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

Data Book

NX-N-G06 0202P - 0812P_202107_EN R454B
ELCA_Engine ver.4.5.5.5

HEATING
COOLING

NX-N-G06 0202P - 0812P

44,9-211 kW
Reversible unit, air source for outdoor installation

R454B
SCROLL
PLATES

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

- LOW GWP REFRIGERANT
- WIDE OPERATING LIMITS
- ELECTRONIC EXPANSION VALVE
- CLASS A EFFICIENCY
- TWO SOUND EMISSION LEVELS
- INTEGRATED HYDRONIC GROUP

CLIMAVENETA®

INDEX

The units highlighted in this publication contain R454B [GWP_{100} 467] fluorinated greenhouse gases.

LEGEND

Functions

Cooling

Heating

Refrigerant

R454B

Compressors

Scroll compressor

Fan

Axial fan

Exchangers

Plates heat exchanger

Other features right position

Energy Class A

Other features

Eurovent

1.1 Product certifications

1.2 Voluntary product certifications

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

1.3 System certifications

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

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

Occupational Health and Safety Management System complying with the requirements of BS OHSAS 18001:2007

2.1 Green certification relevant

FOCUS ON 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/

2.2 Unit Description

Outdoor unit for the production of chilled/hot water with two scroll compressors, optimized for low-GWP R454B refrigerant in a single-circuit configuration, axial-flow fans, condensing coil with copper tubes and aluminum fins and plate heat exchanger.

2.3 Key Features

LOW GWP REFRIGERANT

The new generation refrigerant R454B is the most eco-sustainable alternative to traditional refrigerant R410A, offering a 76% reduction in terms of GWP (Global Warming Potential GWP of R454B = 467, GWP of R410A = 1924 as per IPCC rev. 5th) and zero impact on the ozone layer.

WIDE OPERATING LIMITS

These units are operative at full load in heat pump mode down to -15°C outdoor air temperature, and up to 46°C in chiller mode without needing additional options. At -15°C outdoor air temperature, these heat pumps are able to produce hot water up to 42°C at full load.

ELECTRONIC EXPANSION VALVE

The use of the electronic expansion valve generates considerable benefits, especially in cases of variable demand and different external conditions. It has been introduced to these units as a result of accurate design choices concerning the cooling circuit and the optimization of operation in various different working conditions. The electronic expansion valve comes standard in the high-efficiency CA version.

CLASS A EFFICIENCY

The full range is also available with the Class A efficiency rating (in heating). CA version guarantees noise configurations at premium levels of efficiency thanks to the generous sizing of the refrigerant-exchange surface areas and to an accurate control of the fans.

TWO SOUND EMISSION LEVELS

Two different sound emission levels available. This means the best unit can be identified based on requirements, according to the system where it will be installed and the application.

INTEGRATED HYDRONIC GROUP

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

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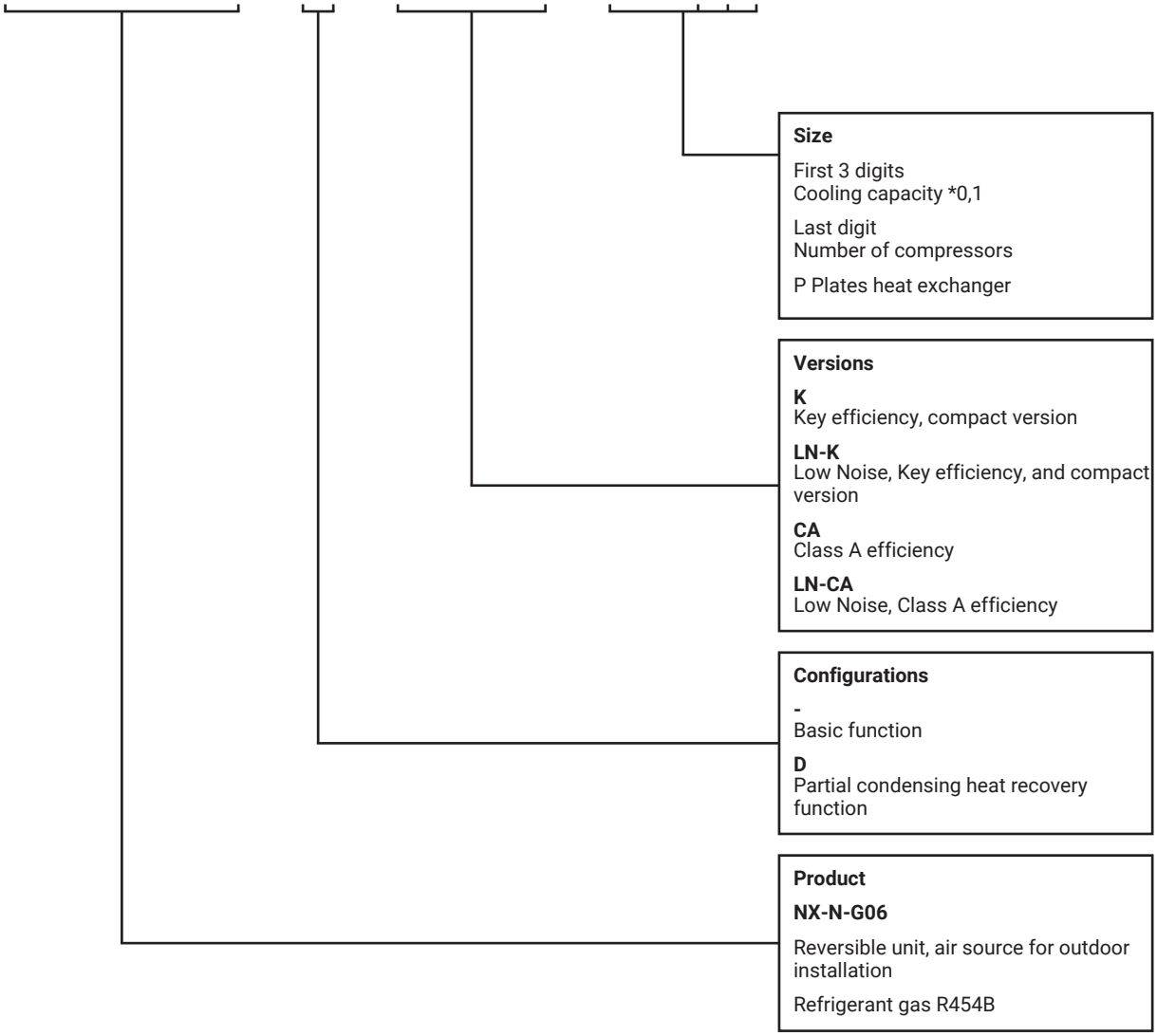


4.1 Standard unit composition

Reversible unit, air source for outdoor installation

Outdoor unit for the production of chilled/hot water with two scroll compressors, optimized for low-GWP R454B refrigerant in a single-circuit configuration, axial-flow fans, condensing coil with copper tubes and aluminum fins and plate heat exchanger.

Installation note

The unit is supplied fully refrigerant charged and factory tested. On site installation only requires power and hydraulic connection.

Structure

Structure specifically designed for outdoor installation. Basement and frame in hot-galvanised shaped sheet steel with a suitable thickness. All parts polyester-powder painted to assure total weather resistance (Longitudinal V-shaped coil module).

Structure

Frame with base in polyester-painted thick hot-galvanised sheet steel. Shaped aluminium walls (Dual coil module).

Panelling

Specific panelling for outdoor installation in aluminium alloy which ensures total resistance to atmospheric agents, easily removable, made in such a way as to allow total access to the internal components to facilitate inspection and maintenance work (Dual coil module).

Compressor

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

Plant side heat exchanger

Braze welded AISI 316 plate heat exchanger. The heat exchanger is lined on the outside with 9 mm thick closed-cell neoprene lagging to prevent condensation, with a thermal conductivity of 0,33 W/mK at 0°C. The heat exchanger is fitted with a differential pressure switch to monitor the correct flow of water when the unit is operating, thus preventing ice form forming inside; if no flow is detected, the frost protection function is activated using a special heater.
The heat exchanger comes standard with safety pressure release valve (water side) (10 bar).

Source side heat exchanger

Finned coil exchanger made from copper tubes and aluminium fins. The aluminium fins are correctly spaced to guarantee optimum heat exchange efficiency. The differentiated circulation suitably distributes the liquid in the coil during the expansion phase.

Fan section source side

Axial electric fans, protected to IP 54, with external rotor and plastic-coated aluminium blades. Housed in aerodynamic hoods complete with safety grille. 6 - pole electric motor with built-in overload protection. Differentiated ventilation control disabling the fan section of inactive circuits.
Fans diameter: 450mm, 800mm, 910mm according to different sizes and versions.
Condensation control with adjustment of fan rotation speed.

Continuous adjustment of the fan speed on units:
- versions K, sizes 0152P..0352P
- versions LN-K sizes 0152P..0302P
- versions CA sizes 0152P..0262P
- versions LN-CA, sizes 0152P..0262P

Pressostatic fan's control:
- versions K sizes 0402P..0802P

Adjustment of the fan speed with auto-transformer on units:
- versions LN-K sizes 0402P..0802P
- versions LN-CA, sizes 0302P..0812P

Refrigerant circuit

Main components of the cooling circuit:

- circuit with hermetic scroll compressors in tandem configuration
- crankcase heater on each compressor
- R454B refrigerant
- total ratio between refrigerant charge and cooling capacity* lower than 0,12 g/W (versions K, LN-K, CA)
- total ratio between refrigerant charge and cooling capacity* lower than 0,15 g/W (versions LN-CA)
- plate heat exchanger
- drier filter; with replaceable cartridge (sizes 0452..0812)
- refrigerant line sight glass with humidity indicator
- electronic expansion valves (versions CA, LN-CA)
- mechanical thermostatic expansion valves (versions K, LN-K)
- high and low pressure transducers
- high and low pressure safety valves, conveyed to external discharge
- high and low pressure switches
- liquid line solenoid valve (versions CA, LN-CA)
- liquid line shut-off valve (sizes 0452..0812)

* Cooling capacity according to Eurovent conditions: water(in/out) 12/7°C, outdoor temperature 35°C

Electrical and control panel

Electrical and control panel built in accordance with EN60204-1 standard, complete with:

- electric panel with double door
- control circuit transformer
- general door lock isolator
- numbered cables
- electric circuit breakers for compressors and fans
- terminals for cumulative alarm block
- remote ON/OFF terminals
- spring-type control circuit terminal board
- relays for remote pump(s) activation for both circuits (only for units without hydronic pumps)
- electronic controller
- multi-language user keypad with LCD display

- IP44 protection

Power supply 400V/3ph/50Hz+N+PE for units:

- versions K, sizes 0152P..0352P
- versions LN-K sizes 0152P.. 0352P
- versions CA sizes 0152P..0262P
- versions LN-CA, sizes 0152P..0262P

Power supply 400V/3ph/50Hz+PE for units:

- versions K, sizes 0402P..0802P
- versions LN-K sizes 0352P..0802P
- versions CA sizes 0302P..0812P
- versions LN-CA, sizes 0302P..0812P

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
- Low Voltage directive 2006/95/EC
- ElectroMagnetic compatibility directive 89/336/EEC + 2004/108/EC
- PED directive 2014/68/EU
- ISO 9001 - Company Quality Management System certification
- ISO 14001 - Company Environmental Management System certification

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.

R454B REFRIGERANT

The refrigerant used in these units is R454B, one of the most eco-sustainable refrigerants for replacing traditional R410A, thanks to the 76% lower GWP.
Unlike R410A, R454B is classified as A2L according to ISO 817. The first digit defines toxicity (A: NON-TOXIC), while the last digits define the flammability level (2L: MILDLY FLAMMABLE - low burning velocity). It is classified by PED Directive into Group 1.
The main characteristics of this refrigerant and some additional guidelines are reported below. Despite the minimal risk, the indications provided cannot replace a more detailed risk analysis if required, also based on any regulations in force in the installation area.
Further and more detailed guidelines are available in the dedicated area of the website www.melcohit.com (Guidelines) or in the dedicated addendum of the general installation and maintenance manual.
Main characteristics of R454B refrigerant:
- Safety classification (ASHRAE / ISO 817): A2L
- PED Group: 1
- Ozone Depletion Potential (ODP) (R11=1): 0
- AR5 (AR4) GWP (CO2=1): 467 (466)
- Composition (Wt %): 68,9% R32, 31,1% R1234yf
- LFL@23°C, 50% RH (% v/v): 11,7
- UFL@23°C, 50% RH (% v/v): 22,0
- Burning velocity (cm/s): 5,2
- Minimum Ignition Energy (mJ) (ASTM E582-13): 100-300

• All operations on the unit must be performed by trained and qualified personnel on flammable refrigerants handling, in accordance with the relevant local standards and codes of practice.
• The refrigerant is heavier than air and can stagnate, reaching a dangerous concentration. To avoid risks, maintain a safe environment by ensuring adequate ventilation.
• The units must be installed in such a way as to prevent any refrigerant leaks from flowing into the buildings or any place where it could cause damage to people, animals or properties. Pay particular attention to the presence and disposition of any external air intakes, doors, shutters, etc.
• The units are equipped with conveyed safety valves with external discharge. In case of over-pressure, refrigerant gas can escape from these valves: the discharge of these ducts must be directed towards safe areas and away from the ground or potential sources of ignition.
• Do not braze pipes and components containing refrigerant.
• Do not use flames to cut / open pipes.
• The units are equipped with a safety valve (water side). In case of breakage of the heat exchanger and resulting overpressure, refrigerant gas can escape from these valves: the discharge of these valves must be directed towards safe areas and away from the ground or potential sources of ignition.
• The hydraulic circuit must be designed in such a way as to prevent the release of refrigerant gas inside the buildings or in any case in places where it can cause damage to people, animals or properties.

4.2 Unit standard composition – Additional information

The family is developed on two different structures:

The following table shows the structure of all the available sizes/version:

Structure	Size											
Longitudinal V	202	252	262	302	352	402	452	502	552	602	702	802
Dual coil									562	612	712	812

Version	Net cooling capacity (kW) - EN14511 - (1)											
K	49	56	62	71	81	96	108	120	132	155	172	191
LN-K	45	51	58	67	75	91	99	109	126	148	161	172
CA	49	57	64	78	88	98	111	125	146	163	189	210
LN-CA	46	52	57	76	83	95	105	120	138	158	181	204

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

The following table shows the controller of all the available sizes/version:

	Size											
Version	202	252	262	302	352	402 412	452 462	502 512	552 562	602 612	702 712	802 812
K	W3000+											
LN-K												
CA												
LN-CA												

The following table shows fan diameters (mm), fan motor types and std ventilation controls of all the available sizes/version:

	Size											
Version	202	252	262	302	352	402 412	452 462	502 512	552 562	602 612	702 712	802 812
K	Ø450 4 poles	Ø450 4 poles	Ø450 4 poles	Ø450 4 poles	Ø450 4 poles	Ø800 6 poles	Ø800 6 poles	Ø800 6 poles	Ø910 6 poles	Ø800 6 poles	Ø800 6 poles	Ø800 6 poles
LN-K	Ø450 4 poles	Ø450 4 poles	Ø450 4 poles	Ø450 4 poles	Ø450 4 poles	Ø800 6 poles	Ø800 6 poles	Ø800 6 poles	Ø910 6 poles	Ø800 6 poles	Ø800 6 poles	Ø800 6 poles
CA	Ø450 4 poles	Ø450 4 poles	Ø450 4 poles	Ø800 6 poles	Ø800 6 poles	Ø910 6 poles	Ø910 6 poles	Ø800 6 poles	Ø800 6 poles	Ø800 6 poles	Ø800 6 poles	Ø800 6 poles
LN-CA	Ø450 4 poles	Ø450 4 poles	Ø450 4 poles	Ø800 6 poles	Ø800 6 poles	Ø910 6 poles	Ø910 6 poles	Ø800 6 poles	Ø800 8 poles	Ø800 8 poles	Ø800 8 poles	Ø800 8 poles

DVV (p.c.)	Fan speed controlled by phase-cut devices
DP	Pressostatic fan control (DVV with autotransformers available as option)
DVV (a.t.)	Fan speed controlled by autotransformers

Note:
The unit's operating limit depends on its ventilation control. Optional devices are available to enlarge the operating limits.
Please refer to the dedicated data book section and to ElcaWorld selection software.

4.3 Versions

/K - Key efficiency, compact version

Key efficiency, compact version.

/LN-K - Low Noise, Key efficiency and compact version

This configuration features a special soundproofing for the compressor compartment and the pumps (if present) and a reduced fan speed.
The fan speed is automatically increased in case of particularly tough environmental conditions.

/CA - Class A of efficiency

Class A of efficiency as per Eurovent (in heating mode).

/LN-CA - Low Noise, Class A of efficiency

Class A low-noise, in accordance with Eurovent (in heating mode).
This configuration features special soundproofing for the compressor chamber and pumps (if present) and a reduced fan speed. Fan speed is automatically increased, however, in the event of particularly tough environmental conditions.

4.4 Configurations

- , standard unit

Reversible standard unit for production of chilled/hot water according to the selected operation mode.

/D, unit with partial heat recovery

Unit for the production of water for the primary circuit and for sanitary purposes.
This version features an additional water/coolant heat exchanger on the gas delivery line, fitted in series with the traditional cooling circuit condenser. This allows to recover the de-superheating heat for the production of medium-to-high temperature water (secondary or recovery circuit). Hot water can be produced in the recovery circuit for domestic hot water and the like both in summer and winter. The heating capacity of this circuit is approximately equal to the power input of the compressor.

4.5 Electronic controller

Electronic control W3000+

W3000+ features an easy-to-use interface and a complete LCD display that allows one to consult and intervenet by means of a multi-language menu (19 languages are available). The diagnostics includes a complete alarm management, with the “black-box” and the alarm history display for enhanced analysis of the unit operation. The programmable timer manages a weekly schedule organized into time bands to optimize unit performance by minimizing power consumption during periods of inactivity. Up to 10 daily time bands can be associated with different operating set points. As option, KIPlink is available - Keyboard In Your Pocket. KIPlink is the innovative user interface based on WiFi technology that allows one to operate on the unit directly from the smartphone or tablet.
The regulation is based on the patented “Quickmind” water temperature regulation logic uses self-adapting control to maintain flow temperatures and optimize performance even in low water content scenarios. As an alternative, the proportional or proportional-integral regulations are also available.
Optional proprietary devices can perform the adjustment of resources in systems made of several units. Consumption metering and performance measurement are possible as well.
Supervision can be easily developed via proprietary devices or the integration in third party systems by means of the most common protocols as ModBus, Bacnet, Bacnet-over-IP, Bacnet MS/TP RS485, LonWorks, Konnex. Compatibility with the remote keyboard (up to 8 units). The defrosting (reversible unit only) follows a proprietary self-adaptive logic, which features the monitoring of several operational parameters, therefore reducing the number and duration of the defrost cycles, with a benefit for the overall energy efficiency.

KIPlink - Keyboard In your Pocket (option 6196)

KIPlink - Keyboard In Your Pocket - is the innovative user interface based on WiFi technology that allows one to operate on the unit directly from the 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 in detail the status of the refrigerant circuits, the compressors, the fans (if present) and the pumps (if present) and display and reset the possible alarms.

Night mode (option 1430)

The night mode function allows to reduce the sound power of the unit, reducing the speed of the fans and the number of active compressors.

U.L.C. - User limit control (option 4960)

Guaranteed the start-up of the units with the option U.L.C. even when the critical working condition could generate an alarm.
The controller can manage a 3way mixing valve (not provided) by 0-10V signal for ensuring a dynamic control of the water temperature on user heat exchanger according to the operating limits allowed. This ensures the start-up and correct functioning of the unit into the envelope, also even critical whether condition.

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
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
2410 **PHASE SEQUENCE RELAY**			
2411 WITH EXTERNAL PHASE SEQUENCE RELAY	Relay for checking mains phase-sequence	Protects loads against faults due to incorrect connection of mains	ALL
3300 **COMPRESSOR REPHASING**			
3301 COMPR.POWER FACTOR CORR.	Capacitors on the compressors' power inlet line.	The unit's average cos(phi) increases.	ALL
3410 **AUTOMATIC CIRCUIT BREAKERS**			
3412 AUTOM. CIRCUIT BREAK. ON LOADS	Over-current switch on the major electrical loads.	In case of overcurrent allows resetting of the switch without the replacement of relative fuses.	ALL
3600 **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
4160 **WINTER/SUMMER SWITCHOVER**			
4161 REMOTE SUMMER/WINTER SWITCH	Digital input (voltage free)	Allows to change the operating mode (Cooling/Heating) according to a remote switch	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
4186 SERIAL CARD FOR KONNEX	Protocol for KNX system	Allows integration with BMS operating with KNX protocol	ALL
4187 M-Net W3000 INTERFACE KIT	Interface kit for M-Net protocol.	Interface module to allow the integration of the unit with Mitsubishi Electric proprietary communication protocol M-Net.	ALL
4188 SERIAL CARD MODBUS TCP/IP	Interface module for ModBus TCP/IP protocol	Allows integration with BMS operating with ModBus TCP/IP protocol.	ALL
4189 SERIAL CARD SNMP	Interface module for SNMP protocol	Allows integration with BMS operating with SNMP protocol.	ALL

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
1470 **MULTIFUNCTION CARD**			
1431 NIGHT MODE	The option includes a related controller expansion board and dedicated terminal block.	Night mode is a system setting to limit maximum noise level of the unit. Noise level is reduced limiting maximum compressor frequency and fan speed.	ALL
1471 4951 + 1431	The option includes a related controller expansion board and dedicated terminal block.	Enables the functions corresponding to the indicated accessory codes.	ALL
1472 4951 + 1431 + 4961	The option includes a related controller expansion board and dedicated terminal block (it is necessary to install a 3 way valve).	Enables the functions corresponding to the indicated accessory codes.	ALL
1473 4951 + 4961	The option includes a related controller expansion board and dedicated terminal block (it is necessary to install a 3 way valve).	Enables the functions corresponding to the indicated accessory codes.	ALL
1474 1431 + 4961	The option includes a related controller expansion board and dedicated terminal block (it is necessary to install a 3 way valve).	Enables the functions corresponding to the indicated accessory codes.	ALL
4951 WITH HYDRAULIC DECOUPLER PROBE	Water temperature probe on hydraulic decoupler.	The pump activation can be set by parameter according to the water temperature on buffer tank measuring by the sensor (in the systems with the primary and secondary circuits separated by a hydraulic decoupler), thus bringing significant pump consumption reduction during unit's stand-by.	ALL
4961 U.L.C.F. - WITH OR WITHOUT FIX SPEED PUMP	Option to be selected with the unit without pump/s or with fix speed pump/s (4703,4706,4707,4711,4712). The option includes a related controller expansion board and dedicated terminal block.	Guaranteed the start-up of the units with the option U.L.C. even when the critical working condition could generate an alarm. The W3000+ controller can manage a 3 way mixing valve (not provided from MEHITS) by 0-10V signal for ensuring a dynamic control of the water temperature on user heat exchanger according to the operating limits allowed. This ensures the start-up and correct functioning of the unit into the envelope, also even critical whether condition.	ALL
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), 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

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
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), 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
5925 ENERGY METER FOR W3000	This option includes all following devices on-board the unit panel: - network analyzer with display, already cabled to unit's controller - current transformers.	This option allows to acquire the electrical data and the power absorbed by the unit. The figures are accessible through the unit's W3000 interface, and be sent to the BMS via several protocols by selecting the dedicated serial card in the option list.	ALL
6160 **AUXILIARY INPUT**			
6163 AUX 4-20mA REMOTE D L.C.	4-20 mA analog input + demand limit remote input	The 4-20 mA analog input allows to change the operating set-point according to the value of current applied to the analogue input. The demand limit remote input permits to limit the unit's power absorption for safety reasons	ALL
6190 **TYPE OF VISUAL DISPLAY**			
6196 KIPlink	The unit is equipped with KIPlink, the innovative user interface based on WiFi technology		ALL
6198 KIPlink + KEYBOARD	The unit is equipped with KIPlink, the innovative user interface based on WiFi technology, and, in addition, the physical LCD keyboard.	Allows for Wi-Fi connection to the unit via smartphone, tablet or PC for intuitive control of the unit, in addition to Compact Keyboard access.	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
3430 **REFRIGERANT LEAK DETECTOR**			
3431 REFRIG. LEAK DETECTOR	Refrigerant leak detection system, supplied factory mounted and wired in the electrical board. In case of leak detection it will raise an alarm.	It promptly detects gas leakages	ALL

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
3433 GAS LEAK CONTACT + COMPR. OFF	Refrigerant leak detection system, supplied factory mountedand wired in the electrical board. In case of leak detection it will raise an alarm and stop the unit.	It promptly detects gas leakages and stops the unit	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
6310 **VISUAL DISPLAY PROTECTION**			
6311 WITH DISPLAY PROTECTION	Display protection sealed panel	Provide complete protection against UV rays, atmospheric agents, sand storms.	ALL
1400 **HP AND LP GAUGES**			
1401 HP AND LP GAUGES	High and low pressure gauges	Allows immediate reading of the pressure values on both low and high pressure circuits	ALL
1900 **COMPRESSOR SUCTION VALVE**			
1901 COMPRESSOR SUCTION VALVE	Shut-off valve on compressor's suction circuit.	Simplifies maintenance activities	ALL
1910 **COMPRESSOR DISCHARGE VALVE**			
1911 COMPR. DISCHARGE LINE VALVE	Shut-off solenoid valve on compressor discharge circuit	Simplifies maintenance activities	ALL
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
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
600 **LIQUID LINE SOLENOID VALVE**			
601 LIQUID LINE SOLENOID VALVE	Solenoid valve on the refrigerant liquid line.	Intercepts the liquid refrigerant and grants the correct operation of the unit in all the different operating modes.	ALL

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
890 **CONDENSING COIL**			
881 Cu/Cu EXTERNAL COIL	Finned coil heat exchanger made from suitably-spaced copper tubes and fins designed to ensure maximum heat exchange efficiency.	This type of coil is not subject to galvanic corrosion, being made from just one material. 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
1260 **DRAIN TRAY**			
1261 DRAIN TRAY HEATED	The option includes the drain tray equipped with an antifreeze electric heater.	This option collects condensation and avoids the water freezing with a outdoor air temperature close to 0°C or lower.	ALL
820 **FAN CONTROL**			
801 PRESSOST. LOW AMBIENT CONTROL	Pressostatic control of the fans	Extension of the unit operating range (see the section dedicated to the operating limits). The device allows the unit to operate in the most extreme conditions avoiding any risk of low pressure alarm intervention. The enhanced air flow management delivers also benefits in terms of both efficiency and quietness.	ALL
802 VAR.FAN SPEED LOW AMB.CONTROL	Fan speed control according to the condensing pressure; the use of this device is mandatory in case the unit operates with low evaporator leaving water temperature combined with low outdoor air temperatures	Extension of the unit operating range (see the section dedicated to the operating limits). The device allows the unit to operate in the most extreme conditions avoiding any risk of low pressure alarm intervention. The enhanced air flow management delivers also benefits in terms of both efficiency and quietness.	ALL
808 EC FANS	Electronically commutated fans (EC fans). The brushless motor, governed by a special controller, continuously adjust fans' speed.	Reduced energy consumption and minimized current's absorption during start-up phase with a connected increased efficiency. The noise reduces proportionally to the unit's partialization.	ALL

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

OPTIONS	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
2030 **PROTECTION GRILL**			
2032 COND. COIL PROTECTION NET	Covering metal net on the coil	Finned coil protection	ALL
9970 **PACKING**			
9971 WITHOUT PACKAGING	Unit provided with plastic supports		ALL
9973 WOODEN CAGE PACKING	Unit provided with wooden cage		ALL
9977 SUPPORTS + COILS PROTECTION	Unit provided with plastic supports and polypropylene plastic sheets for coils protection		ALL
9979 CONTAINER PACKING	Unit provided with container slides and covered with nylon		ALL
9996 CONTAINER SLIDES	Unit provided with container slides		ALL

5.2 Options - Additional information

3301 – Compressor power factor correction
1511 – Soft starter

There is a mutual exclusion rule between the compressor rephasing condensers and the soft start device. When both accessories are required together, a feasibility analysis is needed. If the configuration is available as a special execution, an extra-price may be quoted.

