NX 0152P - 0812P

39,2-227 kW

Chiller, air source for outdoor installation

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

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

CLIMAVENETA
SUSTAINABLE COMFORT
A Group Company of MITSUBISHI ELECTRIC

CERTIFICATIONS

Product certifications

Certificate Number MCS HP0005
Heat Pumps

Voluntary product certifications

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

System certifications

Certificate Number MCS HP0005
Heat Pumps

Climaveneta S.p.A.:

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

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

LEGEND

Functions

Cooling

Refrigerant

R-410A

Compressors

Scroll compressor

Fan

Axial fan

Exchangers

Plates

Other features

Energy Class A

Eurovent

1.1 PRODUCT PRESENTATION

2.1 GREEN CERTIFICATION RELEVANT

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

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

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

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

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

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

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

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

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

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

K VERSIONS: COMPACT LIQUID CHILLERS

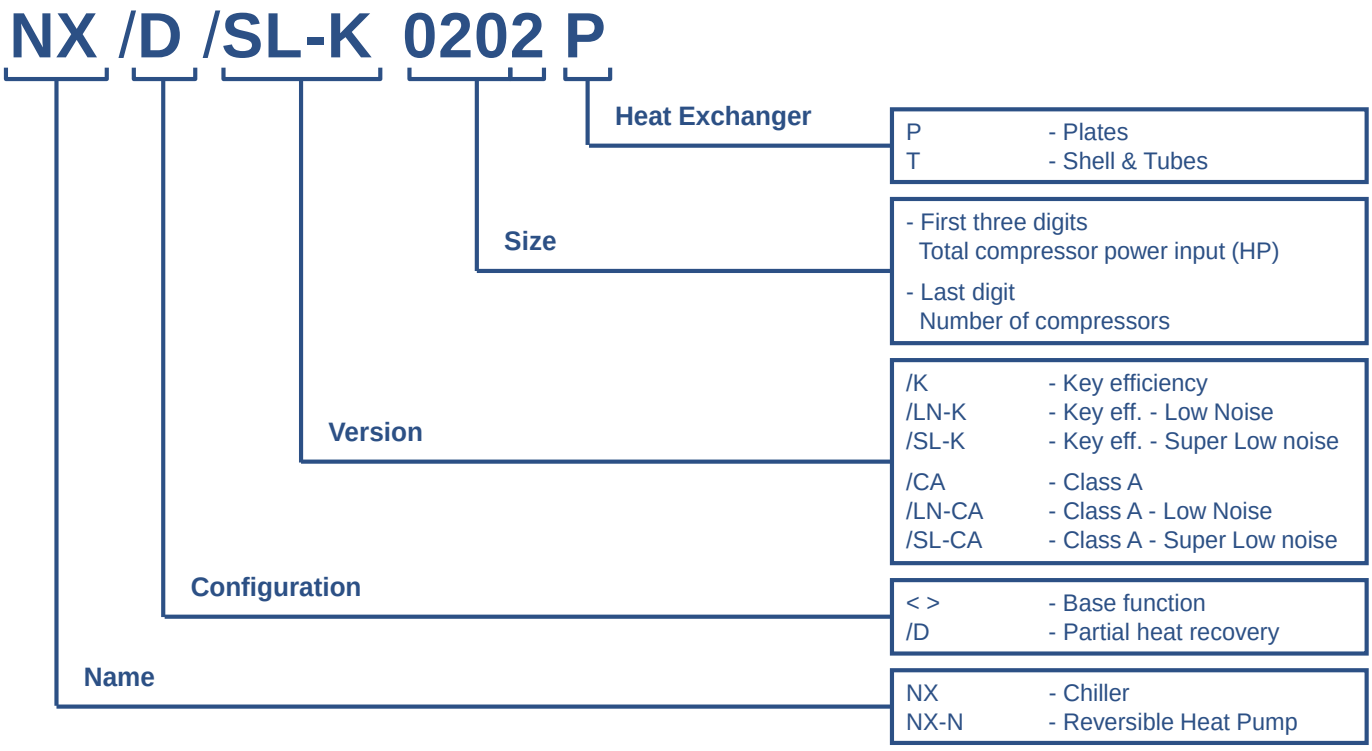
The compact versions of NX Climaveneta liquid chillers achieve excellent levels of energy efficiency while keeping the footprint to a minimum. They are the best solution in all the installations with limited clearance available or when replacing or upgrading existing systems.
The K version is available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

CA VERSIONS: HIGH EFFICIENCY LIQUID CHILLERS

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

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

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



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STRUCTURE UNIT

The NX family is developed on two different structures:

LONGITUDINAL V-SHAPED COIL STRUCTURE		HORIZONTAL V-SHAPED COIL STRUCTURE
		

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

Structure	Size													
Longitudinal V	152	182	202	252	262	302	352	402	452	502	552	602	702	802
Horizontal V								412	462	512	562	612	712	812
Version	Net cooling capacity (kW) - EN14511 - (1)													
K	39	44	52	59	65	77	88	101	114	127	144	165	189	206
LN-K	39	44	51	59	65	74	89	99	112	125	139	162	179	193
SL-K	39	44	52	59	66	77	88	99	113	124	140	152	175	
CA	41	47	55	62	69	85	96	107	121	137	159	178	200	226
LN-CA	41	47	55	63	70	82	94	107	120	133	153	172	197	220
SL-CA	42	47	55	62	69	82	94	105	118	132	151	171	194	216

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

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

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

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

2.5 Plant side heat exchanger
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.

2.6 Source side heat exchanger
Full-aluminum microchannel coil.
- Longitudinal V-shaped coil module: Coil structure made with an open-angle Longitudinal V-shaped layout.
- Horizontal V-shaped coil module: Coil structure made with an open-angle Horizontal V-shaped layout.

2.7 Fan section source side
Axial electric fans, protected to IP 54, with external rotor and plastic-coated aluminium blades. Housed in aerodynamic hoods complete with safety grille. Electric motor with built-in overload protection.
Fans diameter: 450 mm, 800 mm or 910 mm according to the unit's size and version.
Electric motor with 4 poles, 6 poles or 8 poles according to the unit's size and version.
- Continuous adjustment of the fan speed on units:
- versions K, sizes 0152P..0352P
  versions LN-K, sizes 0152P..0302P
  versions SL-K e LN-CA, sizes 0152P..0202P
  versions 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 0352P..0802P
  versions SL-K sizes 0252P..0802P
  versions LN-CA sizes 0252P..0812P
  versions SL-CA, sizes 0152P..0812P

2.8 Refrigerant circuit
Main components of the cooling circuit:
- single circuit in tandem compressors
- R410A refrigerant
- total ratio between refrigerant charge and cooling capacity* lower than 0,12 g/W (versions K, LN-K, SL-K, CA)
- total ratio between refrigerant charge and cooling capacity* lower than 0,15 g/W (versions LN-CA, SL-CA)
- plate heat exchanger
- drier filter with replaceable cartridge
- refrigerant line sight glass with humidity indicator
- mechanical thermostatic expansion valves (versions K, LN-K, SL-K)
- electronic expansion valves (versions CA, LN-CA, SL-CA)
- high and low pressure transducers
- high and low pressure safety valve
- safety switching device for limiting the pressure
- crankcase heater on each compressor
- * Cooling capacity according to Eurovent conditions: water(in/out) 12/7°C, outdoor temperature 35°C

2.9 Electrical and control panel
Electrical and control panel built to EN60204-1 and EC204-1 standards, complete with:
- general door lock isolator
- control circuit transformer
- IP44 XW protection
- power circuit with electric bus bar distribution system (sizes 702, 712, 802, 812)
- numbered cables
- electric circuit breakers for compressors and fans
- remote ON/OFF terminals
- terminals for cumulative alarm block
- relays for remote pump(s) activation for both circuits (only for units without hydronic pumps)
- antifreeze electric heater for heat exchanger
- electronic controller
- multi-language user keypad with LCD display
- Power supply 400V/3ph/50Hz+N+PE for units:
- versions K, sizes 0152P..0352P
  versions LN-K, sizes 0152P..0302P
  versions SL-K e LN-CA, sizes 0152P..0202P
  versions CA, sizes 0152P..0262P
- Power supply 400V/3ph/50Hz+PE for units:
- versions K sizes 0402P..0812P
  versions LN-K sizes 0352P..0812P
  versions SL-K e LN-CA sizes 0252P..0812P
  versions SL-CA

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

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

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

2.12 Electronic control W3000 / W3000TE
The controller is available in two different versions according to the unit's model:
W3000 : electronic controller with Compact keyboard. It features an easy-to-use interface and a complete LCD display that allows consulting and intervening on the unit by means of a multi-lenguage menu, available in three languages: Italian, English and a further language among French, Spanish, German, Russian and Swedish. The alarm history display function can be enable by installing a real-time clock (optional).
W3000TE : electronic controller with Compact keyboard. It features an easy-to-use interface and a complete LCD display that allows consulting and intervening on the unit 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 organised into time bands to optimise unit performance by minimising power consumption during periods of inactivity. Up to 10 daily time bands can be associated with different operating set points.
Both the controllers offer advanced functions and algorithms.
The regulation is based on the patented "Quickmind" water temperature

regulation logic uses self-adapting control to maintain flow temperatures and optimise 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 the 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, LonWorks.
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. This allows to reduce the number and duration of the defrost cycles, with a benefit for the overall energy efficiency.

2.13 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), a reduced fan speed and an oversized condensing section.
The fan speed is automatically increased in case of particularly tough environmental conditions.

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

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

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

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

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

/D, with Desuperheater
Unit for the production of chilled water, equipped with an auxiliary heat exchanger on the compressor discharge for superheat recovery. The recovered heat is approximately the 20% of the total cooling capacity and can be used for domestic hot water production or other secondary uses, such as the integration of an existing boiler.

PRODUCT PRESENTATION

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

	Taglie													
Version	**152**	**182**	**202**	**252**	**262**	**302**	**352**	**402 412**	**452 462**	**502 512**	**552 562**	**602 612**	**702 712**	**802 812**
K	**W3000**							**W3000TE**						
LN-K	**W3000**							**W3000TE**						
SL-K	**W3000**			**W3000TE**										
CA	**W3000TE**													
LN-CA	**W3000TE**													
SL-CA	**W3000TE**													

FAN STRUCTURE AND CONTROL

The following table shows the fan diameters (mm), the fan motor type and the standard ventilation control device of all the available NX sizes/version:

	Size													
Version	**152**	**182**	**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	Ø450 4 poles	Ø450 4 poles	Ø800 6 poles	Ø800 6 poles	Ø800 6 poles	Ø800 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	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
SL-K	Ø450 4 poles	Ø450 4 poles	Ø450 4 poles	Ø800 6 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	
CA	Ø450 4 poles	Ø450 4 poles	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	Ø800 6 poles	Ø910 6 poles	Ø800 6 poles	Ø800 6 poles	Ø800 6 poles	Ø800 8 poles	Ø800 8 poles	Ø800 8 poles	Ø800 8 poles
SL-CA	Ø800 6 poles	Ø800 6 poles	Ø800 6 poles	Ø910 6 poles	Ø910 6 poles	Ø910 6 poles	Ø800 6 poles	Ø800 8 poles	Ø800 8 poles	Ø800 8 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 bulletin section and to ElcaSTUDIO selection software.

3.1 ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
PF409 **WATER FILTER**			
C7420821 Filter 1" 1/2	Wire mesh water filter, to be installed on field. For the correct match between unit model and water filter please refer to the price list		ALL
C7420831 Filter 2"	Wire mesh water filter, to be installed on field. For the correct match between unit model and water filter please refer to the price list		ALL
C7420841 Filter 2" 1/2	Wire mesh water filter, to be installed on field. For the correct match between unit model and water filter please refer to the price list		ALL
C7420851 Filter 3"	Wire mesh water filter, to be installed on field. For the correct match between unit model and water filter please refer to the price list		ALL
C7420861 Filter 4"	Wire mesh water filter, to be installed on field. For the correct match between unit model and water filter please refer to the price list		ALL
PF417 **LIFTINGS SPREAD BAR**			
F4005292 Lifting bars			ALL
PF410 **ANTI-VIBRANT MOUNTINGS KIT (RUBBER ISOLATORS)**			
F400500001 Anti-Vibration mountings Kit (rubber isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F400501001 Anti-Vibration mountings Kit (rubber isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F400503001 Anti-Vibration mountings Kit (rubber isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F400504001 Anti-Vibration mountings Kit (rubber isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F400505001 Anti-Vibration mountings Kit (rubber isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F400505501 Anti-Vibration mountings Kit (rubber isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F400506001 Anti-Vibration mountings Kit (rubber isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F400507001 Anti-Vibration mountings Kit (rubber isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL

ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
F400532201 Anti-Vibration mountings Kit (rubber isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F400532202 Anti-Vibration mountings Kit (rubber isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F400532401 Anti-Vibration mountings Kit (rubber isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
PF411 **ANTI-VIBRANT MOUNTINGS KIT (SPRING ISOLATORS)**			
F4005304 Anti-Vibration mountings Kit (spring-type isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F4005311 Anti-Vibration mountings Kit (spring-type isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F4005310 Anti-Vibration mountings Kit (spring isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
F4005308 Anti-Vibration mountings Kit (spring isolators)	For the correct match between unit model and anti-vibration mounting kit please refer to the price list		ALL
PF0 **Generic accessory**			
C5140131 Evaporator water flow switch	Flow switch with stainless scoop AISI 316L and IP65 protection suitable for installation in industrial plant pipes. It should be installed in a straight pipe without filters, valves, etc., long at least 5 times its diameter, both upstream and downstream. ADVANTAGES: signaling of lack of or	Signaling of lack of or excessive reduction of flow, it generates an alarm that is in automatic or manual reset depending on n ° alarms per hour and the maximum time of operation of the pump under conditions of low flow rate.	ALL
380 **NUMBERED WIRING**			
381 NUMBERED WIRING ON EL. BOARD			ALL
2410 **PHASE SEQUENCE RELAY**			
2411 WITH EXTERNAL PHASE SEQUENCE RELAY	Relay for checking mains phase-sequence	Protects loads against faults due to incorrect connection of mains	ALL
3300 **COMPRESSOR REPHASING**			
3301 COMPR.POWER FACTOR CORR.	Capacitors on the compressors' power inlet line.	The unit's average cos(phi) increases.	ALL
3410 **AUTOMATIC CIRCUIT BREAKERS**			
3412 AUTOM. CIRCUIT BREAK. ON LOADS	Over-current switch on the major electrical loads.	In case of overcurrent allows resetting of the switch without the replacement of relative fuses.	ALL
3600 **ON/OFF COMPRESSOR SIGNAL**			
3601 COMPRESSOR OPERATION SIGNAL	Auxiliary contacts providing a voltage-free signal.	Allows remote signalling of compressor's activation or remote control of any auxiliary loads.	ALL

ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
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.	**NX /CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /K**: 0402P, 0452P, 0502P, 0552P, 0602P, 0702P, 0802P. **NX /LN-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /LN-K**: 0352P, 0402P, 0452P, 0502P, 0552P, 0602P, 0702P, 0802P. **NX /SL-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0412P, 0462P, 0512P, 0562P, 0612P, 0712P, 0812P. **NX /SL-K**: 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0552P, 0602P, 0702P. **NX /D /CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /D /K**: 0402P, 0452P, 0502P, 0552P, 0602P, 0702P, 0802P. **NX /D /LN-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /D /LN-K**: 0352P, 0402P, 0452P, 0502P, 0552P, 0602P, 0702P, 0802P. **NX /D /SL-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0412P, 0462P, 0512P, 0562P, 0612P, 0712P, 0812P. **NX /D /SL-K**: 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0552P, 0602P, 0702P.
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
1510 **SOFT-STARTER**			
1511 SOFT-STARTER FOR THREE-PHASE POWER SUPPLY	Electronic device adopted to manage the inrush current.	Break down of the inrush current compared to the direct motor start, lower motor windings' mechanical wear, avoidance of mains voltage fluctuations during starting, favourable sizing for the electrical system.	ALL
6310 **VISUAL DISPLAY PROTECTION**			
6311 WITH DISPLAY PROTECTION	Display protection sealed panel	Provide complete protection against UV rays, atmospheric agents, sand storms.	ALL

ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
600 **LIQUID LINE SOLENOID VALVE**			
601 LIQUID LINE SOLENOID VALVE	Solenoid valve on the refrigerant liquid line, between the condenser and the expansion valve.	Prevent liquid from migrating towards the compressors when the unit is turned off.	**NX /CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /LN-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /SL-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0412P, 0462P, 0512P, 0562P, 0612P, 0712P, 0812P. **NX /D /CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /D /LN-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /D /SL-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0412P, 0462P, 0512P, 0562P, 0612P, 0712P, 0812P.
1400 **HP AND LP GAUGES**			
1401 HP AND LP GAUGES	High and low pressure gauges	Allows immediate reading of the pressure values on both low and high pressure circuits	ALL
1900 **COMPRESSOR SUCTION VALVE**			
1901 COMPRESSOR SUCTION VALVE	Shut-off valve on compressor's suction circuit.	Simplifies maintenance activities	ALL
1910 **COMPRESSOR DISCHARGE VALVE**			
1911 COMPR. DISCHARGE LINE VALVE	Shut-off solenoid valve on compressor discharge circuit	Simplifies maintenance activities	ALL
1930 **ELECTRONIC EXPANSION VALVES**			
1926 EEV FOR UNITS WITH DVV	Electronic expansion valve. This code can be selected only for the models already equipped with a fan speed control device (DVV, DVVF, DVV2F).	The electronic valve ensures a quick, fluctuating-free refrigerant circuit regulation, and therefore a highly accurate adjustment to the load swings. Furthermore it allows to reduce the super heating in the evaporator, thus enhancing unit's operating efficiency.	**NX /CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /LN-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /SL-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0412P, 0462P, 0512P, 0562P, 0612P, 0712P, 0812P. **NX /D /CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /D /LN-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /D /SL-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0412P, 0462P, 0512P, 0562P, 0612P, 0712P, 0812P.
990 **CONDENSING COIL**			
876 E-COATING MICROCHANNEL COILS	The heat exchanger is completely treated by electrolysis so as to create a protective layer of epoxy polymer on the surface, with the following characteristics: - over 3120 hours of salt spray protection as per ASTM G85-02 A3 (SWAAT); - polyurethane surface protection against UV rays.	Provide a very high resistance against corrosion, also in very aggressive environment. For further information please refer to the Guidelines “Finned coil heat exchangers and protection against corrosion”, available in the download section of the website www.climaveneta.com, or contact our sales department.	ALL
879 COPPER/ALUMINIUM COILS	Finned coil heat exchanger made from suitably-spaced copper tubes and aluminum fins designed to ensure maximum heat exchange efficiency.	Provide a good resistance against corrosion. For further information please refer to the Guidelines “Finned coil heat exchangers and protection against corrosion”, available in the download section of the website www.climaveneta.com, or contact our sales department.	ALL

ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
881 Cu/Cu EXTERNAL COIL	Finned coil heat exchanger made from copper tubes and aluminum fins with chemical cleaning treatment to remove impurities, and then coated with protective paint with the following characteristics: - fins treated with protective polyester resin paint; - over 1000 hours of salt spray protection as per ASTM B117 (fins without cross and protected edges); - excellent resistance to UV rays.	Provide a very high resistance against corrosion, also in very aggressive environment. For further information please refer to the Guidelines “Finned coil heat exchangers and protection against corrosion”, available in the download section of the website www.climaveneta.com, or contact our sales department.	ALL
894 Cu PIPES/PREPAINTED ALL. FINS	Finned coil heat exchanger made from copper tubes and aluminum fins with chemical cleaning treatment to remove impurities, and then coated with protective paint with the following characteristics: - fins treated with protective polyester resin paint; - over 1000 hours of salt spray protection as per ASTM B117 (fins without cross and protected edges); - excellent resistance to UV rays.	Provide a good resistance against corrosion. For further information please refer to the Guidelines “Finned coil heat exchangers and protection against corrosion”, available in the download section of the website www.climaveneta.com, or contact our sales department.	ALL
895 FIN GUARD SILVER TREATM	Copper-aluminum heat exchanger coils with polyurethane paint Fin Guard Silver SB. Coil completely coated by a protective layer of polyurethane paint with the following characteristics: - polyurethane paint with metallic emulsion; - over 3000 hours of salt spray protection as per ASTM B117; - excellent resistance to UV rays; - high-pressure spray painting system.	Provide a very high resistance against corrosion, also in very aggressive environment. For further information please refer to the Guidelines “Finned coil heat exchangers and protection against corrosion”, available in the download section of the website www.climaveneta.com, or contact our sales department.	**NX /CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /K**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0552P, 0602P, 0702P, 0802P. **NX /LN-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /LN-K**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0552P, 0602P, 0702P, 0802P. **NX /SL-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0412P, 0462P, 0512P, 0562P, 0612P, 0712P, 0812P. **NX /SL-K**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0552P, 0602P, 0702P. **NX /D /CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /D /K**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0552P, 0602P, 0702P, 0802P. **NX /D /LN-CA**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0562P, 0612P, 0712P, 0812P. **NX /D /LN-K**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0552P, 0602P, 0702P, 0802P. **NX /D /SL-CA**: 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0412P, 0462P, 0512P, 0562P, 0612P, 0712P, 0812P. **NX /D /SL-K**: 0152P, 0182P, 0202P, 0252P, 0262P, 0302P, 0352P, 0402P, 0452P, 0502P, 0552P, 0602P, 0702P.
820 **LOW AMBIENT CONTROL**			
802 VAR.FAN SPEED LOW AMB.CONTROL	Fan speed control according to the condensing pressure; the use of this device is mandatory in case the unit operates with low evaporator leaving water temperature combined with low outdoor air temperatures	Extension of the unit operating range (see the section dedicated to the operating limits). The device allows the unit to operate in the most extreme conditions avoiding any risk of low pressure alarm intervention. The enhanced air flow management delivers also benefits in terms of both efficiency and quietness.	ALL

ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
819 DVVF	Fan speed control according to the condensing pressure; the use of this device is mandatory in case the unit operates with low evaporator leaving water temperature combined with low outdoor air temperatures	Extension of the unit operating range (see the section dedicated to the operating limits). The device allows the unit to operate in the most extreme conditions avoiding any risk of low pressure alarm intervention. The enhanced air flow management delivers also benefits in terms of both efficiency and quietness.	ALL
821 DVV2F	Fan speed control according to the condensing pressure; the use of this device is mandatory in case the unit operates with low evaporator leaving water temperature combined with low outdoor air temperatures	Extension of the unit operating range (see the section dedicated to the operating limits). The device allows the unit to operate in the most extreme conditions avoiding any risk of low pressure alarm intervention. The enhanced air flow management delivers also benefits in terms of both efficiency and quietness.	ALL
3160 **WITH HYDRAULIC KIT ON BOARD**			
3152 KIT 1 PUMP 2 POL LH+TANK	Hydronic group (see dedicated section).		ALL
3153 KIT 1 PUMP 2 POL HH+TANK	Hydronic group (see dedicated section).		ALL
3155 KIT 2 PUMPS 2 POL LH+TANK	Hydronic group (see dedicated section).		ALL
3156 KIT 2 PUMPS 2 POL HH+TANK	Hydronic group (see dedicated section).		ALL
3164 KIT 1 PUMP 2 POLES LH	Hydronic group (see dedicated section).		ALL
3165 KIT 1 PUMP 2 POLES HH	Hydronic group (see dedicated section).		ALL
3167 KIT 2 PUMPS 2 POLES LH	Hydronic group (see dedicated section).		ALL
3168 KIT 2 PUMPS 2 POLES HH	Hydronic group (see dedicated section).		ALL
2430 **PIPING KIT ANTIFREEZE HEATER**			
2432 ANTIFREEZE PIPING, PUMPS	Electrical heaters on pipes and other hydraulic unit's components. This option is mandatory if the unit is supposed to work with outdoor temperature below 0°C.	It protects the unit against ice formation on its hydraulic components.	ALL
2433 ANTIFREEZE PIPING, PUMPS, TANK	Electrical heaters on pipes and other hydraulic unit's components. This option is mandatory if the unit is supposed to work with outdoor temperature below 0°C.		ALL
2020 **ANTI-INTRUSION GRILLS**			
2021 ANTI-INTRUSION GRILLS	Anti-intrusions grills	Avoid the intrusion of solid bodies into the unit's structure.	ALL
9970 **PACKING**			
9969 NYLON + WOODEN CRATE PACKING	Unit provided with wooden cage and covered with nylon		ALL
9971 WITHOUT PACKAGING	Unit provided with plastic supports		ALL

ACCESSORIES

ACCESSORIES	DESCRIPTIONS	BENEFITS	AVAILABLE FOR MODELS
9972 WOODEN BOX PACKING	Unit provided with wooden box		ALL
9973 WOODEN CAGE PACKING	Unit provided with wooden cage		ALL
9974 MARINE PACKING	Unit provided with barrier bag and wooden cage		ALL
9979 CONTAINER PACKING	Unit provided with container slides and covered with nylon		ALL
9996 CONTAINER SLIDES	Unit provided with container slides		ALL
9999 SUPPORTS AND NYLON	Unit provided with plastic supports and covered with nylon		ALL

ACCESSORY NOTES

381 – Numbered wiring on electrical board
Standard feature.

3412 – Automatic circuit breakers
Standard feature.

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

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

Chiller Plant Control with Active Optimization System

ClimaPRO System Manager

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

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

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

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

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

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

4.1 GENERAL TECHNICAL DATA NX / K

[SI System]

NX / K			0152P	0182P	0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P
Power supply		V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	**kW**	**39,2**	**44,3**	**51,9**	**58,9**	**65,0**	**77,6**	**88,5**	**102**	**114**	**127**
Total power input	(1)	kW	13,5	15,6	18,1	20,5	23,5	26,8	31,3	35,4	40,1	44,9
EER	(1)	kW/kW	2,90	2,84	2,87	2,87	2,77	2,90	2,83	2,88	2,86	2,84
ESEER	(1)	kW/kW	4,41	4,37	4,41	4,39	4,33	4,23	4,41	4,04	4,13	4,13
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	**kW**	**39,0**	**44,0**	**51,6**	**58,6**	**64,7**	**77,2**	**87,9**	**101**	**114**	**127**
EER	(1)(2)	kW/kW	2,83	2,78	2,80	2,82	2,71	2,84	2,76	2,82	2,79	2,78
ESEER	(1)(2)	kW/kW	4,19	4,15	4,20	4,20	4,17	4,06	4,16	3,86	3,96	3,95
Cooling energy class			C	C	C	C	C	C	C	C	C	C
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(3)	kW	40,7	45,9	53,9	61,1	67,4	80,5	91,8	106	119	132
Total power input	(3)	kW	13,0	15,1	17,5	19,8	22,7	25,9	30,3	34,3	38,9	43,5
Desuperheater heating capacity	(3)	**kW**	**11,4**	**13,3**	**15,2**	**17,4**	**20,0**	**22,5**	**26,6**	**28,0**	**32,3**	**36,5**
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	1,88	2,12	2,48	2,82	3,11	3,71	4,23	4,88	5,47	6,09
Pressure drop	(1)	kPa	36,3	34,1	36,3	33,4	33,2	33,9	54,1	49,9	51,3	49,1
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(3)	l/s	0,55	0,64	0,74	0,84	0,97	1,09	1,29	1,35	1,56	1,76
Pressure drop	(3)	kPa	6,91	9,37	12,4	16,2	21,4	13,4	18,7	20,6	19,3	24,7
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity		N°	2	2	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	6	6	6	7	8	9	10	11	12	13
Oil charge		kg	4	5	5	7	7	7	8	9	12	14
Rc (ASHRAE)	(4)	kg/kW	0,144	0,137	0,122	0,125	0,121	0,114	0,113	0,110	0,109	0,104
FANS												
Quantity		N°	3	3	4	4	4	6	6	2	2	2
Air flow		m³/s	3,91	3,91	4,92	5,32	5,32	7,41	7,41	11,34	11,34	11,34
Fans power input		kW	0,25	0,25	0,25	0,25	0,25	0,25	0,25	2,00	2,00	2,00
NOISE LEVEL												
Noise Pressure	(5)	dB(A)	51	51	52	52	52	53	54	56	56	56
Sound power level in cooling	(6)(7)	dB(A)	83	83	84	84	84	85	86	88	88	88
SIZE AND WEIGHT												
A	(8)	mm	1825	1825	1825	2395	2395	2395	2395	2825	2825	2825
B	(8)	mm	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195
H	(8)	mm	1865	1865	1865	1865	1865	1865	1865	1980	1980	1980
Operating weight	(8)	kg	470	480	490	540	550	570	660	830	870	900

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / K

[SI System]

NX / K			0552P	0602P	0702P	0802P
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
COOLING ONLY (GROSS VALUE)						
Cooling capacity	(1)	**kW**	**144**	**166**	**189**	**207**
Total power input	(1)	kW	52,3	57,7	67,9	77,9
EER	(1)	kW/kW	2,76	2,87	2,79	2,65
ESEER	(1)	kW/kW	4,24	4,08	4,15	3,89
COOLING ONLY (EN14511 VALUE)						
Cooling capacity	(1)(2)	**kW**	**144**	**165**	**189**	**206**
EER	(1)(2)	kW/kW	2,70	2,82	2,74	2,60
ESEER	(1)(2)	kW/kW	4,04	3,92	3,99	3,74
Cooling energy class			C	C	C	D
COOLING WITH PARTIAL RECOVERY						
Cooling capacity	(3)	kW	150	172	197	214
Total power input	(3)	kW	50,6	55,8	65,7	75,4
Desuperheater heating capacity	(3)	**kW**	**43,1**	**46,1**	**55,2**	**64,2**
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN REFRIGERATION						
Water flow	(1)	l/s	6,90	7,92	9,06	9,88
Pressure drop	(1)	kPa	52,1	49,3	49,8	59,2
PARTIAL RECOVERY USER SIDE IN REFRIGERATION						
Water flow	(3)	l/s	2,08	2,23	2,67	3,10
Pressure drop	(3)	kPa	23,1	26,5	25,5	34,4
REFRIGERANT CIRCUIT						
Compressors nr.		N°	2	2	2	2
Number of capacity		N°	2	2	2	2
No. Circuits		N°	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A
Refrigerant charge		kg	14	15	16	17
Oil charge		kg	13	13	11	11
Rc (ASHRAE)	(4)	kg/kW	0,096	0,094	0,085	0,081
FANS						
Quantity		N°	2	3	3	3
Air flow		m³/s	11,74	17,04	17,04	17,04
Fans power input		kW	2,00	2,00	2,00	2,00
NOISE LEVEL						
Noise Pressure	(5)	dB(A)	57	58	58	59
Sound power level in cooling	(6)(7)	dB(A)	89	90	90	91
SIZE AND WEIGHT						
A	(8)	mm	3360	3980	3980	3980
B	(8)	mm	1195	1195	1195	1195
H	(8)	mm	1980	1980	1980	1980
Operating weight	(8)	kg	980	1130	1110	1140

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / LN-K

[SI System]

NX / LN-K			0152P	0182P	0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P
Power supply		V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	**kW**	**39,3**	**44,3**	**51,7**	**58,8**	**65,5**	**74,7**	**89,9**	**99,4**	**113**	**125**
Total power input	(1)	kW	13,6	15,8	18,5	20,4	23,2	28,3	31,1	35,9	39,3	44,2
EER	(1)	kW/kW	2,89	2,80	2,79	2,88	2,82	2,64	2,89	2,77	2,87	2,83
ESEER	(1)	kW/kW	4,50	4,44	4,41	4,38	4,39	4,22	4,26	4,11	4,29	4,33
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	**kW**	**39,1**	**44,0**	**51,4**	**58,5**	**65,2**	**74,4**	**89,3**	**98,8**	**112**	**124**
EER	(1)(2)	kW/kW	2,82	2,74	2,73	2,83	2,77	2,60	2,82	2,71	2,81	2,78
ESEER	(1)(2)	kW/kW	4,28	4,22	4,20	4,19	4,21	4,08	4,01	3,92	4,11	4,14
Cooling energy class			C	C	C	C	C	D	C	C	C	C
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(3)	kW	40,7	46,0	53,6	61,0	68,0	77,5	93,3	103	117	130
Total power input	(3)	kW	13,2	15,2	17,9	19,7	22,4	27,4	30,1	34,8	38,0	42,7
Desuperheater heating capacity	(3)	**kW**	**11,6**	**13,5**	**15,6**	**17,3**	**19,8**	**24,4**	**25,8**	**30,1**	**33,0**	**37,4**
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	1,88	2,12	2,47	2,81	3,13	3,57	4,30	4,75	5,40	5,99
Pressure drop	(1)	kPa	36,3	34,2	36,0	33,3	33,7	31,4	55,9	47,4	49,8	47,4
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(3)	l/s	0,56	0,65	0,75	0,84	0,96	1,18	1,24	1,45	1,59	1,81
Pressure drop	(3)	kPa	7,16	9,74	13,0	16,0	20,9	15,7	17,5	23,9	20,1	25,9
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity		N°	2	2	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	6	6	7	7	8	9	11	11	13	14
Oil charge		kg	4	5	5	7	7	7	8	9	12	14
Rc (ASHRAE)	(4)	kg/kW	0,149	0,136	0,139	0,125	0,120	0,119	0,118	0,113	0,113	0,110
FANS												
Quantity		N°	4	4	4	6	6	6	2	2	2	2
Air flow		m³/s	3,61	3,61	4,47	5,49	5,49	5,49	8,24	8,24	10,21	10,21
Fans power input		kW	0,16	0,16	0,25	0,16	0,16	0,16	1,10	1,10	1,15	1,15
NOISE LEVEL												
Noise Pressure	(5)	dB(A)	47	47	47	48	48	48	51	51	52	52
Sound power level in cooling	(6)(7)	dB(A)	79	79	79	80	80	80	83	83	84	84
SIZE AND WEIGHT												
A	(8)	mm	1825	1825	2395	2395	2395	2395	2825	2825	3360	3360
B	(8)	mm	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195
H	(8)	mm	1865	1865	1865	1865	1865	1865	1980	1980	1980	1980
Operating weight	(8)	kg	480	500	540	570	570	580	780	880	1000	1030

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / LN-K

[SI System]

NX / LN-K			0552P	0602P	0702P	0802P
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
COOLING ONLY (GROSS VALUE)						
Cooling capacity	(1)	**kW**	**140**	**163**	**179**	**194**
Total power input	(1)	kW	52,9	58,1	70,3	81,9
EER	(1)	kW/kW	2,64	2,80	2,55	2,37
ESEER	(1)	kW/kW	4,36	4,20	4,10	3,83
COOLING ONLY (EN14511 VALUE)						
Cooling capacity	(1)(2)	**kW**	**139**	**162**	**179**	**193**
EER	(1)(2)	kW/kW	2,60	2,75	2,51	2,33
ESEER	(1)(2)	kW/kW	4,17	4,04	3,95	3,70
Cooling energy class			D	C	D	E
COOLING WITH PARTIAL RECOVERY						
Cooling capacity	(3)	kW	145	169	186	201
Total power input	(3)	kW	51,2	56,2	68,0	79,2
Desuperheater heating capacity	(3)	**kW**	**45,2**	**48,6**	**59,5**	**69,9**
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN REFRIGERATION						
Water flow	(1)	l/s	6,69	7,78	8,58	9,28
Pressure drop	(1)	kPa	49,0	47,6	44,7	52,3
PARTIAL RECOVERY USER SIDE IN REFRIGERATION						
Water flow	(3)	l/s	2,18	2,35	2,87	3,37
Pressure drop	(3)	kPa	25,4	29,4	29,6	40,9
REFRIGERANT CIRCUIT						
Compressors nr.		N°	2	2	2	2
Number of capacity		N°	2	2	2	2
No. Circuits		N°	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A
Refrigerant charge		kg	14	15	16	17
Oil charge		kg	13	13	11	11
Rc (ASHRAE)	(4)	kg/kW	0,099	0,095	0,090	0,086
FANS						
Quantity		N°	2	3	3	3
Air flow		m³/s	10,21	13,35	13,35	13,35
Fans power input		kW	1,15	1,20	1,20	1,20
NOISE LEVEL						
Noise Pressure	(5)	dB(A)	52	53	53	53
Sound power level in cooling	(6)(7)	dB(A)	84	85	85	85
SIZE AND WEIGHT						
A	(8)	mm	3360	3980	3980	3980
B	(8)	mm	1195	1195	1195	1195
H	(8)	mm	1980	1980	1980	1980
Operating weight	(8)	kg	1060	1180	1150	1180

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / SL-K

[SI System]

NX / SL-K			0152P	0182P	0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P
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**	**39,4**	**44,6**	**52,3**	**58,9**	**65,9**	**77,7**	**88,5**	**100**	**113**	**124**
Total power input	(1)	kW	13,9	16,1	18,2	20,3	22,9	27,4	30,5	35,1	39,3	44,8
EER	(1)	kW/kW	2,83	2,77	2,87	2,90	2,88	2,84	2,90	2,85	2,89	2,77
ESEER	(1)	kW/kW	4,28	4,25	4,49	4,15	4,22	4,30	4,40	4,40	4,38	4,32
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	**kW**	**39,2**	**44,3**	**52,0**	**58,6**	**65,6**	**77,3**	**87,9**	**99,4**	**113**	**124**
EER	(1)(2)	kW/kW	2,77	2,71	2,81	2,84	2,82	2,78	2,83	2,79	2,82	2,72
ESEER	(1)(2)	kW/kW	4,07	4,05	4,27	3,99	4,05	4,12	4,14	4,19	4,18	4,15
Cooling energy class			C	C	C	C	C	C	C	C	C	C
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(3)	kW	40,9	46,3	54,2	61,1	68,3	80,7	91,8	104	118	129
Total power input	(3)	kW	13,4	15,5	17,6	19,6	22,1	26,5	29,5	33,9	38,0	43,3
Desuperheater heating capacity	(3)	**kW**	**11,5**	**13,5**	**15,4**	**16,8**	**19,1**	**23,1**	**25,8**	**29,9**	**33,1**	**37,9**
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	1,88	2,13	2,50	2,82	3,15	3,72	4,23	4,78	5,42	5,95
Pressure drop	(1)	kPa	36,6	34,6	36,8	33,4	34,1	34,0	54,1	48,0	50,3	46,7
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(3)	l/s	0,56	0,65	0,74	0,81	0,92	1,12	1,25	1,44	1,60	1,83
Pressure drop	(3)	kPa	7,11	9,70	12,6	15,0	19,4	14,1	17,5	23,5	20,2	26,7
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity		N°	2	2	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	6	7	7	8	9	9	11	12	13	14
Oil charge		kg	4	5	5	7	7	7	8	9	12	14
Rc (ASHRAE)	(4)	kg/kW	0,151	0,158	0,137	0,130	0,130	0,121	0,123	0,120	0,117	0,114
FANS												
Quantity		N°	6	6	6	2	2	2	2	2	3	3
Air flow		m³/s	3,83	3,83	4,66	6,50	6,50	6,50	8,46	8,46	9,88	9,88
Fans power input		kW	0,16	0,16	0,16	0,75	0,75	0,75	0,79	0,79	0,75	0,75
NOISE LEVEL												
Noise Pressure	(5)	dB(A)	44	45	45	46	46	46	47	48	49	49
Sound power level in cooling	(6)(7)	dB(A)	76	77	77	78	78	78	79	80	81	81
SIZE AND WEIGHT												
A	(8)	mm	2395	2395	2395	2825	2825	2825	3360	3360	3980	3980
B	(8)	mm	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195
H	(8)	mm	1865	1865	1865	1980	1980	1980	1980	1980	1980	1980
Operating weight	(8)	kg	540	550	560	670	680	680	860	960	1070	1080

