	155,7	7,445						281
	SL-K	150,5	7,196						288
0604	A	150,0	7,174	D2					285
	K	148,4	7,098						285
	SL-K	144,5	6,911						291
0702	A	180,4	8,628	D3					261
	K	178,1	8,518						261
0704	A	173,5	8,298	D4					266
	K	171,2	8,188						268
	SL-K	166,2	7,946						276
0804	A	193,4	9,249	D5					246
	K	191,2	9,143						247

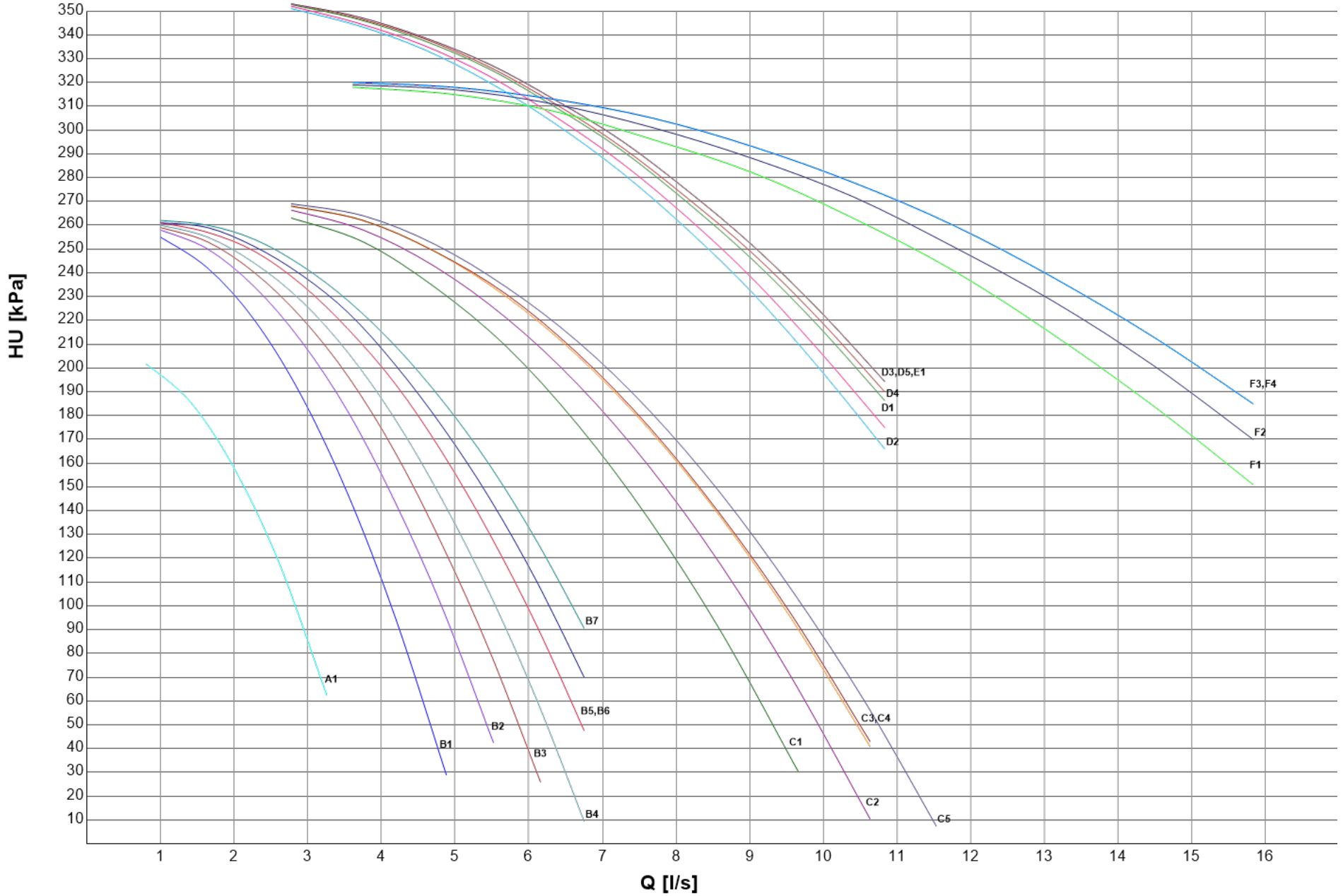
HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 1 PUMP 2P HP (FIX SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0804	SL-K	185,1	8,851	E1	LNEE 40-160/40/2	2	8	4,000	257
0904	A	225,0	10,76	F1	LNEE 50-160/55/2	2	11	5,500	257
	K	220,1	10,52						261
	SL-K	222,3	10,63						259
1004	A	251,1	12,01	F2					247
	K	245,7	11,75						252
	SL-K	243,4	11,64						253
1104	K	281,7	13,47	F3					232
1204	K	291,1	13,92	F4					224

(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 - EV - 1 PUMP 2P HP (FIX SPEED)



HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 1 PUMP 2P LH (FIX SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0122	A	31,64	1,513	A1	LNEE 32-160/07/2	2	2	0,750	98,1
	K	30,29	1,449						99,7
	SL-K	29,28	1,400						103
0152	A	38,83	1,857	B1	LNEE 32-160/11	2	2	1,100	136
	K	38,46	1,839						137
	SL-K	37,48	1,792						138
0182	A	46,00	2,200	B2					136
	K	45,45	2,173						136
	SL-K	44,40	2,123						138
0202	A	53,05	2,537	B3					131
	K	51,78	2,476						133
	SL-K	51,20	2,448						134
0232	A	59,17	2,830	B4					127
	K	58,09	2,778						129
	SL-K	56,83	2,718						131
0272	A	67,76	3,240	B5					121
	K	66,80	3,194						123
	SL-K	65,37	3,126						125
0302	A	77,18	3,691	B6					111
	K	75,49	3,610						114
	SL-K	73,49	3,514						117
0352	A	87,21	4,171	C1	LNEE 32-160/15	2	3	1,500	148
	K	85,51	4,089						151
	SL-K	82,99	3,969						155
0402	A	99,82	4,774	C2					135
	K	97,63	4,669						139
	SL-K	94,78	4,533						144
0452	A	113,0	5,402	C3					122
	K	110,0	5,262						122
	SL-K	106,9	5,111						133
0502	A	126,1	6,028	D1	LNEE 40-125/22	2	5	2,200	159
	K	125,0	5,978						161
	SL-K	122,4	5,852						164
0524	A	127,2	6,080	D2					159
	K	127,2	6,080						159
	SL-K	124,0	5,929						163
0552	A	141,0	6,742	D3					144
	SL-K	136,4	6,521						151
0602	A	158,5	7,580	D4					125
	K	155,7	7,445						128
	SL-K	150,5	7,196						137
0604	A	150,0	7,174	D5					134
	K	148,4	7,098						135
	SL-K	144,5	6,911						142
0702	A	180,4	8,628	E1	LNEE 40-125/30	2	6	3,000	167
	K	178,1	8,518						168
0704	A	173,5	8,298	F1	LNEE 50-125/22/2	2	5	2,200	114
	K	171,2	8,188						115
	SL-K	166,2	7,946						120
0804	A	193,4	9,249	G1	LNEE 50-125/30/2	2	6	3,000	147
	K	191,2	9,143						147

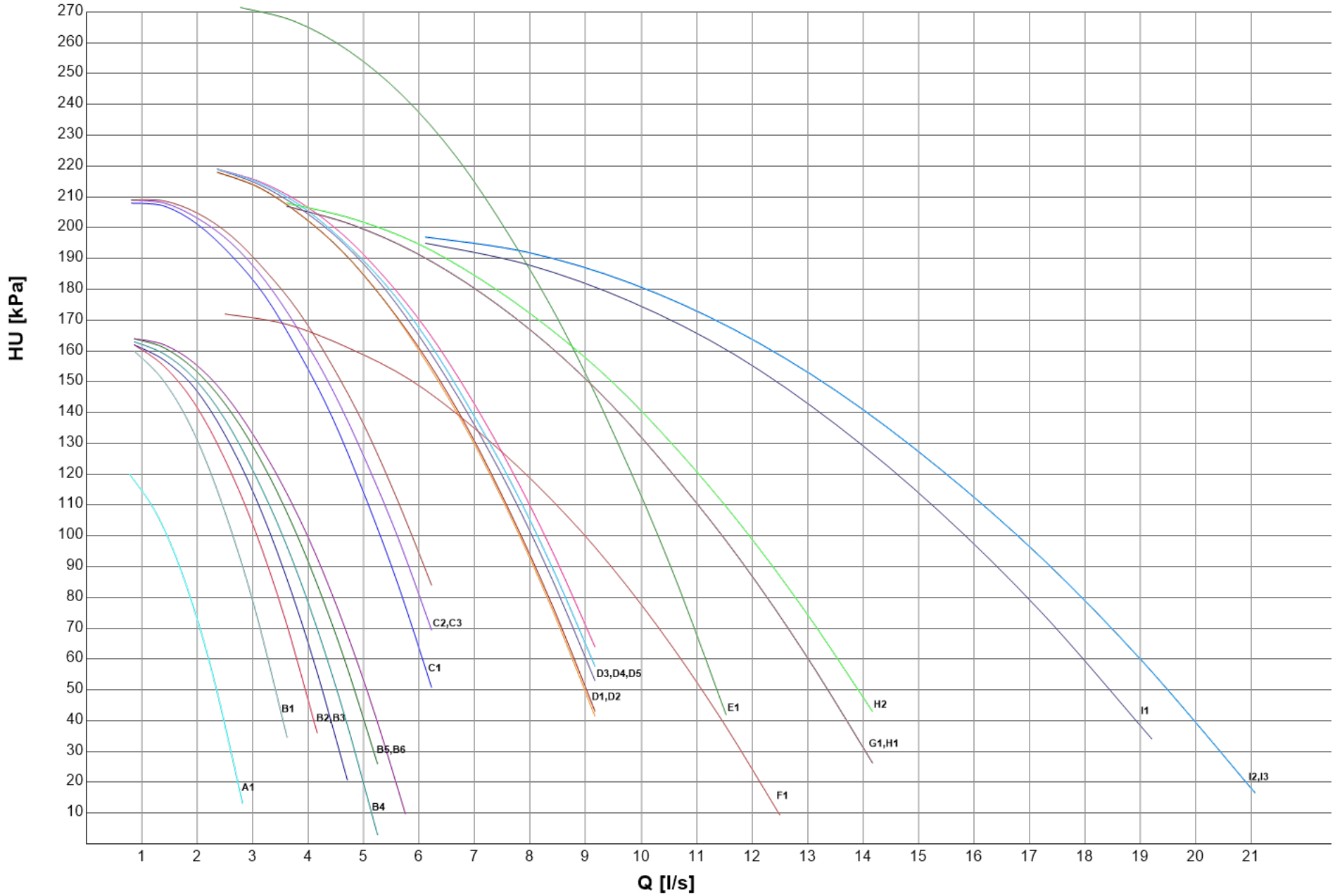
HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 1 PUMP 2P LH (FIX SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0804	SL-K	185,1	8,851	H1	LNEE 50-125/30/2	2	6	3,000	154
0904	A	225,0	10,76	H2					126
	K	220,1	10,52						130
	SL-K	222,3	10,63						128
1004	A	251,1	12,01	I1	LNEE 65-125/40/2	2	8	4,000	155
	K	245,7	11,75						158
	SL-K	243,4	11,64						159
1104	K	281,7	13,47	I2					147
1204	K	291,1	13,92	I3					142