1925-1926 – Electronic expansion valve
601 – Liquid line solenoid valve

The use of the electronic expansion valve entails the selection of the solenoid valve.

808 - EC fans

This option is available only for /CA, /LN-CA versions. These fans are suitable to operate up to 46°C of outdoor temperature. In case of higher temperatures, fans with oversized motors must be used. For the quotation of these components, please contact our sales department.

3431 – Refrigerant leak detector
3433 – Refrigerant leak detector + compressors off

The purpose of these options is to check and raise an alarm whether a leak occurs; they should not be considered as safety devices.

1431 – Night Mode
4951 – With hydraulic decoupler probe
4961 – User limit control
1471 - 4951 + 1431
1472 - 4951 + 1431 + 4961
1473 - 4951 + 4961
1474 - 1431 + 4961

These options are available only for /CA, /LN-CA versions. On models equipped with 800mm o 910mm fans, these options entail the selection of EC fans (808).

6196 – Kiplink
6198 – Kiplink + keyboard
5941 – With set point compensation
5925 – Energy meter for W3000
4185 – Serial card BACNET OVER IP
4186 – Serial card KONNEX
4187 – M-net W3000 kit
4188 – Serial card MODBUS TCP/IP
4189 – Serial card SNMP

These options are available only for models equipped with W3000+ controller.

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.

[SI System]

NX-N-G06/K			0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P	0552P	0602P
Power supply		V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	**kW**	**48,97**	**56,01**	**62,04**	**71,14**	**81,03**	**96,16**	**108,0**	**120,0**	**132,7**	**155,4**
Total power input	(1)	kW	17,11	19,14	21,65	26,20	29,87	33,28	37,90	42,07	48,61	54,32
EER	(1)	kW/kW	2,865	2,932	2,857	2,714	2,709	2,889	2,850	2,850	2,730	2,862
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	48,90	55,90	61,90	71,00	80,80	95,90	107,7	119,7	132,4	155,1
EER	(1)(2)	kW/kW	2,820	2,890	2,830	2,690	2,670	2,840	2,800	2,810	2,690	2,820
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(3)	**kW**	**53,13**	**62,42**	**67,86**	**76,87**	**90,53**	**103,9**	**114,7**	**128,6**	**144,1**	**167,6**
Total power input	(3)	kW	16,78	19,83	21,20	24,15	27,48	33,16	36,59	40,00	45,21	53,18
COP	(3)	kW/kW	3,161	3,152	3,203	3,178	3,291	3,130	3,134	3,215	3,188	3,150
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(3)(2)	kW	53,30	62,60	68,00	77,00	90,90	104,3	115,1	128,9	144,4	167,9
COP	(3)(2)	kW/kW	3,120	3,120	3,170	3,150	3,230	3,080	3,090	3,170	3,140	3,110
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	50,81	58,11	64,37	73,81	84,07	99,77	112,1	124,5	137,7	161,2
Total power input	(4)	kW	16,55	18,54	20,96	25,35	28,89	32,25	36,72	40,74	47,04	52,62
Desuperheater heating capacity	(4)	**kW**	**14,20**	**15,48**	**17,72**	**21,78**	**25,06**	**26,14**	**30,26**	**33,99**	**40,11**	**43,13**
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)	l/s	2,342	2,678	2,967	3,402	3,875	4,599	5,166	5,738	6,347	7,430
Pressure drop at the heat exchanger	(1)	kPa	32,3	30,2	30,2	28,5	45,3	44,4	45,7	43,5	44,1	43,4
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(3)	l/s	2,564	3,013	3,276	3,711	4,370	5,017	5,537	6,207	6,954	8,089
Pressure drop at the heat exchanger	(3)	kPa	38,7	38,2	36,8	33,9	57,7	52,9	52,4	50,9	53,0	51,4
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(4)	l/s	0,685	0,747	0,855	1,051	1,209	1,262	1,461	1,641	1,936	2,082
Pressure drop at the heat exchanger	(4)	kPa	10,8	12,8	16,8	12,5	16,5	18,0	17,0	21,4	20,0	23,1
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			2xSTEPS	2xSTEPS	2xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	14,0	15,4	15,5	16,3	23,4	27,5	31,6	42,1	42,5	44,0
Oil charge		kg	5,40	5,40	5,40	5,40	5,40	5,40	8,00	10,6	10,6	10,6
Rc (ASHRAE)	(5)	kg/kW	0,29	0,28	0,25	0,23	0,29	0,29	0,30	0,35	0,32	0,29
FANS												
Quantity		N°	4	6	6	6	6	2	2	2	2	3
Air flow		m³/s	5,09	7,85	7,85	7,85	7,66	11,51	11,51	11,89	12,69	17,26
Total fans power input		kW	1,20	1,80	1,80	1,80	1,80	4,00	4,00	4,00	3,68	6,00
NOISE LEVEL												
Total sound Pressure	(6)	dB(A)	67	67	67	67	68	70	70	70	72	71
Total sound power level in cooling	(7)(8)	dB(A)	84	85	85	85	86	88	88	88	90	90
Total sound power level in heating	(7)(9)	dB(A)	85	86	86	86	86	88	88	88	90	90
SIZE AND WEIGHT												
A	(10)	mm	1825	2395	2395	2395	2395	2825	2825	3360	3360	3980
B	(10)	mm	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195
H	(10)	mm	1865	1865	1865	1865	1865	1980	1980	1980	1980	1980
Operating weight	(10)	kg	600	670	680	690	740	840	940	1110	1160	1260

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 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.
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 Rated in accordance with AHRI Standard 550/590
6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7 Sound power on the basis of measurements taken in compliance with ISO 9614.
8 Sound power level in cooling, outdoors.
9 Sound power level in heating, outdoors.
10 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

[SI System]

NX-N-G06/K			0702P	0802P
Power supply		V/ph/Hz	400/3/50	400/3/50
PERFORMANCE				
COOLING ONLY (GROSS VALUE)				
Cooling capacity	(1)	**kW**	**172,5**	**190,8**
Total power input	(1)	kW	63,01	72,29
EER	(1)	kW/kW	2,738	2,639
COOLING ONLY (EN14511 VALUE)				
Cooling capacity	(1)(2)	kW	172,2	190,5
EER	(1)(2)	kW/kW	2,700	2,600
HEATING ONLY (GROSS VALUE)				
Total heating capacity	(3)	**kW**	**185,5**	**202,9**
Total power input	(3)	kW	58,90	64,72
COP	(3)	kW/kW	3,149	3,136
HEATING ONLY (EN14511 VALUE)				
Total heating capacity	(3)(2)	kW	185,8	203,3
COP	(3)(2)	kW/kW	3,110	3,090
COOLING WITH PARTIAL RECOVERY				
Cooling capacity	(4)	kW	179,0	198,0
Total power input	(4)	kW	61,02	69,97
Desuperheater heating capacity	(4)	**kW**	**50,89**	**59,17**
EXCHANGERS				
HEAT EXCHANGER USER SIDE IN COOLING				
Water flow	(1)	l/s	8,250	9,126
Pressure drop at the heat exchanger	(1)	kPa	41,3	50,5
HEAT EXCHANGER USER SIDE IN HEATING				
Water flow	(3)	l/s	8,955	9,796
Pressure drop at the heat exchanger	(3)	kPa	48,6	58,2
PARTIAL RECOVERY USER SIDE IN REFRIGERATION				
Water flow	(4)	l/s	2,457	2,856
Pressure drop at the heat exchanger	(4)	kPa	21,7	29,3
REFRIGERANT CIRCUIT				
Compressors nr.		N°	2	2
Number of capacity steps		N°	2	2
No. Circuits		N°	1	1
Regulation			2xSTEPS	2xSTEPS
Min. capacity step		%	50	50
Refrigerant			R454B	R454B
Theoretical refrigerant charge		kg	45,4	47,5
Oil charge		kg	10,6	10,6
Rc (ASHRAE)	(5)	kg/kW	0,27	0,25
FANS				
Quantity		N°	3	3
Air flow		m³/s	17,26	17,26
Total fans power input		kW	6,00	6,00
NOISE LEVEL				
Total sound Pressure	(6)	dB(A)	71	72
Total sound power level in cooling	(7)(8)	dB(A)	90	91
Total sound power level in heating	(7)(9)	dB(A)	90	91
SIZE AND WEIGHT				
A	(10)	mm	3980	3980
B	(10)	mm	1195	1195
H	(10)	mm	1980	1980
Operating weight	(10)	kg	1280	1320

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 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.
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 Rated in accordance with AHRI Standard 550/590
6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7 Sound power on the basis of measurements taken in compliance with ISO 9614.
8 Sound power level in cooling, outdoors.
9 Sound power level in heating, outdoors.
10 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

[SI System]

NX-N-G06/LN-K			0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P	0552P	0602P
Power supply		V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	**kW**	**44,91**	**51,31**	**57,96**	**67,09**	**74,79**	**90,71**	**99,46**	**109,4**	**126,4**	**148,1**
Total power input	(1)	kW	18,44	20,84	23,93	27,74	32,41	34,13	39,44	44,36	50,24	56,21
EER	(1)	kW/kW	2,440	2,466	2,427	2,422	2,309	2,660	2,525	2,464	2,518	2,635
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	44,80	51,20	57,90	67,00	74,60	90,50	99,20	109,1	126,0	147,8
EER	(1)(2)	kW/kW	2,410	2,440	2,400	2,400	2,280	2,620	2,490	2,440	2,480	2,600
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(3)	**kW**	**53,13**	**62,42**	**67,86**	**76,87**	**90,53**	**103,9**	**114,7**	**128,6**	**144,1**	**167,6**
Total power input	(3)	kW	16,78	19,83	21,20	24,15	27,48	33,16	36,59	40,00	45,21	53,18
COP	(3)	kW/kW	3,161	3,152	3,203	3,178	3,291	3,130	3,134	3,215	3,188	3,150
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(3)(2)	kW	53,30	62,60	68,00	77,00	90,90	104,3	115,1	128,9	144,4	167,9
COP	(3)(2)	kW/kW	3,120	3,120	3,170	3,150	3,230	3,080	3,090	3,170	3,140	3,110
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	46,59	53,23	60,14	69,60	77,59	94,11	103,2	113,5	131,1	153,7
Total power input	(4)	kW	17,82	20,15	23,14	26,81	31,32	33,01	38,14	42,89	48,56	54,36
Desuperheater heating capacity	(4)	**kW**	**15,75**	**17,53**	**20,29**	**23,69**	**27,86**	**28,50**	**33,24**	**37,64**	**42,79**	**47,23**
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)	l/s	2,147	2,453	2,772	3,208	3,576	4,338	4,756	5,230	6,043	7,084
Pressure drop at the heat exchanger	(1)	kPa	27,1	25,4	26,4	25,3	38,6	39,5	38,7	36,2	40,0	39,4
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(3)	l/s	2,564	3,013	3,276	3,711	4,370	5,017	5,537	6,207	6,954	8,089
Pressure drop at the heat exchanger	(3)	kPa	38,7	38,2	36,8	33,9	57,7	52,9	52,4	50,9	53,0	51,4
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(4)	l/s	0,760	0,846	0,980	1,143	1,345	1,376	1,605	1,817	2,066	2,280
Pressure drop at the heat exchanger	(4)	kPa	13,2	16,4	22,0	14,8	20,4	21,4	20,5	26,2	22,8	27,7
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			2xSTEPS	2xSTEPS	2xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	14,0	15,4	15,5	16,3	23,4	27,5	31,6	42,1	42,5	44,0
Oil charge		kg	5,40	5,40	5,40	5,40	5,40	5,40	8,00	10,6	10,6	10,6
Rc (ASHRAE)	(5)	kg/kW	0,31	0,30	0,27	0,25	0,32	0,31	0,32	0,39	0,34	0,30
FANS												
Quantity		N°	4	6	6	6	6	2	2	2	2	3
Air flow		m³/s	3,82	5,13	5,13	5,96	5,73	8,41	8,41	8,82	10,42	12,62
Total fans power input		kW	0,80	1,20	1,20	1,20	1,20	2,20	2,20	2,20	2,30	3,30
NOISE LEVEL												
Total sound Pressure	(6)	dB(A)	60	60	61	62	64	65	65	65	66	65
Total sound power level in cooling	(7)(8)	dB(A)	77	78	79	80	82	83	83	83	84	84
Total sound power level in heating	(7)(9)	dB(A)	79	80	81	82	83	84	84	84	85	85
SIZE AND WEIGHT												
A	(10)	mm	1825	2395	2395	2395	2395	2825	2825	3360	3360	3980
B	(10)	mm	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195
H	(10)	mm	1865	1865	1865	1865	1865	1980	1980	1980	1980	1980
Operating weight	(10)	kg	610	680	690	700	750	880	1020	1160	1200	1290

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 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.
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 Rated in accordance with AHRI Standard 550/590
6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7 Sound power on the basis of measurements taken in compliance with ISO 9614.
8 Sound power level in cooling, outdoors.
9 Sound power level in heating, outdoors.
10 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

[SI System]

NX-N-G06/LN-K			0702P	0802P
Power supply		V/ph/Hz	400/3/50	400/3/50
PERFORMANCE				
COOLING ONLY (GROSS VALUE)				
Cooling capacity	(1)	**kW**	**161,5**	**172,4**
Total power input	(1)	kW	66,50	77,76
EER	(1)	kW/kW	2,429	2,216
COOLING ONLY (EN14511 VALUE)				
Cooling capacity	(1)(2)	kW	161,2	172,0
EER	(1)(2)	kW/kW	2,400	2,190
HEATING ONLY (GROSS VALUE)				
Total heating capacity	(3)	**kW**	**185,5**	**202,9**
Total power input	(3)	kW	58,90	64,72
COP	(3)	kW/kW	3,149	3,136
HEATING ONLY (EN14511 VALUE)				
Total heating capacity	(3)(2)	kW	185,8	203,3
COP	(3)(2)	kW/kW	3,110	3,090
COOLING WITH PARTIAL RECOVERY				
Cooling capacity	(4)	kW	167,6	178,8
Total power input	(4)	kW	64,29	75,15
Desuperheater heating capacity	(4)	**kW**	**56,42**	**66,47**
EXCHANGERS				
HEAT EXCHANGER USER SIDE IN COOLING				
Water flow	(1)	l/s	7,725	8,242
Pressure drop at the heat exchanger	(1)	kPa	36,2	41,2
HEAT EXCHANGER USER SIDE IN HEATING				
Water flow	(3)	l/s	8,955	9,796
Pressure drop at the heat exchanger	(3)	kPa	48,6	58,2
PARTIAL RECOVERY USER SIDE IN REFRIGERATION				
Water flow	(4)	l/s	2,723	3,208
Pressure drop at the heat exchanger	(4)	kPa	26,6	37,0
REFRIGERANT CIRCUIT				
Compressors nr.		N°	2	2
Number of capacity steps		N°	2	2
No. Circuits		N°	1	1
Regulation			2xSTEPS	2xSTEPS
Min. capacity step		%	50	50
Refrigerant			R454B	R454B
Theoretical refrigerant charge		kg	45,4	47,5
Oil charge		kg	10,6	10,6
Rc (ASHRAE)	(5)	kg/kW	0,28	0,28
FANS				
Quantity		N°	3	3
Air flow		m³/s	12,62	12,62
Total fans power input		kW	3,30	3,30
NOISE LEVEL				
Total sound Pressure	(6)	dB(A)	65	67
Total sound power level in cooling	(7)(8)	dB(A)	84	86
Total sound power level in heating	(7)(9)	dB(A)	85	87
SIZE AND WEIGHT				
A	(10)	mm	3980	3980
B	(10)	mm	1195	1195
H	(10)	mm	1980	1980
Operating weight	(10)	kg	1330	1370

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 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.
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 Rated in accordance with AHRI Standard 550/590
6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7 Sound power on the basis of measurements taken in compliance with ISO 9614.
8 Sound power level in cooling, outdoors.
9 Sound power level in heating, outdoors.
10 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

[SI System]

NX-N-G06/CA			0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P	0562P	0612P
Power supply		V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	**kW**	**49,19**	**57,23**	**64,17**	**77,67**	**88,29**	**98,07**	**111,6**	**125,7**	**146,4**	**162,9**
Total power input	(1)	kW	16,76	18,54	20,90	25,29	28,80	32,07	36,45	40,71	48,05	52,84
EER	(1)	kW/kW	2,929	3,092	3,072	3,071	3,066	3,056	3,058	3,088	3,044	3,085
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	49,10	57,10	64,00	77,50	88,00	97,80	111,2	125,3	146,1	162,6
EER	(1)(2)	kW/kW	2,890	3,040	3,030	3,030	3,000	3,000	3,000	3,030	2,990	3,030
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(3)	**kW**	**56,66**	**66,73**	**71,55**	**83,30**	**96,89**	**106,0**	**117,3**	**132,6**	**154,9**	**173,4**
Total power input	(3)	kW	16,84	19,88	21,32	24,83	28,16	31,50	34,96	39,46	46,27	51,75
COP	(3)	kW/kW	3,375	3,352	3,362	3,359	3,436	3,365	3,351	3,357	3,346	3,354
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(3)(2)	kW	56,80	66,90	71,70	83,50	97,20	106,3	117,6	133,0	155,3	173,7
COP	(3)(2)	kW/kW	3,330	3,310	3,320	3,320	3,360	3,310	3,290	3,300	3,290	3,300
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	51,04	59,37	66,58	80,58	91,61	101,8	115,8	130,4	151,9	169,1
Total power input	(4)	kW	16,22	17,96	20,23	24,54	27,93	31,07	35,31	39,50	46,65	51,27
Desuperheater heating capacity	(4)	**kW**	**13,89**	**14,94**	**17,05**	**19,00**	**22,14**	**25,34**	**29,25**	**30,98**	**35,75**	**40,02**
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)	l/s	2,352	2,737	3,069	3,714	4,222	4,690	5,336	6,009	7,003	7,792
Pressure drop at the heat exchanger	(1)	kPa	32,6	31,5	32,3	34,0	53,8	46,2	48,7	47,7	53,7	47,7
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(3)	l/s	2,735	3,221	3,454	4,021	4,677	5,115	5,662	6,403	7,479	8,370
Pressure drop at the heat exchanger	(3)	kPa	44,0	43,7	41,0	39,8	66,0	54,9	54,8	54,2	61,3	55,0
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(4)	l/s	0,671	0,721	0,823	0,917	1,069	1,223	1,412	1,496	1,726	1,932
Pressure drop at the heat exchanger	(4)	kPa	10,3	11,9	15,5	9,50	12,9	16,9	15,8	17,8	15,9	19,9
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			2xSTEPS	2xSTEPS	2xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	13,5	14,9	15,2	18,0	24,8	28,2	30,2	34,7	41,7	48,7
Oil charge		kg	5,40	5,40	5,40	5,40	5,40	5,40	8,00	10,6	10,6	10,6
Rc (ASHRAE)	(5)	kg/kW	0,28	0,26	0,24	0,23	0,28	0,29	0,27	0,28	0,29	0,30
FANS												
Quantity		N°	4	6	6	2	2	2	2	3	4	4
Air flow		m³/s	5,40	7,66	7,66	11,51	11,89	12,69	12,69	17,26	22,92	22,30
Total fans power input		kW	1,20	1,80	1,80	4,00	4,00	3,68	3,68	6,00	8,00	8,00
NOISE LEVEL												
Total sound Pressure	(6)	dB(A)	66	67	67	70	70	71	71	71	71	71
Total sound power level in cooling	(7)(8)	dB(A)	84	85	85	88	88	89	89	90	91	91
Total sound power level in heating	(7)(9)	dB(A)	85	86	86	89	88	89	89	90	91	91
SIZE AND WEIGHT												
A	(10)	mm	2395	2395	2395	2825	3360	3360	3360	3980	4110	4110
B	(10)	mm	1195	1195	1195	1195	1195	1195	1195	1195	2220	2220
H	(10)	mm	1865	1865	1865	1980	1980	1980	1980	1980	2150	2150
Operating weight	(10)	kg	670	700	700	830	940	990	1090	1270	1740	1840

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 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.
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 Rated in accordance with AHRI Standard 550/590
6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7 Sound power on the basis of measurements taken in compliance with ISO 9614.
8 Sound power level in cooling, outdoors.
9 Sound power level in heating, outdoors.
10 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

[SI System]

NX-N-G06/CA			0712P	0812P
Power supply		V/ph/Hz	400/3/50	400/3/50
PERFORMANCE				
COOLING ONLY (GROSS VALUE)				
Cooling capacity	(1)	**kW**	**189,8**	**210,7**
Total power input	(1)	kW	62,38	67,71
EER	(1)	kW/kW	3,042	3,112
COOLING ONLY (EN14511 VALUE)				
Cooling capacity	(1)(2)	kW	189,4	210,3
EER	(1)(2)	kW/kW	2,990	3,060
HEATING ONLY (GROSS VALUE)				
Total heating capacity	(3)	**kW**	**200,9**	**222,9**
Total power input	(3)	kW	60,06	66,34
COP	(3)	kW/kW	3,343	3,362
HEATING ONLY (EN14511 VALUE)				
Total heating capacity	(3)(2)	kW	201,2	223,4
COP	(3)(2)	kW/kW	3,290	3,300
COOLING WITH PARTIAL RECOVERY				
Cooling capacity	(4)	kW	196,9	218,6
Total power input	(4)	kW	60,61	65,76
Desuperheater heating capacity	(4)	**kW**	**44,97**	**49,73**
EXCHANGERS				
HEAT EXCHANGER USER SIDE IN COOLING				
Water flow	(1)	l/s	9,075	10,08
Pressure drop at the heat exchanger	(1)	kPa	50,0	61,6
HEAT EXCHANGER USER SIDE IN HEATING				
Water flow	(3)	l/s	9,696	10,76
Pressure drop at the heat exchanger	(3)	kPa	57,0	70,2
PARTIAL RECOVERY USER SIDE IN REFRIGERATION				
Water flow	(4)	l/s	2,171	2,400
Pressure drop at the heat exchanger	(4)	kPa	16,9	20,7
REFRIGERANT CIRCUIT				
Compressors nr.		N°	2	2
Number of capacity steps		N°	2	2
No. Circuits		N°	1	1
Regulation			2xSTEPS	2xSTEPS
Min. capacity step		%	50	50
Refrigerant			R454B	R454B
Theoretical refrigerant charge		kg	54,3	63,8
Oil charge		kg	10,6	10,6
Rc (ASHRAE)	(5)	kg/kW	0,29	0,31
FANS				
Quantity		N°	6	6
Air flow		m³/s	33,66	32,51
Total fans power input		kW	12,00	12,00
NOISE LEVEL				
Total sound Pressure	(6)	dB(A)	72	73
Total sound power level in cooling	(7)(8)	dB(A)	92	93
Total sound power level in heating	(7)(9)	dB(A)	92	93
SIZE AND WEIGHT				
A	(10)	mm	5110	5110
B	(10)	mm	2220	2220
H	(10)	mm	2150	2150
Operating weight	(10)	kg	2070	2200