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / SL-K

[SI System]

NX / SL-K			0552P	0602P	0702P
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50
PERFORMANCE					
COOLING ONLY (GROSS VALUE)					
Cooling capacity	(1)	**kW**	**140**	**153**	**175**
Total power input	(1)	kW	52,5	61,7	72,1
EER	(1)	kW/kW	2,68	2,48	2,43
ESEER	(1)	kW/kW	4,29	4,08	3,96
COOLING ONLY (EN14511 VALUE)					
Cooling capacity	(1)(2)	**kW**	**140**	**152**	**175**
EER	(1)(2)	kW/kW	2,63	2,44	2,40
ESEER	(1)(2)	kW/kW	4,12	3,95	3,81
Cooling energy class			D	E	E
COOLING WITH PARTIAL RECOVERY					
Cooling capacity	(3)	kW	146	159	182
Total power input	(3)	kW	50,7	59,7	69,7
Desuperheater heating capacity	(3)	**kW**	**44,4**	**52,7**	**61,4**
EXCHANGERS					
HEAT EXCHANGER USER SIDE IN REFRIGERATION					
Water flow	(1)	l/s	6,72	7,32	8,39
Pressure drop	(1)	kPa	49,4	42,0	42,7
PARTIAL RECOVERY USER SIDE IN REFRIGERATION					
Water flow	(3)	l/s	2,14	2,54	2,96
Pressure drop	(3)	kPa	24,6	34,5	31,5
REFRIGERANT CIRCUIT					
Compressors nr.		N°	2	2	2
Number of capacity		N°	2	2	2
No. Circuits		N°	1	1	1
Regulation			STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50
Refrigerant			R410A	R410A	R410A
Refrigerant charge		kg	15	15	16
Oil charge		kg	13	13	11
Rc (ASHRAE)	(4)	kg/kW	0,104	0,101	0,092
FANS					
Quantity		N°	3	3	3
Air flow		m³/s	10,74	10,74	12,35
Fans power input		kW	0,90	0,90	1,10
NOISE LEVEL					
Noise Pressure	(5)	dB(A)	50	50	51
Sound power level in cooling	(6)(7)	dB(A)	82	82	83
SIZE AND WEIGHT					
A	(8)	mm	3980	3980	3980
B	(8)	mm	1195	1195	1195
H	(8)	mm	1980	1980	1980
Operating weight	(8)	kg	1110	1180	1150

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / CA

[SI System]

NX / CA			0152P	0182P	0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P
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**	**41,7**	**47,4**	**55,0**	**62,5**	**69,6**	**85,0**	**96,6**	**108**	**122**	**138**
Total power input	(1)	kW	12,8	14,5	16,7	19,3	21,8	26,5	30,2	33,6	38,3	42,6
EER	(1)	kW/kW	3,26	3,27	3,29	3,24	3,19	3,21	3,20	3,21	3,18	3,23
ESEER	(1)	kW/kW	4,56	4,65	4,45	4,45	4,49	4,28	4,41	4,43	4,54	4,34
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	**kW**	**41,4**	**47,1**	**54,7**	**62,2**	**69,2**	**84,5**	**95,9**	**107**	**121**	**137**
EER	(1)(2)	kW/kW	3,17	3,18	3,21	3,16	3,12	3,14	3,11	3,13	3,10	3,16
ESEER	(1)(2)	kW/kW	4,30	4,41	4,23	4,26	4,28	4,07	4,13	4,19	4,30	4,13
Cooling energy class			A	A	A	A	A	A	A	A	A	A
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(3)	kW	43,3	49,2	57,1	64,8	72,2	88,2	100	112	126	143
Total power input	(3)	kW	12,4	14,0	16,2	18,7	21,1	25,7	29,3	32,6	37,0	41,4
Desuperheater heating capacity	(3)	**kW**	**10,6**	**12,0**	**13,6**	**15,9**	**18,1**	**20,1**	**23,4**	**26,7**	**30,9**	**32,7**
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	1,99	2,27	2,63	2,99	3,33	4,07	4,62	5,16	5,83	6,59
Pressure drop	(1)	kPa	40,9	39,1	40,7	37,6	38,0	40,7	64,4	56,0	58,2	57,4
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(3)	l/s	0,51	0,58	0,66	0,77	0,87	0,97	1,13	1,29	1,49	1,58
Pressure drop	(3)	kPa	5,97	7,75	9,86	13,4	17,5	10,6	14,4	18,8	17,6	19,8
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity		N°	2	2	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	6	8	8	8	9	10	12	13	14	15
Oil charge		kg	4	5	5	7	7	7	8	9	12	14
Rc (ASHRAE)	(4)	kg/kW	0,153	0,168	0,147	0,131	0,126	0,119	0,125	0,124	0,118	0,112
FANS												
Quantity		N°	4	4	6	6	6	2	2	2	2	3
Air flow		m³/s	4,92	5,32	7,41	7,41	7,41	11,34	11,74	12,53	12,53	17,04
Fans power input		kW	0,25	0,25	0,25	0,25	0,25	2,00	2,00	1,84	1,84	2,00
NOISE LEVEL												
Noise Pressure	(5)	dB(A)	52	52	53	53	54	56	56	58	58	58
Sound power level in cooling	(6)(7)	dB(A)	84	84	85	85	86	88	88	90	90	90
SIZE AND WEIGHT												
A	(8)	mm	1825	2395	2395	2395	2395	2825	3360	3360	3360	3980
B	(8)	mm	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195
H	(8)	mm	1865	1865	1865	1865	1865	1980	1980	1980	1980	1980
Operating weight	(8)	kg	480	540	550	560	570	680	830	960	1000	1080

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / CA

[SI System]

NX / CA			0562P	0612P	0712P	0812P
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
COOLING ONLY (GROSS VALUE)						
Cooling capacity	(1)	**kW**	**160**	**178**	**201**	**227**
Total power input	(1)	kW	48,9	55,4	63,5	70,5
EER	(1)	kW/kW	3,28	3,22	3,17	3,22
ESEER	(1)	kW/kW	4,32	4,31	4,38	4,17
COOLING ONLY (EN14511 VALUE)						
Cooling capacity	(1)(2)	**kW**	**159**	**178**	**200**	**226**
EER	(1)(2)	kW/kW	3,20	3,15	3,10	3,14
ESEER	(1)(2)	kW/kW	4,08	4,13	4,18	3,96
Cooling energy class			A	A	A	A
COOLING WITH PARTIAL RECOVERY						
Cooling capacity	(3)	kW	166	185	209	236
Total power input	(3)	kW	47,4	53,8	61,5	68,4
Desuperheater heating capacity	(3)	**kW**	**36,5**	**42,3**	**49,5**	**54,0**
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN REFRIGERATION						
Water flow	(1)	l/s	7,67	8,53	9,62	10,9
Pressure drop	(1)	kPa	64,4	57,2	56,2	71,5
PARTIAL RECOVERY USER SIDE IN REFRIGERATION						
Water flow	(3)	l/s	1,76	2,04	2,39	2,61
Pressure drop	(3)	kPa	16,6	22,3	20,5	24,4
REFRIGERANT CIRCUIT						
Compressors nr.		N°	2	2	2	2
Number of capacity		N°	2	2	2	2
No. Circuits		N°	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A
Refrigerant charge		kg	19	20	23	25
Oil charge		kg	13	13	13	13
Rc (ASHRAE)	(4)	kg/kW	0,118	0,115	0,115	0,109
FANS						
Quantity		N°	4	4	4	5
Air flow		m³/s	22,68	22,68	22,68	28,35
Fans power input		kW	2,00	2,00	2,00	2,00
NOISE LEVEL						
Noise Pressure	(5)	dB(A)	59	59	60	61
Sound power level in cooling	(6)(7)	dB(A)	91	91	92	93
SIZE AND WEIGHT						
A	(8)	mm	3160	3160	3160	4335
B	(8)	mm	2250	2250	2250	2250
H	(8)	mm	2170	2170	2170	2170
Operating weight	(8)	kg	1510	1550	1570	1810

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA — NX / LN-CA

[SI System]

NX / LN-CA			0152P	0182P	0202P	0252P	0262P	0302P	0352P	0402P	0452P	0502P
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**	**41,5**	**47,0**	**55,0**	**63,5**	**70,7**	**82,7**	**94,4**	**107**	**121**	**134**
Total power input	(1)	kW	12,6	14,4	17,2	19,5	21,9	26,0	29,3	33,3	37,9	42,2
EER	(1)	kW/kW	3,29	3,26	3,20	3,26	3,23	3,18	3,22	3,23	3,18	3,18
ESEER	(1)	kW/kW	4,56	4,62	4,71	4,31	4,34	4,37	4,52	4,32	4,41	4,36
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	**kW**	**41,2**	**46,7**	**54,7**	**63,1**	**70,3**	**82,3**	**93,8**	**107**	**120**	**133**
EER	(1)(2)	kW/kW	3,20	3,18	3,12	3,18	3,15	3,11	3,13	3,14	3,10	3,11
ESEER	(1)(2)	kW/kW	4,29	4,38	4,46	4,11	4,15	4,20	4,25	4,10	4,19	4,15
Cooling energy class			A	A	A	A	A	A	A	A	A	A
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(3)	kW	43,0	48,7	57,1	65,9	73,3	85,8	98,0	111	125	139
Total power input	(3)	kW	12,2	13,9	16,6	18,9	21,2	25,1	28,4	32,2	36,7	40,9
Desuperheater heating capacity	(3)	**kW**	**10,4**	**12,0**	**14,5**	**15,4**	**17,6**	**21,2**	**24,1**	**26,8**	**30,9**	**34,5**
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	1,98	2,25	2,63	3,04	3,38	3,95	4,52	5,14	5,77	6,42
Pressure drop	(1)	kPa	40,5	38,4	40,7	38,8	39,2	38,5	61,6	55,4	56,9	54,4
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(3)	l/s	0,50	0,58	0,70	0,74	0,85	1,02	1,17	1,29	1,49	1,67
Pressure drop	(3)	kPa	5,73	7,68	11,2	12,7	16,5	11,8	15,3	18,8	17,6	22,0
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity		N°	2	2	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	7	8	8	9	10	11	12	14	15	15
Oil charge		kg	4	5	5	7	7	7	8	9	12	14
Rc (ASHRAE)	(4)	kg/kW	0,163	0,170	0,147	0,135	0,137	0,128	0,128	0,127	0,121	0,115
FANS												
Quantity		N°	6	6	6	2	2	2	2	3	3	3
Air flow		m³/s	5,49	5,49	5,49	8,24	8,24	8,70	10,21	12,35	12,35	13,35
Fans power input		kW	0,16	0,16	0,16	1,10	1,10	1,10	1,15	1,10	1,10	1,20
NOISE LEVEL												
Noise Pressure	(5)	dB(A)	48	48	48	49	49	50	52	52	52	53
Sound power level in cooling	(6)(7)	dB(A)	80	80	80	81	81	82	84	84	84	85
SIZE AND WEIGHT												
A	(8)	mm	2395	2395	2395	2825	2825	3360	3360	3980	3980	3980
B	(8)	mm	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195
H	(8)	mm	1865	1865	1865	1980	1980	1980	1980	1980	1980	1980
Operating weight	(8)	kg	550	560	560	670	680	750	870	1050	1080	1090

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA — NX / LN-CA

[SI System]

NX / LN-CA			0562P	0612P	0712P	0812P
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
COOLING ONLY (GROSS VALUE)						
Cooling capacity	(1)	**kW**	**154**	**173**	**198**	**221**
Total power input	(1)	kW	47,1	54,4	60,8	67,5
EER	(1)	kW/kW	3,27	3,18	3,26	3,28
ESEER	(1)	kW/kW	4,67	4,48	4,65	4,38
COOLING ONLY (EN14511 VALUE)						
Cooling capacity	(1)(2)	**kW**	**153**	**172**	**197**	**220**
EER	(1)(2)	kW/kW	3,19	3,11	3,20	3,20
ESEER	(1)(2)	kW/kW	4,40	4,29	4,43	4,16
Cooling energy class			A	A	A	A
COOLING WITH PARTIAL RECOVERY						
Cooling capacity	(3)	kW	160	179	206	230
Total power input	(3)	kW	45,6	52,7	58,8	65,3
Desuperheater heating capacity	(3)	**kW**	**38,7**	**45,3**	**50,1**	**55,3**
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN REFRIGERATION						
Water flow	(1)	l/s	7,36	8,26	9,49	10,6
Pressure drop	(1)	kPa	59,3	53,6	54,6	67,9
PARTIAL RECOVERY USER SIDE IN REFRIGERATION						
Water flow	(3)	l/s	1,87	2,19	2,42	2,67
Pressure drop	(3)	kPa	18,6	25,5	21,0	25,5
REFRIGERANT CIRCUIT						
Compressors nr.		N°	2	2	2	2
Number of capacity		N°	2	2	2	2
No. Circuits		N°	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A
Refrigerant charge		kg	19	20	24	26
Oil charge		kg	13	13	13	13
Rc (ASHRAE)	(4)	kg/kW	0,123	0,119	0,124	0,118
FANS						
Quantity		N°	4	4	5	6
Air flow		m³/s	16,85	16,85	21,06	25,28
Fans power input		kW	0,93	0,93	0,93	0,93
NOISE LEVEL						
Noise Pressure	(5)	dB(A)	54	54	55	56
Sound power level in cooling	(6)(7)	dB(A)	86	86	87	88
SIZE AND WEIGHT						
A	(8)	mm	3160	3160	4335	4335
B	(8)	mm	2250	2250	2250	2250
H	(8)	mm	2170	2170	2170	2170
Operating weight	(8)	kg	1510	1550	1810	1870

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA — NX / SL-CA

[SI System]

NX / SL-CA			0152P	0182P	0202P	0252P	0262P	0302P	0352P	0412P	0462P	0512P
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	**kW**	**41,9**	**47,5**	**55,3**	**62,2**	**69,2**	**81,9**	**94,5**	**106**	**119**	**133**
Total power input	(1)	kW	12,8	14,5	17,1	19,0	21,4	25,5	29,6	32,4	36,9	41,9
EER	(1)	kW/kW	3,27	3,28	3,23	3,27	3,23	3,21	3,19	3,27	3,22	3,17
ESEER	(1)	kW/kW	4,26	4,39	4,52	4,44	4,46	4,57	4,52	4,56	4,64	4,67
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	**kW**	**41,6**	**47,2**	**55,0**	**61,9**	**68,8**	**81,5**	**93,9**	**105**	**118**	**132**
EER	(1)(2)	kW/kW	3,18	3,19	3,15	3,20	3,16	3,14	3,10	3,19	3,14	3,10
ESEER	(1)(2)	kW/kW	4,02	4,16	4,30	4,24	4,26	4,38	4,27	4,35	4,39	4,46
Cooling energy class			A	A	A	A	A	A	A	A	A	A
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(3)	kW	43,4	49,3	57,4	64,5	71,8	85,0	98,0	110	123	138
Total power input	(3)	kW	12,4	14,0	16,5	18,3	20,7	24,7	28,6	31,3	35,7	40,5
Desuperheater heating capacity	(3)	**kW**	**10,0**	**11,6**	**13,9**	**15,5**	**17,6**	**21,4**	**24,4**	**27,1**	**31,1**	**35,5**
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	2,00	2,27	2,65	2,97	3,31	3,92	4,52	5,07	5,67	6,36
Pressure drop	(1)	kPa	41,3	39,3	41,2	37,3	37,6	37,8	61,7	54,0	55,1	53,5
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(3)	l/s	0,48	0,56	0,67	0,75	0,85	1,03	1,18	1,31	1,50	1,72
Pressure drop	(3)	kPa	5,38	7,17	10,3	12,8	16,6	12,0	15,7	19,3	17,9	23,4
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity		N°	2	2	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	7	8	8	9	10	11	12	14	15	19
Oil charge		kg	4	5	5	7	7	7	8	9	12	14
Rc (ASHRAE)	(4)	kg/kW	0,171	0,176	0,153	0,144	0,147	0,129	0,130	0,134	0,128	0,140
FANS												
Quantity		N°	2	2	2	2	2	2	3	4	4	4
Air flow		m³/s	6,50	6,50	6,50	8,46	8,46	8,46	9,88	12,20	12,20	12,20
Fans power input		kW	0,75	0,75	0,75	0,79	0,79	0,79	0,75	0,51	0,51	0,51
NOISE LEVEL												
Noise Pressure	(5)	dB(A)	45	46	46	47	47	47	48	49	50	50
Sound power level in cooling	(6)(7)	dB(A)	77	78	78	79	79	79	80	81	82	82
SIZE AND WEIGHT												
A	(8)	mm	2825	2825	2825	3360	3360	3360	3980	3160	3160	3160
B	(8)	mm	1195	1195	1195	1195	1195	1195	1195	2250	2250	2250
H	(8)	mm	1980	1980	1980	1980	1980	1980	1980	2170	2170	2170
Operating weight	(8)	kg	650	660	670	760	770	780	940	1410	1450	1480

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

GENERAL TECHNICAL DATA NX / SL-CA

[SI System]