(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 - EV - 1 PUMP 2P LH (FIX SPEED)



HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 1 PUMP 2P LH (VAR SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0092	A	22,91	1,096	A1	TPE 32-250/2	2	3	1,500	213
	K	22,48	1,075						213
	SL-K	21,89	1,047						215
0102	A	27,39	1,310	A2					212
	K	26,53	1,269						213
	SL-K	25,62	1,225						215
0122	A	31,64	1,513	A3					210
	K	30,29	1,449						212
	SL-K	29,28	1,400						214
0152	A	38,83	1,857	B1	TPE 32-320/2	2	4	2,200	271
	K	38,46	1,839						271
	SL-K	37,48	1,792						273
0182	A	46,00	2,200	B2					270
	K	45,45	2,173						271
	SL-K	44,40	2,123						272
0202	A	53,05	2,537	B3					264
	K	51,78	2,476						266
	SL-K	51,20	2,448						267
0232	A	59,17	2,830	B4					260
	K	58,09	2,778						262
	SL-K	56,83	2,718						264
0272	A	67,76	3,240	B5					252
	K	66,80	3,194						254
	SL-K	65,37	3,126						257
0302	A	77,18	3,691	B6					241
	K	75,49	3,610						244
	SL-K	73,49	3,514						248
0352	A	87,21	4,171	B7					228
	K	85,51	4,089						231
	SL-K	82,99	3,969						236
0402	A	99,82	4,774	B8					211
	K	97,63	4,669						215
	SL-K	94,78	4,533						221
0452	A	113,0	5,402	C1	TPE 40-300/2	2	6	3,000	229
	K	110,0	5,262						227
	SL-K	106,9	5,111						237
0502	A	126,1	6,028	C2					218
	K	125,0	5,978						219
	SL-K	122,4	5,852						223
0524	A	127,2	6,080	D1	TPE 50-290/2	2	6	3,000	227
	K	127,2	6,080						227
	SL-K	124,0	5,929						230
0552	A	141,0	6,742	D2					218
	SL-K	136,4	6,521						223
0602	A	158,5	7,580	D3					207
	K	155,7	7,445						208
	SL-K	150,5	7,196						215
0604	A	150,0	7,174	D4					212
	K	148,4	7,098						212
	SL-K	144,5	6,911						218
0702	A	180,4	8,628	D5					191