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 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.
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 Rated in accordance with AHRI Standard 550/590
6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7 Sound power on the basis of measurements taken in compliance with ISO 9614.
8 Sound power level in cooling, outdoors.
9 Sound power level in heating, outdoors.
10 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

[SI System]

NX-N-G06/LN-CA			0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P	0562P	0612P
Power supply		V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	**kW**	**45,64**	**52,16**	**57,44**	**76,20**	**83,63**	**95,03**	**105,5**	**119,9**	**138,5**	**158,7**
Total power input	(1)	kW	18,09	20,42	23,41	24,96	29,00	32,12	36,88	40,62	46,63	51,90
EER	(1)	kW/kW	2,519	2,559	2,453	3,048	2,883	2,960	2,859	2,953	2,972	3,058
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	45,50	52,10	57,30	76,00	83,40	94,80	105,2	119,5	138,2	158,4
EER	(1)(2)	kW/kW	2,500	2,530	2,430	3,010	2,830	2,910	2,810	2,900	2,920	3,010
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(3)	**kW**	**56,66**	**66,73**	**71,55**	**83,30**	**96,89**	**106,0**	**117,3**	**132,6**	**154,9**	**173,4**
Total power input	(3)	kW	16,84	19,88	21,32	24,83	28,16	31,50	34,96	39,46	46,27	51,75
COP	(3)	kW/kW	3,375	3,352	3,362	3,359	3,436	3,365	3,351	3,357	3,346	3,354
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(3)(2)	kW	56,80	66,90	71,70	83,50	97,20	106,3	117,6	133,0	155,3	173,7
COP	(3)(2)	kW/kW	3,330	3,310	3,320	3,320	3,360	3,310	3,290	3,300	3,290	3,300
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	47,35	54,12	59,60	79,06	86,77	98,59	109,5	124,4	143,7	164,7
Total power input	(4)	kW	17,48	19,75	22,64	24,16	28,06	31,07	35,67	39,32	45,16	50,23
Desuperheater heating capacity	(4)	**kW**	**15,43**	**17,16**	**19,83**	**20,32**	**23,92**	**26,62**	**30,87**	**33,32**	**37,70**	**42,40**
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)	l/s	2,183	2,494	2,747	3,644	3,999	4,545	5,046	5,732	6,624	7,590
Pressure drop at the heat exchanger	(1)	kPa	28,0	26,2	25,9	32,7	48,3	43,4	43,6	43,4	48,0	45,2
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(3)	l/s	2,735	3,221	3,454	4,021	4,677	5,115	5,662	6,403	7,479	8,370
Pressure drop at the heat exchanger	(3)	kPa	44,0	43,7	41,0	39,8	66,0	54,9	54,8	54,2	61,3	55,0
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(4)	l/s	0,745	0,828	0,957	0,981	1,155	1,285	1,490	1,608	1,820	2,046
Pressure drop at the heat exchanger	(4)	kPa	12,7	15,7	21,0	10,9	15,1	18,6	17,6	20,5	17,7	22,4
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			2xSTEPS	2xSTEPS	2xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS	1xSTEPS+1xSTEPS	2xSTEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Theoretical refrigerant charge		kg	13,5	14,9	15,2	18,0	24,8	28,2	30,2	34,7	41,7	48,7
Oil charge		kg	5,40	5,40	5,40	5,40	5,40	5,40	8,00	10,6	10,6	10,6
Rc (ASHRAE)	(5)	kg/kW	0,30	0,29	0,27	0,24	0,30	0,30	0,29	0,29	0,30	0,31
FANS												
Quantity		N°	4	6	6	2	2	2	2	3	4	4
Air flow		m³/s	4,18	4,90	4,90	8,41	8,82	10,42	10,42	12,62	16,70	16,01
Total fans power input		kW	0,80	1,20	1,20	2,20	2,20	2,30	2,30	3,30	4,40	4,40
NOISE LEVEL												
Total sound Pressure	(6)	dB(A)	59	60	61	64	65	66	66	65	65	65
Total sound power level in cooling	(7)(8)	dB(A)	77	78	79	82	83	84	84	84	85	85
Total sound power level in heating	(7)(9)	dB(A)	79	80	81	84	84	85	85	85	86	86
SIZE AND WEIGHT												
A	(10)	mm	2395	2395	2395	2825	3360	3360	3360	3980	4110	4110
B	(10)	mm	1195	1195	1195	1195	1195	1195	1195	1195	2220	2220
H	(10)	mm	1865	1865	1865	1980	1980	1980	1980	1980	2150	2150
Operating weight	(10)	kg	680	740	750	870	950	1000	1100	1280	1750	1850

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 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.
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 Rated in accordance with AHRI Standard 550/590
6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7 Sound power on the basis of measurements taken in compliance with ISO 9614.
8 Sound power level in cooling, outdoors.
9 Sound power level in heating, outdoors.
10 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

[SI System]

NX-N-G06/LN-CA			0712P	0812P
Power supply		V/ph/Hz	400/3/50	400/3/50
PERFORMANCE				
COOLING ONLY (GROSS VALUE)				
Cooling capacity	(1)	**kW**	**181,4**	**203,9**
Total power input	(1)	kW	59,49	65,30
EER	(1)	kW/kW	3,049	3,123
COOLING ONLY (EN14511 VALUE)				
Cooling capacity	(1)(2)	kW	181,0	203,6
EER	(1)(2)	kW/kW	3,000	3,070
HEATING ONLY (GROSS VALUE)				
Total heating capacity	(3)	**kW**	**200,9**	**222,9**
Total power input	(3)	kW	60,06	66,34
COP	(3)	kW/kW	3,343	3,362
HEATING ONLY (EN14511 VALUE)				
Total heating capacity	(3)(2)	kW	201,2	223,4
COP	(3)(2)	kW/kW	3,290	3,300
COOLING WITH PARTIAL RECOVERY				
Cooling capacity	(4)	kW	188,2	211,5
Total power input	(4)	kW	57,64	63,24
Desuperheater heating capacity	(4)	**kW**	**47,21**	**52,40**
EXCHANGERS				
HEAT EXCHANGER USER SIDE IN COOLING				
Water flow	(1)	l/s	8,673	9,751
Pressure drop at the heat exchanger	(1)	kPa	45,6	57,7
HEAT EXCHANGER USER SIDE IN HEATING				
Water flow	(3)	l/s	9,696	10,76
Pressure drop at the heat exchanger	(3)	kPa	57,0	70,2
PARTIAL RECOVERY USER SIDE IN REFRIGERATION				
Water flow	(4)	l/s	2,279	2,529
Pressure drop at the heat exchanger	(4)	kPa	18,6	23,0
REFRIGERANT CIRCUIT				
Compressors nr.		N°	2	2
Number of capacity steps		N°	2	2
No. Circuits		N°	1	1
Regulation			2xSTEPS	2xSTEPS
Min. capacity step		%	50	50
Refrigerant			R454B	R454B
Theoretical refrigerant charge		kg	54,3	63,8
Oil charge		kg	10,6	10,6
Rc (ASHRAE)	(5)	kg/kW	0,30	0,32
FANS				
Quantity		N°	6	6
Air flow		m³/s	24,18	22,96
Total fans power input		kW	6,60	6,60
NOISE LEVEL				
Total sound Pressure	(6)	dB(A)	66	67
Total sound power level in cooling	(7)(8)	dB(A)	86	87
Total sound power level in heating	(7)(9)	dB(A)	87	88
SIZE AND WEIGHT				
A	(10)	mm	5110	5110
B	(10)	mm	2220	2220
H	(10)	mm	2150	2150
Operating weight	(10)	kg	2080	2210

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 Values in compliance with EN14511
3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.
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 Rated in accordance with AHRI Standard 550/590
6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
7 Sound power on the basis of measurements taken in compliance with ISO 9614.
8 Sound power level in cooling, outdoors.
9 Sound power level in heating, outdoors.
10 Unit in standard configuration, without optional accessories.
- Not available
Data certified in EUROVENT

[SI System]

NX-N-G06/K - LOW TEMPERATURE application			0202P	0252P	0262P	0302P	0352P	0402P
Power supply		(V/ph/Hz)	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	40	46	49	57	71	77
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,82	3,63	3,68	3,67	3,79	3,38
Seasonal space heating energy efficiency	(1)(2)	%	150	142	144	144	149	132
Seasonal space heating energy efficiency class	(1)(2)		A++	A+	A+	A+	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]
2 Type of calculation with fixed flow and variable temperature.
Data certified in EUROVENT

NX-N-G06/K - LOW TEMPERATURE application			0452P	0502P	0552P	0602P	0702P	0802P
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	88	99	113	127	150	175
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,38	3,45	3,56	3,40	3,44	3,42
Seasonal space heating energy efficiency	(1)(2)	%	132	135	139	133	135	134
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]
2 Type of calculation with fixed flow and variable temperature.

TECHNICAL DATA SEASONAL EFFICIENCY IN HEATING (EN14825 VALUE)

[SI System]

NX-N-G06/LN-K - LOW TEMPERATURE application			0202P	0252P	0262P	0302P	0352P	0402P
Power supply		(V/ph/Hz)	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	40	46	49	57	71	77
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,82	3,63	3,68	3,67	3,79	3,51
Seasonal space heating energy efficiency	(1)(2)	%	150	142	144	144	149	137
Seasonal space heating energy efficiency class	(1)(2)		A++	A+	A+	A+	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]
2 Type of calculation with fixed flow and variable temperature.
Data certified in EUROVENT

NX-N-G06/LN-K - LOW TEMPERATURE application			0452P	0502P	0552P	0602P	0702P	0802P
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	88	99	113	127	150	175
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,61	3,68	3,74	3,61	3,69	3,60
Seasonal space heating energy efficiency	(1)(2)	%	141	144	146	141	145	141
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]
2 Type of calculation with fixed flow and variable temperature.

TECHNICAL DATA SEASONAL EFFICIENCY IN HEATING (EN14825 VALUE)

[SI System]

NX-N-G06/CA - LOW TEMPERATURE application			0202P	0252P	0262P	0302P	0352P	0402P
Power supply		(V/ph/Hz)	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	42	49	53	71	71	77
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-5	-7	-7
SCOP	(1)(2)		4,01	3,85	3,84	3,63	3,63	3,62
Seasonal space heating energy efficiency	(1)(2)	%	157	151	151	142	142	142
Seasonal space heating energy efficiency class	(1)(2)		A++	A++	A++	-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]
2 Type of calculation with fixed flow and variable temperature.
Data certified in EUROVENT

NX-N-G06/CA - LOW TEMPERATURE application			0452P	0502P	0562P	0612P	0712P	0812P
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	88	99	109	128	147	170
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,71	3,60	3,47	3,59	3,42	3,38
Seasonal space heating energy efficiency	(1)(2)	%	145	141	136	140	134	132
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]
2 Type of calculation with fixed flow and variable temperature.

TECHNICAL DATA SEASONAL EFFICIENCY IN HEATING (EN14825 VALUE)

[SI System]

NX-N-G06/LN-CA - LOW TEMPERATURE application			0202P	0252P	0262P	0302P	0352P	0402P
Power supply		(V/ph/Hz)	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	42	49	53	62	71	77
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		4,01	3,85	3,84	3,61	3,63	3,62
Seasonal space heating energy efficiency	(1)(2)	%	157	151	151	142	142	142
Seasonal space heating energy efficiency class	(1)(2)		A++	A++	A++	A+	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]
2 Type of calculation with fixed flow and variable temperature.
Data certified in EUROVENT

NX-N-G06/LN-CA - LOW TEMPERATURE application			0452P	0502P	0562P	0612P	0712P	0812P
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	88	99	109	128	147	170
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,71	3,60	3,47	3,59	3,42	3,38
Seasonal space heating energy efficiency	(1)(2)	%	145	141	136	140	134	132
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]
2 Type of calculation with fixed flow and variable temperature.

[SI System]

ENERGY EFFICIENCY

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

NX-N-G06/K			0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P	0552P	0602P
Prated,c	(1)	kW	48,9	55,9	61,9	71,0	80,8	95,9	107,7	119,7	132,4	155,1
SEER	(1) (2)	-	3,83	3,69	3,71	3,70	3,75	3,47	3,54	3,60	3,61	3,57
Performance ηs	(1) (3)	%	150,0	145,0	145,0	145,0	147,0	136,0	139,0	141,0	141,0	140,0
NX-N-G06/K			**0702P**	**0802P**								
Prated,c	(1)	kW	172,2	190,5								
SEER	(1) (2)	-	3,61	3,52								
Performance ηs	(1) (3)	%	141,0	138,0								

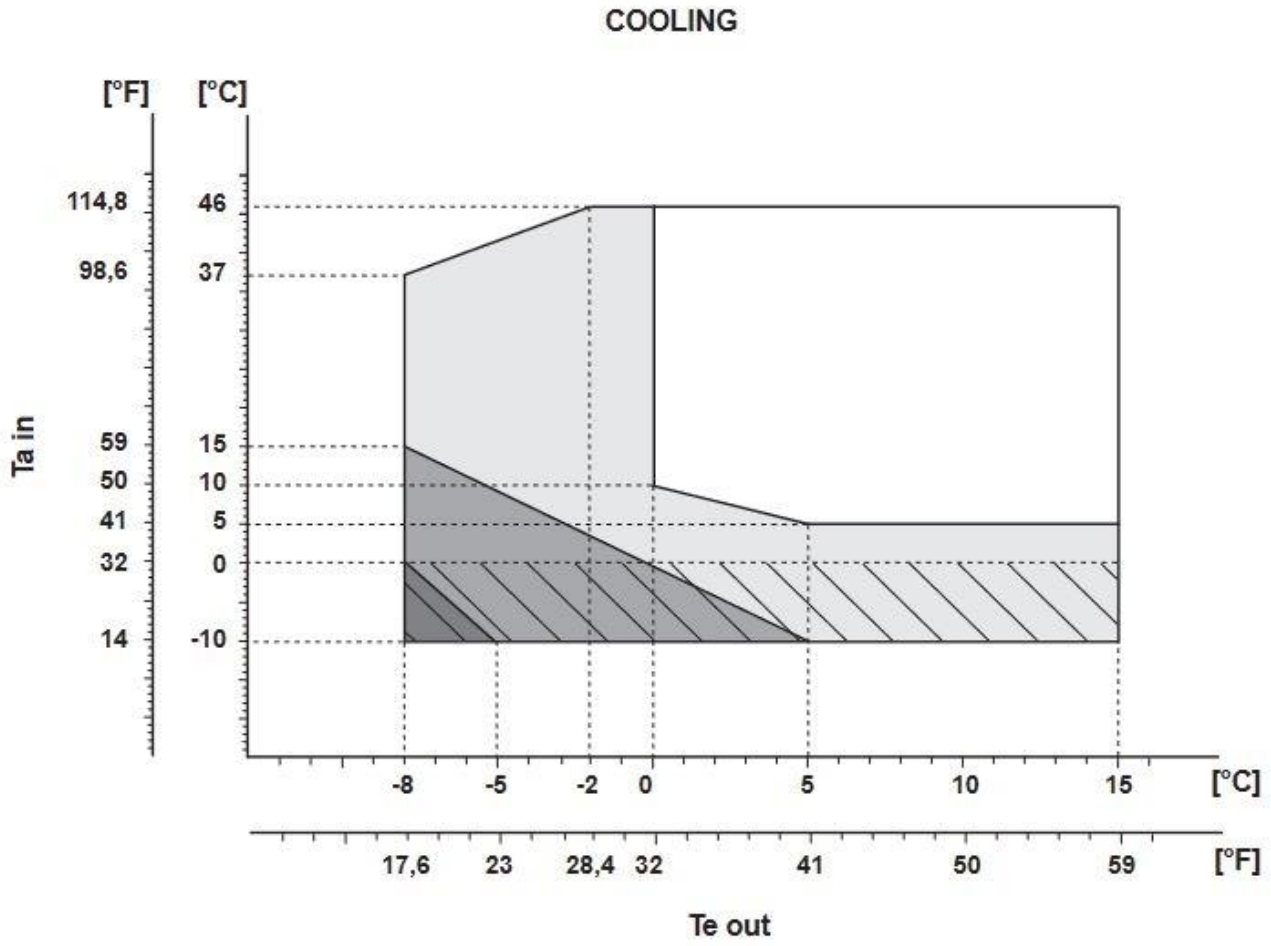
NX-N-G06/LN-K			0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P	0552P	0602P
Prated,c	(1)	kW	44,8	51,2	57,9	67,0	74,6	90,5	99,2	109,1	126,0	147,8
SEER	(1) (2)	-	3,70	3,56	3,58	3,63	3,63	3,59	3,59	3,55	3,69	3,70
Performance ηs	(1) (3)	%	145,0	139,0	140,0	142,0	142,0	141,0	141,0	139,0	145,0	145,0
NX-N-G06/LN-K			**0702P**	**0802P**								
Prated,c	(1)	kW	161,2	172,0								
SEER	(1) (2)	-	3,68	3,43								
Performance ηs	(1) (3)	%	144,0	134,0								

NX-N-G06/CA			0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P	0562P	0612P
Prated,c	(1)	kW	49,1	57,1	64,0	77,5	88,0	97,8	111,2	125,3	146,1	162,6
SEER	(1) (2)	-	3,85	3,78	3,85	3,73	3,76	3,79	3,83	3,74	3,75	3,82
Performance ηs	(1) (3)	%	151,0	148,0	151,0	146,0	147,0	148,0	150,0	146,0	147,0	150,0
NX-N-G06/CA			**0712P**	**0812P**								
Prated,c	(1)	kW	189,4	210,3								
SEER	(1) (2)	-	3,72	3,67								
Performance ηs	(1) (3)	%	146,0	144,0								

NX-N-G06/LN-CA			0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P	0562P	0612P
Prated,c	(1)	kW	45,5	52,1	57,3	76,0	83,4	94,8	105,2	119,5	138,2	158,4
SEER	(1) (2)	-	3,76	3,62	3,56	3,82	3,71	3,76	3,79	3,74	3,73	3,87
Performance ηs	(1) (3)	%	147,0	142,0	139,0	150,0	145,0	147,0	148,0	147,0	146,0	152,0
NX-N-G06/LN-CA			**0712P**	**0812P**								
Prated,c	(1)	kW	181,0	203,6								
SEER	(1) (2)	-	3,74	3,72								
Performance ηs	(1) (3)	%	147,0	146,0								

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 R454B [GWP_{100} 467] fluorinated greenhouse gases.

9.1 Operating limits - Graphs



Ta in Outdoor air temperature [°C]

Te out Plant (side) cooling exchanger water temperature [°C]

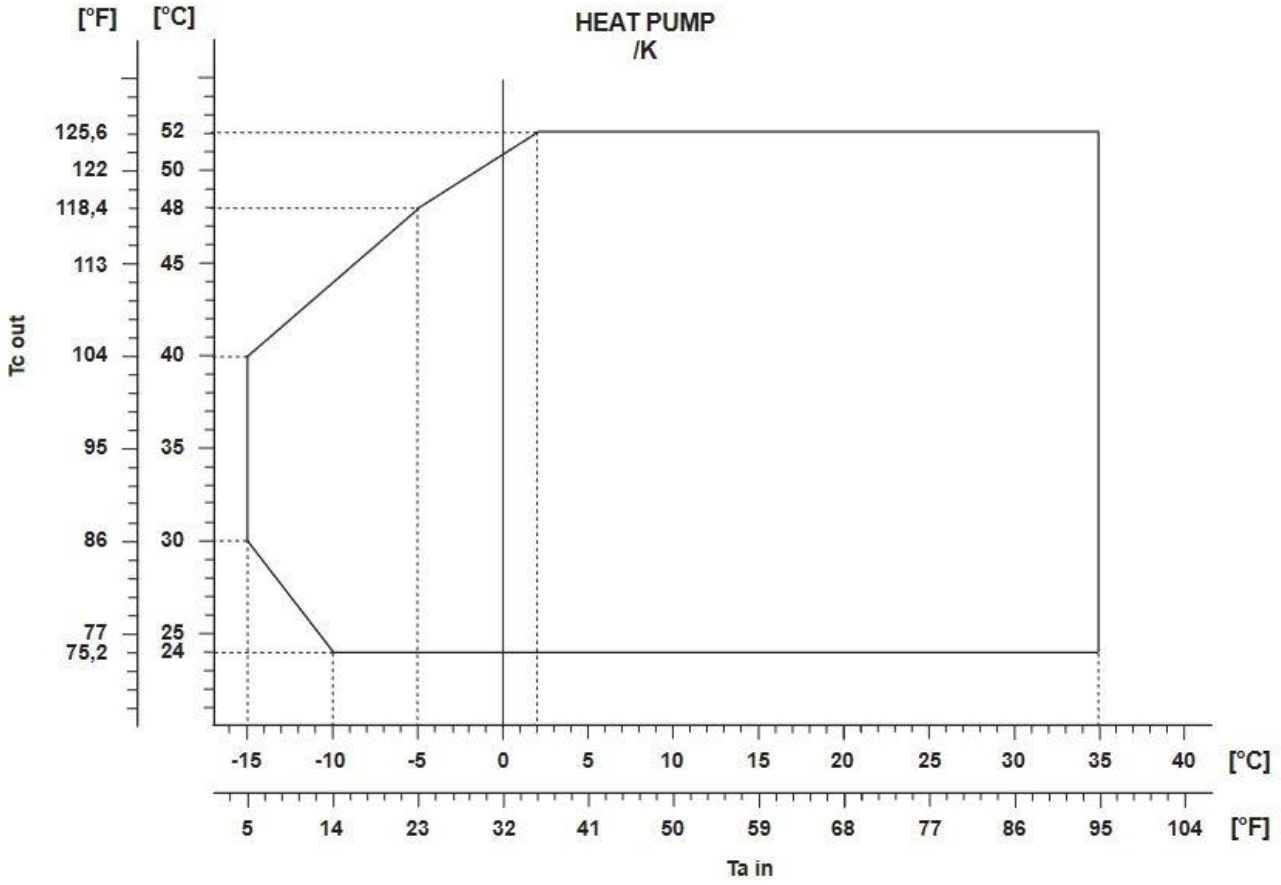
Pressostatic control DP option (801) required (Only for size 0402..0802 - K version)

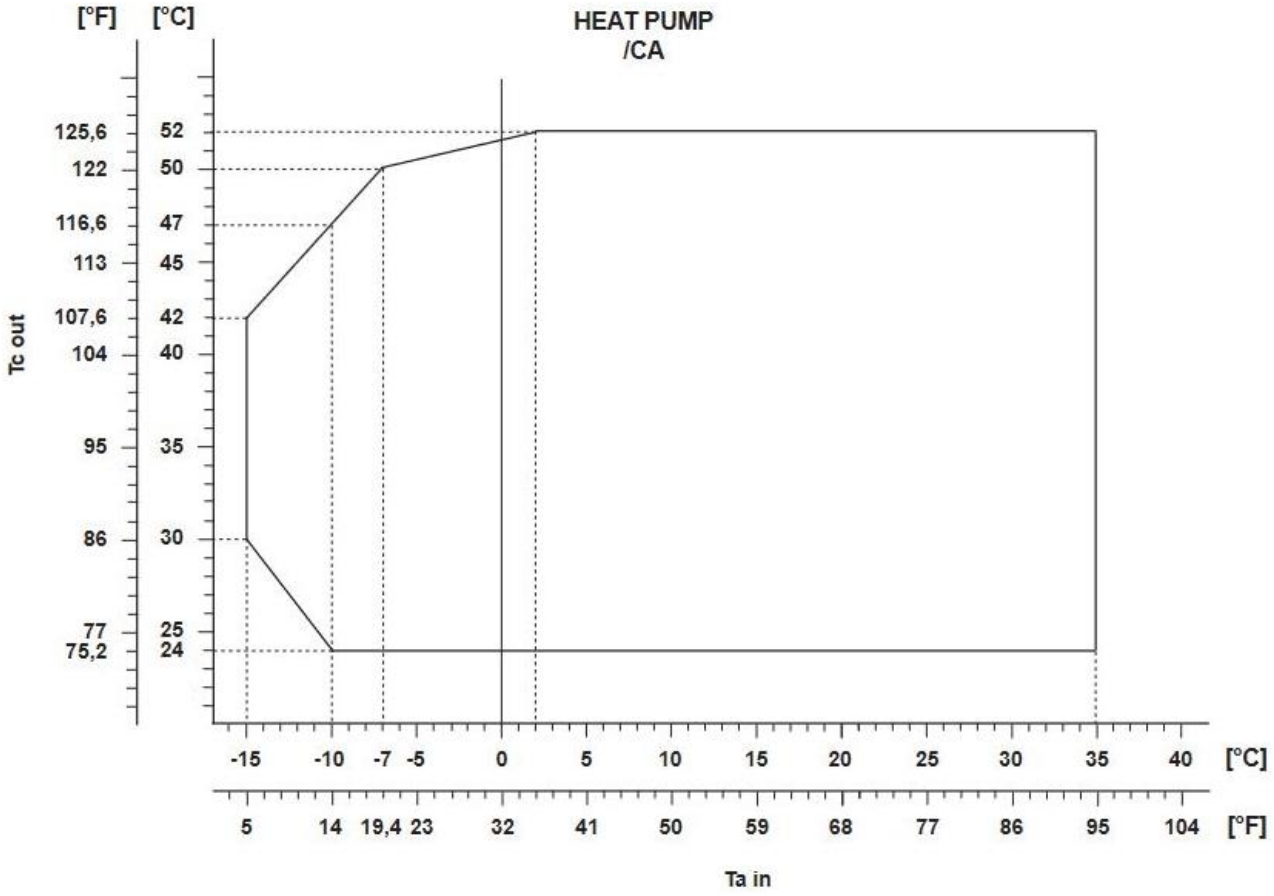
DVV option (code 802) required or EC fans (code 808) required

DVVF option (819) required or EC fans (code 808) required

DVV2F option (821) required or EC fans (code 808) required

Antifreeze on pipes +pumps option (2432) required if hydronic kit is present


[°F]
[°C]
HEAT PUMP
/K
125,6
122
118,4
113
104
95
86
77
75,2
52
50
48
45
40
35
30
25
24
Tc out
-15
-10
-5
0
5
10
15
20
25
30
35
40
[°C]
5
14
23
32
41
50
59
68
77
86
95
104
[°F]
Ta in



Ta in Outdoor air temperature
Tc out Plant (side) heat exchanger water

9.2 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.