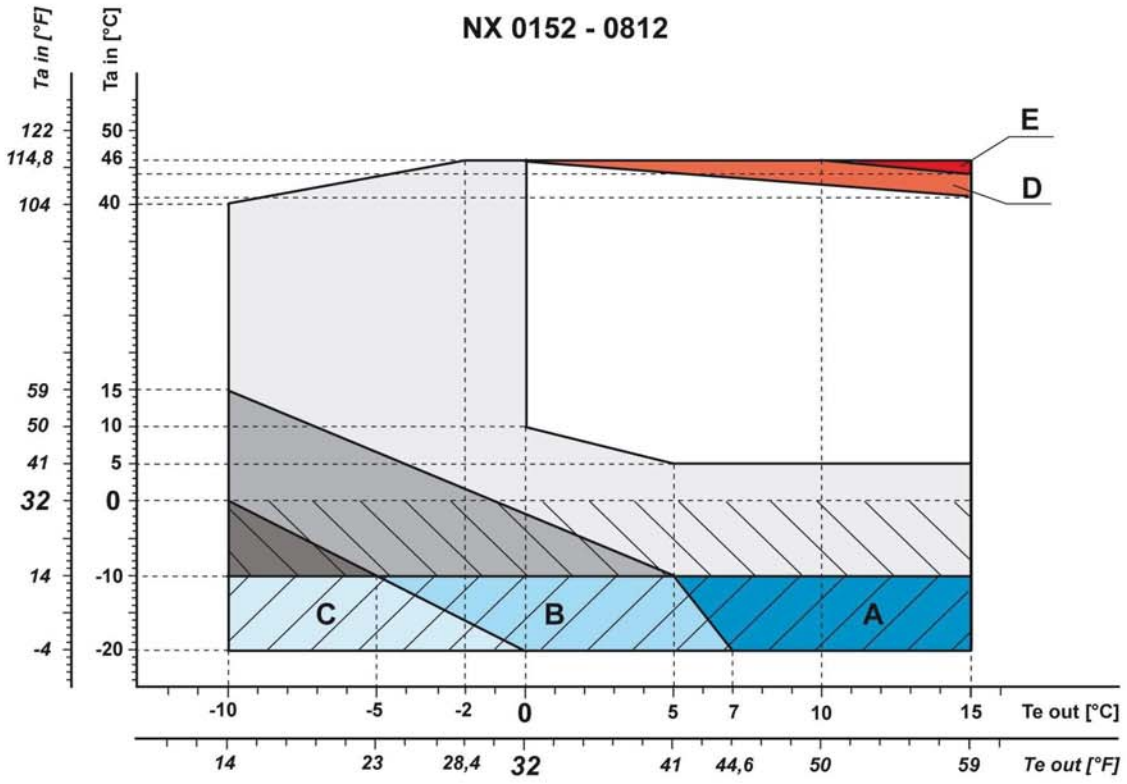
NX / SL-CA			0562P	0612P	0712P	0812P
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE						
COOLING ONLY (GROSS VALUE)						
Cooling capacity	(1)	**kW**	**152**	**172**	**195**	**218**
Total power input	(1)	kW	47,3	52,8	61,6	68,2
EER	(1)	kW/kW	3,21	3,26	3,16	3,19
ESEER	(1)	kW/kW	4,70	4,63	4,72	4,46
COOLING ONLY (EN14511 VALUE)						
Cooling capacity	(1)(2)	**kW**	**151**	**171**	**194**	**216**
EER	(1)(2)	kW/kW	3,13	3,19	3,10	3,12
ESEER	(1)(2)	kW/kW	4,47	4,42	4,51	4,26
Cooling energy class			A	A	A	A
COOLING WITH PARTIAL RECOVERY						
Cooling capacity	(3)	kW	157	179	202	226
Total power input	(3)	kW	45,7	51,1	59,5	65,9
Desuperheater heating capacity	(3)	**kW**	**39,9**	**44,4**	**52,2**	**57,7**
EXCHANGERS						
HEAT EXCHANGER USER SIDE IN REFRIGERATION						
Water flow	(1)	l/s	7,25	8,24	9,32	10,4
Pressure drop	(1)	kPa	57,6	53,3	52,7	65,7
PARTIAL RECOVERY USER SIDE IN REFRIGERATION						
Water flow	(3)	l/s	1,93	2,14	2,52	2,79
Pressure drop	(3)	kPa	19,8	24,6	22,8	27,8
REFRIGERANT CIRCUIT						
Compressors nr.		N°	2	2	2	2
Number of capacity		N°	2	2	2	2
No. Circuits		N°	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A
Refrigerant charge		kg	20	23	26	27
Oil charge		kg	13	13	13	13
Rc (ASHRAE)	(4)	kg/kW	0,134	0,133	0,133	0,126
FANS						
Quantity		N°	5	6	6	7
Air flow		m³/s	15,25	18,30	18,30	21,35
Fans power input		kW	0,51	0,51	0,51	0,51
NOISE LEVEL						
Noise Pressure	(5)	dB(A)	51	52	53	54
Sound power level in cooling	(6)(7)	dB(A)	83	84	85	86
SIZE AND WEIGHT						
A	(8)	mm	4335	4335	4335	5510
B	(8)	mm	2250	2250	2250	2250
H	(8)	mm	2170	2170	2170	2170
Operating weight	(8)	kg	1740	1820	1850	2130

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,0°C/45,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, outdoors.
8 Unit in standard configuration/execution, without optional accessories.
- Unavailable

Certified data in EUROVENT

5.1 OPERATING LIMITS



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

DP device (code 801)
- STD for version K (sizes 402, 452, 502, 552, 602, 702, 802).

DVV device (code 802)
- STD for versions K (sizes 152, 182, 202, 252, 262, 302, 352), LN-K, SL-K, CA, LN-CA, SL-CA.

DVVF device (code 819)

DVV2F device (code 821)

A

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

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

B

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

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

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

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

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

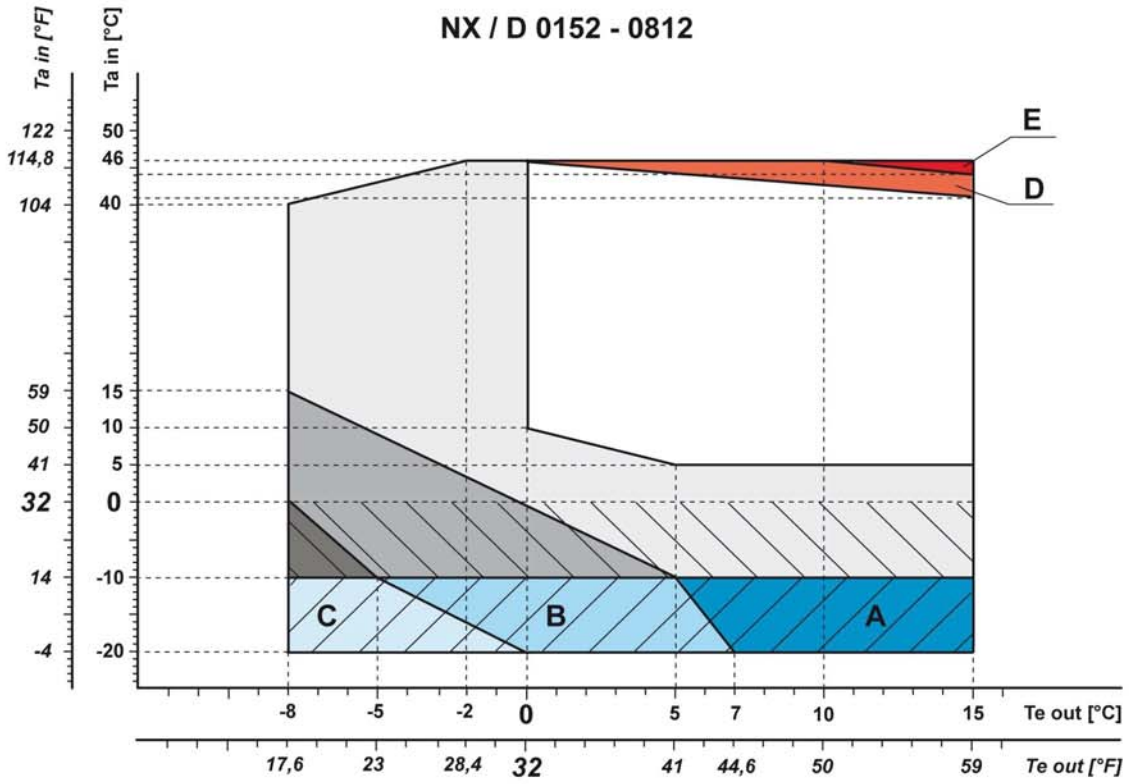
- Antifreeze heaters on pipes, pumps* and buffer tank* (code 2432 o 2433).
(* if present)

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

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

SIZE	
NX /K /0152P	NX /CA /0812P
NX /K /0182P	NX /LN-CA /0152P
NX /K /0202P	NX /LN-CA /0182P
NX /K /0252P	NX /LN-CA /0202P
NX /K /0262P	NX /LN-CA /0252P
NX /K /0302P	NX /LN-CA /0262P
NX /K /0352P	NX /LN-CA /0302P
NX /K /0402P	NX /LN-CA /0352P
NX /K /0452P	NX /LN-CA /0402P
NX /K /0502P	NX /LN-CA /0452P
NX /K /0552P	NX /LN-CA /0502P
NX /K /0602P	NX /LN-CA /0562P
NX /K /0702P	NX /LN-CA /0612P
NX /K /0802P	NX /LN-CA /0712P
NX /LN-K /0152P	NX /LN-CA /0812P
NX /LN-K /0182P	NX /SL-CA /0152P
NX /LN-K /0202P	NX /SL-CA /0182P
NX /LN-K /0252P	NX /SL-CA /0202P
NX /LN-K /0262P	NX /SL-CA /0252P
NX /LN-K /0302P	NX /SL-CA /0262P
NX /LN-K /0352P	NX /SL-CA /0302P
NX /LN-K /0402P	NX /SL-CA /0352P
NX /LN-K /0452P	NX /SL-CA /0412P
NX /LN-K /0502P	NX /SL-CA /0462P
NX /LN-K /0552P	NX /SL-CA /0512P
NX /LN-K /0602P	NX /SL-CA /0562P
NX /LN-K /0702P	NX /SL-CA /0612P
NX /LN-K /0802P	NX /SL-CA /0712P
NX /SL-K /0152P	NX /SL-CA /0812P
NX /SL-K /0182P	
NX /SL-K /0202P	
NX /SL-K /0252P	
NX /SL-K /0262P	
NX /SL-K /0302P	
NX /SL-K /0352P	
NX /SL-K /0402P	
NX /SL-K /0452P	
NX /SL-K /0502P	
NX /SL-K /0552P	
NX /SL-K /0602P	
NX /SL-K /0702P	
NX /CA /0152P	
NX /CA /0182P	
NX /CA /0202P	
NX /CA /0252P	
NX /CA /0262P	
NX /CA /0302P	
NX /CA /0352P	
NX /CA /0402P	
NX /CA /0452P	
NX /CA /0502P	
NX /CA /0562P	
NX /CA /0612P	
NX /CA /0712P	

OPERATING LIMITS



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

DP device (code 801)
- STD for version K (sizes 402, 452, 502, 552, 602, 702, 802).

DVV device (code 802)
- STD for versions K (sizes 152, 182, 202, 252, 262, 302, 352), LN-K, SL-K, CA, LN-CA, SL-CA.

DVVF device (code 819)

DVV2F device (code 821)

A

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

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

B

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

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

C

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

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

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

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

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

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

SIZE	
NX /D /K /0152P	NX /D /CA /0812P
NX /D /K /0182P	NX /D /LN-CA /0152P
NX /D /K /0202P	NX /D /LN-CA /0182P
NX /D /K /0252P	NX /D /LN-CA /0202P
NX /D /K /0262P	NX /D /LN-CA /0252P
NX /D /K /0302P	NX /D /LN-CA /0262P
NX /D /K /0352P	NX /D /LN-CA /0302P
NX /D /K /0402P	NX /D /LN-CA /0352P
NX /D /K /0452P	NX /D /LN-CA /0402P
NX /D /K /0502P	NX /D /LN-CA /0452P
NX /D /K /0552P	NX /D /LN-CA /0502P
NX /D /K /0602P	NX /D /LN-CA /0562P
NX /D /K /0702P	NX /D /LN-CA /0612P
NX /D /K /0802P	NX /D /LN-CA /0712P
NX /D /LN-K /0152P	NX /D /LN-CA /0812P
NX /D /LN-K /0182P	NX /D /SL-CA /0152P
NX /D /LN-K /0202P	NX /D /SL-CA /0182P
NX /D /LN-K /0252P	NX /D /SL-CA /0202P
NX /D /LN-K /0262P	NX /D /SL-CA /0252P
NX /D /LN-K /0302P	NX /D /SL-CA /0262P
NX /D /LN-K /0352P	NX /D /SL-CA /0302P
NX /D /LN-K /0402P	NX /D /SL-CA /0352P
NX /D /LN-K /0452P	NX /D /SL-CA /0412P
NX /D /LN-K /0502P	NX /D /SL-CA /0462P
NX /D /LN-K /0552P	NX /D /SL-CA /0512P
NX /D /LN-K /0602P	NX /D /SL-CA /0562P
NX /D /LN-K /0702P	NX /D /SL-CA /0612P
NX /D /LN-K /0802P	NX /D /SL-CA /0712P
NX /D /SL-K /0152P	NX /D /SL-CA /0812P
NX /D /SL-K /0182P	
NX /D /SL-K /0202P	
NX /D /SL-K /0252P	
NX /D /SL-K /0262P	
NX /D /SL-K /0302P	
NX /D /SL-K /0352P	
NX /D /SL-K /0402P	
NX /D /SL-K /0452P	
NX /D /SL-K /0502P	
NX /D /SL-K /0552P	
NX /D /SL-K /0602P	
NX /D /SL-K /0702P	
NX /D /CA /0152P	
NX /D /CA /0182P	
NX /D /CA /0202P	
NX /D /CA /0252P	
NX /D /CA /0262P	
NX /D /CA /0302P	
NX /D /CA /0352P	
NX /D /CA /0402P	
NX /D /CA /0452P	
NX /D /CA /0502P	
NX /D /CA /0562P	
NX /D /CA /0612P	
NX /D /CA /0712P	

5.2 ETHYLENE GLYCOL MIXTURE

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

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

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

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

5.3 FOULING FACTORS

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

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

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

6.1 HYDRAULIC DATA

[SI System]

Water flow and pressure drop

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

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

SIZE	Power supply V/ph/Hz	HEAT EXCHANGER USER SIDE					HEAT RECOVERY EX. USER SIDE			
		K	Q min l/s	Q max l/s	C.A.S. l	C.a. min l	K	Q min l/s	Q max l/s	C.A.S. l
NX /K /0152P	400/3+N/50	795	1,11	3,39	2,70	104	-	-	-	-
NX /K /0182P	400/3+N/50	587	1,28	3,83	2,90	119	-	-	-	-
NX /K /0202P	400/3+N/50	454	1,50	4,44	3,30	138	-	-	-	-
NX /K /0252P	400/3+N/50	325	1,69	4,83	3,60	156	-	-	-	-
NX /K /0262P	400/3+N/50	265	1,89	4,83	4,05	174	-	-	-	-
NX /K /0302P	400/3+N/50	190	2,25	4,83	4,95	213	-	-	-	-
NX /K /0352P	400/3+N/50	233	2,58	6,11	5,77	242	-	-	-	-
NX /K /0402P	400/3/50	162	3,00	8,67	6,56	270	-	-	-	-
NX /K /0452P	400/3/50	132	3,36	9,75	7,36	305	-	-	-	-
NX /K /0502P	400/3/50	102	3,75	10,9	8,48	345	-	-	-	-
NX /K /0552P	400/3/50	84,5	4,25	10,9	9,44	401	-	-	-	-
NX /K /0602P	400/3/50	60,6	4,89	10,9	11,5	446	-	-	-	-
NX /K /0702P	400/3/50	46,8	5,61	11,9	13,6	503	-	-	-	-
NX /K /0802P	400/3/50	46,8	6,11	11,9	13,6	568	-	-	-	-
NX /D /K /0152P	400/3+N/50	795	1,11	3,39	2,70	104	1767	-	0,75	0,43
NX /D /K /0182P	400/3+N/50	587	1,28	3,83	2,90	119	1767	-	0,86	0,43
NX /D /K /0202P	400/3+N/50	454	1,50	4,44	3,30	138	1767	-	0,97	0,43
NX /D /K /0252P	400/3+N/50	325	1,69	4,83	3,60	156	1767	-	1,06	0,43
NX /D /K /0262P	400/3+N/50	265	1,89	4,83	4,05	174	1767	-	1,19	0,43
NX /D /K /0302P	400/3+N/50	190	2,25	4,83	4,95	213	871	-	1,44	0,61
NX /D /K /0352P	400/3+N/50	233	2,58	6,11	5,77	242	871	-	1,58	0,61
NX /D /K /0402P	400/3/50	162	3,00	8,67	6,56	270	871	-	1,83	0,61
NX /D /K /0452P	400/3/50	132	3,36	9,75	7,36	305	613	-	2,03	0,73
NX /D /K /0502P	400/3/50	102	3,75	10,9	8,48	345	613	-	2,31	0,73
NX /D /K /0552P	400/3/50	84,5	4,25	10,9	9,44	401	412	-	2,69	0,92
NX /D /K /0602P	400/3/50	60,6	4,89	10,9	11,5	446	412	-	3,19	0,92
NX /D /K /0702P	400/3/50	46,8	5,61	11,9	13,6	503	277	-	3,72	1,22
NX /D /K /0802P	400/3/50	46,8	6,11	11,9	13,6	568	277	-	4,36	1,22
NX /LN-K /0152P	400/3+N/50	795	1,11	3,39	2,70	104	-	-	-	-
NX /LN-K /0182P	400/3+N/50	587	1,28	3,83	2,90	119	-	-	-	-
NX /LN-K /0202P	400/3+N/50	454	1,50	4,44	3,30	138	-	-	-	-
NX /LN-K /0252P	400/3+N/50	325	1,69	4,83	3,60	156	-	-	-	-
NX /LN-K /0262P	400/3+N/50	265	1,89	4,83	4,10	174	-	-	-	-
NX /LN-K /0302P	400/3+N/50	190	2,25	4,83	5,00	213	-	-	-	-
NX /LN-K /0352P	400/3/50	233	2,58	6,11	5,80	242	-	-	-	-
NX /LN-K /0402P	400/3/50	162	3,00	8,67	6,60	270	-	-	-	-
NX /LN-K /0452P	400/3/50	132	3,36	9,75	7,40	305	-	-	-	-
NX /LN-K /0502P	400/3/50	102	3,75	10,9	8,50	345	-	-	-	-
NX /LN-K /0552P	400/3/50	84,5	4,25	10,9	9,40	401	-	-	-	-
NX /LN-K /0602P	400/3/50	60,6	4,89	10,9	11,5	446	-	-	-	-
NX /LN-K /0702P	400/3/50	46,8	5,61	11,9	13,6	503	-	-	-	-
NX /LN-K /0802P	400/3/50	46,8	6,11	11,9	13,6	568	-	-	-	-

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

HYDRAULIC DATA

[SI System]