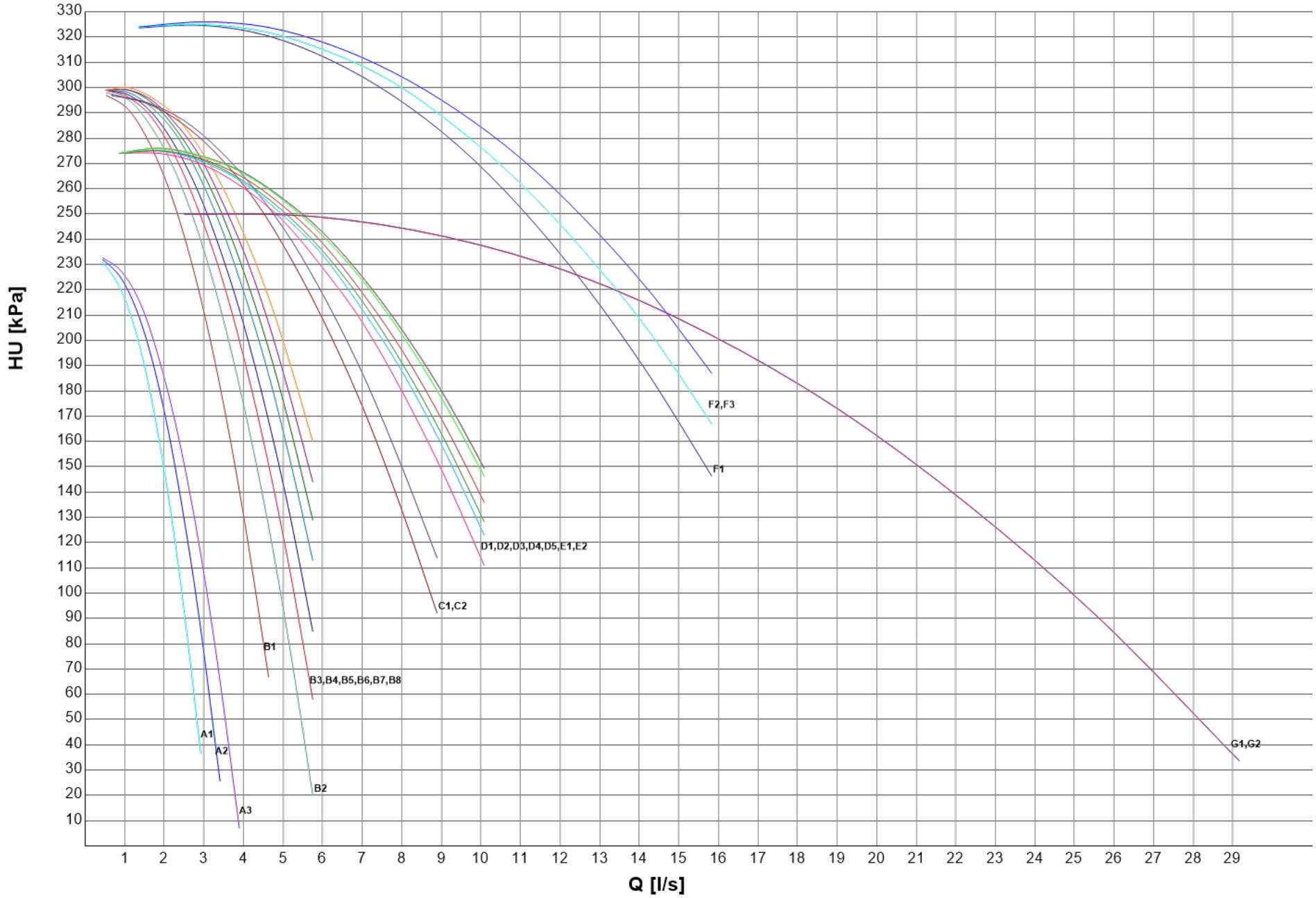
HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 1 PUMP 2P LH (VAR SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0702	K	178,1	8,518	E1	TPE 50-290/2	2	6	3,000	191
0704	A	173,5	8,298	E2					196
	K	171,2	8,188						197
	SL-K	166,2	7,946						204
0804	A	193,4	9,249	F1	TPE 65-340/2	2	10	5,500	280
	K	191,2	9,143						279
	SL-K	185,1	8,851						285
0904	A	225,0	10,76	F2					266
	K	220,1	10,52						269
	SL-K	222,3	10,63						268
1004	A	251,1	12,01	F3					258
	K	245,7	11,75						261
	SL-K	243,4	11,64						263
1104	K	281,7	13,47	G1	TPE 80-250/2	2	14	7,500	219
1204	K	291,1	13,92	G2					216

(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 - EV - 1 PUMP 2P LH (VAR SPEED)



HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 2 PUMPS 2P HP (FIX SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0152	A	38,83	1,857	A1	LNTE 32-160/22/2	2	5	2,200	236
	K	38,46	1,839						237
	SL-K	37,48	1,792						239
0182	A	46,00	2,200	A2					235
	K	45,45	2,173						236
	SL-K	44,40	2,123						238
0202	A	53,05	2,537	A3					230
	K	51,78	2,476						232
	SL-K	51,20	2,448						233
0232	A	59,17	2,830	A4					226
	K	58,09	2,778						228
	SL-K	56,83	2,718						230
0272	A	67,76	3,240	A5					219
	K	66,80	3,194						221
	SL-K	65,37	3,126						223
0302	A	77,18	3,691	A6					209
	K	75,49	3,610						212
	SL-K	73,49	3,514						215
0352	A	87,21	4,171	B1	LNTE 40-125/30	2	6	3,000	232
	K	85,51	4,089						234
	SL-K	82,99	3,969						237
0402	A	99,82	4,774	B2					226
	K	97,63	4,669						229
	SL-K	94,78	4,533						232
0452	A	113,0	5,402	B3					221
	K	110,0	5,262						219
	SL-K	106,9	5,111						228
0502	A	126,1	6,028	B4					211
	K	125,0	5,978						213
	SL-K	122,4	5,852						216
0524	A	127,2	6,080	B5					211
	K	127,2	6,080						211
	SL-K	124,0	5,929						215
0552	A	141,0	6,742	C1	LNTE 50-160/40/2	2	8	4,000	224
	SL-K	136,4	6,521						227
0602	A	158,5	7,580	C2					217
	K	155,7	7,445						218
	SL-K	150,5	7,196						223
0604	A	150,0	7,174	C3					220
	K	148,4	7,098						220
	SL-K	144,5	6,911						224
0702	A	180,4	8,628	D1	LNTE 50-160/55/2	2	11	5,500	280
	K	178,1	8,518						279
0704	A	173,5	8,298	D2					282
	K	171,2	8,188						282
	SL-K	166,2	7,946						287
0804	A	193,4	9,249	D3					272
	K	191,2	9,143						273
	SL-K	185,1	8,851						279
0904	A	225,0	10,76	D4					253
	K	220,1	10,52						258

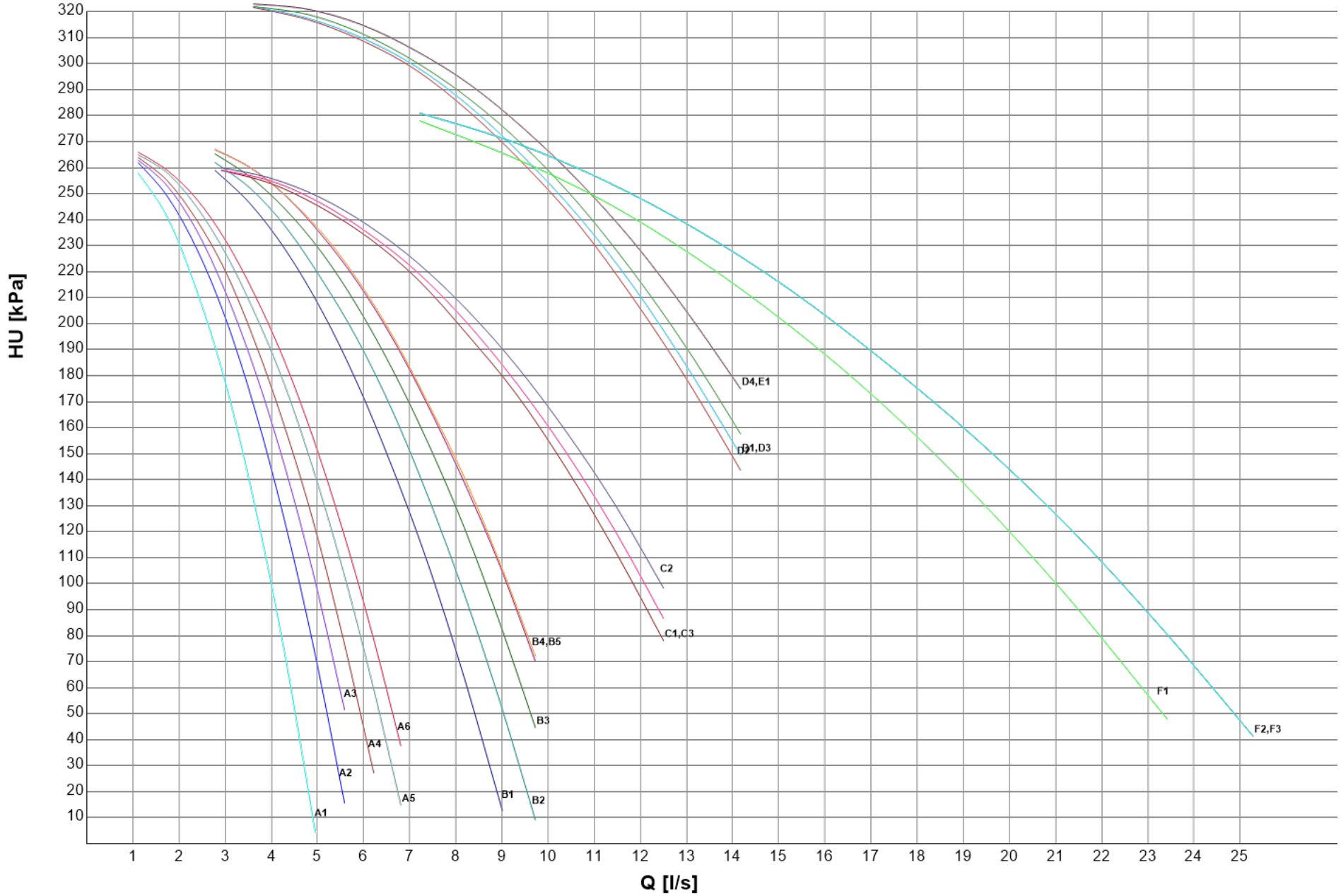
HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 2 PUMPS 2P HP (FIX SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0904	SL-K	222,3	10,63	E1	LNTE 50-160/55/2	2	11	5,500	256
1004	A	251,1	12,01	F1	LNTE 65-125/75/2	2	14	7,500	239
	K	245,7	11,75						242
	SL-K	243,4	11,64						243
1104	K	281,7	13,47	F2					233
1204	K	291,1	13,92	F3					228