9.3 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 (m^2 °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

[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-N-G06 /K /0202P	400/3+N/50	454	1,389	4,111	3,30	127	-	-	-	-
NX-N-G06 /K /0252P	400/3+N/50	325	1,611	4,778	3,60	148	-	-	-	-
NX-N-G06 /K /0262P	400/3+N/50	265	1,806	4,833	4,10	166	-	-	-	-
NX-N-G06 /K /0302P	400/3+N/50	190	2,056	4,833	5,00	201	-	-	-	-
NX-N-G06 /K /0352P	400/3+N/50	233	2,361	6,111	5,80	229	-	-	-	-
NX-N-G06 /K /0402P	400/3/50	162	2,806	8,139	6,60	254	-	-	-	-
NX-N-G06 /K /0452P	400/3/50	132	3,167	9,250	7,40	289	-	-	-	-
NX-N-G06 /K /0502P	400/3/50	102	3,500	10,42	8,50	326	-	-	-	-
NX-N-G06 /K /0552P	400/3/50	84,5	3,889	10,86	9,40	379	-	-	-	-
NX-N-G06 /K /0602P	400/3/50	60,6	4,556	10,86	11,5	422	-	-	-	-
NX-N-G06 /K /0702P	400/3/50	46,8	5,083	11,94	13,6	492	-	-	-	-
NX-N-G06 /K /0802P	400/3/50	46,8	5,611	11,94	13,6	546	-	-	-	-
NX-N-G06 /D /K /0202P	400/3+N/50	454	1,389	4,111	3,30	127	1767	-	1,139	0,43
NX-N-G06 /D /K /0252P	400/3+N/50	325	1,611	4,778	3,60	148	1767	-	1,194	0,43
NX-N-G06 /D /K /0262P	400/3+N/50	265	1,806	4,833	4,10	166	1767	-	1,361	0,43
NX-N-G06 /D /K /0302P	400/3+N/50	190	2,056	4,833	5,00	201	871	-	1,583	0,61
NX-N-G06 /D /K /0352P	400/3+N/50	233	2,361	6,111	5,80	229	871	-	1,861	0,61
NX-N-G06 /D /K /0402P	400/3/50	162	2,806	8,139	6,60	254	871	-	1,889	0,61
NX-N-G06 /D /K /0452P	400/3/50	132	3,167	9,250	7,40	289	613	-	2,194	0,73
NX-N-G06 /D /K /0502P	400/3/50	102	3,500	10,42	8,50	326	613	-	2,500	0,73
NX-N-G06 /D /K /0552P	400/3/50	84,5	3,889	10,86	9,40	379	412	-	2,806	0,92
NX-N-G06 /D /K /0602P	400/3/50	60,6	4,556	10,86	11,5	422	412	-	3,111	0,92
NX-N-G06 /D /K /0702P	400/3/50	46,8	5,083	11,94	13,6	492	277	-	3,694	1,22
NX-N-G06 /D /K /0802P	400/3/50	46,8	5,611	11,94	13,6	546	277	-	4,333	1,22
NX-N-G06 /LN-K /0202P	400/3+N/50	454	1,389	4,111	3,30	127	-	-	-	-
NX-N-G06 /LN-K /0252P	400/3+N/50	325	1,611	4,778	3,60	148	-	-	-	-
NX-N-G06 /LN-K /0262P	400/3+N/50	265	1,806	4,833	4,10	166	-	-	-	-
NX-N-G06 /LN-K /0302P	400/3+N/50	190	2,056	4,833	5,00	201	-	-	-	-
NX-N-G06 /LN-K /0352P	400/3+N/50	233	2,361	6,111	5,80	229	-	-	-	-
NX-N-G06 /LN-K /0402P	400/3/50	162	2,806	8,139	6,60	254	-	-	-	-
NX-N-G06 /LN-K /0452P	400/3/50	132	3,167	9,250	7,40	289	-	-	-	-
NX-N-G06 /LN-K /0502P	400/3/50	102	3,500	10,42	8,50	326	-	-	-	-
NX-N-G06 /LN-K /0552P	400/3/50	84,5	3,889	10,86	9,40	379	-	-	-	-
NX-N-G06 /LN-K /0602P	400/3/50	60,6	4,556	10,86	11,5	422	-	-	-	-
NX-N-G06 /LN-K /0702P	400/3/50	46,8	5,083	11,94	13,6	492	-	-	-	-
NX-N-G06 /LN-K /0802P	400/3/50	46,8	5,611	11,94	13,6	546	-	-	-	-
NX-N-G06 /D /LN-K /0202P	400/3+N/50	454	1,389	4,111	3,30	127	1767	-	1,139	0,43

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

[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-N-G06 /D /LN-K /0252P	400/3+N/50	325	1,611	4,778	3,60	148	1767	-	1,194	0,43
NX-N-G06 /D /LN-K /0262P	400/3+N/50	265	1,806	4,833	4,10	166	1767	-	1,361	0,43
NX-N-G06 /D /LN-K /0302P	400/3+N/50	190	2,056	4,833	5,00	201	871	-	1,583	0,61
NX-N-G06 /D /LN-K /0352P	400/3+N/50	233	2,361	6,111	5,80	229	871	-	1,861	0,61
NX-N-G06 /D /LN-K /0402P	400/3/50	162	2,806	8,139	6,60	254	871	-	1,889	0,61
NX-N-G06 /D /LN-K /0452P	400/3/50	132	3,167	9,250	7,40	289	613	-	2,194	0,73
NX-N-G06 /D /LN-K /0502P	400/3/50	102	3,500	10,42	8,50	326	613	-	2,500	0,73
NX-N-G06 /D /LN-K /0552P	400/3/50	84,5	3,889	10,86	9,40	379	412	-	2,806	0,92
NX-N-G06 /D /LN-K /0602P	400/3/50	60,6	4,556	10,86	11,5	422	412	-	3,111	0,92
NX-N-G06 /D /LN-K /0702P	400/3/50	46,8	5,083	11,94	13,6	492	277	-	3,694	1,22
NX-N-G06 /D /LN-K /0802P	400/3/50	46,8	5,611	11,94	13,6	546	277	-	4,333	1,22
NX-N-G06 /CA /0202P	400/3+N/50	454	1,389	4,111	3,30	127	-	-	-	-
NX-N-G06 /CA /0252P	400/3+N/50	325	1,611	4,778	3,60	148	-	-	-	-
NX-N-G06 /CA /0262P	400/3+N/50	265	1,806	4,833	4,10	166	-	-	-	-
NX-N-G06 /CA /0302P	400/3/50	190	2,056	4,833	5,00	201	-	-	-	-
NX-N-G06 /CA /0352P	400/3/50	233	2,361	6,111	5,80	229	-	-	-	-
NX-N-G06 /CA /0402P	400/3/50	162	2,806	8,139	6,60	254	-	-	-	-
NX-N-G06 /CA /0452P	400/3/50	132	3,167	9,250	7,40	289	-	-	-	-
NX-N-G06 /CA /0502P	400/3/50	102	3,500	10,42	8,50	326	-	-	-	-
NX-N-G06 /CA /0562P	400/3/50	84,5	3,889	10,86	9,40	379	-	-	-	-
NX-N-G06 /CA /0612P	400/3/50	60,6	4,556	10,86	11,5	422	-	-	-	-
NX-N-G06 /CA /0712P	400/3/50	46,8	5,083	11,94	13,6	492	-	-	-	-
NX-N-G06 /CA /0812P	400/3/50	46,8	5,611	11,94	13,6	546	-	-	-	-
NX-N-G06 /D /CA /0202P	400/3+N/50	454	1,389	4,111	3,30	127	1767	-	1,139	0,43
NX-N-G06 /D /CA /0252P	400/3+N/50	325	1,611	4,778	3,60	148	1767	-	1,194	0,43
NX-N-G06 /D /CA /0262P	400/3+N/50	265	1,806	4,833	4,10	166	1767	-	1,361	0,43
NX-N-G06 /D /CA /0302P	400/3/50	190	2,056	4,833	5,00	201	871	-	1,583	0,61
NX-N-G06 /D /CA /0352P	400/3/50	233	2,361	6,111	5,80	229	871	-	1,861	0,61
NX-N-G06 /D /CA /0402P	400/3/50	162	2,806	8,139	6,60	254	871	-	1,889	0,61
NX-N-G06 /D /CA /0452P	400/3/50	132	3,167	9,250	7,40	289	613	-	2,194	0,73
NX-N-G06 /D /CA /0502P	400/3/50	102	3,500	10,42	8,50	326	613	-	2,500	0,73
NX-N-G06 /D /CA /0562P	400/3/50	84,5	3,889	10,86	9,40	379	412	-	2,806	0,92
NX-N-G06 /D /CA /0612P	400/3/50	60,6	4,556	10,86	11,5	422	412	-	3,111	0,92
NX-N-G06 /D /CA /0712P	400/3/50	46,8	5,083	11,94	13,6	492	277	-	3,694	1,22
NX-N-G06 /D /CA /0812P	400/3/50	46,8	5,611	11,94	13,6	546	277	-	4,333	1,22
NX-N-G06 /LN-CA /0202P	400/3+N/50	454	1,389	4,111	3,30	127	-	-	-	-
NX-N-G06 /LN-CA /0252P	400/3+N/50	325	1,611	4,778	3,60	148	-	-	-	-
NX-N-G06 /LN-CA /0262P	400/3+N/50	265	1,806	4,833	4,10	166	-	-	-	-
NX-N-G06 /LN-CA /0302P	400/3/50	190	2,056	4,833	5,00	201	-	-	-	-
NX-N-G06 /LN-CA /0352P	400/3/50	233	2,361	6,111	5,80	229	-	-	-	-
NX-N-G06 /LN-CA /0402P	400/3/50	162	2,806	8,139	6,60	254	-	-	-	-
NX-N-G06 /LN-CA /0452P	400/3/50	132	3,167	9,250	7,40	289	-	-	-	-
NX-N-G06 /LN-CA /0502P	400/3/50	102	3,500	10,42	8,50	326	-	-	-	-
NX-N-G06 /LN-CA /0562P	400/3/50	84,5	3,889	10,86	9,40	379	-	-	-	-
NX-N-G06 /LN-CA /0612P	400/3/50	60,6	4,556	10,86	11,5	422	-	-	-	-

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

[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-N-G06 /LN-CA /0712P	400/3/50	46,8	5,083	11,94	13,6	492	-	-	-	-
NX-N-G06 /LN-CA /0812P	400/3/50	46,8	5,611	11,94	13,6	546	-	-	-	-
NX-N-G06 /D /LN-CA /0202P	400/3+N/50	454	1,389	4,111	3,30	127	1767	-	1,139	0,43
NX-N-G06 /D /LN-CA /0252P	400/3+N/50	325	1,611	4,778	3,60	148	1767	-	1,194	0,43
NX-N-G06 /D /LN-CA /0262P	400/3+N/50	265	1,806	4,833	4,10	166	1767	-	1,361	0,43
NX-N-G06 /D /LN-CA /0302P	400/3/50	190	2,056	4,833	5,00	201	871	-	1,583	0,61
NX-N-G06 /D /LN-CA /0352P	400/3/50	233	2,361	6,111	5,80	229	871	-	1,861	0,61
NX-N-G06 /D /LN-CA /0402P	400/3/50	162	2,806	8,139	6,60	254	871	-	1,889	0,61
NX-N-G06 /D /LN-CA /0452P	400/3/50	132	3,167	9,250	7,40	289	613	-	2,194	0,73
NX-N-G06 /D /LN-CA /0502P	400/3/50	102	3,500	10,42	8,50	326	613	-	2,500	0,73
NX-N-G06 /D /LN-CA /0562P	400/3/50	84,5	3,889	10,86	9,40	379	412	-	2,806	0,92
NX-N-G06 /D /LN-CA /0612P	400/3/50	60,6	4,556	10,86	11,5	422	412	-	3,111	0,92
NX-N-G06 /D /LN-CA /0712P	400/3/50	46,8	5,083	11,94	13,6	492	277	-	3,694	1,22
NX-N-G06 /D /LN-CA /0812P	400/3/50	46,8	5,611	11,94	13,6	546	277	-	4,333	1,22

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

11.1 ELECTRIC DATA

[SI System]

NX-N-G06/K

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]
0202P	400/3+N/50	2	2x10.5	2x16.6	2x123	4x0.3	4x1.1	22,20	38	144
0252P	400/3+N/50	2	2x11.5	2x18.3	2x138	6x0.3	6x1.1	24,80	43	163
0262P	400/3+N/50	2	2x13.1	2x20.8	2x145	6x0.3	6x1.1	28,00	48	172
0302P	400/3+N/50	2	2x15.4	2x24.9	2x172	6x0.3	6x1.1	32,60	56	204
0352P	400/3+N/50	2	1x15.4+1x21.4	1x24.9+1x34.2	1x172+1x211	6x0.3	6x1.1	38,60	66	243
0402P	400/3/50	2	2x21.4	2x34.2	2x211	2x2	2x3.9	46,80	76	253
0452P	400/3/50	2	1x21.4+1x27	1x34.2+1x42.5	1x211+1x210	2x2	2x3.9	52,40	85	261
0502P	400/3/50	2	2x27	2x42.5	2x210	2x2	2x3.9	58,00	93	260
0552P	400/3/50	2	1x27+1x34.5	1x42.5+1x55.1	1x210+1x326	2x1.84	2x3.76	65,20	105	376
0602P	400/3/50	2	2x34.5	2x55.1	2x326	3x2	3x3.9	75,00	122	393
0702P	400/3/50	2	2x37.8	2x62.3	2x326	3x2	3x3.9	81,60	136	400
0802P	400/3/50	2	2x42	2x68.4	2x298	3x2	3x3.9	90,00	149	378

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.

Voltage tolerance: 10%
Maximum voltage unbalance: 2%

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

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

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

[SI System]

NX-N-G06/LN-K

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]
0202P	400/3+N/50	2	2x10.5	2x16.6	2x123	4x0.3	4x1.1	22,20	38	144
0252P	400/3+N/50	2	2x11.5	2x18.3	2x138	6x0.3	6x1.1	24,80	43	163
0262P	400/3+N/50	2	2x13.1	2x20.8	2x145	6x0.3	6x1.1	28,00	48	172
0302P	400/3+N/50	2	2x15.4	2x24.9	2x172	6x0.3	6x1.1	32,60	56	204
0352P	400/3+N/50	2	1x15.4+1x21.4	1x24.9+1x34.2	1x172+1x211	6x0.3	6x1.1	38,60	66	243
0402P	400/3/50	2	2x21.4	2x34.2	2x211	2x2	2x3.9	46,80	76	253
0452P	400/3/50	2	1x21.4+1x27	1x34.2+1x42.5	1x211+1x210	2x2	2x3.9	52,40	85	261
0502P	400/3/50	2	2x27	2x42.5	2x210	2x2	2x3.9	58,00	93	260
0552P	400/3/50	2	1x27+1x34.5	1x42.5+1x55.1	1x210+1x326	2x1.84	2x3.76	65,20	105	376
0602P	400/3/50	2	2x34.5	2x55.1	2x326	3x2	3x3.9	75,00	122	393
0702P	400/3/50	2	2x37.8	2x62.3	2x326	3x2	3x3.9	81,60	136	400
0802P	400/3/50	2	2x42	2x68.4	2x298	3x2	3x3.9	90,00	149	378

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.

Voltage tolerance: 10%
Maximum voltage unbalance: 2%

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

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

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

[SI System]

NX-N-G06/CA

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]
0202P	400/3+N/50	2	2x10.5	2x16.6	2x123	4x0.3	4x1.1	22,20	38	144
0252P	400/3+N/50	2	2x11.5	2x18.3	2x138	6x0.3	6x1.1	24,80	43	163
0262P	400/3+N/50	2	2x13.1	2x20.8	2x145	6x0.3	6x1.1	28,00	48	172
0302P	400/3/50	2	2x15.4	2x24.9	2x172	2x2	2x3.9	34,80	58	205
0352P	400/3/50	2	1x15.4+1x21.4	1x24.9+1x34.2	1x172+1x211	2x2	2x3.9	40,80	67	244
0402P	400/3/50	2	2x21.4	2x34.2	2x211	2x1.84	2x3.76	46,50	76	253
0452P	400/3/50	2	1x21.4+1x27	1x34.2+1x42.5	1x211+1x210	2x1.84	2x3.76	52,10	84	261
0502P	400/3/50	2	2x27	2x42.5	2x210	3x2	3x3.9	60,00	97	264
0562P	400/3/50	2	1x27+1x34.5	1x42.5+1x55.1	1x210+1x326	4x2	4x4.1	69,50	114	385
0612P	400/3/50	2	2x34.5	2x55.1	2x326	4x2	4x4.1	77,00	127	398
0712P	400/3/50	2	2x37.8	2x62.3	2x326	6x2	6x4.1	87,60	149	413
0812P	400/3/50	2	2x42	2x68.4	2x298	6x2	6x4.1	96,00	161	391

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.

Voltage tolerance: 10%
Maximum voltage unbalance: 2%

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

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

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

[SI System]

NX-N-G06/LN-CA

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]
0202P	400/3+N/50	2	2x10.5	2x16.6	2x123	4x0.3	4x1.1	22,20	38	144
0252P	400/3+N/50	2	2x11.5	2x18.3	2x138	6x0.3	6x1.1	24,80	43	163
0262P	400/3+N/50	2	2x13.1	2x20.8	2x145	6x0.3	6x1.1	28,00	48	172
0302P	400/3/50	2	2x15.4	2x24.9	2x172	2x2	2x3.9	34,80	58	205
0352P	400/3/50	2	1x15.4+1x21.4	1x24.9+1x34.2	1x172+1x211	2x2	2x3.9	40,80	67	244
0402P	400/3/50	2	2x21.4	2x34.2	2x211	2x1.84	2x3.76	46,50	76	253
0452P	400/3/50	2	1x21.4+1x27	1x34.2+1x42.5	1x211+1x210	2x1.84	2x3.76	52,10	84	261
0502P	400/3/50	2	2x27	2x42.5	2x210	3x2	3x3.9	60,00	97	264
0562P	400/3/50	2	1x27+1x34.5	1x42.5+1x55.1	1x210+1x326	4x2	4x4.1	69,50	114	385
0612P	400/3/50	2	2x34.5	2x55.1	2x326	4x2	4x4.1	77,00	127	398
0712P	400/3/50	2	2x37.8	2x62.3	2x326	6x2	6x4.1	87,60	149	413
0812P	400/3/50	2	2x42	2x68.4	2x298	6x2	6x4.1	96,00	161	391

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.

Voltage tolerance: 10%
Maximum voltage unbalance: 2%

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

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

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

NX-N-G06/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								
0202P	85	85	81	80	80	77	69	57	**84**
0252P	86	86	82	81	81	78	70	58	**85**
0262P	86	86	82	81	81	78	70	58	**85**
0302P	86	86	82	81	81	78	70	58	**85**
0352P	87	87	83	82	82	79	71	59	**86**
0402P	89	89	85	84	84	81	73	61	**88**
0452P	89	89	85	84	84	81	73	61	**88**
0502P	89	89	85	84	84	81	73	61	**88**
0552P	91	91	87	86	86	83	75	63	**90**
0602P	91	91	87	86	86	83	75	63	**90**
0702P	91	91	87	86	86	83	75	63	**90**
0802P	92	92	88	87	87	84	76	64	**91**

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 taken in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in cooling, outdoors.

NX-N-G06/K

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0202P	68	68	64	63	63	60	52	40	**67**
0252P	68	68	64	63	63	60	52	40	**67**
0262P	68	68	64	63	63	60	52	40	**67**
0302P	68	68	64	63	63	60	52	40	**67**
0352P	69	69	65	64	64	61	53	41	**68**
0402P	71	71	67	66	66	63	55	43	**70**
0452P	71	71	67	66	66	63	55	43	**70**
0502P	71	71	67	66	66	63	55	43	**70**
0552P	73	73	69	68	68	65	57	45	**72**
0602P	72	72	68	67	67	64	56	44	**71**
0702P	72	72	68	67	67	64	56	44	**71**
0802P	73	73	69	68	68	65	57	45	**72**

Working conditions
Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

NX-N-G06/K

SOUND POWER LEVEL IN HEATING									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0202P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**85**
0252P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**86**
0262P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**86**
0302P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**86**
0352P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**86**
0402P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**88**
0452P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**88**
0502P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**88**
0552P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**90**
0602P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**90**
0702P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**90**
0802P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**91**

Working conditions

Sound power on the basis of measurements taken in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in heating, outdoors.
N.A.: Not available

NX-N-G06/K

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0202P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**68**
0252P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**68**
0262P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**68**
0302P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**68**
0352P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**68**
0402P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**70**
0452P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**70**
0502P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**70**
0552P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**72**
0602P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**71**
0702P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**71**
0802P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**72**

Working conditions

Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
N.A.: Not available

NX-N-G06/LN-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								
0202P	78	78	75	74	73	69	62	48	**77**
0252P	78	78	76	75	74	70	63	49	**78**
0262P	80	80	77	76	75	71	65	50	**79**
0302P	81	81	78	77	76	72	66	51	**80**
0352P	84	82	83	82	76	71	65	59	**82**
0402P	85	83	84	83	77	72	66	60	**83**
0452P	85	83	84	83	77	72	66	60	**83**
0502P	85	83	84	83	77	72	66	60	**83**
0552P	86	84	85	84	78	73	67	61	**84**
0602P	86	84	85	84	78	73	67	61	**84**
0702P	86	84	85	84	78	73	67	61	**84**
0802P	88	86	87	86	80	75	69	63	**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 taken in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in cooling, outdoors.

NX-N-G06/LN-K

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0202P	61	61	58	57	56	52	45	31	**60**
0252P	60	60	58	57	56	52	45	31	**60**
0262P	62	62	59	58	57	53	47	32	**61**
0302P	63	63	60	59	58	54	48	33	**62**
0352P	66	64	65	64	58	53	47	41	**64**
0402P	67	65	66	65	59	54	48	42	**65**
0452P	67	65	66	65	59	54	48	42	**65**
0502P	67	65	66	65	59	54	48	42	**65**
0552P	68	66	67	66	60	55	49	43	**66**
0602P	67	65	66	65	59	54	48	42	**65**
0702P	67	65	66	65	59	54	48	42	**65**
0802P	69	67	68	67	61	56	50	44	**67**

Working conditions
Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

NX-N-G06/LN-K

SOUND POWER LEVEL IN HEATING									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0202P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	79
0252P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	80
0262P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	81
0302P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	82
0352P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	83
0402P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	84
0452P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	84
0502P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	84
0552P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	85
0602P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	85
0702P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	85
0802P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	87

Working conditions

Sound power on the basis of measurements taken in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in heating, outdoors.
N.A.: Not available

NX-N-G06/LN-K

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0202P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	62
0252P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	62
0262P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	63
0302P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	64
0352P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	65
0402P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	66
0452P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	66
0502P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	66
0552P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	67
0602P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	66
0702P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	66
0802P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	68

Working conditions

Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
N.A.: Not available

NX-N-G06/CA

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								
0202P	85	85	81	80	80	77	69	57	**84**
0252P	86	86	82	81	81	78	70	58	**85**
0262P	86	86	82	81	81	78	70	58	**85**
0302P	89	89	85	84	84	81	73	61	**88**
0352P	89	89	85	84	84	81	73	61	**88**
0402P	90	90	86	85	85	82	74	62	**89**
0452P	90	90	86	85	85	82	74	62	**89**
0502P	91	91	87	86	86	83	75	63	**90**
0562P	92	92	88	87	87	84	76	64	**91**
0612P	92	92	88	87	87	84	76	64	**91**
0712P	93	93	89	88	88	85	77	65	**92**
0812P	94	94	90	89	89	86	78	66	**93**

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 taken in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in cooling, outdoors.