SIZE	Power supply V/ph/Hz	HEAT EXCHANGER USER SIDE					HEAT RECOVERY EX. USER SIDE			
		K	Q min l/s	Q max l/s	C.A.S. l	C.a. min l	K	Q min l/s	Q max l/s	C.A.S. l
NX /D /LN-K /0152P	400/3+N/50	795	1,11	3,39	2,70	104	1767	-	0,75	0,43
NX /D /LN-K /0182P	400/3+N/50	587	1,28	3,83	2,90	119	1767	-	0,86	0,43
NX /D /LN-K /0202P	400/3+N/50	454	1,50	4,44	3,30	138	1767	-	0,97	0,43
NX /D /LN-K /0252P	400/3+N/50	325	1,69	4,83	3,60	156	1767	-	1,06	0,43
NX /D /LN-K /0262P	400/3+N/50	265	1,89	4,83	4,10	174	1767	-	1,19	0,43
NX /D /LN-K /0302P	400/3+N/50	190	2,25	4,83	5,00	213	871	-	1,44	0,61
NX /D /LN-K /0352P	400/3/50	233	2,58	6,11	5,80	242	871	-	1,58	0,61
NX /D /LN-K /0402P	400/3/50	162	3,00	8,67	6,60	270	871	-	1,83	0,61
NX /D /LN-K /0452P	400/3/50	132	3,36	9,75	7,40	305	613	-	2,03	0,73
NX /D /LN-K /0502P	400/3/50	102	3,75	10,9	8,50	345	613	-	2,31	0,73
NX /D /LN-K /0552P	400/3/50	84,5	4,25	10,9	9,40	401	412	-	2,69	0,92
NX /D /LN-K /0602P	400/3/50	60,6	4,89	10,9	11,5	446	412	-	3,19	0,92
NX /D /LN-K /0702P	400/3/50	46,8	5,61	11,9	13,6	503	277	-	3,72	1,22
NX /D /LN-K /0802P	400/3/50	46,8	6,11	11,9	13,6	568	277	-	4,36	1,22
NX /SL-K /0152P	400/3+N/50	795	1,11	3,39	2,70	104	-	-	-	-
NX /SL-K /0182P	400/3+N/50	587	1,28	3,83	2,90	119	-	-	-	-
NX /SL-K /0202P	400/3+N/50	454	1,50	4,44	3,30	138	-	-	-	-
NX /SL-K /0252P	400/3/50	325	1,69	4,83	3,60	156	-	-	-	-
NX /SL-K /0262P	400/3/50	265	1,89	4,83	4,10	174	-	-	-	-
NX /SL-K /0302P	400/3/50	190	2,25	4,83	5,00	213	-	-	-	-
NX /SL-K /0352P	400/3/50	233	2,58	6,11	5,80	242	-	-	-	-
NX /SL-K /0402P	400/3/50	162	3,00	8,67	6,60	270	-	-	-	-
NX /SL-K /0452P	400/3/50	132	3,36	9,75	7,40	305	-	-	-	-
NX /SL-K /0502P	400/3/50	102	3,75	10,9	8,50	345	-	-	-	-
NX /SL-K /0552P	400/3/50	84,5	4,25	10,9	9,40	401	-	-	-	-
NX /SL-K /0602P	400/3/50	60,6	4,89	10,9	11,5	446	-	-	-	-
NX /SL-K /0702P	400/3/50	46,8	5,61	11,9	13,6	503	-	-	-	-
NX /D /SL-K /0152P	400/3+N/50	795	1,11	3,39	2,70	104	1767	-	0,75	0,43
NX /D /SL-K /0182P	400/3+N/50	587	1,28	3,83	2,90	119	1767	-	0,86	0,43
NX /D /SL-K /0202P	400/3+N/50	454	1,50	4,44	3,30	138	1767	-	0,97	0,43
NX /D /SL-K /0252P	400/3/50	325	1,69	4,83	3,60	156	1767	-	1,06	0,43
NX /D /SL-K /0262P	400/3/50	265	1,89	4,83	4,10	174	1767	-	1,19	0,43
NX /D /SL-K /0302P	400/3/50	190	2,25	4,83	5,00	213	871	-	1,44	0,61
NX /D /SL-K /0352P	400/3/50	233	2,58	6,11	5,80	242	871	-	1,58	0,61
NX /D /SL-K /0402P	400/3/50	162	3,00	8,67	6,60	270	871	-	1,83	0,61
NX /D /SL-K /0452P	400/3/50	132	3,36	9,75	7,40	305	613	-	2,03	0,73
NX /D /SL-K /0502P	400/3/50	102	3,75	10,9	8,50	345	613	-	2,31	0,73
NX /D /SL-K /0552P	400/3/50	84,5	4,25	10,9	9,40	401	412	-	2,69	0,92
NX /D /SL-K /0602P	400/3/50	60,6	4,89	10,9	11,5	446	412	-	3,19	0,92
NX /D /SL-K /0702P	400/3/50	46,8	5,61	11,9	13,6	503	277	-	3,72	1,22
NX /CA /0152P	400/3+N/50	795	1,11	3,39	2,70	104	-	-	-	-
NX /CA /0182P	400/3+N/50	587	1,28	3,83	2,90	119	-	-	-	-
NX /CA /0202P	400/3+N/50	454	1,50	4,44	3,30	138	-	-	-	-
NX /CA /0252P	400/3+N/50	325	1,69	4,83	3,60	156	-	-	-	-
NX /CA /0262P	400/3+N/50	265	1,89	4,83	4,10	174	-	-	-	-
NX /CA /0302P	400/3/50	190	2,25	4,83	5,00	213	-	-	-	-
NX /CA /0352P	400/3/50	233	2,58	6,11	5,80	242	-	-	-	-
NX /CA /0402P	400/3/50	162	3,00	8,67	6,60	270	-	-	-	-
NX /CA /0452P	400/3/50	132	3,36	9,75	7,40	305	-	-	-	-
NX /CA /0502P	400/3/50	102	3,75	10,9	8,50	345	-	-	-	-

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

CLIMAVENETA
A Group Company of MITSUBISHI ELECTRIC

HYDRAULIC DATA

[SI System]

SIZE	Power supply V/ph/Hz	HEAT EXCHANGER USER SIDE					HEAT RECOVERY EX. USER SIDE			
		K	Q min l/s	Q max l/s	C.A.S. l	C.a. min l	K	Q min l/s	Q max l/s	C.A.S. l
NX /CA /0562P	400/3/50	84,5	4,25	10,9	9,40	401	-	-	-	-
NX /CA /0612P	400/3/50	60,6	4,89	10,9	11,5	446	-	-	-	-
NX /CA /0712P	400/3/50	46,8	5,61	11,9	13,6	503	-	-	-	-
NX /CA /0812P	400/3/50	46,8	6,11	11,9	13,6	568	-	-	-	-
NX /D /CA /0152P	400/3+N/50	795	1,11	3,39	2,70	104	1767	-	0,75	0,43
NX /D /CA /0182P	400/3+N/50	587	1,28	3,83	2,90	119	1767	-	0,86	0,43
NX /D /CA /0202P	400/3+N/50	454	1,50	4,44	3,30	138	1767	-	0,97	0,43
NX /D /CA /0252P	400/3+N/50	325	1,69	4,83	3,60	156	1767	-	1,06	0,43
NX /D /CA /0262P	400/3+N/50	265	1,89	4,83	4,10	174	1767	-	1,19	0,43
NX /D /CA /0302P	400/3/50	190	2,25	4,83	5,00	213	871	-	1,44	0,61
NX /D /CA /0352P	400/3/50	233	2,58	6,11	5,80	242	871	-	1,58	0,61
NX /D /CA /0402P	400/3/50	162	3,00	8,67	6,60	270	871	-	1,83	0,61
NX /D /CA /0452P	400/3/50	132	3,36	9,75	7,40	305	613	-	2,03	0,73
NX /D /CA /0502P	400/3/50	102	3,75	10,9	8,50	345	613	-	2,31	0,73
NX /D /CA /0562P	400/3/50	84,5	4,25	10,9	9,40	401	412	-	2,69	0,92
NX /D /CA /0612P	400/3/50	60,6	4,89	10,9	11,5	446	412	-	3,19	0,92
NX /D /CA /0712P	400/3/50	46,8	5,61	11,9	13,6	503	277	-	3,72	1,22
NX /D /CA /0812P	400/3/50	46,8	6,11	11,9	13,6	568	277	-	4,36	1,22
NX /LN-CA /0152P	400/3+N/50	795	1,11	3,39	2,70	104	-	-	-	-
NX /LN-CA /0182P	400/3+N/50	587	1,28	3,83	2,90	119	-	-	-	-
NX /LN-CA /0202P	400/3+N/50	454	1,50	4,44	3,30	138	-	-	-	-
NX /LN-CA /0252P	400/3/50	325	1,69	4,83	3,60	156	-	-	-	-
NX /LN-CA /0262P	400/3/50	265	1,89	4,83	4,10	174	-	-	-	-
NX /LN-CA /0302P	400/3/50	190	2,25	4,83	5,00	213	-	-	-	-
NX /LN-CA /0352P	400/3/50	233	2,58	6,11	5,80	242	-	-	-	-
NX /LN-CA /0402P	400/3/50	162	3,00	8,67	6,60	270	-	-	-	-
NX /LN-CA /0452P	400/3/50	132	3,36	9,75	7,40	305	-	-	-	-
NX /LN-CA /0502P	400/3/50	102	3,75	10,9	8,50	345	-	-	-	-
NX /LN-CA /0562P	400/3/50	84,5	4,25	10,9	9,40	401	-	-	-	-
NX /LN-CA /0612P	400/3/50	60,6	4,89	10,9	11,5	446	-	-	-	-
NX /LN-CA /0712P	400/3/50	46,8	5,61	11,9	13,6	503	-	-	-	-
NX /LN-CA /0812P	400/3/50	46,8	6,11	11,9	13,6	568	-	-	-	-
NX /D /LN-CA /0152P	400/3+N/50	795	1,11	3,39	2,70	104	1767	-	0,75	0,43
NX /D /LN-CA /0182P	400/3+N/50	587	1,28	3,83	2,90	119	1767	-	0,86	0,43
NX /D /LN-CA /0202P	400/3+N/50	454	1,50	4,44	3,30	138	1767	-	0,97	0,43
NX /D /LN-CA /0252P	400/3/50	325	1,69	4,83	3,60	156	1767	-	1,06	0,43
NX /D /LN-CA /0262P	400/3/50	265	1,89	4,83	4,10	174	1767	-	1,19	0,43
NX /D /LN-CA /0302P	400/3/50	190	2,25	4,83	5,00	213	871	-	1,44	0,61
NX /D /LN-CA /0352P	400/3/50	233	2,58	6,11	5,80	242	871	-	1,58	0,61
NX /D /LN-CA /0402P	400/3/50	162	3,00	8,67	6,60	270	871	-	1,83	0,61
NX /D /LN-CA /0452P	400/3/50	132	3,36	9,75	7,40	305	613	-	2,03	0,73
NX /D /LN-CA /0502P	400/3/50	102	3,75	10,9	8,50	345	613	-	2,31	0,73
NX /D /LN-CA /0562P	400/3/50	84,5	4,25	10,9	9,40	401	412	-	2,69	0,92
NX /D /LN-CA /0612P	400/3/50	60,6	4,89	10,9	11,5	446	412	-	3,19	0,92
NX /D /LN-CA /0712P	400/3/50	46,8	5,61	11,9	13,6	503	277	-	3,72	1,22
NX /D /LN-CA /0812P	400/3/50	46,8	6,11	11,9	13,6	568	277	-	4,36	1,22
NX /SL-CA /0152P	400/3/50	795	1,11	3,39	2,70	104	-	-	-	-
NX /SL-CA /0182P	400/3/50	587	1,28	3,83	2,90	119	-	-	-	-
NX /SL-CA /0202P	400/3/50	454	1,50	4,44	3,30	138	-	-	-	-
NX /SL-CA /0252P	400/3/50	325	1,69	4,83	3,60	156	-	-	-	-

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

HYDRAULIC DATA

[SI System]

SIZE	Power supply V/ph/Hz	HEAT EXCHANGER USER SIDE					HEAT RECOVERY EX. USER SIDE			
		K	Q min l/s	Q max l/s	C.A.S. l	C.a. min l	K	Q min l/s	Q max l/s	C.A.S. l
NX /SL-CA /0262P	400/3/50	265	1,89	4,83	4,10	174	-	-	-	-
NX /SL-CA /0302P	400/3/50	190	2,25	4,83	5,00	213	-	-	-	-
NX /SL-CA /0352P	400/3/50	233	2,58	6,11	5,80	242	-	-	-	-
NX /SL-CA /0412P	400/3/50	162	3,00	8,67	6,60	270	-	-	-	-
NX /SL-CA /0462P	400/3/50	132	3,36	9,75	7,40	305	-	-	-	-
NX /SL-CA /0512P	400/3/50	102	3,75	10,9	8,50	345	-	-	-	-
NX /SL-CA /0562P	400/3/50	84,5	4,25	10,9	9,40	401	-	-	-	-
NX /SL-CA /0612P	400/3/50	60,6	4,89	10,9	11,5	446	-	-	-	-
NX /SL-CA /0712P	400/3/50	46,8	5,61	11,9	13,6	503	-	-	-	-
NX /SL-CA /0812P	400/3/50	46,8	6,11	11,9	13,6	568	-	-	-	-
NX /D /SL-CA /0152P	400/3/50	795	1,11	3,39	2,70	104	1767	-	0,75	0,43
NX /D /SL-CA /0182P	400/3/50	587	1,28	3,83	2,90	119	1767	-	0,86	0,43
NX /D /SL-CA /0202P	400/3/50	454	1,50	4,44	3,30	138	1767	-	0,97	0,43
NX /D /SL-CA /0252P	400/3/50	325	1,69	4,83	3,60	156	1767	-	1,06	0,43
NX /D /SL-CA /0262P	400/3/50	265	1,89	4,83	4,10	174	1767	-	1,19	0,43
NX /D /SL-CA /0302P	400/3/50	190	2,25	4,83	5,00	213	871	-	1,44	0,61
NX /D /SL-CA /0352P	400/3/50	233	2,58	6,11	5,80	242	871	-	1,58	0,61
NX /D /SL-CA /0412P	400/3/50	162	3,00	8,67	6,60	270	871	-	1,83	0,61
NX /D /SL-CA /0462P	400/3/50	132	3,36	9,75	7,40	305	613	-	2,03	0,73
NX /D /SL-CA /0512P	400/3/50	102	3,75	10,9	8,50	345	613	-	2,31	0,73
NX /D /SL-CA /0562P	400/3/50	84,5	4,25	10,9	9,40	401	412	-	2,69	0,92
NX /D /SL-CA /0612P	400/3/50	60,6	4,89	10,9	11,5	446	412	-	3,19	0,92
NX /D /SL-CA /0712P	400/3/50	46,8	5,61	11,9	13,6	503	277	-	3,72	1,22
NX /D /SL-CA /0812P	400/3/50	46,8	6,11	11,9	13,6	568	277	-	4,36	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

7.1 ELECTRICAL DATA NX / K

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0152P	400/3+N/50	2	2 x 8,6	2 x 13,9	2 x 101	0,25	1	17,9	31	118
0182P	400/3+N/50	2	2 x 9,9	2 x 17,1	2 x 128	0,25	1	20,6	38	148
0202P	400/3+N/50	2	2 x 11,6	2 x 20,1	2 x 139	0,25	1	24,1	45	163
0252P	400/3+N/50	2	2 x 13,2	2 x 22,6	2 x 118	0,25	1	27,4	50	145
0262P	400/3+N/50	2	2 x 14,4	2 x 25,5	2 x 140	0,25	1	29,8	55	170
0302P	400/3+N/50	2	2 x 17	2 x 30,5	2 x 173	0,25	1	35,5	68	210
0352P	400/3+N/50	2	1 x 17 + 1 x 22,3	1 x 30,5 + 1 x 36,1	1 x 173 + 1 x 225	0,25	1	40,8	73	262
0402P	400/3/50	2	2 x 22,3	2 x 36,1	2 x 225	2,00	4	48,6	80	269
0452P	400/3/50	2	1 x 22,3 + 1 x 27,4	1 x 36,1 + 1 x 45,8	1 x 225 + 1 x 272	2,00	4	53,7	90	316
0502P	400/3/50	2	2 x 27,4	2 x 45,8	2 x 272	2,00	4	58,8	99	326
0552P	400/3/50	2	1 x 27,4 + 1 x 35,8	1 x 45,8+1 x 58,9	1 x 272 + 1 x 310	2,00	4	67,2	113	364
0602P	400/3/50	2	2 x 35,8	2 x 58,9	2 x 310	2,00	4	77,6	130	381
0702P	400/3/50	2	2 x 42,9	2 x 70,4	2 x 267	2,00	4	91,8	153	349
0802P	400/3/50	2	2 x 46,4	2 x 75,6	2 x 298	2,00	4	98,8	163	385

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

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

Electrical data valid for standard units without any additional option

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

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

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

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

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

ELECTRICAL DATA NX / LN-K

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0152P	400/3+N/50	2	2 x 8,6	2 x 13,9	2 x 101	0,16	1	17,8	30	117
0182P	400/3+N/50	2	2 x 9,9	2 x 17,1	2 x 128	0,16	1	20,5	37	148
0202P	400/3+N/50	2	2 x 11,6	2 x 20,1	2 x 139	0,25	1	24,1	45	163
0252P	400/3+N/50	2	2 x 13,2	2 x 22,6	2 x 118	0,16	1	27,4	49	144
0262P	400/3+N/50	2	2 x 14,4	2 x 25,5	2 x 140	0,16	1	29,8	55	169
0302P	400/3+N/50	2	2 x 17	2 x 30,5	2 x 173	0,16	1	35,0	65	207
0352P	400/3/50	2	1 x 17 + 1 x 22,3	1 x 30,5 + 1 x 36,1	1 x 173 + 1 x 225	2,00	4	43,3	74	263
0402P	400/3/50	2	2 x 22,3	2 x 36,1	2 x 225	2,00	4	48,6	80	269
0452P	400/3/50	2	1 x 22,3 + 1 x 27,4	1 x 36,1 + 1 x 45,8	1 x 225 + 1 x 272	1,84	4	53,4	89	316
0502P	400/3/50	2	2 x 27,4	2 x 45,8	2 x 272	1,84	4	58,5	99	325
0552P	400/3/50	2	1 x 27,4 + 1 x 35,8	1 x 45,8+1 x 58,9	1 x 272 + 1 x 310	1,84	4	66,9	112	363
0602P	400/3/50	2	2 x 35,8	2 x 58,9	2 x 310	2,00	4	77,6	130	381
0702P	400/3/50	2	2 x 42,9	2 x 70,4	2 x 267	2,00	4	91,8	153	349
0802P	400/3/50	2	2 x 46,4	2 x 75,6	2 x 298	2,00	4	98,8	163	385

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

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

Electrical data valid for standard units without any additional option

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

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

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

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

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

ELECTRICAL DATA NX / SL-K

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0152P	400/3+N/50	2	2 x 8,6	2 x 13,9	2 x 101	0,16	1	18,1	32	119
0182P	400/3+N/50	2	2 x 9,9	2 x 17,1	2 x 128	0,16	1	20,8	38	149
0202P	400/3+N/50	2	2 x 11,6	2 x 20,1	2 x 139	0,16	1	24,1	44	163
0252P	400/3/50	2	2 x 13,2	2 x 22,6	2 x 118	1,20	4	28,8	53	148
0262P	400/3/50	2	2 x 14,4	2 x 25,5	2 x 140	1,20	4	31,2	59	173
0302P	400/3/50	2	2 x 17	2 x 30,5	2 x 173	1,20	4	36,4	69	211
0352P	400/3/50	2	1 x 17 + 1 x 22,3	1 x 30,5 + 1 x 36,1	1 x 173 + 1 x 225	1,15	2	41,6	71	260
0402P	400/3/50	2	2 x 22,3	2 x 36,1	2 x 225	1,15	2	46,9	77	266
0452P	400/3/50	2	1 x 22,3 + 1 x 27,4	1 x 36,1 + 1 x 45,8	1 x 225 + 1 x 272	1,20	4	52,1	90	316
0502P	400/3/50	2	2 x 27,4	2 x 45,8	2 x 272	1,20	4	58,4	103	330
0552P	400/3/50	2	1 x 27,4 + 1 x 35,8	1 x 45,8+1 x 58,9	1 x 272 + 1 x 310	1,20	4	66,8	116	368
0602P	400/3/50	2	2 x 35,8	2 x 58,9	2 x 310	1,20	4	75,2	130	381
0702P	400/3/50	2	2 x 42,9	2 x 70,4	2 x 267	2,00	4	91,8	153	349