(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 - EV - 2 PUMPS 2P HP (FIX SPEED)



HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 2 PUMPS 2P LH (FIX SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0122	A	31,64	1,513	A1	LNTE 32/160/07/2	2	0	0,750	98,0
	SL-K	29,28	1,400						103
0152	A	38,83	1,857	B1	LNTE 32-160/11/2	2	2	1,100	135
	K	38,46	1,839						135
	SL-K	37,48	1,792						137
0182	A	46,00	2,200	B2					133
	K	45,45	2,173						134
	SL-K	44,40	2,123						136
0202	A	53,05	2,537	B3					128
	K	51,78	2,476						130
	SL-K	51,20	2,448						131
0232	A	59,17	2,830	B4					123
	K	58,09	2,778						125
	SL-K	56,83	2,718						127
0272	A	67,76	3,240	B5					115
	K	66,80	3,194						117
	SL-K	65,37	3,126						119
0302	A	77,18	3,691	C1	LNTE 40-125/15 /2	2	3	1,500	130
	K	75,49	3,610						133
	SL-K	73,49	3,514						136
0352	A	87,21	4,171	C2					121
	K	85,51	4,089						124
	SL-K	82,99	3,969						127
0402	A	99,82	4,774	C3					110
	K	97,63	4,669						113
	SL-K	94,78	4,533						118
0452	A	113,0	5,402	C4					98,9
	K	110,0	5,262						98,4
	SL-K	106,9	5,111						109
0502	A	126,1	6,028	D1	LNTE 40-125/22	2	5	2,200	140
	K	125,0	5,978						142
	SL-K	122,4	5,852						146
0524	A	127,2	6,080	D2					139
	K	127,2	6,080						139
	SL-K	124,0	5,929						144
0552	A	141,0	6,742	D3					121
	SL-K	136,4	6,521						129
0602	A	158,5	7,580	E1	LNTE 50-125/22/2	2	5	2,200	109
	K	155,7	7,445						110
	SL-K	150,5	7,196						116
0604	A	150,0	7,174	E2					113
	K	148,4	7,098						113
	SL-K	144,5	6,911						118
0702	A	180,4	8,628	E3					98,3
	K	178,1	8,518						97,2
0704	A	173,5	8,298	F1	LNTE 50-125/30/2	2	6	3,000	145
	K	171,2	8,188						145
	SL-K	166,2	7,946						151
0804	A	193,4	9,249	F2					132
	K	191,2	9,143						133
	SL-K	185,1	8,851						140