NX-N-G06/CA

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0202P	67	67	63	62	62	59	51	39	**66**
0252P	68	68	64	63	63	60	52	40	**67**
0262P	68	68	64	63	63	60	52	40	**67**
0302P	71	71	67	66	66	63	55	43	**70**
0352P	71	71	67	66	66	63	55	43	**70**
0402P	72	72	68	67	67	64	56	44	**71**
0452P	72	72	68	67	67	64	56	44	**71**
0502P	72	72	68	67	67	64	56	44	**71**
0562P	72	72	68	67	67	64	56	44	**71**
0612P	72	72	68	67	67	64	56	44	**71**
0712P	73	73	69	68	68	65	57	45	**72**
0812P	74	74	70	69	69	66	58	46	**73**

Working conditions
Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

NX-N-G06/CA

SOUND POWER LEVEL IN HEATING									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0202P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**85**
0252P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**86**
0262P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**86**
0302P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**89**
0352P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**88**
0402P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**89**
0452P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**89**
0502P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**90**
0562P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**91**
0612P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**91**
0712P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**92**
0812P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**93**

Working conditions

Sound power on the basis of measurements taken in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in heating, outdoors.
N.A.: Not available

NX-N-G06/CA

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0202P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**67**
0252P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**68**
0262P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**68**
0302P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**71**
0352P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**70**
0402P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**71**
0452P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**71**
0502P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**71**
0562P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**71**
0612P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**71**
0712P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**72**
0812P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**73**

Working conditions

Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
N.A.: Not available

NX-N-G06/LN-CA

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								
0202P	78	78	75	74	73	69	63	48	**77**
0252P	79	79	76	75	74	70	64	49	**78**
0262P	80	80	77	76	75	71	65	50	**79**
0302P	84	82	83	82	76	71	65	59	**82**
0352P	85	83	84	83	77	72	66	60	**83**
0402P	86	84	85	84	78	73	67	61	**84**
0452P	86	84	85	84	78	73	67	61	**84**
0502P	86	84	85	84	78	73	67	61	**84**
0562P	87	85	86	85	79	74	68	62	**85**
0612P	87	85	86	85	79	74	68	62	**85**
0712P	88	86	87	86	80	75	69	63	**86**
0812P	89	87	88	87	81	76	70	64	**87**

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 taken in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in cooling, outdoors.

NX-N-G06/LN-CA

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0202P	60	60	57	56	55	51	45	30	**59**
0252P	61	61	58	57	56	52	46	31	**60**
0262P	62	62	59	58	57	53	47	32	**61**
0302P	66	64	65	64	58	53	47	41	**64**
0352P	67	65	66	65	59	54	48	42	**65**
0402P	68	66	67	66	60	55	49	43	**66**
0452P	68	66	67	66	60	55	49	43	**66**
0502P	67	65	66	65	59	54	48	42	**65**
0562P	67	65	66	65	59	54	48	42	**65**
0612P	67	65	66	65	59	54	48	42	**65**
0712P	68	66	67	66	60	55	49	43	**66**
0812P	69	67	68	67	61	56	50	44	**67**

Working conditions
Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

NX-N-G06/LN-CA

SOUND POWER LEVEL IN HEATING									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0202P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	79
0252P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	80
0262P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	81
0302P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	84
0352P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	84
0402P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	85
0452P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	85
0502P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	85
0562P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	86
0612P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	86
0712P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	87
0812P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	88

Working conditions

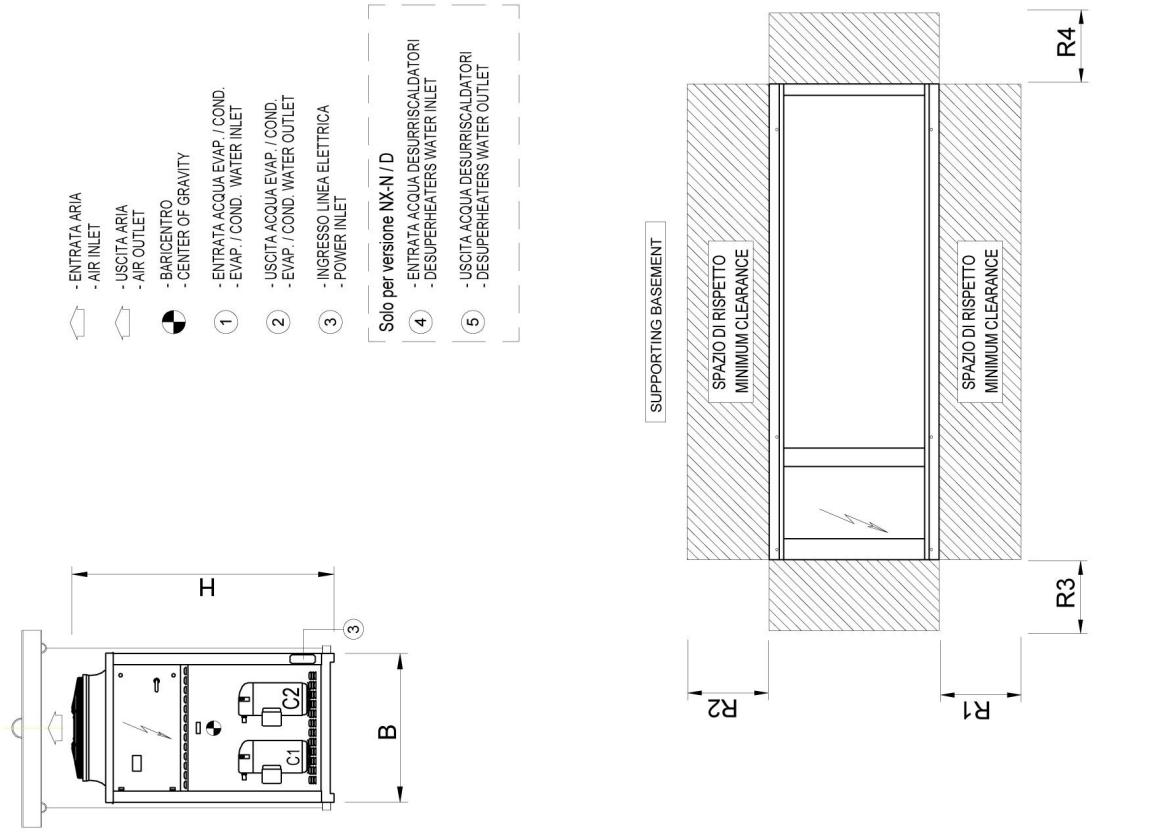
Sound power on the basis of measurements taken in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in heating, outdoors.
N.A.: Not available

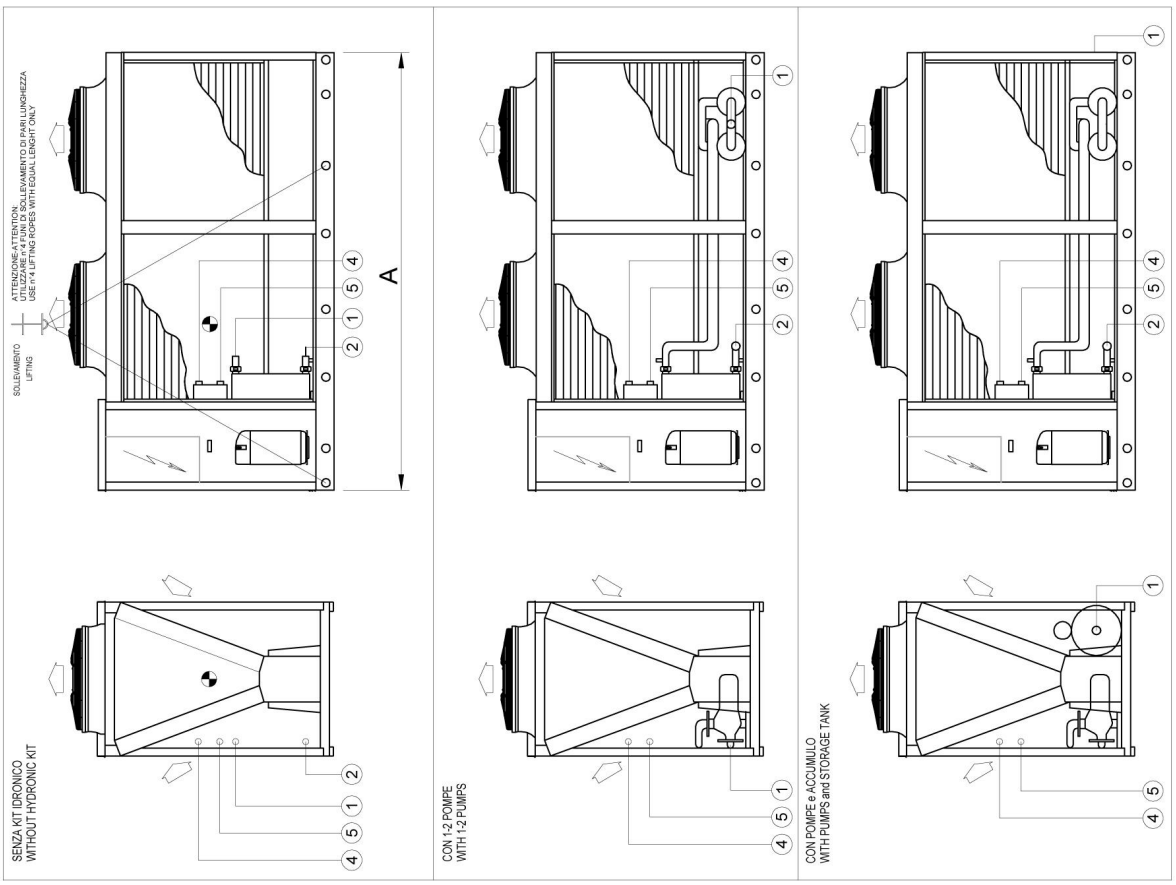
NX-N-G06/LN-CA

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0202P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	61
0252P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	62
0262P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	63
0302P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	66
0352P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	66
0402P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	67
0452P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	67
0502P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	66
0562P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	66
0612P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	66
0712P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	67
0812P	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	68

Working conditions

Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
N.A.: Not available





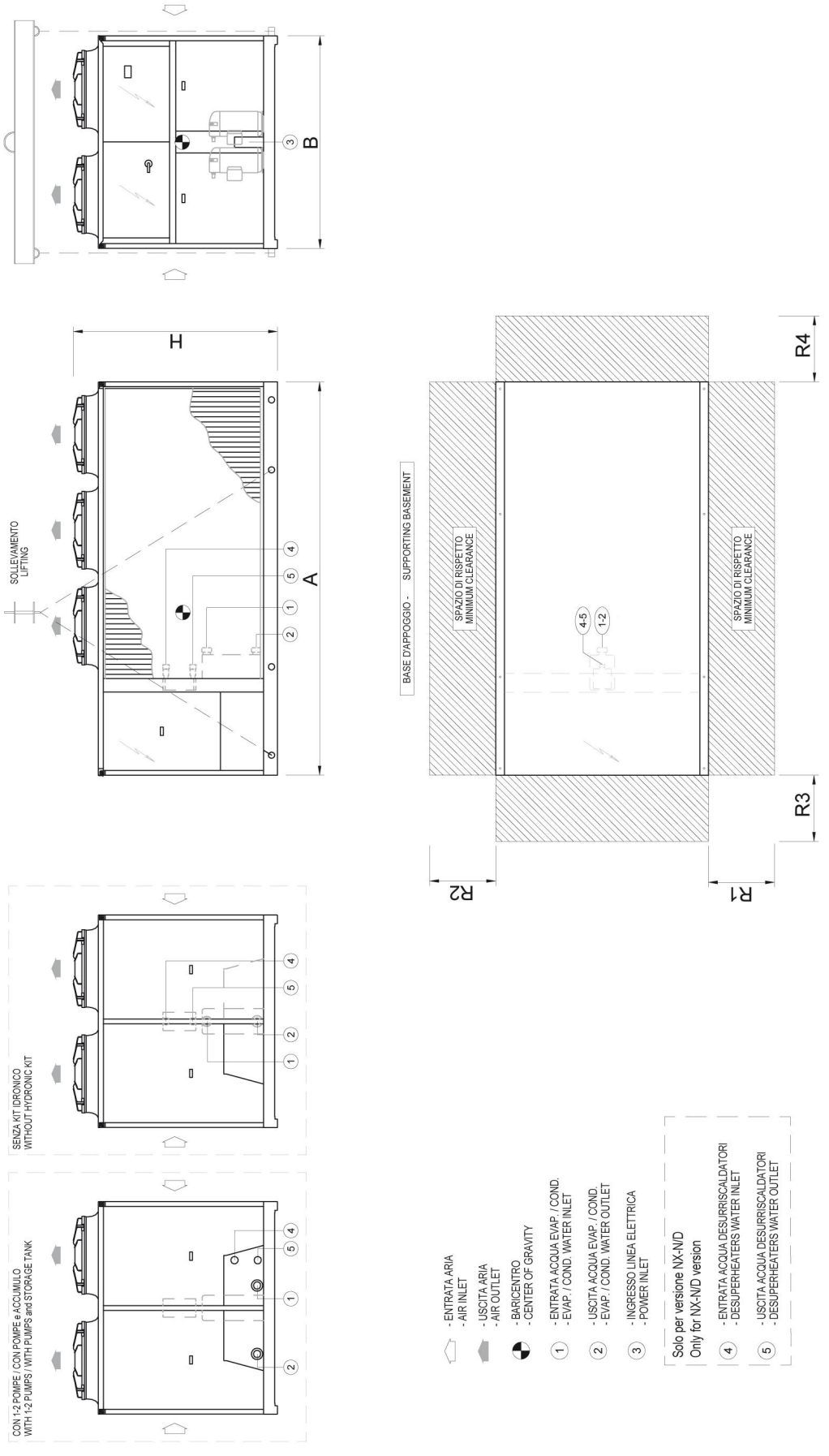
REMARKS:For installation purposes, please refer to the documentation sent after the purchase-contract. This technical data should be considered as indicative. Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A. may modify them at any moment. Data valid for standard units without any additional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

[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-N-G06 /K /0202P	1825	1195	1865	600	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /K /0252P	2395	1195	1865	670	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /K /0262P	2395	1195	1865	680	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /K /0302P	2395	1195	1865	690	1000	1000	1000	1000	B1	2"	-	-
NX-N-G06 /K /0352P	2395	1195	1865	740	1000	1000	1000	1000	B1	2"	-	-
NX-N-G06 /K /0402P	2825	1195	1980	840	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /K /0452P	2825	1195	1980	940	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /K /0502P	3360	1195	1980	1110	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /K /0552P	3360	1195	1980	1160	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /K /0602P	3980	1195	1980	1260	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /K /0702P	3980	1195	1980	1280	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /K /0802P	3980	1195	1980	1320	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /D /K /0202P	1825	1195	1865	600	1000	1000	1000	1000	B1	1"1/2	B1	1" 1/4
NX-N-G06 /D /K /0252P	2395	1195	1865	670	1000	1000	1000	1000	B1	1"1/2	B1	1" 1/4
NX-N-G06 /D /K /0262P	2395	1195	1865	680	1000	1000	1000	1000	B1	1"1/2	B1	1" 1/4
NX-N-G06 /D /K /0302P	2395	1195	1865	690	1000	1000	1000	1000	B1	2"	B1	1" 1/4
NX-N-G06 /D /K /0352P	2395	1195	1865	740	1000	1000	1000	1000	B1	2"	B1	1" 1/4
NX-N-G06 /D /K /0402P	2825	1195	1980	840	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /D /K /0452P	2825	1195	1980	940	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /D /K /0502P	3360	1195	1980	1110	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /D /K /0552P	3360	1195	1980	1160	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /D /K /0602P	3980	1195	1980	1260	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /D /K /0702P	3980	1195	1980	1280	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /D /K /0802P	3980	1195	1980	1320	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /LN-K /0202P	1825	1195	1865	610	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /LN-K /0252P	2395	1195	1865	680	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /LN-K /0262P	2395	1195	1865	690	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /LN-K /0302P	2395	1195	1865	700	1000	1000	1000	1000	B1	2"	-	-
NX-N-G06 /LN-K /0352P	2395	1195	1865	750	1000	1000	1000	1000	B1	2"	-	-
NX-N-G06 /LN-K /0402P	2825	1195	1980	880	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /LN-K /0452P	2825	1195	1980	1020	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /LN-K /0502P	3360	1195	1980	1160	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /LN-K /0552P	3360	1195	1980	1200	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /LN-K /0602P	3980	1195	1980	1290	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /LN-K /0702P	3980	1195	1980	1330	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /LN-K /0802P	3980	1195	1980	1370	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /D /LN-K /0202P	1825	1195	1865	610	1000	1000	1000	1000	B1	1"1/2	B1	1" 1/4
NX-N-G06 /D /LN-K /0252P	2395	1195	1865	680	1000	1000	1000	1000	B1	1"1/2	B1	1" 1/4
NX-N-G06 /D /LN-K /0262P	2395	1195	1865	690	1000	1000	1000	1000	B1	1"1/2	B1	1" 1/4
NX-N-G06 /D /LN-K /0302P	2395	1195	1865	700	1000	1000	1000	1000	B1	2"	B1	1" 1/4
NX-N-G06 /D /LN-K /0352P	2395	1195	1865	750	1000	1000	1000	1000	B1	2"	B1	1" 1/4
NX-N-G06 /D /LN-K /0402P	2825	1195	1980	880	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /D /LN-K /0452P	2825	1195	1980	1020	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /D /LN-K /0502P	3360	1195	1980	1160	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /D /LN-K /0552P	3360	1195	1980	1200	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /D /LN-K /0602P	3980	1195	1980	1290	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /D /LN-K /0702P	3980	1195	1980	1330	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4

[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-N-G06 /D /LN-K /0802P	3980	1195	1980	1370	1000	1000	1000	1000	B1	2"1/2	B1	1" 1/4
NX-N-G06 /CA /0202P	2395	1195	1865	670	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /CA /0252P	2395	1195	1865	700	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /CA /0262P	2395	1195	1865	700	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /CA /0302P	2825	1195	1980	830	1000	1000	1000	1000	B1	2"	-	-
NX-N-G06 /CA /0352P	3360	1195	1980	940	1000	1000	1000	1000	B1	2"	-	-
NX-N-G06 /CA /0402P	3360	1195	1980	990	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /CA /0452P	3360	1195	1980	1090	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /CA /0502P	3980	1195	1980	1270	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /D /CA /0202P	2395	1195	1865	670	1000	1000	1000	1000	B1	1"1/2	B1	1"1/4
NX-N-G06 /D /CA /0252P	2395	1195	1865	700	1000	1000	1000	1000	B1	1"1/2	B1	1"1/4
NX-N-G06 /D /CA /0262P	2395	1195	1865	700	1000	1000	1000	1000	B1	1"1/2	B1	1"1/4
NX-N-G06 /D /CA /0302P	2825	1195	1980	830	1000	1000	1000	1000	B1	2"	B1	1"1/4
NX-N-G06 /D /CA /0352P	3360	1195	1980	940	1000	1000	1000	1000	B1	2"	B1	1"1/4
NX-N-G06 /D /CA /0402P	3360	1195	1980	990	1000	1000	1000	1000	B1	2"1/2	B1	1"1/4
NX-N-G06 /D /CA /0452P	3360	1195	1980	1090	1000	1000	1000	1000	B1	2"1/2	B1	1"1/4
NX-N-G06 /D /CA /0502P	3980	1195	1980	1270	1000	1000	1000	1000	B1	2"1/2	B1	1"1/4
NX-N-G06 /LN-CA /0202P	2395	1195	1865	680	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /LN-CA /0252P	2395	1195	1865	740	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /LN-CA /0262P	2395	1195	1865	750	1000	1000	1000	1000	B1	1"1/2	-	-
NX-N-G06 /LN-CA /0302P	2825	1195	1980	870	1000	1000	1000	1000	B1	2"	-	-
NX-N-G06 /LN-CA /0352P	3360	1195	1980	950	1000	1000	1000	1000	B1	2"	-	-
NX-N-G06 /LN-CA /0402P	3360	1195	1980	1000	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /LN-CA /0452P	3360	1195	1980	1100	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /LN-CA /0502P	3980	1195	1980	1280	1000	1000	1000	1000	B1	2"1/2	-	-
NX-N-G06 /D /LN-CA /0202P	2395	1195	1865	680	1000	1000	1000	1000	B1	1"1/2	B1	1"1/4
NX-N-G06 /D /LN-CA /0252P	2395	1195	1865	740	1000	1000	1000	1000	B1	1"1/2	B1	1"1/4
NX-N-G06 /D /LN-CA /0262P	2395	1195	1865	750	1000	1000	1000	1000	B1	1"1/2	B1	1"1/4
NX-N-G06 /D /LN-CA /0302P	2825	1195	1980	870	1000	1000	1000	1000	B1	2"	B1	1"1/4
NX-N-G06 /D /LN-CA /0352P	3360	1195	1980	950	1000	1000	1000	1000	B1	2"	B1	1"1/4
NX-N-G06 /D /LN-CA /0402P	3360	1195	1980	1000	1000	1000	1000	1000	B1	2"1/2	B1	1"1/4
NX-N-G06 /D /LN-CA /0452P	3360	1195	1980	1100	1000	1000	1000	1000	B1	2"1/2	B1	1"1/4
NX-N-G06 /D /LN-CA /0502P	3980	1195	1980	1280	1000	1000	1000	1000	B1	2"1/2	B1	1"1/4



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.

[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-N-G06 /CA /0562P	4110	2220	2150	1740	2000	2000	1000	2000	B1	3"	-	-
NX-N-G06 /CA /0612P	4110	2220	2150	1840	2000	2000	1000	2000	B1	3"	-	-
NX-N-G06 /CA /0712P	5110	2220	2150	2070	2000	2000	1000	2000	B1	3"	-	-
NX-N-G06 /CA /0812P	5110	2220	2150	2200	2000	2000	1000	2000	B1	3"	-	-
NX-N-G06 /D /CA /0562P	4110	2220	2150	1740	2000	2000	1000	2000	B1	3"	B1	1"1/2
NX-N-G06 /D /CA /0612P	4110	2220	2150	1840	2000	2000	1000	2000	B1	3"	B1	1"1/2
NX-N-G06 /D /CA /0712P	5110	2220	2150	2070	2000	2000	1000	2000	B1	3"	B1	1"1/2
NX-N-G06 /D /CA /0812P	5110	2220	2150	2200	2000	2000	1000	2000	B1	3"	B1	1"1/2
NX-N-G06 /LN-CA /0562P	4110	2220	2150	1750	2000	2000	1000	2000	B1	3"	-	-
NX-N-G06 /LN-CA /0612P	4110	2220	2150	1850	2000	2000	1000	2000	B1	3"	-	-
NX-N-G06 /LN-CA /0712P	5110	2220	2150	2080	2000	2000	1000	2000	B1	3"	-	-
NX-N-G06 /LN-CA /0812P	5110	2220	2150	2210	2000	2000	1000	2000	B1	3"	-	-
NX-N-G06 /D /LN-CA /0562P	4110	2220	2150	1750	2000	2000	1000	2000	B1	3"	B1	1"1/2
NX-N-G06 /D /LN-CA /0612P	4110	2220	2150	1850	2000	2000	1000	2000	B1	3"	B1	1"1/2
NX-N-G06 /D /LN-CA /0712P	5110	2220	2150	2080	2000	2000	1000	2000	B1	3"	B1	1"1/2
NX-N-G06 /D /LN-CA /0812P	5110	2220	2150	2210	2000	2000	1000	2000	B1	3"	B1	1"1/2

14.1 Hydronic groups

HYDRONIC GROUP

The hydronic group consists of:
- 1 or 2 pumps, 2 poles, low or high head
- 10 mm insulation lining on pumps and pipes
- pump inlet / oulet valves
- check valves (only for twin end-suction pumps)
- drain valve
- air vent
- safety valve calibrated to 8 bar (longitudinal-V shaped units) or 10 bar (Dual coil units)

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

IN-LINE PUMPS
Low or high head pumps

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

END-SUCTION PUMPS
Low or high head pumps

Horizontal one-piece centrifuge pump, normalised to EN 733, axial suction and radial delivery, in single or twin version. Pump with cast iron body and AISI 316L stainless steel impeller. The section of the shaft in contact with the liquid is made from stainless steel. Mechanical seal with components in: ceramic/carbon/EPDM. Three-phase electric motor protected to IP55, insulation class F, suitable for continuous service.