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

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

Electrical data valid for standard units without any additional option

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

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

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

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

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

ELECTRICAL DATA NX / CA

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0152P	400/3+N/50	2	2 x 8,6	2 x 13,9	2 x 101	0,25	1	18,1	32	119
0182P	400/3+N/50	2	2 x 9,9	2 x 17,1	2 x 128	0,25	1	20,8	39	150
0202P	400/3+N/50	2	2 x 11,6	2 x 20,1	2 x 139	0,25	1	24,6	47	166
0252P	400/3+N/50	2	2 x 13,2	2 x 22,6	2 x 118	0,25	1	27,9	52	147
0262P	400/3+N/50	2	2 x 14,4	2 x 25,5	2 x 140	0,25	1	30,3	58	172
0302P	400/3/50	2	2 x 17	2 x 30,5	2 x 173	2,00	4	38,0	69	211
0352P	400/3/50	2	1 x 17 + 1 x 22,3	1 x 30,5 + 1 x 36,1	1 x 173 + 1 x 225	2,00	4	43,3	74	263
0402P	400/3/50	2	2 x 22,3	2 x 36,1	2 x 225	1,84	4	48,3	80	269
0452P	400/3/50	2	1 x 22,3 + 1 x 27,4	1 x 36,1 + 1 x 45,8	1 x 225 + 1 x 272	1,84	4	53,4	89	316
0502P	400/3/50	2	2 x 27,4	2 x 45,8	2 x 272	2,00	4	60,8	103	330
0562P	400/3/50	2	1 x 27,4 + 1 x 35,8	1 x 45,8+1 x 58,9	1 x 272 + 1 x 310	2,00	4	71,2	121	372
0612P	400/3/50	2	2 x 35,8	2 x 58,9	2 x 310	2,00	4	79,6	134	385
0712P	400/3/50	2	1 x 35,8 + 1 x 44,7	1 x 58,9 + 1 x 73,3	1 x 310 + 1 x 394	2,00	4	88,5	149	469
0812P	400/3/50	2	2 x 44,7	2 x 73,3	2 x 394	2,00	4	99,4	167	488

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

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

Electrical data valid for standard units without any additional option

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

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

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

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

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

ELECTRICAL DATA

NX / LN-CA

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0152P	400/3+N/50	2	2 x 8,6	2 x 13,9	2 x 101	0,16	1	18,1	32	119
0182P	400/3+N/50	2	2 x 9,9	2 x 17,1	2 x 128	0,16	1	20,8	38	149
0202P	400/3+N/50	2	2 x 11,6	2 x 20,1	2 x 139	0,16	1	24,1	44	163
0252P	400/3/50	2	2 x 13,2	2 x 22,6	2 x 118	2,00	4	30,4	53	148
0262P	400/3/50	2	2 x 14,4	2 x 25,5	2 x 140	2,00	4	32,8	59	173
0302P	400/3/50	2	2 x 17	2 x 30,5	2 x 173	2,00	4	38,0	69	211
0352P	400/3/50	2	1 x 17 + 1 x 22,3	1 x 30,5 + 1 x 36,1	1 x 173 + 1 x 225	1,84	4	43,0	74	263
0402P	400/3/50	2	2 x 22,3	2 x 36,1	2 x 225	2,00	4	50,6	84	273
0452P	400/3/50	2	1 x 22,3 + 1 x 27,4	1 x 36,1 + 1 x 45,8	1 x 225 + 1 x 272	2,00	4	53,7	90	316
0502P	400/3/50	2	2 x 27,4	2 x 45,8	2 x 272	2,00	4	60,8	103	330
0562P	400/3/50	2	1 x 27,4 + 1 x 35,8	1 x 45,8+1 x 58,9	1 x 272 + 1 x 310	0,93	2	66,9	114	365
0612P	400/3/50	2	2 x 35,8	2 x 58,9	2 x 310	0,93	2	75,3	127	378
0712P	400/3/50	2	1 x 35,8 + 1 x 44,7	1 x 58,9 + 1 x 73,3	1 x 310 + 1 x 394	0,93	2	85,2	144	464
0812P	400/3/50	2	2 x 44,7	2 x 73,3	2 x 394	0,93	2	95,0	160	481

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

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

Electrical data valid for standard units without any additional option

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

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

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

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

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

ELECTRICAL DATA

NX / SL-CA

[SI System]

SIZE	Power supply V/ph/Hz	Maximum values								
		Compressor				Fans (1)		Total (1)(2)		
		n	F.L.I. [kW]	F.L.A. [A]	L.R.A. [A]	F.L.I. [kW]	F.L.A. [A]	F.L.I. [kW]	F.L.A. [A]	S.A. [A]
0152P	400/3/50	2	2 x 8,6	2 x 13,9	2 x 101	1,20	4	19,5	36	123
0182P	400/3/50	2	2 x 9,9	2 x 17,1	2 x 128	1,20	4	22,2	42	153
0202P	400/3/50	2	2 x 11,6	2 x 20,1	2 x 139	1,20	4	25,5	48	167
0252P	400/3/50	2	2 x 13,2	2 x 22,6	2 x 118	1,15	2	28,7	50	145
0262P	400/3/50	2	2 x 14,4	2 x 25,5	2 x 140	1,15	2	31,1	56	170
0302P	400/3/50	2	2 x 17	2 x 30,5	2 x 173	1,15	2	36,3	66	208
0352P	400/3/50	2	1 x 17 + 1 x 22,3	1 x 30,5 + 1 x 36,1	1 x 173 + 1 x 225	1,20	4	42,9	78	267
0412P	400/3/50	2	2 x 22,3	2 x 36,1	2 x 225	0,93	2	48,3	81	270
0462P	400/3/50	2	1 x 22,3 + 1 x 27,4	1 x 36,1 + 1 x 45,8	1 x 225 + 1 x 272	0,93	2	53,4	91	317
0512P	400/3/50	2	2 x 27,4	2 x 45,8	2 x 272	0,93	2	58,5	101	327
0562P	400/3/50	2	1 x 27,4 + 1 x 35,8	1 x 45,8+1 x 58,9	1 x 272 + 1 x 310	0,93	2	67,9	116	367
0612P	400/3/50	2	2 x 35,8	2 x 58,9	2 x 310	0,93	2	77,2	132	383
0712P	400/3/50	2	1 x 35,8 + 1 x 44,7	1 x 58,9 + 1 x 73,3	1 x 310 + 1 x 394	0,93	2	86,1	146	467
0812P	400/3/50	2	2 x 44,7	2 x 73,3	2 x 394	0,93	2	95,9	163	483

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

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

Electrical data valid for standard units without any additional option

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

Voltage tolerance: 10%
Maximum voltage unbalance: 3%

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

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

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

8.1 FULL LOAD SOUND LEVEL NX / K

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0152P	84	84	80	79	79	76	68	56	**83**
0182P	84	84	80	79	79	76	68	56	**83**
0202P	85	85	81	80	80	77	69	57	**84**
0252P	85	85	81	80	80	77	69	57	**84**
0262P	85	85	81	80	80	77	69	57	**84**
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	90	90	86	85	85	82	74	62	**89**
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) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
Sound power on the basis of measurements made in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0152P	52	52	48	47	47	44	36	24	**51**
0182P	52	52	48	47	47	44	36	24	**51**
0202P	53	53	49	48	48	45	37	25	**52**
0252P	53	53	49	48	48	45	37	25	**52**
0262P	53	53	49	48	48	45	37	25	**52**
0302P	54	54	50	49	49	46	38	26	**53**
0352P	55	55	51	50	50	47	39	27	**54**
0402P	57	57	53	52	52	49	41	29	**56**
0452P	57	57	53	52	52	49	41	29	**56**
0502P	57	57	53	52	52	49	41	29	**56**
0552P	58	58	54	53	53	50	42	30	**57**
0602P	59	59	55	54	54	51	43	31	**58**
0702P	59	59	55	54	54	51	43	31	**58**
0802P	60	60	56	55	55	52	44	32	**59**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0152P	80	80	77	76	75	71	65	50	**79**
0182P	80	80	77	76	75	71	65	50	**79**
0202P	80	80	77	76	75	71	65	50	**79**
0252P	81	81	78	77	76	72	66	51	**80**
0262P	81	81	78	77	76	72	66	51	**80**
0302P	81	81	78	77	76	72	66	51	**80**
0352P	85	83	84	83	77	72	66	60	**83**
0402P	85	83	84	83	77	72	66	60	**83**
0452P	86	84	85	84	78	73	67	61	**84**
0502P	86	84	85	84	78	73	67	61	**84**
0552P	86	84	85	84	78	73	67	61	**84**
0602P	87	85	86	85	79	74	68	62	**85**
0702P	87	85	86	85	79	74	68	62	**85**
0802P	87	85	86	85	79	74	68	62	**85**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
Sound power on the basis of measurements made in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0152P	48	48	45	44	43	39	33	18	**47**
0182P	48	48	45	44	43	39	33	18	**47**
0202P	48	48	45	44	43	39	33	18	**47**
0252P	49	49	46	45	44	40	34	19	**48**
0262P	49	49	46	45	44	40	34	19	**48**
0302P	49	49	46	45	44	40	34	19	**48**
0352P	53	51	52	51	45	40	34	28	**51**
0402P	53	51	52	51	45	40	34	28	**51**
0452P	54	52	53	52	46	41	35	29	**52**
0502P	54	52	53	52	46	41	35	29	**52**
0552P	54	52	53	52	46	41	35	29	**52**
0602P	55	53	54	53	47	42	36	30	**53**
0702P	55	53	54	53	47	42	36	30	**53**
0802P	55	53	54	53	47	42	36	30	**53**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0152P	81	79	77	74	71	66	60	56	**76**
0182P	82	80	78	75	72	67	61	57	**77**
0202P	82	80	78	75	72	67	61	57	**77**
0252P	83	81	79	76	73	68	62	58	**78**
0262P	83	81	79	76	73	68	62	58	**78**
0302P	83	81	79	76	73	68	62	58	**78**
0352P	84	82	80	77	74	69	63	59	**79**
0402P	85	83	81	78	75	70	64	60	**80**
0452P	85	84	82	79	76	71	65	61	**81**
0502P	85	84	82	79	76	71	65	61	**81**
0552P	87	85	83	81	76	72	66	62	**82**
0602P	87	85	83	81	76	72	66	62	**82**
0702P	88	86	84	82	76	73	67	63	**83**

Working conditions

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

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

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

Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0152P	49	47	45	42	39	34	28	24	**44**
0182P	50	48	46	43	40	35	29	25	**45**
0202P	50	48	46	43	40	35	29	25	**45**
0252P	51	49	47	44	41	36	30	26	**46**
0262P	51	49	47	44	41	36	30	26	**46**
0302P	51	49	47	44	41	36	30	26	**46**
0352P	52	50	48	45	42	37	31	27	**47**
0402P	53	51	49	46	43	38	32	28	**48**
0452P	53	52	50	47	44	39	33	29	**49**
0502P	53	52	50	47	44	39	33	29	**49**
0552P	55	53	51	49	44	40	34	30	**50**
0602P	55	53	51	49	44	40	34	30	**50**
0702P	56	54	52	50	44	41	35	31	**51**

Working conditions

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

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

FULL LOAD SOUND LEVEL

NX / CA

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0152P	85	85	81	80	80	77	69	57	**84**
0182P	85	85	81	80	80	77	69	57	**84**
0202P	86	86	82	81	81	78	70	58	**85**
0252P	86	86	82	81	81	78	70	58	**85**
0262P	87	87	83	82	82	79	71	59	**86**
0302P	89	89	85	84	84	81	73	61	**88**
0352P	89	89	85	84	84	81	73	61	**88**
0402P	91	91	87	86	86	83	75	63	**90**
0452P	91	91	87	86	86	83	75	63	**90**
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) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
Sound power on the basis of measurements made in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0152P	53	53	49	48	48	45	37	25	**52**
0182P	53	53	49	48	48	45	37	25	**52**
0202P	54	54	50	49	49	46	38	26	**53**
0252P	54	54	50	49	49	46	38	26	**53**
0262P	55	55	51	50	50	47	39	27	**54**
0302P	57	57	53	52	52	49	41	29	**56**
0352P	57	57	53	52	52	49	41	29	**56**
0402P	59	59	55	54	54	51	43	31	**58**
0452P	59	59	55	54	54	51	43	31	**58**
0502P	59	59	55	54	54	51	43	31	**58**
0562P	60	60	56	55	55	52	44	32	**59**
0612P	60	60	56	55	55	52	44	32	**59**
0712P	61	61	57	56	56	53	45	33	**60**
0812P	62	62	58	57	57	54	46	34	**61**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0152P	81	81	78	77	76	72	66	51	**80**
0182P	81	81	78	77	76	72	66	51	**80**
0202P	81	81	78	77	76	72	66	51	**80**
0252P	83	81	82	81	75	70	64	58	**81**
0262P	83	81	82	81	75	70	64	58	**81**
0302P	84	82	83	82	76	71	65	59	**82**
0352P	86	84	85	84	78	73	67	61	**84**
0402P	86	84	85	84	78	73	67	61	**84**
0452P	86	84	85	84	78	73	67	61	**84**
0502P	87	85	86	85	79	74	68	62	**85**
0562P	88	86	87	86	80	75	69	63	**86**
0612P	88	86	87	86	80	75	69	63	**86**
0712P	89	87	88	87	81	76	70	64	**87**
0812P	90	88	89	88	82	77	71	65	**88**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
Sound power on the basis of measurements made in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0152P	49	49	46	45	44	40	34	19	**48**
0182P	49	49	46	45	44	40	34	19	**48**
0202P	49	49	46	45	44	40	34	19	**48**
0252P	51	49	50	49	43	38	32	26	**49**
0262P	51	49	50	49	43	38	32	26	**49**
0302P	52	50	51	50	44	39	33	27	**50**
0352P	54	52	53	52	46	41	35	29	**52**
0402P	54	52	53	52	46	41	35	29	**52**
0452P	54	52	53	52	46	41	35	29	**52**
0502P	55	53	54	53	47	42	36	30	**53**
0562P	56	54	55	54	48	43	37	31	**54**
0612P	56	54	55	54	48	43	37	31	**54**
0712P	57	55	56	55	49	44	38	32	**55**
0812P	58	56	57	56	50	45	39	33	**56**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

SOUND POWER									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound power level dB								
0152P	82	80	78	75	72	67	61	57	**77**
0182P	83	81	79	76	73	68	62	58	**78**
0202P	83	81	79	76	73	68	62	58	**78**
0252P	84	82	80	77	74	69	63	59	**79**
0262P	84	82	80	77	74	69	63	59	**79**
0302P	84	82	80	77	74	69	63	59	**79**
0352P	85	83	81	78	75	70	64	60	**80**
0412P	85	84	82	79	76	71	65	61	**81**
0462P	87	85	83	81	76	72	66	62	**82**
0512P	87	85	83	81	76	72	66	62	**82**
0562P	88	86	84	82	76	73	67	63	**83**
0612P	89	87	85	83	77	74	68	64	**84**
0712P	89	88	86	84	79	74	68	64	**85**
0812P	89	89	87	85	80	75	69	64	**86**

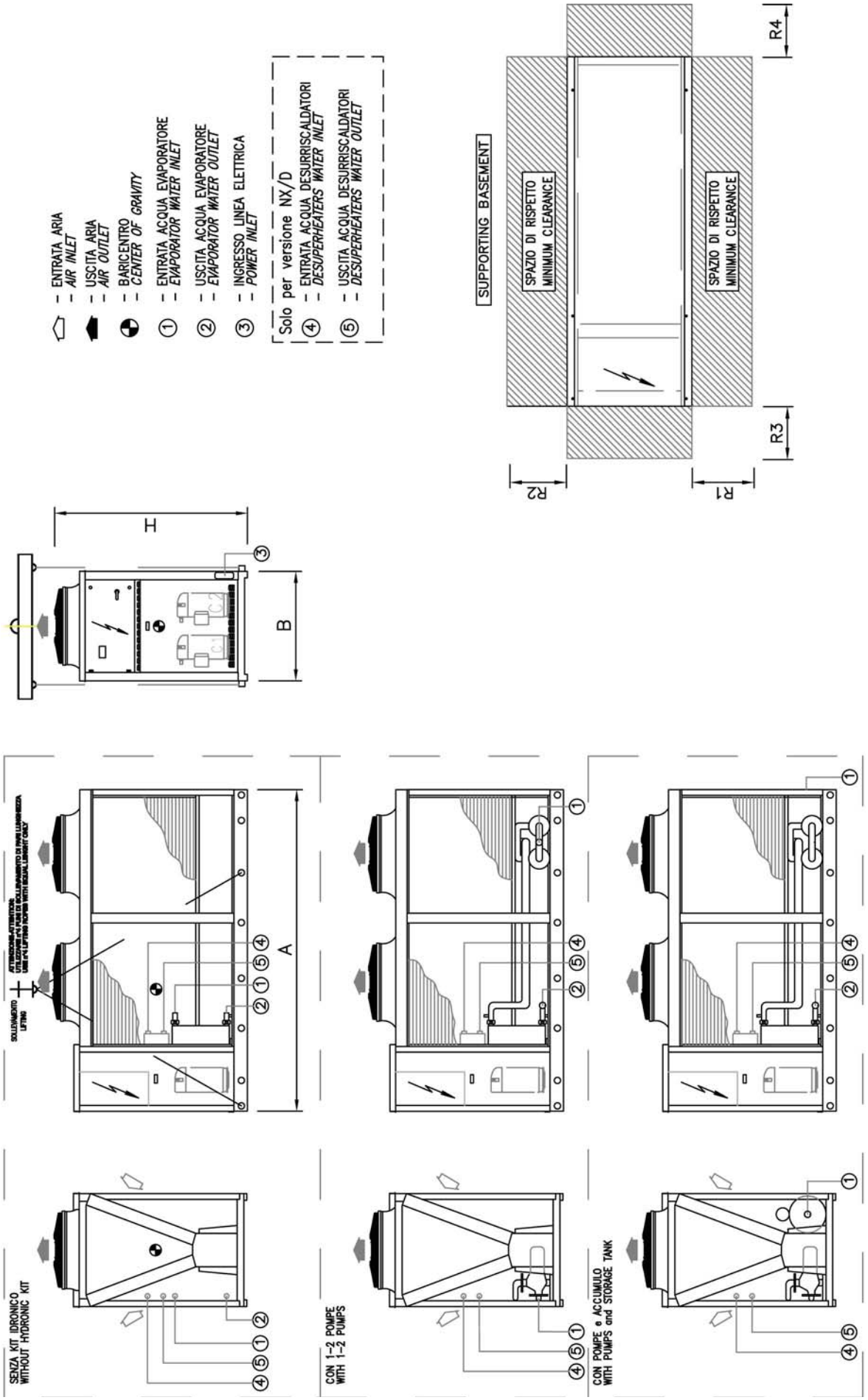
Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
Sound power on the basis of measurements made in compliance with ISO 9614.
Such certification refers specifically to the sound Power Level in dB(A). This is therefore the only acoustic data to be considered as binding.
Sound power level in cooling, outdoors.