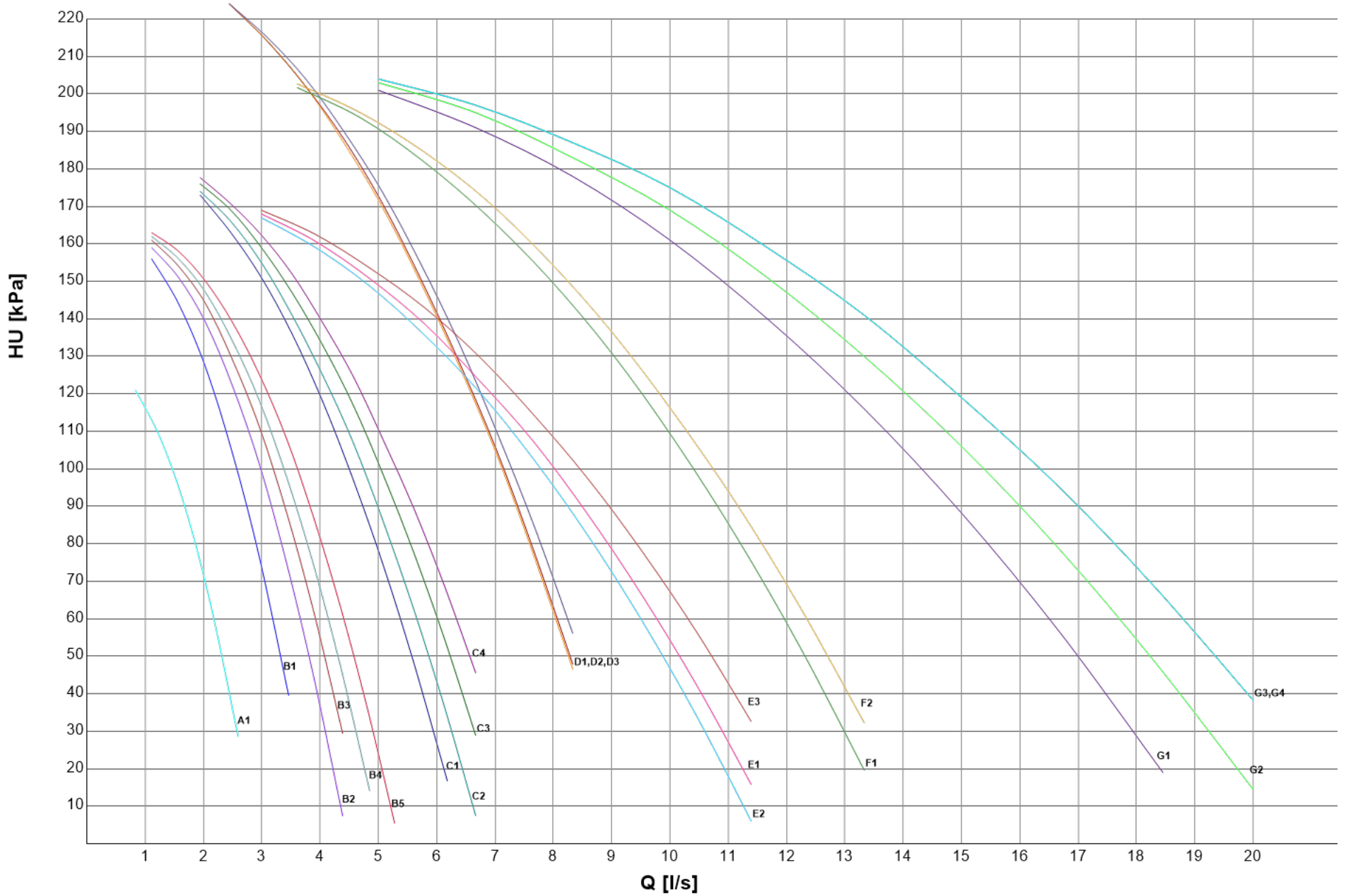
HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 2 PUMPS 2P LH (FIX SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0904	A	225,0	10,76	G1	LNTE 65-125/40/2	2	8	4,000	152
	K	220,1	10,52						155
	SL-K	222,3	10,63						153
1004	A	251,1	12,01	G2					147
	K	245,7	11,75						150
	SL-K	243,4	11,64						151
1104	K	281,7	13,47	G3					139
1204	K	291,1	13,92	G4					133

(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 - EV - 2 PUMPS 2P LH (FIX SPEED)



HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 2 PUMPS 2P LH (VAR SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0102	A	27,39	1,310	A1	TPED 32-250/2	2	3	1,500	210
	SL-K	25,62	1,225						214
0122	A	31,64	1,513	A2					206
	SL-K	29,28	1,400						211
0152	A	38,83	1,857	B1	TPED 32-320/2	2	4	2,200	266
	K	38,46	1,839						267
	SL-K	37,48	1,792						269
0182	A	46,00	2,200	B2					262
	K	45,45	2,173						263
	SL-K	44,40	2,123						265
0202	A	53,05	2,537	B3					253
	K	51,78	2,476						256
	SL-K	51,20	2,448						257
0232	A	59,17	2,830	B4					246
	K	58,09	2,778						248
	SL-K	56,83	2,718						251
0272	A	67,76	3,240	B5					235
	K	66,80	3,194						237
	SL-K	65,37	3,126						240
0302	A	77,18	3,691	B6					219
	K	75,49	3,610						223
	SL-K	73,49	3,514						227
0352	A	87,21	4,171	B7					201
	K	85,51	4,089						205
	SL-K	82,99	3,969						211
0402	A	99,82	4,774	B8					177
	K	97,63	4,669						183
	SL-K	94,78	4,533						190
0452	A	113,0	5,402	C1	TPED 40-300/2	2	6	3,000	208
	K	110,0	5,262						207
	SL-K	106,9	5,111						217
0502	A	126,1	6,028	C2					194
	K	125,0	5,978						195
	SL-K	122,4	5,852						200
0524	A	127,2	6,080	D1	TPED 50-290/2	2	6	3,000	205
	K	127,2	6,080						205
	SL-K	124,0	5,929						209
0552	A	141,0	6,742	D2					193
	SL-K	136,4	6,521						199
0602	A	158,5	7,580	E1	TPED 65-340/2	2	10	5,500	285
	K	155,7	7,445						285
	SL-K	150,5	7,196						290
0604	A	150,0	7,174	E2					287
	K	148,4	7,098						286
	SL-K	144,5	6,911						290
0702	A	180,4	8,628	E3					279
	K	178,1	8,518						278
0704	A	173,5	8,298	E4					281
	K	171,2	8,188						281
	SL-K	166,2	7,946						286
0804	A	193,4	9,249	E5					272