BUFFER TANK

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

SPECIAL PUMPS

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

Possible configurations

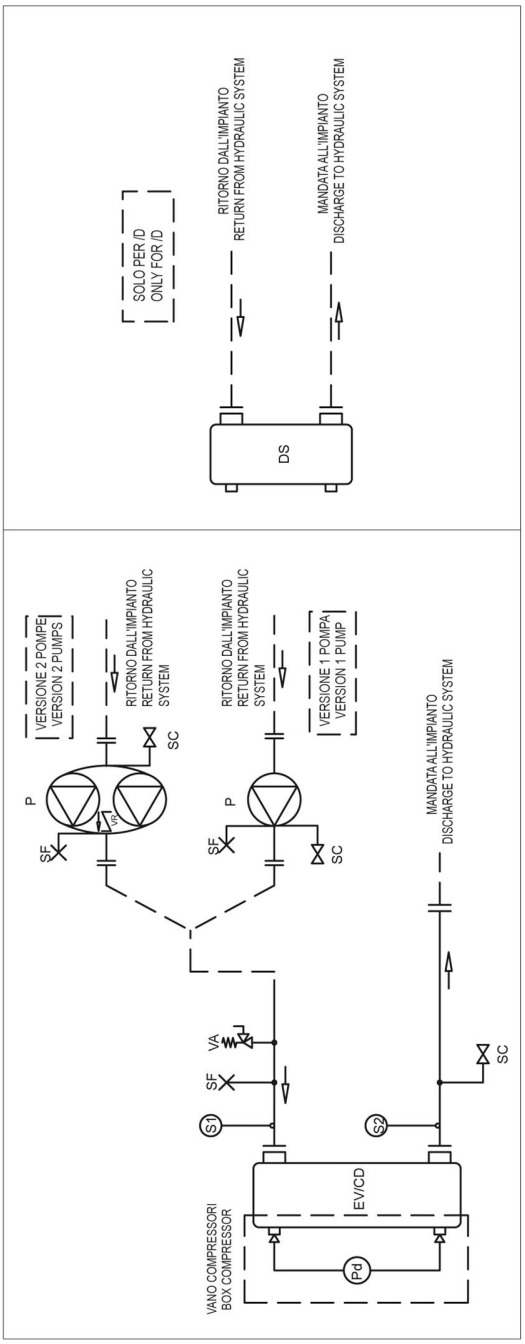
PUMP GROUP	Versions			
	CA	K	LN-CA	LN-K
HYDRONIC KIT 1 PUMP 2 POLES LH + TANK(3152)	X	X	X	X
HYDRONIC KIT 1 PUMP 2 POLES HH + TANK(3153)	X	X	X	X
HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK(3155)	X	X	X	X
HYDRONIC KIT 2 PUMPS 2 POLES HH + TANK(3156)	X	X	X	X
HYDRONIC KIT 1 PUMP 2 POLES LH(3164)	X	X	X	X
HYDRONIC KIT 1 PUMP 2P HH(3165)	X	X	X	X
HYDRONIC KIT 2 PUMPS 2 POLES LH(3167)	X	X	X	X
HYDRONIC KIT 2 PUMPS 2P HH(3168)	X	X	X	X

Storage tank combinations

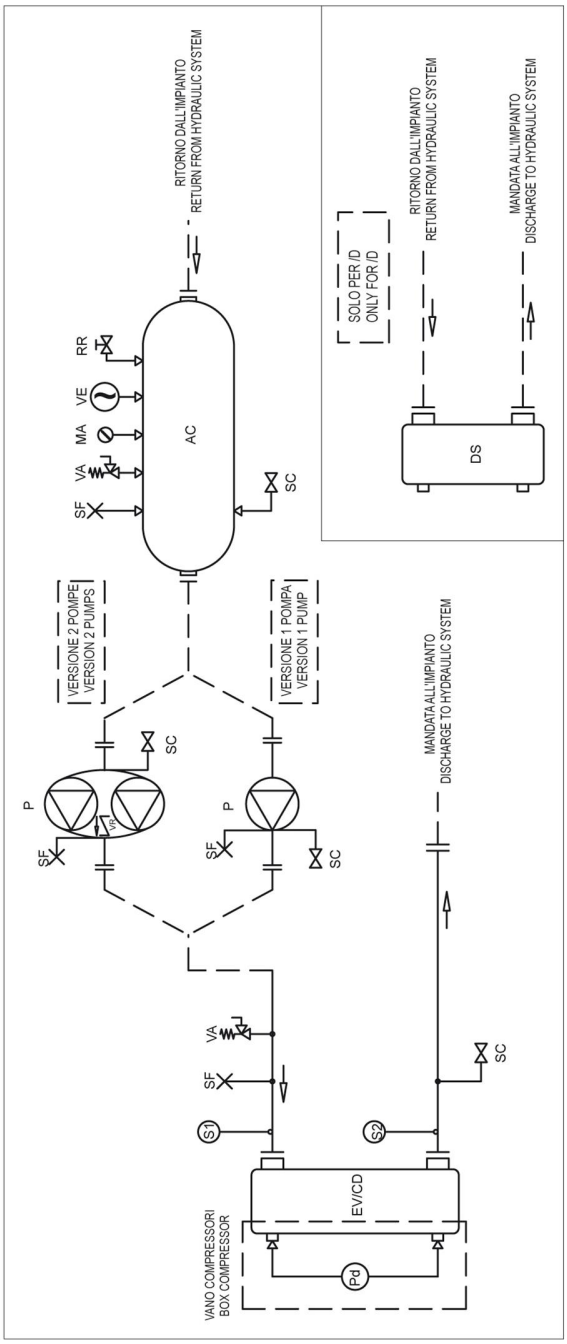
	Version	ACCUMULATION Capacity [l]
0202P	CA	140
	LN-CA	
	K	90
	LN-K	
0252P	CA	140
	K	
	LN-CA	
	LN-K	
0262P	CA	140
	K	
	LN-CA	
	LN-K	
0302P	CA	140
	K	
	LN-CA	
	LN-K	
0352P	CA	200
	LN-CA	
	K	140
	LN-K	
0402P	CA	200
	LN-CA	
	K	140
	LN-K	
0452P	CA	200
	LN-CA	
	K	140
	LN-K	

	Version	ACCUMULATION Capacity [l]
0502P	CA	250
	LN-CA	
	K	200
	LN-K	
0552P	K	200
	LN-K	
0562P	CA	500
	LN-CA	
0602P	K	250
	LN-K	
0612P	CA	500
	LN-CA	
0702P	K	250
	LN-K	
0712P	CA	850
	LN-CA	
0802P	K	250
	LN-K	
0812P	CA	850
	LN-CA	

SCHEMA IDRAULICO CON 1-2 POMPE
HYDRAULIC DIAGRAM WITH 1-2 PUMPS



SCHEMA IDRAULICO CON 1-2 POMPE + ACCUMULO
HYDRAULIC DIAGRAM WITH 1-2 PUMPS + BUFFER TANK



Hydronic kit positioning

	Version	HYDRONIC KIT 1 PUMP 2 POLES LH + TANK (3152)				HYDRONIC KIT 1 PUMP 2 POLES HH + TANK (3153)				HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK (3155)				HYDRONIC KIT 2 PUMPS 2 POLES HH + TANK (3156)			
		extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]
0202P	CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	K	/	/	/	250	/	/	/	250	/	/	/	250	/	/	/	250
	LN-CA	/	/	/	310	/	/	/	310	/	/	/	310	/	/	/	310
	LN-K	/	/	/	250	/	/	/	250	/	/	/	250	/	/	/	250
0252P	CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	LN-CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	LN-K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
0262P	CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	LN-CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	LN-K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
0302P	CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	LN-CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	LN-K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
0352P	CA	/	/	/	460	/	/	/	460	/	/	/	460	/	/	/	460
	K	/	/	/	380	/	/	/	380	/	/	/	380	/	/	/	380
	LN-CA	/	/	/	460	/	/	/	460	/	/	/	460	/	/	/	460
	LN-K	/	/	/	380	/	/	/	380	/	/	/	380	/	/	/	380
0402P	CA	/	/	/	470	/	/	/	470	/	/	/	470	/	/	/	470
	K	/	/	/	380	/	/	/	380	/	/	/	380	/	/	/	380
	LN-CA	/	/	/	470	/	/	/	470	/	/	/	470	/	/	/	470
	LN-K	/	/	/	380	/	/	/	380	/	/	/	380	/	/	/	380
0452P	CA	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
	K	/	/	/	390	/	/	/	390	/	/	/	390	/	/	/	390
	LN-CA	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
	LN-K	/	/	/	380	/	/	/	380	/	/	/	380	/	/	/	380
0502P	CA	/	/	/	560	/	/	/	560	/	/	/	560	/	/	/	560
	K	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
	LN-CA	/	/	/	560	/	/	/	560	/	/	/	560	/	/	/	560
	LN-K	/	/	/	470	/	/	/	470	/	/	/	470	/	/	/	470
0552P	K	/	/	/	470	/	/	/	470	/	/	/	470	/	/	/	470
	LN-K	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
0562P	CA	/	/	/	1000	/	/	/	1000	/	/	/	1000	/	/	/	1000
	LN-CA	/	/	/	1000	/	/	/	1000	/	/	/	1000	/	/	/	1000
0602P	K	/	/	/	570	/	/	/	570	/	/	/	570	/	/	/	570

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)
HYDRONIC KIT 1 PUMP 2 POLES LH + TANK	HYDRONIC KIT 1 PUMP 2 POLES LH + TANK
HYDRONIC KIT 1 PUMP 2 POLES HH + TANK	HYDRONIC KIT 1 PUMP 2 POLES HH + TANK
HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK	HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK
HYDRONIC KIT 2 PUMPS 2 POLES HH + TANK	HYDRONIC KIT 2 PUMPS 2 POLES HH + TANK
-	Not available

Hydronic kit positioning

	Version	HYDRONIC KIT 1 PUMP 2 POLES LH + TANK (3152)				HYDRONIC KIT 1 PUMP 2 POLES HH + TANK (3153)				HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK (3155)				HYDRONIC KIT 2 PUMPS 2 POLES HH + TANK (3156)			
		extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]
0602P	LN-K	/	/	/	570	/	/	/	570	/	/	/	570	/	/	/	570
0612P	CA	/	/	/	1010	/	/	/	1010	/	/	/	1010	/	/	/	1010
	LN-CA	/	/	/	1010	/	/	/	1010	/	/	/	1010	/	/	/	1010
0702P	K	/	/	/	570	/	/	/	570	/	/	/	570	/	/	/	570
	LN-K	/	/	/	570	/	/	/	570	/	/	/	570	/	/	/	570
0712P	CA	/	/	/	1530	/	/	/	1530	/	/	/	1530	/	/	/	1530
	LN-CA	/	/	/	1530	/	/	/	1530	/	/	/	1530	/	/	/	1530
0802P	K	/	/	/	570	/	/	/	570	/	/	/	570	/	/	/	570
	LN-K	/	/	/	560	/	/	/	560	/	/	/	560	/	/	/	560
0812P	CA	/	/	/	1530	/	/	/	1530	/	/	/	1530	/	/	/	1530
	LN-CA	/	/	/	1530	/	/	/	1530	/	/	/	1530	/	/	/	1530

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)
HYDRONIC KIT 1 PUMP 2 POLES LH + TANK	HYDRONIC KIT 1 PUMP 2 POLES LH + TANK
HYDRONIC KIT 1 PUMP 2 POLES HH + TANK	HYDRONIC KIT 1 PUMP 2 POLES HH + TANK
HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK	HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK
HYDRONIC KIT 2 PUMPS 2 POLES HH + TANK	HYDRONIC KIT 2 PUMPS 2 POLES HH + TANK
-	Not available

Hydronic kit positioning

	Version	HYDRONIC KIT 1 PUMP 2 POLES LH (3164)				HYDRONIC KIT 1 PUMP 2P HH (3165)				HYDRONIC KIT 2 PUMPS 2 POLES LH (3167)				HYDRONIC KIT 2 PUMPS 2P HH (3168)			
		extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]
0202P	CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-K	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
0252P	CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
0262P	CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
0302P	CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
0352P	CA	/	/	/	180	/	/	/	180	/	/	/	180	/	/	/	180
	K	/	/	/	180	/	/	/	180	/	/	/	180	/	/	/	180
	LN-CA	/	/	/	180	/	/	/	180	/	/	/	180	/	/	/	180
	LN-K	/	/	/	180	/	/	/	180	/	/	/	180	/	/	/	180
0402P	CA	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	K	/	/	/	180	/	/	/	180	/	/	/	180	/	/	/	180
	LN-CA	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	LN-K	/	/	/	180	/	/	/	180	/	/	/	180	/	/	/	180
0452P	CA	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
	K	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	LN-CA	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	LN-K	/	/	/	180	/	/	/	180	/	/	/	180	/	/	/	180
0502P	CA	/	/	/	210	/	/	/	210	/	/	/	210	/	/	/	210
	K	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
	LN-CA	/	/	/	210	/	/	/	210	/	/	/	210	/	/	/	210
	LN-K	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
0552P	K	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	LN-K	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
0562P	CA	/	/	/	310	/	/	/	310	/	/	/	310	/	/	/	310
	LN-CA	/	/	/	310	/	/	/	310	/	/	/	310	/	/	/	310
0602P	K	/	/	/	220	/	/	/	220	/	/	/	220	/	/	/	220

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)
HYDRONIC KIT 1 PUMP 2 POLES LH	HYDRONIC KIT 1 PUMP 2 POLES LH
HYDRONIC KIT 1 PUMP 2P HH	HYDRONIC KIT 1 PUMP 2P HH
HYDRONIC KIT 2 PUMPS 2 POLES LH	HYDRONIC KIT 2 PUMPS 2 POLES LH
HYDRONIC KIT 2 PUMPS 2P HH	HYDRONIC KIT 2 PUMPS 2P HH
-	Not available

Hydronic kit positioning

	Version	HYDRONIC KIT 1 PUMP 2 POLES LH (3164)				HYDRONIC KIT 1 PUMP 2P HH (3165)				HYDRONIC KIT 2 PUMPS 2 POLES LH (3167)				HYDRONIC KIT 2 PUMPS 2P HH (3168)			
		extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra WGT [kg]
0602P	LN-K	/	/	/	220	/	/	/	220	/	/	/	220	/	/	/	220
0612P	CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	LN-CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
0702P	K	/	/	/	220	/	/	/	220	/	/	/	220	/	/	/	220
	LN-K	/	/	/	220	/	/	/	220	/	/	/	220	/	/	/	220
0712P	CA	/	/	/	400	/	/	/	400	/	/	/	400	/	/	/	400
	LN-CA	/	/	/	400	/	/	/	400	/	/	/	400	/	/	/	400
0802P	K	/	/	/	220	/	/	/	220	/	/	/	220	/	/	/	220
	LN-K	/	/	/	220	/	/	/	220	/	/	/	220	/	/	/	220
0812P	CA	/	/	/	400	/	/	/	400	/	/	/	400	/	/	/	400
	LN-CA	/	/	/	400	/	/	/	400	/	/	/	400	/	/	/	400

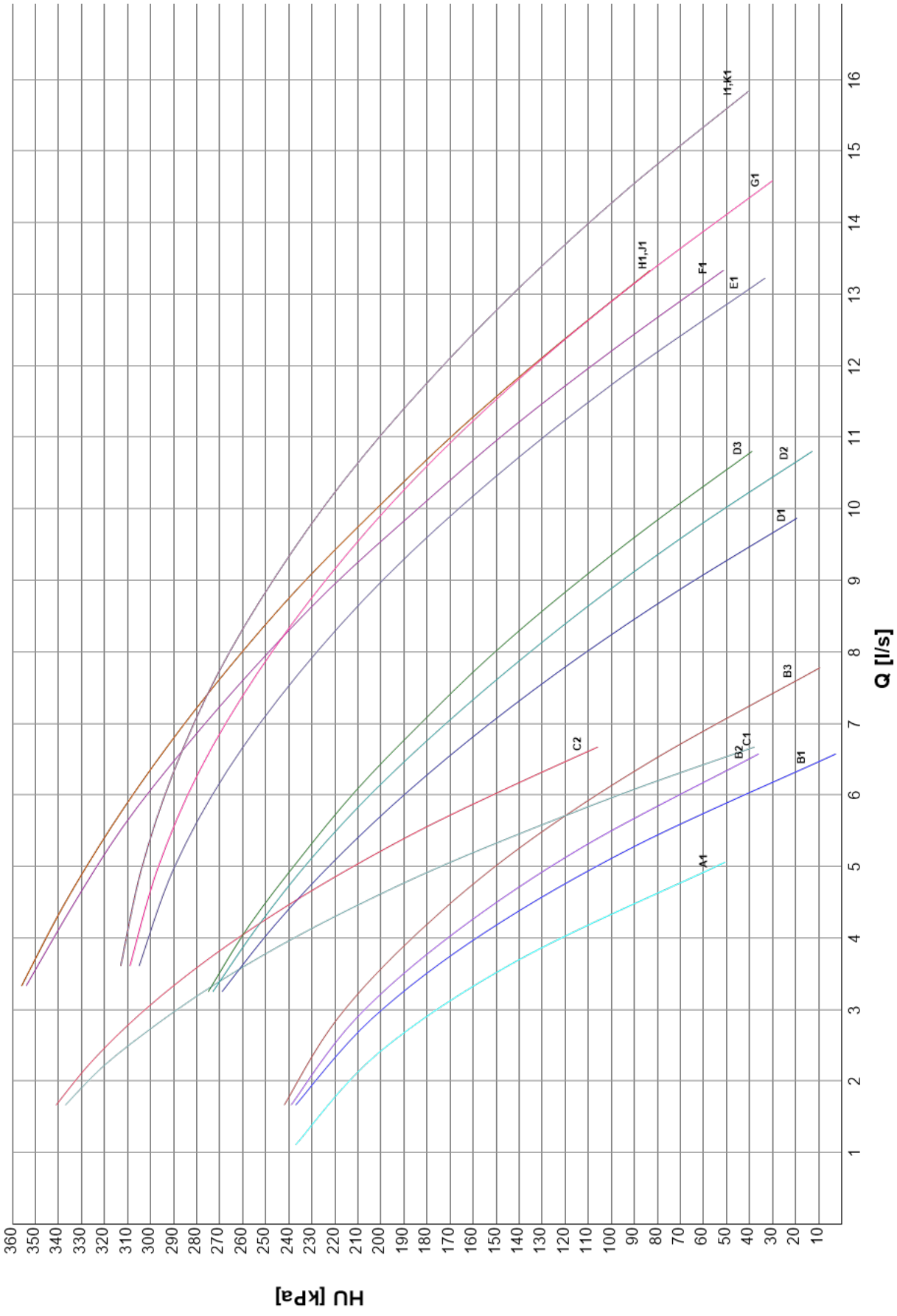
extra L	Unit's extra length
extra W	Unit's extra operating width (NOT to be considered for transport)
extra H	Unit's extra height
extra WGT	Unit's extra weight (pumps and piping)
HYDRONIC KIT 1 PUMP 2 POLES LH	HYDRONIC KIT 1 PUMP 2 POLES LH
HYDRONIC KIT 1 PUMP 2P HH	HYDRONIC KIT 1 PUMP 2P HH
HYDRONIC KIT 2 PUMPS 2 POLES LH	HYDRONIC KIT 2 PUMPS 2 POLES LH
HYDRONIC KIT 2 PUMPS 2P HH	HYDRONIC KIT 2 PUMPS 2P HH
-	Not available

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

SIZE		CH		HP		PUMP					CH	HP
		Pfgross	Qfgross	Ptgross	Qcdgross	Curve	Model	N.	F.L.A.	F.L.I.	HU	HU
		[kW] (1)	[l/s] (1)	[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]	[kPa]
0202P	CA	49,19	2,352	56,66	2,735	A1	DWC-V 500/2,2	2	5	2,200	203	187
	K	48,97	2,342	53,13	2,564						203	194
	LN-CA	45,64	2,183	56,66	2,735						209	187
	LN-K	44,91	2,147	53,13	2,564						210	194
0252P	CA	57,23	2,737	66,73	3,221	B1	DWC-V 500/3	2	6	3,000	209	192
	K	56,01	2,678	62,42	3,013						211	199
	LN-CA	52,16	2,494	66,73	3,221						216	192
	LN-K	51,31	2,453	62,42	3,013						217	199
0262P	CA	64,17	3,069	71,55	3,454	B2					205	192
	K	62,04	2,967	67,86	3,276						208	198
	LN-CA	57,44	2,747	71,55	3,454						214	192
	LN-K	57,96	2,772	67,86	3,276						214	198
0302P	CA	77,67	3,714	83,30	4,021	B3					196	186
	K	71,14	3,402	76,87	3,711						205	196
	LN-CA	76,20	3,644	83,30	4,021						198	186
	LN-K	67,09	3,208	76,87	3,711						210	196
0352P	CA	88,29	4,222	96,89	4,677	C1	3D 32-160/2.2	2	5	2,200	225	196
	K	81,03	3,875	90,53	4,370						245	216
	LN-CA	83,63	3,999	96,89	4,677						238	196
	LN-K	74,79	3,576	90,53	4,370						261	216
0402P	CA	98,07	4,690	106,0	5,115	C2					229	205
	K	96,16	4,599	103,9	5,017						233	211
	LN-CA	95,03	4,545	106,0	5,115						236	205
	LN-K	90,71	4,338	103,9	5,017						246	211
0452P	CA	111,6	5,336	117,3	5,662	D1	3D 40-160/3	2	6	3,000	213	202
	K	108,0	5,166	114,7	5,537						218	206
	LN-CA	105,5	5,046	117,3	5,662						222	202
	LN-K	99,46	4,756	114,7	5,537						230	206
0502P	CA	125,7	6,009	132,6	6,403	D2					204	192
	K	120,0	5,738	128,6	6,207						212	198
	LN-CA	119,9	5,732	132,6	6,403						212	192
	LN-K	109,4	5,230	128,6	6,207						227	198
0552P	K	132,7	6,347	144,1	6,954	D3					203	184
	LN-K	126,4	6,043	144,1	6,954						211	184
0562P	CA	146,4	7,003	154,9	7,479	E1	LNEE 50-160/55/2	2	11	5,500	252	241
	LN-CA	138,5	6,624	154,9	7,479						260	241
0602P	K	155,4	7,430	167,6	8,089	F1	3D 40-160/4	2	9	4,000	265	246
	LN-K	148,1	7,084	167,6	8,089						274	246
0612P	CA	162,9	7,792	173,4	8,370	G1	LNEE 50-160/55/2	2	11	5,500	252	239
	LN-CA	158,7	7,590	173,4	8,370						256	239
0702P	K	172,5	8,250	185,5	8,955	H1	3D 40-160/4	2	9	4,000	254	234
	LN-K	161,5	7,725	185,5	8,955						267	234
0712P	CA	189,8	9,075	200,9	9,696	I1	LNEE 50-160/55/2	2	11	5,500	245	232
	LN-CA	181,4	8,673	200,9	9,696						253	232
0802P	K	190,8	9,126	202,9	9,796	J1	3D 40-160/4	2	9	4,000	229	209
	LN-K	172,4	8,242	202,9	9,796						254	209
0812P	CA	210,7	10,08	222,9	10,76	K1	LNEE 50-160/55/2	2	11	5,500	223	207
	LN-CA	203,9	9,751	222,9	10,76						231	207