SOUND PRESSURE LEVEL									
SIZE	Octave band [Hz]								Total sound level dB(A)
	63	125	250	500	1000	2000	4000	8000	
	Sound pressure level dB								
0152P	50	48	46	43	40	35	29	25	**45**
0182P	51	49	47	44	41	36	30	26	**46**
0202P	51	49	47	44	41	36	30	26	**46**
0252P	52	50	48	45	42	37	31	27	**47**
0262P	52	50	48	45	42	37	31	27	**47**
0302P	52	50	48	45	42	37	31	27	**47**
0352P	53	51	49	46	43	38	32	28	**48**
0412P	53	52	50	47	44	39	33	29	**49**
0462P	55	53	51	49	44	40	34	30	**50**
0512P	55	53	51	49	44	40	34	30	**50**
0562P	56	54	52	50	44	41	35	31	**51**
0612P	57	55	53	51	45	42	36	32	**52**
0712P	57	56	54	52	47	42	36	32	**53**
0812P	57	57	55	53	48	43	37	32	**54**

Working conditions

Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger air (in) 35,0°C.
Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.



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

DIMENSIONAL DRAWINGS

NX 0152P - 0812P

[SI System]

SIZE	DIMENSIONS AND WEIGHTS				CLEARANCE				HEAT EXCHANGER USER SIDE		HEAT RECOVERY EX. USER SIDE	
	A	B	H	VEIGH	R1	R2	R3	R4	IN/OUT		IN/OUT	
	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	TYPE	Ø	TYPE	Ø
NX /K /0152P	1825	1195	1865	470	1000	1000	1000	1000	F	1"1/2	-	-
NX /K /0182P	1825	1195	1865	480	1000	1000	1000	1000	F	1"1/2	-	-
NX /K /0202P	1825	1195	1865	490	1000	1000	1000	1000	F	1"1/2	-	-
NX /K /0252P	2395	1195	1865	540	1000	1000	1000	1000	F	1"1/2	-	-
NX /K /0262P	2395	1195	1865	550	1000	1000	1000	1000	F	1"1/2	-	-
NX /K /0302P	2395	1195	1865	570	1000	1000	1000	1000	F	2"	-	-
NX /K /0352P	2395	1195	1865	660	1000	1000	1000	1000	F	2"	-	-
NX /K /0402P	2825	1195	1980	830	1000	1000	1000	1000	F	2"1/2	-	-
NX /K /0452P	2825	1195	1980	870	1000	1000	1000	1000	F	2"1/2	-	-
NX /K /0502P	2825	1195	1980	900	1000	1000	1000	1000	F	2"1/2	-	-
NX /K /0552P	3360	1195	1980	980	1000	1000	1000	1000	F	2"1/2	-	-
NX /K /0602P	3980	1195	1980	1130	1000	1000	1000	1000	F	2"1/2	-	-
NX /K /0702P	3980	1195	1980	1110	1000	1000	1000	1000	F	2"1/2	-	-
NX /K /0802P	3980	1195	1980	1140	1000	1000	1000	1000	F	2"1/2	-	-
NX /D /K /0152P	1825	1195	1865	470	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /K /0182P	1825	1195	1865	480	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /K /0202P	1825	1195	1865	490	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /K /0252P	2395	1195	1865	540	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /K /0262P	2395	1195	1865	550	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /K /0302P	2395	1195	1865	570	1000	1000	1000	1000	F	2"	B	1" 1/4
NX /D /K /0352P	2395	1195	1865	660	1000	1000	1000	1000	F	2"	B	1" 1/4
NX /D /K /0402P	2825	1195	1980	830	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /K /0452P	2825	1195	1980	870	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /K /0502P	2825	1195	1980	900	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /K /0552P	3360	1195	1980	980	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /K /0602P	3980	1195	1980	1130	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /K /0702P	3980	1195	1980	1110	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /K /0802P	3980	1195	1980	1140	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /LN-K /0152P	1825	1195	1865	480	1000	1000	1000	1000	F	1"1/2	-	-
NX /LN-K /0182P	1825	1195	1865	500	1000	1000	1000	1000	F	1"1/2	-	-
NX /LN-K /0202P	2395	1195	1865	540	1000	1000	1000	1000	F	1"1/2	-	-
NX /LN-K /0252P	2395	1195	1865	570	1000	1000	1000	1000	F	1"1/2	-	-
NX /LN-K /0262P	2395	1195	1865	570	1000	1000	1000	1000	F	1"1/2	-	-
NX /LN-K /0302P	2395	1195	1865	580	1000	1000	1000	1000	F	2"	-	-
NX /LN-K /0352P	2825	1195	1980	780	1000	1000	1000	1000	F	2"	-	-
NX /LN-K /0402P	2825	1195	1980	880	1000	1000	1000	1000	F	2"1/2	-	-
NX /LN-K /0452P	3360	1195	1980	1000	1000	1000	1000	1000	F	2"1/2	-	-
NX /LN-K /0502P	3360	1195	1980	1030	1000	1000	1000	1000	F	2"1/2	-	-
NX /LN-K /0552P	3360	1195	1980	1060	1000	1000	1000	1000	F	2"1/2	-	-
NX /LN-K /0602P	3980	1195	1980	1180	1000	1000	1000	1000	F	2"1/2	-	-
NX /LN-K /0702P	3980	1195	1980	1150	1000	1000	1000	1000	F	2"1/2	-	-
NX /LN-K /0802P	3980	1195	1980	1180	1000	1000	1000	1000	F	2"1/2	-	-
NX /D /LN-K /0152P	1825	1195	1865	480	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /LN-K /0182P	1825	1195	1865	500	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /LN-K /0202P	2395	1195	1865	540	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /LN-K /0252P	2395	1195	1865	570	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /LN-K /0262P	2395	1195	1865	570	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /LN-K /0302P	2395	1195	1865	580	1000	1000	1000	1000	F	2"	B	1" 1/4
NX /D /LN-K /0352P	2825	1195	1980	780	1000	1000	1000	1000	F	2"	B	1" 1/4
NX /D /LN-K /0402P	2825	1195	1980	880	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /LN-K /0452P	3360	1195	1980	1000	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /LN-K /0502P	3360	1195	1980	1030	1000	1000	1000	1000	F	2"1/2	B	1" 1/4

DIMENSIONAL DRAWINGS

NX 0152P - 0812P

[SI System]

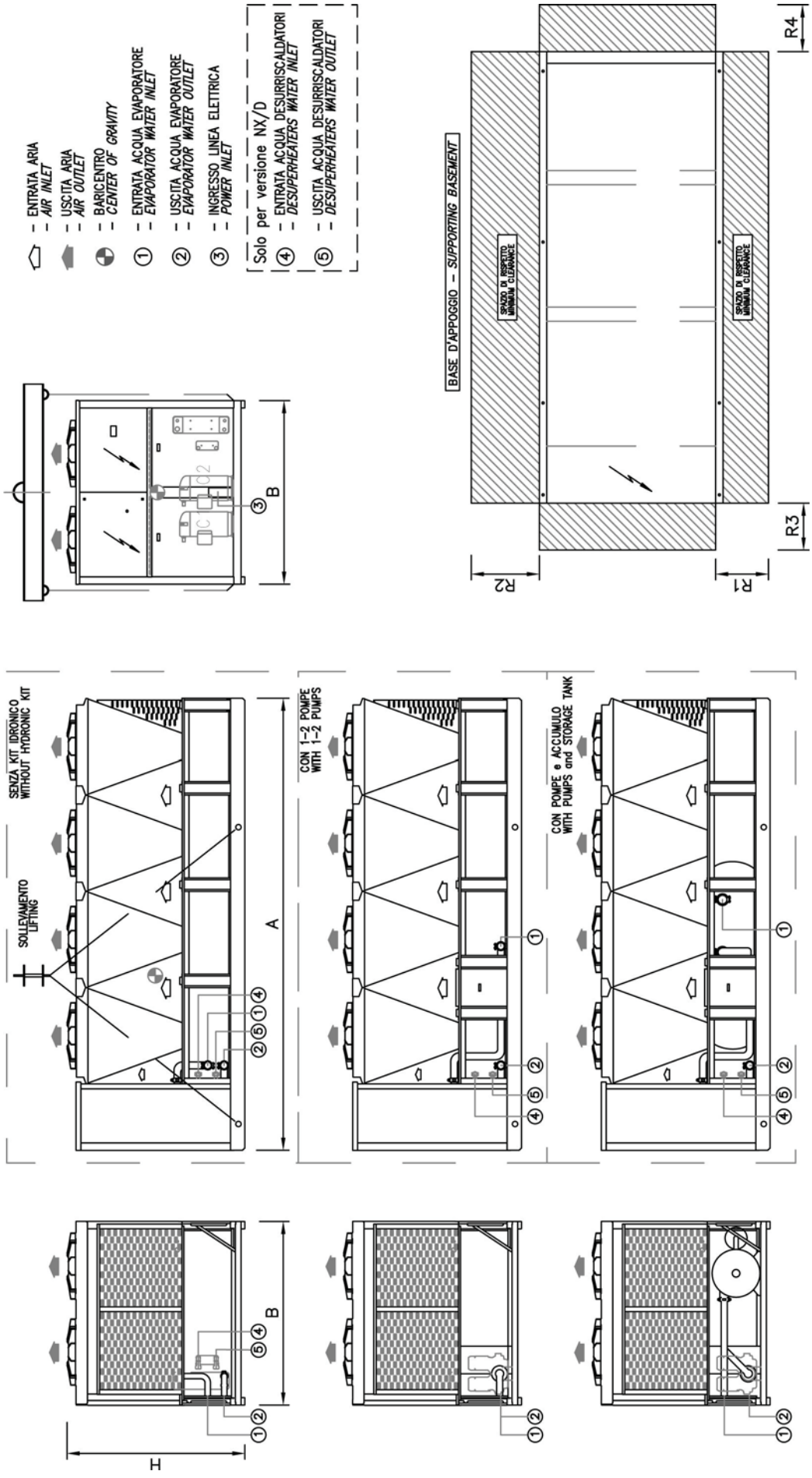
SIZE	DIMENSIONS AND WEIGHTS				CLEARANCE				HEAT EXCHANGER USER SIDE		HEAT RECOVERY EX. USER SIDE	
	A	B	H	VEIGH	R1	R2	R3	R4	IN/OUT		IN/OUT	
	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	TYPE	Ø	TYPE	Ø
NX /D /LN-K /0552P	3360	1195	1980	1060	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /LN-K /0602P	3980	1195	1980	1180	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /LN-K /0702P	3980	1195	1980	1150	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /LN-K /0802P	3980	1195	1980	1180	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /SL-K /0152P	2395	1195	1865	540	1000	1000	1000	1000	F	1"1/2	-	-
NX /SL-K /0182P	2395	1195	1865	550	1000	1000	1000	1000	F	1"1/2	-	-
NX /SL-K /0202P	2395	1195	1865	560	1000	1000	1000	1000	F	1"1/2	-	-
NX /SL-K /0252P	2825	1195	1980	670	1000	1000	1000	1000	F	1"1/2	-	-
NX /SL-K /0262P	2825	1195	1980	680	1000	1000	1000	1000	F	1"1/2	-	-
NX /SL-K /0302P	2825	1195	1980	680	1000	1000	1000	1000	F	2"	-	-
NX /SL-K /0352P	3360	1195	1980	860	1000	1000	1000	1000	F	2"	-	-
NX /SL-K /0402P	3360	1195	1980	960	1000	1000	1000	1000	F	2"1/2	-	-
NX /SL-K /0452P	3980	1195	1980	1070	1000	1000	1000	1000	F	2"1/2	-	-
NX /SL-K /0502P	3980	1195	1980	1080	1000	1000	1000	1000	F	2"1/2	-	-
NX /SL-K /0552P	3980	1195	1980	1110	1000	1000	1000	1000	F	2"1/2	-	-
NX /SL-K /0602P	3980	1195	1980	1180	1000	1000	1000	1000	F	2"1/2	-	-
NX /SL-K /0702P	3980	1195	1980	1150	1000	1000	1000	1000	F	2"1/2	-	-
NX /D /SL-K /0152P	2395	1195	1865	540	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /SL-K /0182P	2395	1195	1865	550	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /SL-K /0202P	2395	1195	1865	560	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /SL-K /0252P	2825	1195	1980	670	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /SL-K /0262P	2825	1195	1980	680	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /SL-K /0302P	2825	1195	1980	680	1000	1000	1000	1000	F	2"	B	1" 1/4
NX /D /SL-K /0352P	3360	1195	1980	860	1000	1000	1000	1000	F	2"	B	1" 1/4
NX /D /SL-K /0402P	3360	1195	1980	960	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /SL-K /0452P	3980	1195	1980	1070	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /SL-K /0502P	3980	1195	1980	1080	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /SL-K /0552P	3980	1195	1980	1110	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /SL-K /0602P	3980	1195	1980	1180	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /SL-K /0702P	3980	1195	1980	1150	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /CA /0152P	1825	1195	1865	480	1000	1000	1000	1000	F	1"1/2	-	-
NX /CA /0182P	2395	1195	1865	540	1000	1000	1000	1000	F	1"1/2	-	-
NX /CA /0202P	2395	1195	1865	550	1000	1000	1000	1000	F	1"1/2	-	-
NX /CA /0252P	2395	1195	1865	560	1000	1000	1000	1000	F	1"1/2	-	-
NX /CA /0262P	2395	1195	1865	570	1000	1000	1000	1000	F	1"1/2	-	-
NX /CA /0302P	2825	1195	1980	680	1000	1000	1000	1000	F	2"	-	-
NX /CA /0352P	3360	1195	1980	830	1000	1000	1000	1000	F	2"	-	-
NX /CA /0402P	3360	1195	1980	960	1000	1000	1000	1000	F	2"1/2	-	-
NX /CA /0452P	3360	1195	1980	1000	1000	1000	1000	1000	F	2"1/2	-	-
NX /CA /0502P	3980	1195	1980	1080	1000	1000	1000	1000	F	2"1/2	-	-
NX /D /CA /0152P	1825	1195	1865	480	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /CA /0182P	2395	1195	1865	540	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /CA /0202P	2395	1195	1865	550	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /CA /0252P	2395	1195	1865	560	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /CA /0262P	2395	1195	1865	570	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /CA /0302P	2825	1195	1980	680	1000	1000	1000	1000	F	2"	B	1" 1/4
NX /D /CA /0352P	3360	1195	1980	830	1000	1000	1000	1000	F	2"	B	1" 1/4
NX /D /CA /0402P	3360	1195	1980	960	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /CA /0452P	3360	1195	1980	1000	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /CA /0502P	3980	1195	1980	1080	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /LN-CA /0152P	2395	1195	1865	550	1000	1000	1000	1000	F	1"1/2	B	-
NX /LN-CA /0182P	2395	1195	1865	560	1000	1000	1000	1000	F	1"1/2	B	-

DIMENSIONAL DRAWINGS

NX 0152P - 0812P

[SI System]

SIZE	DIMENSIONS AND WEIGHTS				CLEARANCE				HEAT EXCHANGER USER SIDE		HEAT RECOVERY EX. USER SIDE	
	A	B	H	VEIGHT	R1	R2	R3	R4	IN/OUT		IN/OUT	
	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	TYPE	Ø	TYPE	Ø
NX /LN-CA /0202P	2395	1195	1865	560	1000	1000	1000	1000	F	1"1/2	-	-
NX /LN-CA /0252P	2825	1195	1980	670	1000	1000	1000	1000	F	1"1/2	-	-
NX /LN-CA /0262P	2825	1195	1980	680	1000	1000	1000	1000	F	1"1/2	-	-
NX /LN-CA /0302P	3360	1195	1980	750	1000	1000	1000	1000	F	2"	-	-
NX /LN-CA /0352P	3360	1195	1980	870	1000	1000	1000	1000	F	2"	-	-
NX /LN-CA /0402P	3980	1195	1980	1050	1000	1000	1000	1000	F	2"1/2	-	-
NX /LN-CA /0452P	3980	1195	1980	1080	1000	1000	1000	1000	F	2"1/2	-	-
NX /LN-CA /0502P	3980	1195	1980	1090	1000	1000	1000	1000	F	2"1/2	-	-
NX /D /LN-CA /0152P	2395	1195	1865	550	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /LN-CA /0182P	2395	1195	1865	560	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /LN-CA /0202P	2395	1195	1865	560	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /LN-CA /0252P	2825	1195	1980	670	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /LN-CA /0262P	2825	1195	1980	680	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /LN-CA /0302P	3360	1195	1980	750	1000	1000	1000	1000	F	2"	B	1" 1/4
NX /D /LN-CA /0352P	3360	1195	1980	870	1000	1000	1000	1000	F	2"	B	1" 1/4
NX /D /LN-CA /0402P	3980	1195	1980	1050	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /LN-CA /0452P	3980	1195	1980	1080	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /D /LN-CA /0502P	3980	1195	1980	1090	1000	1000	1000	1000	F	2"1/2	B	1" 1/4
NX /SL-CA /0152P	2825	1195	1980	650	1000	1000	1000	1000	F	1"1/2	-	-
NX /SL-CA /0182P	2825	1195	1980	660	1000	1000	1000	1000	F	1"1/2	-	-
NX /SL-CA /0202P	2825	1195	1980	670	1000	1000	1000	1000	F	1"1/2	-	-
NX /SL-CA /0252P	3360	1195	1980	760	1000	1000	1000	1000	F	1"1/2	-	-
NX /SL-CA /0262P	3360	1195	1980	770	1000	1000	1000	1000	F	1"1/2	-	-
NX /SL-CA /0302P	3360	1195	1980	780	1000	1000	1000	1000	F	2"	-	-
NX /SL-CA /0352P	3980	1195	1980	940	1000	1000	1000	1000	F	2"	-	-
NX /D /SL-CA /0152P	2825	1195	1980	650	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /SL-CA /0182P	2825	1195	1980	660	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /SL-CA /0202P	2825	1195	1980	670	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /SL-CA /0252P	3360	1195	1980	760	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /SL-CA /0262P	3360	1195	1980	770	1000	1000	1000	1000	F	1"1/2	B	1" 1/4
NX /D /SL-CA /0302P	3360	1195	1980	780	1000	1000	1000	1000	F	2"	B	1" 1/4
NX /D /SL-CA /0352P	3980	1195	1980	940	1000	1000	1000	1000	F	2"	B	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. CLIMAVENETA may modify them at any moment."