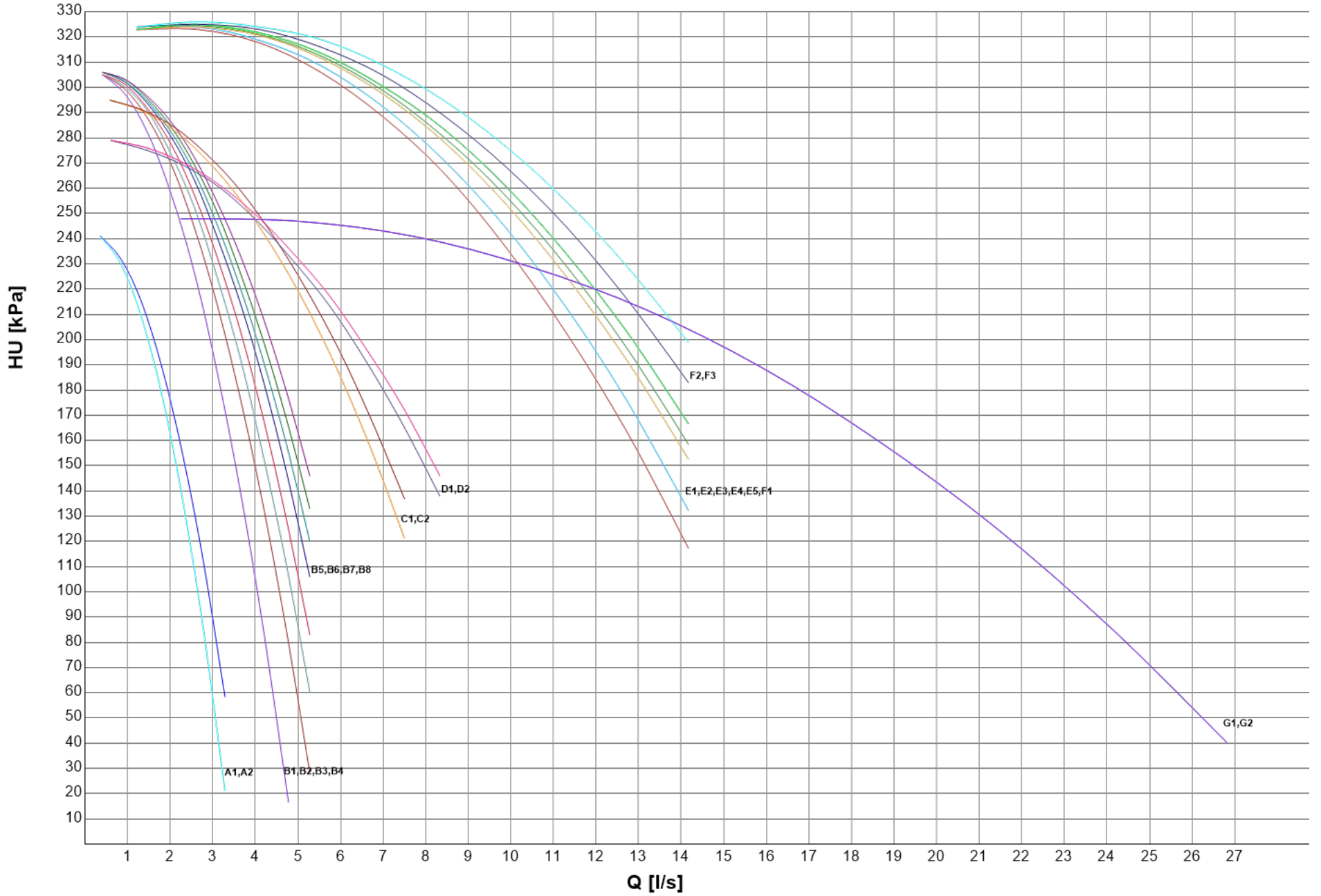
HYDRONIC GROUP

HEAT EXCHANGER USER SIDE - EV - 2 PUMPS 2P LH (VAR SPEED)

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Curve	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0804	K	191,2	9,143	F1	TPED 65-340/2	2	10	5,500	272
	SL-K	185,1	8,851						278
0904	A	225,0	10,76	F2					255
	K	220,1	10,52						259
	SL-K	222,3	10,63						257
1004	A	251,1	12,01	F3					243
	K	245,7	11,75						247
	SL-K	243,4	11,64						249
1104	K	281,7	13,47	G1	TPED 80-250/2	2	14	7,500	209
1204	K	291,1	13,92	G2					206

(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 - EV - 2 PUMPS 2P LH (VAR SPEED)



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