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

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

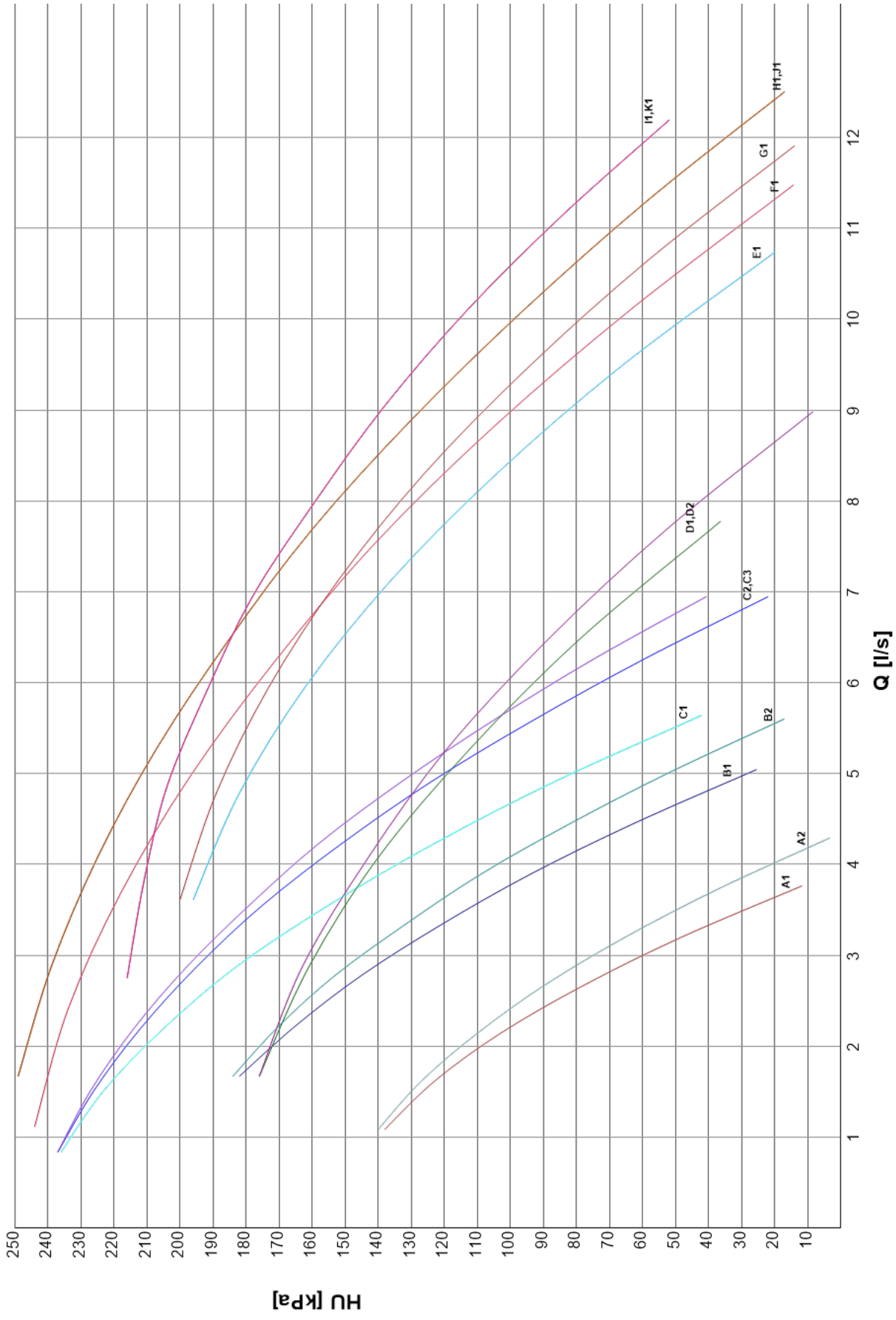


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES LH

SIZE		CH		HP		PUMP					CH	HP
		Pfgross	Qfgross	Ptgross	Qcdgross	Curve	Model	N.	F.L.A.	F.L.I.	HU	HU
		[kW] (1)	[l/s] (1)	[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]	[kPa]
0202P	CA	49,19	2,352	56,66	2,735	A1	DWC-V 300/1,1(R)	2	3	1,100	93,1	74,3
	K	48,97	2,342	53,13	2,564						93,6	83,0
	LN-CA	45,64	2,183	56,66	2,735						101	74,3
	LN-K	44,91	2,147	53,13	2,564						102	83,0
0252P	CA	57,23	2,737	66,73	3,221	A2					86,7	64,1
	K	56,01	2,678	62,42	3,013						89,2	74,2
	LN-CA	52,16	2,494	66,73	3,221						96,8	64,1
	LN-K	51,31	2,453	62,42	3,013						98,4	74,2
0262P	CA	64,17	3,069	71,55	3,454	B1	DWC-V 300/1,1	2	3	1,100	133	116
	K	62,04	2,967	67,86	3,276						137	124
	LN-CA	57,44	2,747	71,55	3,454						146	116
	LN-K	57,96	2,772	67,86	3,276						145	124
0302P	CA	77,67	3,714	83,30	4,021	B2					116	103
	K	71,14	3,402	76,87	3,711						129	117
	LN-CA	76,20	3,644	83,30	4,021						119	103
	LN-K	67,09	3,208	76,87	3,711						137	117
0352P	CA	88,29	4,222	96,89	4,677	C1	DWC-V 300/1,5	2	4	1,500	124	99,7
	K	81,03	3,875	90,53	4,370						141	116
	LN-CA	83,63	3,999	96,89	4,677						135	99,7
	LN-K	74,79	3,576	90,53	4,370						154	116
0402P	CA	98,07	4,690	106,0	5,115	C2					133	115
	K	96,16	4,599	103,9	5,017						136	119
	LN-CA	95,03	4,545	106,0	5,115						138	115
	LN-K	90,71	4,338	103,9	5,017						147	119
0452P	CA	111,6	5,336	117,3	5,662	C3					116	102
	K	108,0	5,166	114,7	5,537						123	107
	LN-CA	105,5	5,046	117,3	5,662						127	102
	LN-K	99,46	4,756	114,7	5,537						139	107
0502P	CA	125,7	6,009	132,6	6,403	D1	DWC-V 500/1,5	2	4	1,500	92,7	81,3
	K	120,0	5,738	128,6	6,207						100	87,1
	LN-CA	119,9	5,732	132,6	6,403						100	81,3
	LN-K	109,4	5,230	128,6	6,207						114	87,1
0552P	K	132,7	6,347	144,1	6,954	D2					92,1	75,1
	LN-K	126,4	6,043	144,1	6,954						100	75,1
0562P	CA	146,4	7,003	154,9	7,479	E1	LNEE 50-125/30/2	2	6	3,000	139	127
	LN-CA	138,5	6,624	154,9	7,479						148	127
0602P	K	155,4	7,430	167,6	8,089	F1	DWC-V 500/2,2	2	5	2,200	143	126
	LN-K	148,1	7,084	167,6	8,089						152	126
0612P	CA	162,9	7,792	173,4	8,370	G1	LNEE 50-125/30/2	2	6	3,000	138	124
	LN-CA	158,7	7,590	173,4	8,370						142	124
0702P	K	172,5	8,250	185,5	8,955	H1	DWC-V 500/3	2	6	3,000	146	128
	LN-K	161,5	7,725	185,5	8,955						159	128
0712P	CA	189,8	9,075	200,9	9,696	I1	LNEE 50-160/30/2	2	6	3,000	137	123
	LN-CA	181,4	8,673	200,9	9,696						146	123
0802P	K	190,8	9,126	202,9	9,796	J1	DWC-V 500/3	2	6	3,000	124	105
	LN-K	172,4	8,242	202,9	9,796						146	105
0812P	CA	210,7	10,08	222,9	10,76	K1	LNEE 50-160/30/2	2	6	3,000	113	94,9
	LN-CA	203,9	9,751	222,9	10,76						121	94,9

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

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

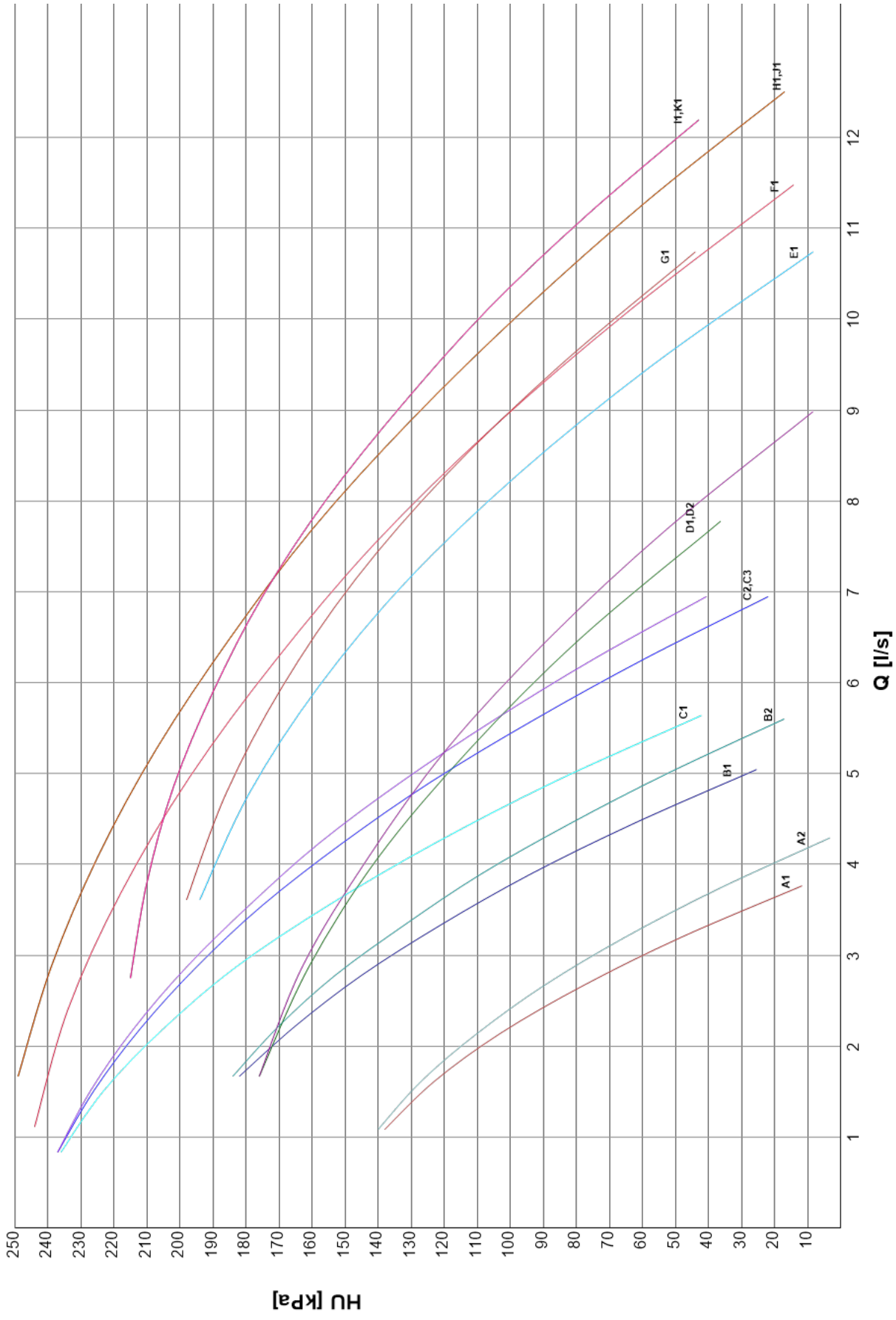


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES LH + TANK

SIZE		CH		HP		PUMP					CH	HP
		Pfgross	Qfgross	Ptgross	Qcdgross	Curve	Model	N.	F.L.A.	F.L.I.	HU	HU
		[kW] (1)	[l/s] (1)	[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]	[kPa]
0202P	CA	49,19	2,352	56,66	2,735	A1	DWC-V 300/1,1(R)	2	3	1,100	93,1	74,3
	K	48,97	2,342	53,13	2,564						93,6	83,0
	LN-CA	45,64	2,183	56,66	2,735						101	74,3
	LN-K	44,91	2,147	53,13	2,564						102	83,0
0252P	CA	57,23	2,737	66,73	3,221	A2					86,7	64,1
	K	56,01	2,678	62,42	3,013						89,2	74,2
	LN-CA	52,16	2,494	66,73	3,221						96,8	64,1
	LN-K	51,31	2,453	62,42	3,013						98,4	74,2
0262P	CA	64,17	3,069	71,55	3,454	B1	DWC-V 300/1,1	2	3	1,100	133	116
	K	62,04	2,967	67,86	3,276						137	124
	LN-CA	57,44	2,747	71,55	3,454						146	116
	LN-K	57,96	2,772	67,86	3,276						145	124
0302P	CA	77,67	3,714	83,30	4,021	B2					116	103
	K	71,14	3,402	76,87	3,711						129	117
	LN-CA	76,20	3,644	83,30	4,021						119	103
	LN-K	67,09	3,208	76,87	3,711						137	117
0352P	CA	88,29	4,222	96,89	4,677	C1	DWC-V 300/1,5	2	4	1,500	124	99,7
	K	81,03	3,875	90,53	4,370						141	116
	LN-CA	83,63	3,999	96,89	4,677						135	99,7
	LN-K	74,79	3,576	90,53	4,370						154	116
0402P	CA	98,07	4,690	106,0	5,115	C2					133	115
	K	96,16	4,599	103,9	5,017						136	119
	LN-CA	95,03	4,545	106,0	5,115						138	115
	LN-K	90,71	4,338	103,9	5,017						147	119
0452P	CA	111,6	5,336	117,3	5,662	C3					116	102
	K	108,0	5,166	114,7	5,537						123	107
	LN-CA	105,5	5,046	117,3	5,662						127	102
	LN-K	99,46	4,756	114,7	5,537						139	107
0502P	CA	125,7	6,009	132,6	6,403	D1	DWC-V 500/1,5	2	4	1,500	92,7	81,3
	K	120,0	5,738	128,6	6,207						100	87,1
	LN-CA	119,9	5,732	132,6	6,403						100	81,3
	LN-K	109,4	5,230	128,6	6,207						114	87,1
0552P	K	132,7	6,347	144,1	6,954	D2					92,1	75,1
	LN-K	126,4	6,043	144,1	6,954						100	75,1
0562P	CA	146,4	7,003	154,9	7,479	E1	LNEE 50-125/30/2	2	6	3,000	134	121
	LN-CA	138,5	6,624	154,9	7,479						143	121
0602P	K	155,4	7,430	167,6	8,089	F1	DWC-V 500/2,2	2	5	2,200	143	126
	LN-K	148,1	7,084	167,6	8,089						152	126
0612P	CA	162,9	7,792	173,4	8,370	G1	LNEE 50-125/30/2	2	6	3,000	131	117
	LN-CA	158,7	7,590	173,4	8,370						136	117
0702P	K	172,5	8,250	185,5	8,955	H1	DWC-V 500/3	2	6	3,000	146	128
	LN-K	161,5	7,725	185,5	8,955						159	128
0712P	CA	189,8	9,075	200,9	9,696	I1	LNEE 50-160/30/2	2	6	3,000	132	117
	LN-CA	181,4	8,673	200,9	9,696						141	117
0802P	K	190,8	9,126	202,9	9,796	J1	DWC-V 500/3	2	6	3,000	124	105
	LN-K	172,4	8,242	202,9	9,796						146	105
0812P	CA	210,7	10,08	222,9	10,76	K1	LNEE 50-160/30/2	2	6	3,000	107	88,0
	LN-CA	203,9	9,751	222,9	10,76						116	88,0

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

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

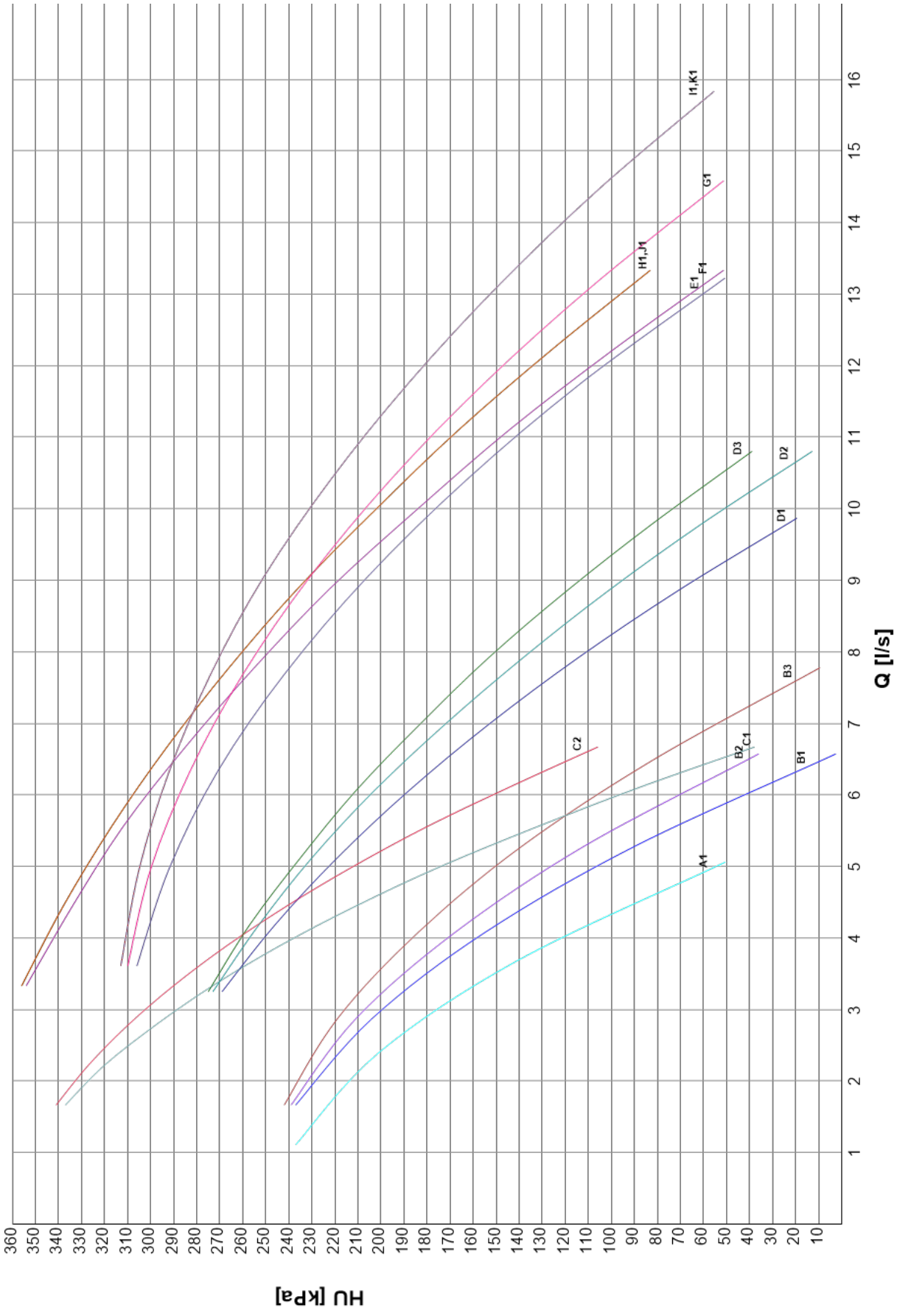


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2P HH

SIZE		CH		HP		PUMP					CH	HP
		Pfgross	Qfgross	Ptgross	Qcdgross	Curve	Model	N.	F.L.A.	F.L.I.	HU	HU
		[kW] (1)	[l/s] (1)	[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]	[kPa]
0202P	CA	49,19	2,352	56,66	2,735	A1	DWC-V 500/2,2	2	5	2,200	203	187
	K	48,97	2,342	53,13	2,564						203	194
	LN-CA	45,64	2,183	56,66	2,735						209	187
	LN-K	44,91	2,147	53,13	2,564						210	194
0252P	CA	57,23	2,737	66,73	3,221	B1	DWC-V 500/3	2	6	3,000	209	192
	K	56,01	2,678	62,42	3,013						211	199
	LN-CA	52,16	2,494	66,73	3,221						216	192
	LN-K	51,31	2,453	62,42	3,013						217	199
0262P	CA	64,17	3,069	71,55	3,454	B2					205	192
	K	62,04	2,967	67,86	3,276						208	198
	LN-CA	57,44	2,747	71,55	3,454						214	192
	LN-K	57,96	2,772	67,86	3,276						214	198
0302P	CA	77,67	3,714	83,30	4,021	B3					196	186
	K	71,14	3,402	76,87	3,711						205	196
	LN-CA	76,20	3,644	83,30	4,021						198	186
	LN-K	67,09	3,208	76,87	3,711						210	196
0352P	CA	88,29	4,222	96,89	4,677	C1	3D 32-160/2.2	2	5	2,200	225	196
	K	81,03	3,875	90,53	4,370						245	216
	LN-CA	83,63	3,999	96,89	4,677						238	196
	LN-K	74,79	3,576	90,53	4,370						261	216
0402P	CA	98,07	4,690	106,0	5,115	C2					229	205
	K	96,16	4,599	103,9	5,017						233	211
	LN-CA	95,03	4,545	106,0	5,115						236	205
	LN-K	90,71	4,338	103,9	5,017						246	211
0452P	CA	111,6	5,336	117,3	5,662	D1	3D 40-160/3	2	6	3,000	213	202
	K	108,0	5,166	114,7	5,537						218	206
	LN-CA	105,5	5,046	117,3	5,662						222	202
	LN-K	99,46	4,756	114,7	5,537						230	206
0502P	CA	125,7	6,009	132,6	6,403	D2					204	192
	K	120,0	5,738	128,6	6,207						212	198
	LN-CA	119,9	5,732	132,6	6,403						212	192
	LN-K	109,4	5,230	128,6	6,207						227	198
0552P	K	132,7	6,347	144,1	6,954	D3					203	184
	LN-K	126,4	6,043	144,1	6,954						211	184
0562P	CA	146,4	7,003	154,9	7,479	E1	LNEE 50-160/55/2	2	11	5,500	257	247
	LN-CA	138,5	6,624	154,9	7,479						265	247
0602P	K	155,4	7,430	167,6	8,089	F1	3D 40-160/4	2	9	4,000	265	246
	LN-K	148,1	7,084	167,6	8,089						274	246
0612P	CA	162,9	7,792	173,4	8,370	G1	LNEE 50-160/55/2	2	11	5,500	258	246
	LN-CA	158,7	7,590	173,4	8,370						262	246
0702P	K	172,5	8,250	185,5	8,955	H1	3D 40-160/4	2	9	4,000	254	234
	LN-K	161,5	7,725	185,5	8,955						267	234
0712P	CA	189,8	9,075	200,9	9,696	I1	LNEE 50-160/55/2	2	11	5,500	250	238
	LN-CA	181,4	8,673	200,9	9,696						258	238
0802P	K	190,8	9,126	202,9	9,796	J1	3D 40-160/4	2	9	4,000	229	209
	LN-K	172,4	8,242	202,9	9,796						254	209
0812P	CA	210,7	10,08	222,9	10,76	K1	LNEE 50-160/55/2	2	11	5,500	229	214
	LN-CA	203,9	9,751	222,9	10,76						236	214

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

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

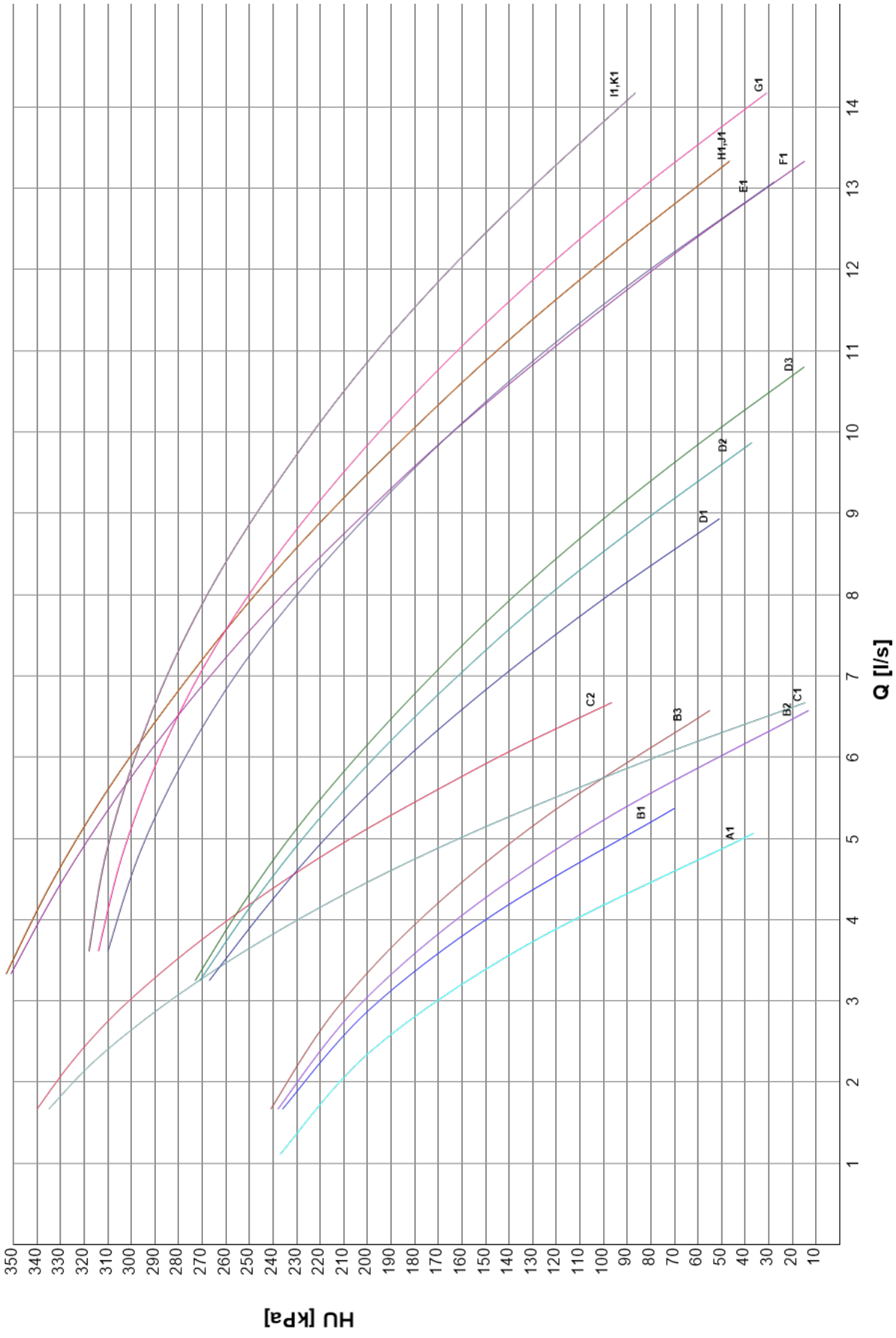


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES HH + TANK

SIZE		CH		HP		PUMP					CH	HP
		Pfgross	Qfgross	Ptgross	Qcdgross	Curve	Model	N.	F.L.A.	F.L.I.	HU	HU
		[kW] (1)	[l/s] (1)	[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]	[kPa]
0202P	CA	49,19	2,352	56,66	2,735	A1	DWC-V 500/2,2	2	5	2,200	199	183
	K	48,97	2,342	53,13	2,564						200	191
	LN-CA	45,64	2,183	56,66	2,735						206	183
	LN-K	44,91	2,147	53,13	2,564						207	191
0252P	CA	57,23	2,737	66,73	3,221	B1	DWC-V 500/3	2	6	3,000	205	186
	K	56,01	2,678	62,42	3,013						207	194
	LN-CA	52,16	2,494	66,73	3,221						213	186
	LN-K	51,31	2,453	62,42	3,013						214	194
0262P	CA	64,17	3,069	71,55	3,454	B2					200	185
	K	62,04	2,967	67,86	3,276						203	192
	LN-CA	57,44	2,747	71,55	3,454						210	185
	LN-K	57,96	2,772	67,86	3,276						209	192
0302P	CA	77,67	3,714	83,30	4,021	B3					188	177
	K	71,14	3,402	76,87	3,711						199	188
	LN-CA	76,20	3,644	83,30	4,021						191	177
	LN-K	67,09	3,208	76,87	3,711						205	188
0352P	CA	88,29	4,222	96,89	4,677	C1	3D 32-160/2.2	2	5	2,200	215	184
	K	81,03	3,875	90,53	4,370						237	206
	LN-CA	83,63	3,999	96,89	4,677						229	184
	LN-K	74,79	3,576	90,53	4,370						254	206
0402P	CA	98,07	4,690	106,0	5,115	C2					224	200
	K	96,16	4,599	103,9	5,017						229	206
	LN-CA	95,03	4,545	106,0	5,115						232	200
	LN-K	90,71	4,338	103,9	5,017						242	206
0452P	CA	111,6	5,336	117,3	5,662	D1	3D 40-160/3	2	6	3,000	207	195
	K	108,0	5,166	114,7	5,537						212	200
	LN-CA	105,5	5,046	117,3	5,662						216	195
	LN-K	99,46	4,756	114,7	5,537						226	200
0502P	CA	125,7	6,009	132,6	6,403	D2					197	183
	K	120,0	5,738	128,6	6,207						205	190
	LN-CA	119,9	5,732	132,6	6,403						206	183
	LN-K	109,4	5,230	128,6	6,207						221	190
0552P	K	132,7	6,347	144,1	6,954	D3					194	175
	LN-K	126,4	6,043	144,1	6,954						204	175
0562P	CA	146,4	7,003	154,9	7,479	E1	LNTE 50-160/55/2	2	11	5,500	256	244
	LN-CA	138,5	6,624	154,9	7,479						265	244
0602P	K	155,4	7,430	167,6	8,089	F1	3D 40-160/4	2	9	4,000	254	233
	LN-K	148,1	7,084	167,6	8,089						264	233
0612P	CA	162,9	7,792	173,4	8,370	G1	LNTE 50-160/55/2	2	11	5,500	255	241
	LN-CA	158,7	7,590	173,4	8,370						259	241
0702P	K	172,5	8,250	185,5	8,955	H1	3D 40-160/4	2	9	4,000	240	217
	LN-K	161,5	7,725	185,5	8,955						255	217
0712P	CA	189,8	9,075	200,9	9,696	I1	LNTE 50-160/55/2	2	11	5,500	245	231
	LN-CA	181,4	8,673	200,9	9,696						254	231
0802P	K	190,8	9,126	202,9	9,796	J1	3D 40-160/4	2	9	4,000	212	189
	LN-K	172,4	8,242	202,9	9,796						240	189
0812P	CA	210,7	10,08	222,9	10,76	K1	LNTE 50-160/55/2	2	11	5,500	221	203
	LN-CA	203,9	9,751	222,9	10,76						229	203

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

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

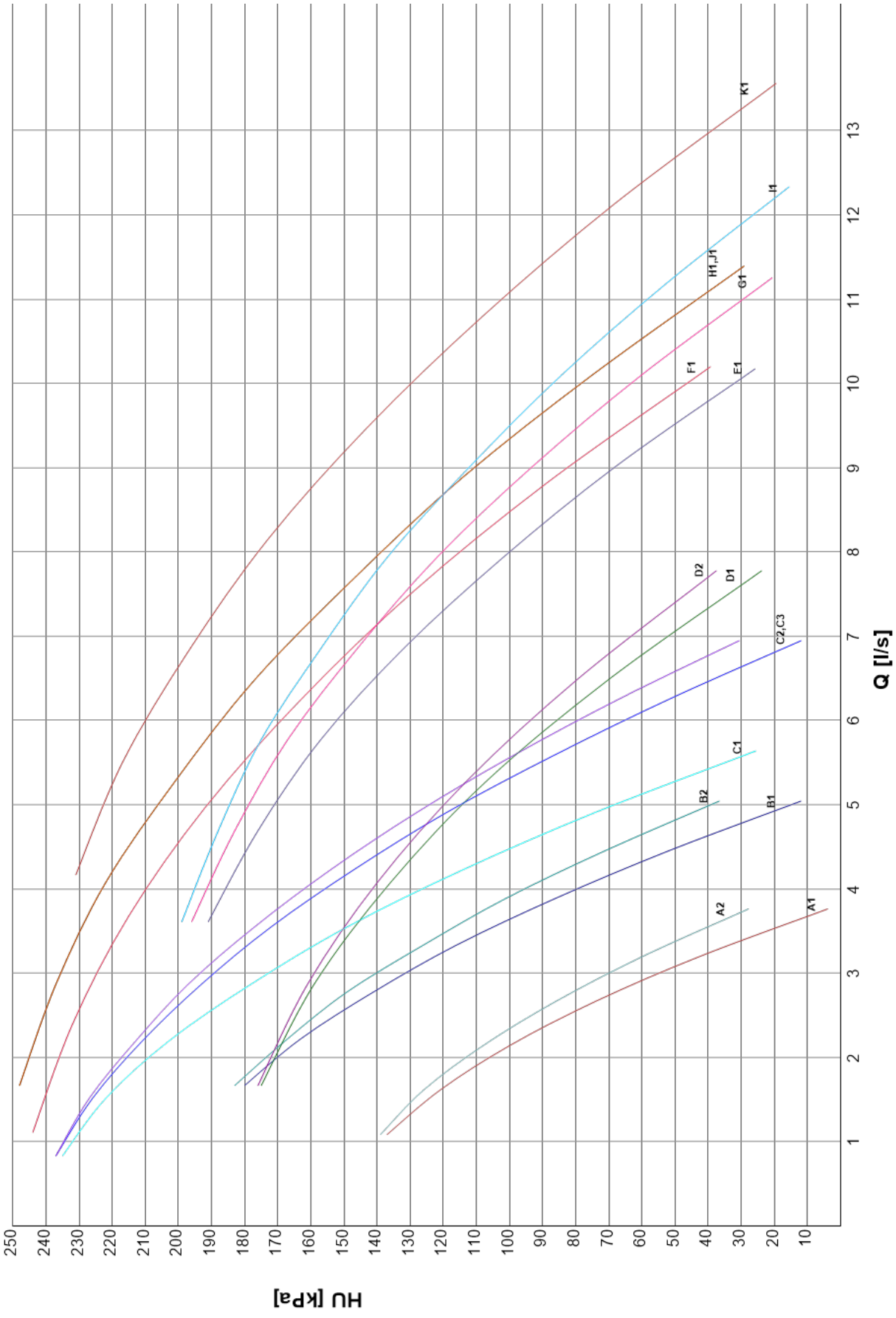


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES LH

SIZE		CH		HP		PUMP					CH	HP
		Pfgross	Qfgross	Ptgross	Qcdgross	Curve	Model	N.	F.L.A.	F.L.I.	HU	HU
		[kW] (1)	[l/s] (1)	[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]	[kPa]
0202P	CA	49,19	2,352	56,66	2,735	A1	DWC-V 300/1,1(R)	2	3	1,100	90,1	70,1
	K	48,97	2,342	53,13	2,564						90,6	79,3
	LN-CA	45,64	2,183	56,66	2,735						98,0	70,1
	LN-K	44,91	2,147	53,13	2,564						99,6	79,3
0252P	CA	57,23	2,737	66,73	3,221	A2					82,7	58,6
	K	56,01	2,678	62,42	3,013						85,4	69,4
	LN-CA	52,16	2,494	66,73	3,221						93,5	58,6
	LN-K	51,31	2,453	62,42	3,013						95,2	69,4
0262P	CA	64,17	3,069	71,55	3,454	B1	DWC-V 300/1,1	2	3	1,100	128	109
	K	62,04	2,967	67,86	3,276						133	118
	LN-CA	57,44	2,747	71,55	3,454						142	109
	LN-K	57,96	2,772	67,86	3,276						141	118
0302P	CA	77,67	3,714	83,30	4,021	B2					109	94,1
	K	71,14	3,402	76,87	3,711						123	109
	LN-CA	76,20	3,644	83,30	4,021						112	94,1
	LN-K	67,09	3,208	76,87	3,711						132	109
0352P	CA	88,29	4,222	96,89	4,677	C1	DWC-V 300/1,5	2	4	1,500	114	88,3
	K	81,03	3,875	90,53	4,370						133	106
	LN-CA	83,63	3,999	96,89	4,677						126	88,3
	LN-K	74,79	3,576	90,53	4,370						147	106
0402P	CA	98,07	4,690	106,0	5,115	C2					128	109
	K	96,16	4,599	103,9	5,017						132	114
	LN-CA	95,03	4,545	106,0	5,115						134	109
	LN-K	90,71	4,338	103,9	5,017						143	114
0452P	CA	111,6	5,336	117,3	5,662	C3					110	95,2
	K	108,0	5,166	114,7	5,537						117	101
	LN-CA	105,5	5,046	117,3	5,662						122	95,2
	LN-K	99,46	4,756	114,7	5,537						134	101
0502P	CA	125,7	6,009	132,6	6,403	D1	DWC-V 500/1,5	2	4	1,500	85,2	72,7
	K	120,0	5,738	128,6	6,207						93,4	79,1
	LN-CA	119,9	5,732	132,6	6,403						93,6	72,7
	LN-K	109,4	5,230	128,6	6,207						108	79,1
0552P	K	132,7	6,347	144,1	6,954	D2					83,7	65,0
	LN-K	126,4	6,043	144,1	6,954						92,5	65,0
0562P	CA	146,4	7,003	154,9	7,479	E1	LNTE 50-125/30/2	2	6	3,000	128	115
	LN-CA	138,5	6,624	154,9	7,479						137	115
0602P	K	155,4	7,430	167,6	8,089	F1	DWC-V 500/2,2	2	5	2,200	132	112
	LN-K	148,1	7,084	167,6	8,089						142	112
0612P	CA	162,9	7,792	173,4	8,370	G1	LNTE 50-125/30/2	2	6	3,000	125	111
	LN-CA	158,7	7,590	173,4	8,370						130	111
0702P	K	172,5	8,250	185,5	8,955	H1	DWC-V 500/3	2	6	3,000	132	112
	LN-K	161,5	7,725	185,5	8,955						146	112
0712P	CA	189,8	9,075	200,9	9,696	I1	LNTE 50-125/30/2	2	6	3,000	111	95,2
	LN-CA	181,4	8,673	200,9	9,696						120	95,2
0802P	K	190,8	9,126	202,9	9,796	J1	DWC-V 500/3	2	6	3,000	106	85,2
	LN-K	172,4	8,242	202,9	9,796						132	85,2
0812P	CA	210,7	10,08	222,9	10,76	K1	LNTE 50-125/40/2	2	8	4,000	128	110
	LN-CA	203,9	9,751	222,9	10,76						137	110

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

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

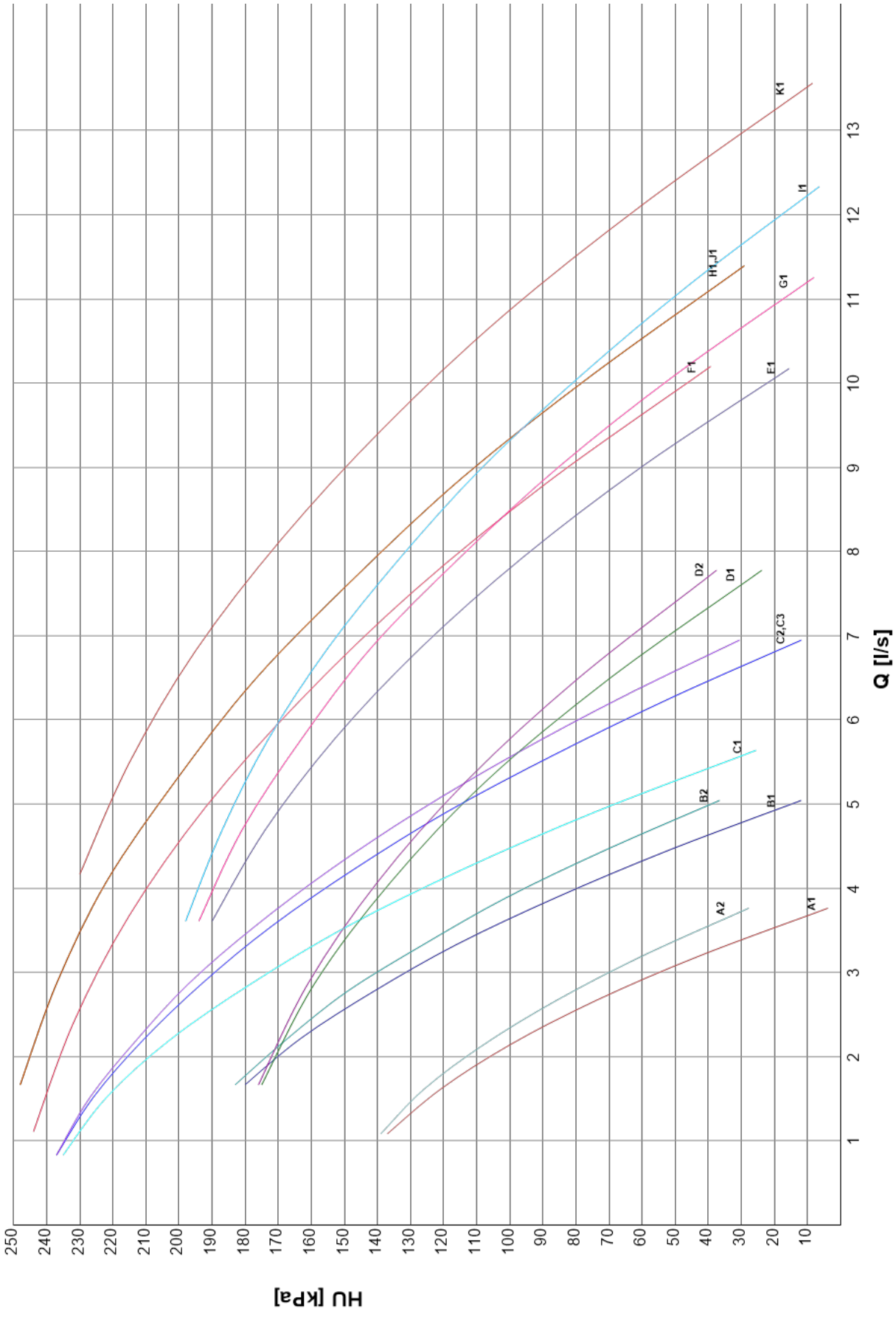


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK

SIZE		CH		HP		PUMP					CH	HP
		Pfgross	Qfgross	Ptgross	Qcdgross	Curve	Model	N.	F.L.A.	F.L.I.	HU	HU
		[kW] (1)	[l/s] (1)	[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]	[kPa]
0202P	CA	49,19	2,352	56,66	2,735	A1	DWC-V 300/1,1(R)	2	3	1,100	90,1	70,1
	K	48,97	2,342	53,13	2,564						90,6	79,3
	LN-CA	45,64	2,183	56,66	2,735						98,0	70,1
	LN-K	44,91	2,147	53,13	2,564						99,6	79,3
0252P	CA	57,23	2,737	66,73	3,221	A2					82,7	58,6
	K	56,01	2,678	62,42	3,013						85,4	69,4
	LN-CA	52,16	2,494	66,73	3,221						93,5	58,6
	LN-K	51,31	2,453	62,42	3,013						95,2	69,4
0262P	CA	64,17	3,069	71,55	3,454	B1	DWC-V 300/1,1	2	3	1,100	128	109
	K	62,04	2,967	67,86	3,276						133	118
	LN-CA	57,44	2,747	71,55	3,454						142	109
	LN-K	57,96	2,772	67,86	3,276						141	118
0302P	CA	77,67	3,714	83,30	4,021	B2					109	94,1
	K	71,14	3,402	76,87	3,711						123	109
	LN-CA	76,20	3,644	83,30	4,021						112	94,1
	LN-K	67,09	3,208	76,87	3,711						132	109
0352P	CA	88,29	4,222	96,89	4,677	C1	DWC-V 300/1,5	2	4	1,500	114	88,3
	K	81,03	3,875	90,53	4,370						133	106
	LN-CA	83,63	3,999	96,89	4,677						126	88,3
	LN-K	74,79	3,576	90,53	4,370						147	106
0402P	CA	98,07	4,690	106,0	5,115	C2					128	109
	K	96,16	4,599	103,9	5,017						132	114
	LN-CA	95,03	4,545	106,0	5,115						134	109
	LN-K	90,71	4,338	103,9	5,017						143	114
0452P	CA	111,6	5,336	117,3	5,662	C3					110	95,2
	K	108,0	5,166	114,7	5,537						117	101
	LN-CA	105,5	5,046	117,3	5,662						122	95,2
	LN-K	99,46	4,756	114,7	5,537						134	101
0502P	CA	125,7	6,009	132,6	6,403	D1	DWC-V 500/1,5	2	4	1,500	85,2	72,7
	K	120,0	5,738	128,6	6,207						93,4	79,1
	LN-CA	119,9	5,732	132,6	6,403						93,6	72,7
	LN-K	109,4	5,230	128,6	6,207						108	79,1
0552P	K	132,7	6,347	144,1	6,954	D2					83,7	65,0
	LN-K	126,4	6,043	144,1	6,954						92,5	65,0
0562P	CA	146,4	7,003	154,9	7,479	E1	LNTE 50-125/30/2	2	6	3,000	123	110
	LN-CA	138,5	6,624	154,9	7,479						133	110
0602P	K	155,4	7,430	167,6	8,089	F1	DWC-V 500/2,2	2	5	2,200	132	112
	LN-K	148,1	7,084	167,6	8,089						142	112
0612P	CA	162,9	7,792	173,4	8,370	G1	LNTE 50-125/30/2	2	6	3,000	119	104
	LN-CA	158,7	7,590	173,4	8,370						124	104
0702P	K	172,5	8,250	185,5	8,955	H1	DWC-V 500/3	2	6	3,000	132	112
	LN-K	161,5	7,725	185,5	8,955						146	112
0712P	CA	189,8	9,075	200,9	9,696	I1	LNTE 50-125/30/2	2	6	3,000	106	89,6
	LN-CA	181,4	8,673	200,9	9,696						116	89,6
0802P	K	190,8	9,126	202,9	9,796	J1	DWC-V 500/3	2	6	3,000	106	85,2
	LN-K	172,4	8,242	202,9	9,796						132	85,2
0812P	CA	210,7	10,08	222,9	10,76	K1	LNTE 50-125/40/2	2	8	4,000	122	103
	LN-CA	203,9	9,751	222,9	10,76						131	103

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

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

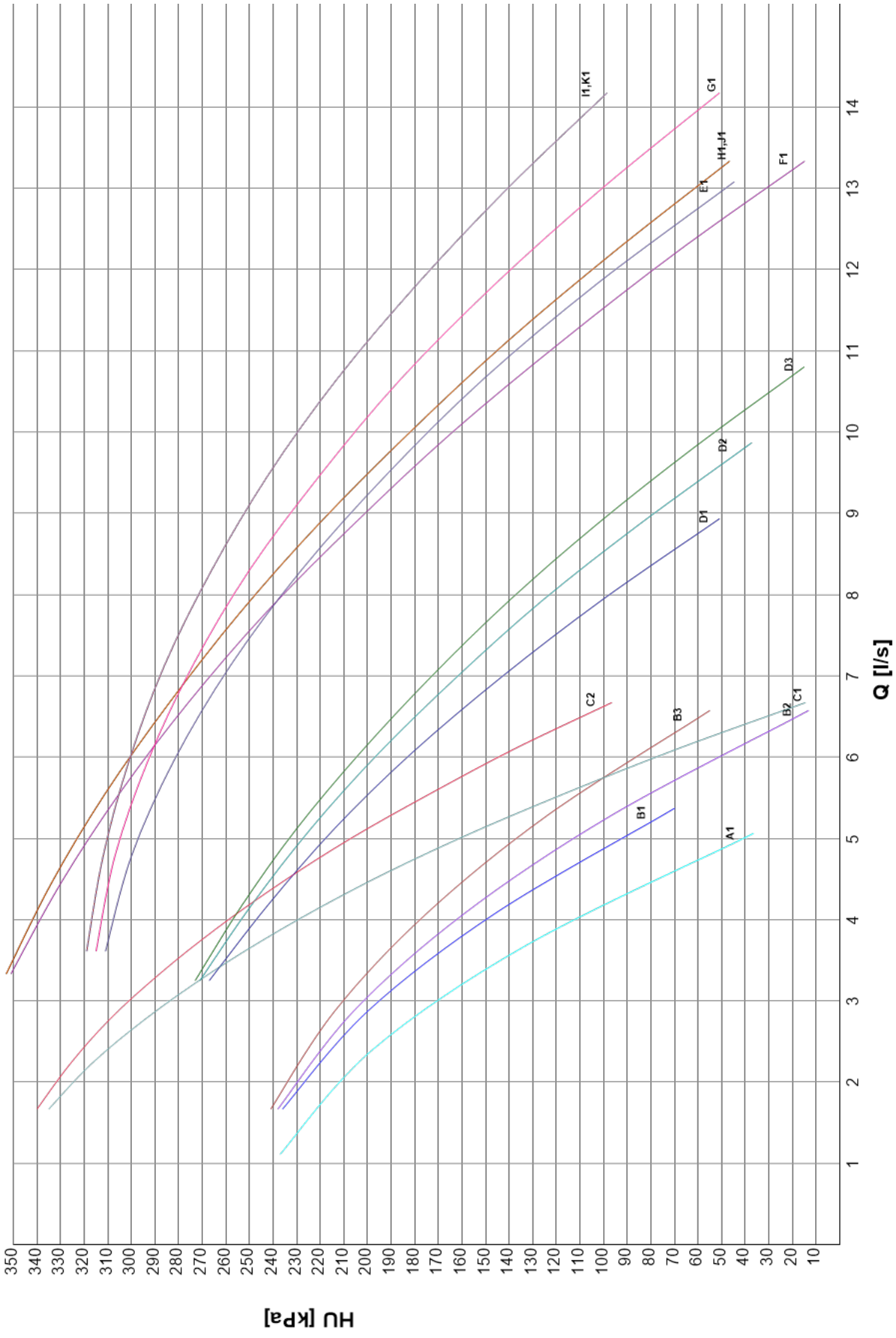


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2P HH

SIZE		CH		HP		PUMP					CH	HP
		Pfgross	Qfgross	Ptgross	Qcdgross	Curve	Model	N.	F.L.A.	F.L.I.	HU	HU
		[kW] (1)	[l/s] (1)	[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]	[kPa]
0202P	CA	49,19	2,352	56,66	2,735	A1	DWC-V 500/2,2	2	5	2,200	199	183
	K	48,97	2,342	53,13	2,564						200	191
	LN-CA	45,64	2,183	56,66	2,735						206	183
	LN-K	44,91	2,147	53,13	2,564						207	191
0252P	CA	57,23	2,737	66,73	3,221	B1	DWC-V 500/3	2	6	3,000	205	186
	K	56,01	2,678	62,42	3,013						207	194
	LN-CA	52,16	2,494	66,73	3,221						213	186
	LN-K	51,31	2,453	62,42	3,013						214	194
0262P	CA	64,17	3,069	71,55	3,454	B2					200	185
	K	62,04	2,967	67,86	3,276						203	192
	LN-CA	57,44	2,747	71,55	3,454						210	185
	LN-K	57,96	2,772	67,86	3,276						209	192
0302P	CA	77,67	3,714	83,30	4,021	B3					188	177
	K	71,14	3,402	76,87	3,711						199	188
	LN-CA	76,20	3,644	83,30	4,021						191	177
	LN-K	67,09	3,208	76,87	3,711						205	188
0352P	CA	88,29	4,222	96,89	4,677	C1	3D 32-160/2.2	2	5	2,200	215	184
	K	81,03	3,875	90,53	4,370						237	206
	LN-CA	83,63	3,999	96,89	4,677						229	184
	LN-K	74,79	3,576	90,53	4,370						254	206
0402P	CA	98,07	4,690	106,0	5,115	C2					224	200
	K	96,16	4,599	103,9	5,017						229	206
	LN-CA	95,03	4,545	106,0	5,115						232	200
	LN-K	90,71	4,338	103,9	5,017						242	206
0452P	CA	111,6	5,336	117,3	5,662	D1	3D 40-160/3	2	6	3,000	207	195
	K	108,0	5,166	114,7	5,537						212	200
	LN-CA	105,5	5,046	117,3	5,662						216	195
	LN-K	99,46	4,756	114,7	5,537						226	200
0502P	CA	125,7	6,009	132,6	6,403	D2					197	183
	K	120,0	5,738	128,6	6,207						205	190
	LN-CA	119,9	5,732	132,6	6,403						206	183
	LN-K	109,4	5,230	128,6	6,207						221	190
0552P	K	132,7	6,347	144,1	6,954	D3					194	175
	LN-K	126,4	6,043	144,1	6,954						204	175
0562P	CA	146,4	7,003	154,9	7,479	E1	LNTE 50-160/55/2	2	11	5,500	261	250
	LN-CA	138,5	6,624	154,9	7,479						269	250
0602P	K	155,4	7,430	167,6	8,089	F1	3D 40-160/4	2	9	4,000	254	233
	LN-K	148,1	7,084	167,6	8,089						264	233
0612P	CA	162,9	7,792	173,4	8,370	G1	LNTE 50-160/55/2	2	11	5,500	261	248
	LN-CA	158,7	7,590	173,4	8,370						265	248
0702P	K	172,5	8,250	185,5	8,955	H1	3D 40-160/4	2	9	4,000	240	217
	LN-K	161,5	7,725	185,5	8,955						255	217
0712P	CA	189,8	9,075	200,9	9,696	I1	LNTE 50-160/55/2	2	11	5,500	250	236
	LN-CA	181,4	8,673	200,9	9,696						259	236
0802P	K	190,8	9,126	202,9	9,796	J1	3D 40-160/4	2	9	4,000	212	189
	LN-K	172,4	8,242	202,9	9,796						240	189
0812P	CA	210,7	10,08	222,9	10,76	K1	LNTE 50-160/55/2	2	11	5,500	227	210
	LN-CA	203,9	9,751	222,9	10,76						235	210

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

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



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