DIMENSIONAL DRAWINGS

NX 0152P - 0812P

[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 /CA /0562P	3160	2250	2170	1510	1500	2300	1500	1500	F	2"1/2	-	-
NX /CA /0612P	3160	2250	2170	1550	1500	2300	1500	1500	F	2"1/2	-	-
NX /CA /0712P	3160	2250	2170	1570	1500	2300	1500	1500	F	2"1/2	-	-
NX /CA /0812P	4335	2250	2170	1810	1500	2300	1500	1500	F	2"1/2	-	-
NX /D /CA /0562P	3160	2250	2170	1510	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /CA /0612P	3160	2250	2170	1550	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /CA /0712P	3160	2250	2170	1570	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /CA /0812P	4335	2250	2170	1810	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /LN-CA /0562P	3160	2250	2170	1510	1500	2300	1500	1500	F	2"1/2	-	-
NX /LN-CA /0612P	3160	2250	2170	1550	1500	2300	1500	1500	F	2"1/2	-	-
NX /LN-CA /0712P	4335	2250	2170	1810	1500	2300	1500	1500	F	2"1/2	-	-
NX /LN-CA /0812P	4335	2250	2170	1870	1500	2300	1500	1500	F	2"1/2	-	-
NX /D /LN-CA /0562P	3160	2250	2170	1510	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /LN-CA /0612P	3160	2250	2170	1550	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /LN-CA /0712P	4335	2250	2170	1810	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /LN-CA /0812P	4335	2250	2170	1870	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /SL-CA /0412P	3160	2250	2170	1410	1500	2300	1500	1500	F	2"1/2	-	-
NX /SL-CA /0462P	3160	2250	2170	1450	1500	2300	1500	1500	F	2"1/2	-	-
NX /SL-CA /0512P	3160	2250	2170	1480	1500	2300	1500	1500	F	2"1/2	-	-
NX /SL-CA /0562P	4335	2250	2170	1740	1500	2300	1500	1500	F	2"1/2	-	-
NX /SL-CA /0612P	4335	2250	2170	1820	1500	2300	1500	1500	F	2"1/2	-	-
NX /SL-CA /0712P	4335	2250	2170	1850	1500	2300	1500	1500	F	2"1/2	-	-
NX /SL-CA /0812P	5510	2250	2170	2130	1500	2300	1500	1500	F	2"1/2	-	-
NX /D /SL-CA /0412P	3160	2250	2170	1410	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /SL-CA /0462P	3160	2250	2170	1450	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /SL-CA /0512P	3160	2250	2170	1480	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /SL-CA /0562P	4335	2250	2170	1740	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /SL-CA /0612P	4335	2250	2170	1820	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /SL-CA /0712P	4335	2250	2170	1850	1500	2300	1500	1500	F	2"1/2	B	1" 1/4
NX /D /SL-CA /0812P	5510	2250	2170	2130	1500	2300	1500	1500	F	2"1/2	B	1" 1/4

LEGEND OF PIPE CONNECTIONS

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

LEGEND OF PIPE CONNECTIONS

UNI ISO 228/1

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

Used terminology:

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

UNI EN 10226-1

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

Used terminology:

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

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

Notes:

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

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

10.1 HYDRONIC GROUP

The hydronic group 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

Each of the components of the hydraulic group has been designed to optimise hydraulic and electrical installation space,
time and costs.
The hydronic group is protected by a special casing ventilating (versions LN and SL).
In case of twin 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 Horizontal-V structure includes in-line pumps.

10.2 BUFFER TANK

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

10.3 END-SUCTION PUMP SPECIFICATION

low or high head pump

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.

10.4 IN-LINE PUMP SPECIFICATION

Low or high head pump

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

10.5 SPECIAL PUMPS

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

10.6 OTHER COMPONENTS

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

Possible configuration

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

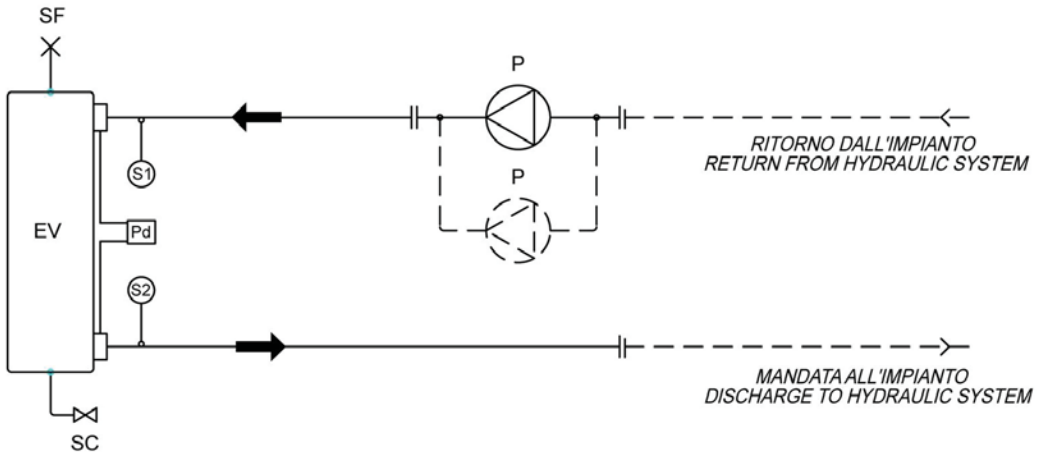
Storage tank combinations

	Version	ACCUMULATION Capacity [l]
0152P	CA	90
	K	
	LN-K	
	LN-CA	140
	SL-CA	
	SL-K	
0182P	CA	140
	LN-CA	
	SL-CA	
	SL-K	
	K	90
	LN-K	
0202P	CA	140
	LN-CA	
	LN-K	
	SL-CA	
	SL-K	
	K	90
0252P	CA	140
	K	
	LN-CA	
	LN-K	
	SL-K	
	SL-CA	200
0262P	CA	140
	K	
	LN-CA	
	LN-K	
	SL-K	
	SL-CA	200
0302P	CA	140
	K	
	LN-K	
	SL-K	
	LN-CA	200

HYDRONIC GROUP

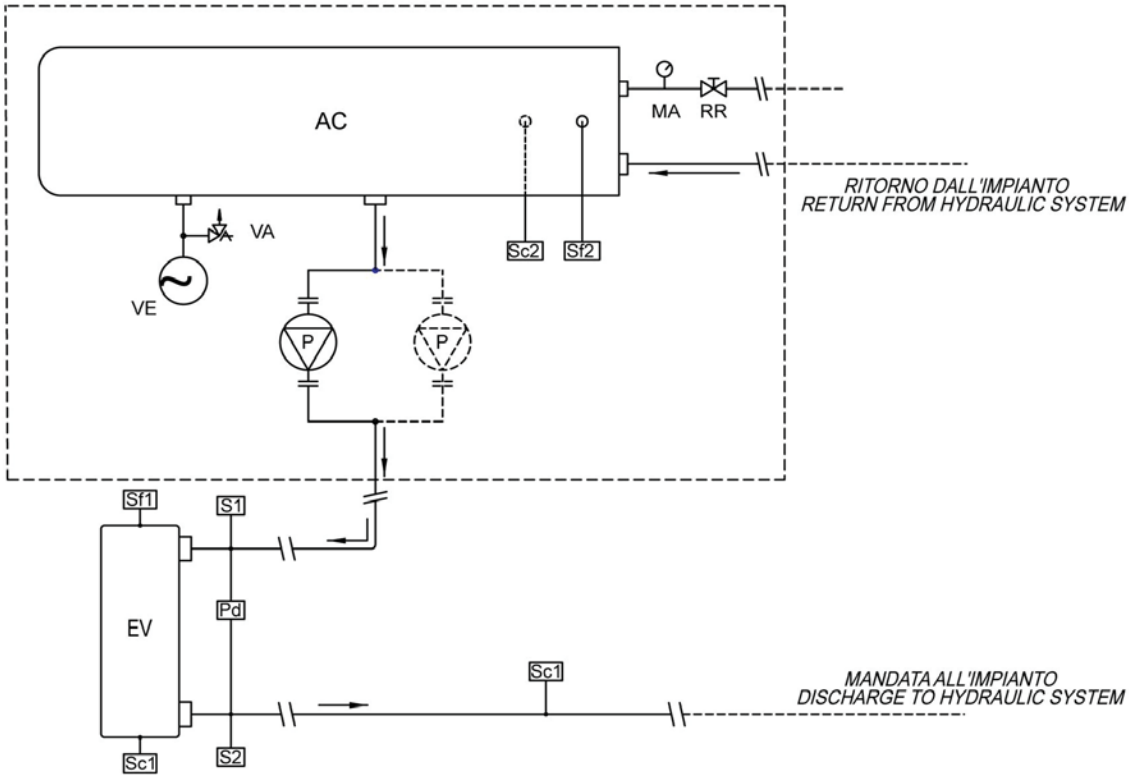
	Version	ACCUMULATION Capacity [l]
0302P	SL-CA	200
0352P	CA	200
	LN-CA	
	SL-K	
	K	140
	LN-K	
	SL-CA	250
0402P	CA	200
	SL-K	
	K	140
	LN-K	
	LN-CA	250
0412P	SL-CA	500
0452P	CA	200
	LN-K	
	K	140
	LN-CA	250
	SL-K	
0462P	SL-CA	500
0502P	CA	250
	LN-CA	
	SL-K	
	K	140
	LN-K	200
0512P	SL-CA	500
0552P	K	200
	LN-K	
	SL-K	250
0562P	CA	500
	LN-CA	
	SL-CA	
0602P	K	250
	LN-K	
	SL-K	
0612P	CA	500
	LN-CA	
	SL-CA	
0702P	K	250
	LN-K	
	SL-K	
0712P	CA	500
	LN-CA	
	SL-CA	
0802P	K	250
	LN-K	
0812P	CA	500
	LN-CA	
	SL-CA	

Schema idraulico gruppo idronico
Hydraulic diagram



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

Schema idraulico gruppo idronico con accumulo
Hydraulic diagram with water tank



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

HYDRONIC GROUP

Hydronic kit positioning

	Version	KIT IDRONICO - 1 POMPA 2P BP + ACC (3152)				KIT IDRONICO - 1 POMPA 2P AP + ACC (3153)				KIT IDRONICO - 2 POMPE 2P BP + ACC (3155)				KIT IDRONICO - 2 POMPE 2P AP + ACC (3156)			
		extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]
0152P	CA	/	/	/	240	/	/	/	240	/	/	/	240	/	/	/	240
	K	/	/	/	240	/	/	/	240	/	/	/	240	/	/	/	240
	LN-CA	/	/	/	310	/	/	/	310	/	/	/	310	/	/	/	310
	LN-K	/	/	/	250	/	/	/	250	/	/	/	250	/	/	/	250
	SL-CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	SL-K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
0182P	CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	K	/	/	/	240	/	/	/	240	/	/	/	240	/	/	/	240
	LN-CA	/	/	/	310	/	/	/	310	/	/	/	310	/	/	/	310
	LN-K	/	/	/	240	/	/	/	240	/	/	/	240	/	/	/	240
	SL-CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	SL-K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
0202P	CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	K	/	/	/	250	/	/	/	250	/	/	/	250	/	/	/	250
	LN-CA	/	/	/	310	/	/	/	310	/	/	/	310	/	/	/	310
	LN-K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	SL-CA	/	/	/	210	/	/	/	210	/	/	/	210	/	/	/	210
	SL-K	/	/	/	310	/	/	/	310	/	/	/	310	/	/	/	310
0252P	CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	LN-CA	/	/	/	330	/	/	/	330	/	/	/	330	/	/	/	330
	LN-K	/	/	/	310	/	/	/	310	/	/	/	310	/	/	/	310
	SL-CA	/	/	/	410	/	/	/	410	/	/	/	410	/	/	/	410
	SL-K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
0262P	CA	/	/	/	310	/	/	/	310	/	/	/	310	/	/	/	310
	K	/	/	/	310	/	/	/	310	/	/	/	310	/	/	/	310
	LN-CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	LN-K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	SL-CA	/	/	/	410	/	/	/	410	/	/	/	410	/	/	/	410
	SL-K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
0302P	CA	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	LN-CA	/	/	/	410	/	/	/	410	/	/	/	410	/	/	/	410
	LN-K	/	/	/	320	/	/	/	320	/	/	/	320	/	/	/	320
	SL-CA	/	/	/	400	/	/	/	400	/	/	/	400	/	/	/	400
	SL-K	/	/	/	330	/	/	/	330	/	/	/	330	/	/	/	330
0352P	CA	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
	K	/	/	/	380	/	/	/	380	/	/	/	380	/	/	/	380
	LN-CA	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
	LN-K	/	/	/	380	/	/	/	380	/	/	/	380	/	/	/	380
	SL-CA	/	/	/	560	/	/	/	560	/	/	/	560	/	/	/	560
	SL-K	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
0402P	CA	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
	K	/	/	/	390	/	/	/	390	/	/	/	390	/	/	/	390
	LN-CA	/	/	/	550	/	/	/	550	/	/	/	550	/	/	/	550
	LN-K	/	/	/	390	/	/	/	390	/	/	/	390	/	/	/	390
	SL-K	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
0412P	SL-CA	/	/	/	860	/	/	/	860	/	/	/	860	/	/	/	860
0452P	CA	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
	K	/	/	/	390	/	/	/	390	/	/	/	390	/	/	/	390
	LN-CA	/	/	/	560	/	/	/	560	/	/	/	560	/	/	/	560

HYDRONIC GROUP

Hydronic kit positioning

	Version	KIT IDRONICO - 1 POMPA 2P BP + ACC (3152)				KIT IDRONICO - 1 POMPA 2P AP + ACC (3153)				KIT IDRONICO - 2 POMPE 2P BP + ACC (3155)				KIT IDRONICO - 2 POMPE 2P AP + ACC (3156)			
		extra L [mm]	**extra W [mm]**	**extra H [mm]**	extra wgt [kg]	**extra L [mm]**	**extra W [mm]**	**extra H [mm]**	extra wgt [kg]	**extra L [mm]**	**extra W [mm]**	**extra H [mm]**	extra wgt [kg]	**extra L [mm]**	**extra W [mm]**	**extra H [mm]**	extra wgt [kg]
0452P	LN-K	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
	SL-K	/	/	/	560	/	/	/	560	/	/	/	560	/	/	/	560
0462P	SL-CA	/	/	/	850	/	/	/	850	/	/	/	850	/	/	/	850
0502P	CA	/	/	/	560	/	/	/	560	/	/	/	560	/	/	/	560
	K	/	/	/	390	/	/	/	390	/	/	/	390	/	/	/	390
	LN-CA	/	/	/	550	/	/	/	550	/	/	/	550	/	/	/	550
	LN-K	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
	SL-K	/	/	/	560	/	/	/	560	/	/	/	560	/	/	/	560
0512P	SL-CA	/	/	/	860	/	/	/	860	/	/	/	860	/	/	/	860
0552P	K	/	/	/	480	/	/	/	480	/	/	/	480	/	/	/	480
	LN-K	/	/	/	470	/	/	/	470	/	/	/	470	/	/	/	470
	SL-K	/	/	/	550	/	/	/	550	/	/	/	550	/	/	/	550
0562P	CA	/	/	/	860	/	/	/	860	/	/	/	860	/	/	/	860
	LN-CA	/	/	/	860	/	/	/	860	/	/	/	860	/	/	/	860
	SL-CA	/	/	/	860	/	/	/	860	/	/	/	860	/	/	/	860
0602P	K	/	/	/	550	/	/	/	550	/	/	/	550	/	/	/	550
	LN-K	/	/	/	550	/	/	/	550	/	/	/	550	/	/	/	550
	SL-K	/	/	/	550	/	/	/	550	/	/	/	550	/	/	/	550
0612P	CA	/	/	/	860	/	/	/	860	/	/	/	860	/	/	/	860
	LN-CA	/	/	/	860	/	/	/	860	/	/	/	860	/	/	/	860
	SL-CA	/	/	/	860	/	/	/	860	/	/	/	860	/	/	/	860
0702P	K	/	/	/	560	/	/	/	560	/	/	/	560	/	/	/	560
	LN-K	/	/	/	570	/	/	/	570	/	/	/	570	/	/	/	570
	SL-K	/	/	/	570	/	/	/	570	/	/	/	570	/	/	/	570
0712P	CA	/	/	/	910	/	/	/	910	/	/	/	910	/	/	/	910
	LN-CA	/	/	/	910	/	/	/	910	/	/	/	910	/	/	/	910
	SL-CA	/	/	/	910	/	/	/	910	/	/	/	910	/	/	/	910
0802P	K	/	/	/	570	/	/	/	570	/	/	/	570	/	/	/	570
	LN-K	/	/	/	570	/	/	/	570	/	/	/	570	/	/	/	570
0812P	CA	/	/	/	910	/	/	/	910	/	/	/	910	/	/	/	910
	LN-CA	/	/	/	910	/	/	/	910	/	/	/	910	/	/	/	910
	SL-CA	/	/	/	910	/	/	/	910	/	/	/	910	/	/	/	910

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

HYDRONIC GROUP

Hydronic kit positioning

	Version	KIT IDRONICO - 1 POMPA 2P BP (3164)				KIT IDRONICO - 1 POMPA 2P AP (3165)				KIT IDRONICO - 2 POMPE 2P BP (3167)				KIT IDRONICO - 2 POMPE 2P AP (3168)			
		extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]
0152P	CA	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
	K	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
	LN-CA	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
	LN-K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	SL-CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	SL-K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
0182P	CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	K	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
	LN-CA	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
	LN-K	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
	SL-CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	SL-K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
0202P	CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	K	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
	LN-CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	SL-CA	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
	SL-K	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
0252P	CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-CA	/	/	/	130	/	/	/	130	/	/	/	130	/	/	/	130
	LN-K	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
	SL-CA	/	/	/	130	/	/	/	130	/	/	/	130	/	/	/	130
	SL-K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
0262P	CA	/	/	/	110	/	/	/	110	/	/	/	110	/	/	/	110
	K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	LN-K	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	SL-CA	/	/	/	130	/	/	/	130	/	/	/	130	/	/	/	130
	SL-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
	SL-CA	/	/	/	120	/	/	/	120	/	/	/	120	/	/	/	120
	SL-K	/	/	/	130	/	/	/	130	/	/	/	130	/	/	/	130
0352P	CA	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
	K	/	/	/	180	/	/	/	180	/	/	/	180	/	/	/	180
	LN-CA	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	LN-K	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	SL-CA	/	/	/	210	/	/	/	210	/	/	/	210	/	/	/	210
	SL-K	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
0402P	CA	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
	K	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	LN-CA	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
	LN-K	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	SL-K	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
0412P	SL-CA	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
0452P	CA	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	K	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	LN-CA	/	/	/	210	/	/	/	210	/	/	/	210	/	/	/	210

HYDRONIC GROUP

Hydronic kit positioning

	Version	KIT IDRONICO - 1 POMPA 2P BP (3164)				KIT IDRONICO - 1 POMPA 2P AP (3165)				KIT IDRONICO - 2 POMPE 2P BP (3167)				KIT IDRONICO - 2 POMPE 2P AP (3168)			
		extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]	extra L [mm]	extra W [mm]	extra H [mm]	extra wgt [kg]
0452P	LN-K	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	SL-K	/	/	/	210	/	/	/	210	/	/	/	210	/	/	/	210
0462P	SL-CA	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
0502P	CA	/	/	/	210	/	/	/	210	/	/	/	210	/	/	/	210
	K	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	LN-CA	/	/	/	210	/	/	/	210	/	/	/	210	/	/	/	210
	LN-K	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
	SL-K	/	/	/	210	/	/	/	210	/	/	/	210	/	/	/	210
0512P	SL-CA	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
0552P	K	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
	LN-K	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	SL-K	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
0562P	CA	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	LN-CA	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
	SL-CA	/	/	/	170	/	/	/	170	/	/	/	170	/	/	/	170
0602P	K	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
	LN-K	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
	SL-K	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
0612P	CA	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
	LN-CA	/	/	/	200	/	/	/	200	/	/	/	200	/	/	/	200
	SL-CA	/	/	/	190	/	/	/	190	/	/	/	190	/	/	/	190
0702P	K	/	/	/	220	/	/	/	220	/	/	/	220	/	/	/	220
	LN-K	/	/	/	220	/	/	/	220	/	/	/	220	/	/	/	220
	SL-K	/	/	/	220	/	/	/	220	/	/	/	220	/	/	/	220
0712P	CA	/	/	/	240	/	/	/	240	/	/	/	240	/	/	/	240
	LN-CA	/	/	/	240	/	/	/	240	/	/	/	240	/	/	/	240
	SL-CA	/	/	/	240	/	/	/	240	/	/	/	240	/	/	/	240
0802P	K	/	/	/	220	/	/	/	220	/	/	/	220	/	/	/	220
	LN-K	/	/	/	220	/	/	/	220	/	/	/	220	/	/	/	220
0812P	CA	/	/	/	250	/	/	/	250	/	/	/	250	/	/	/	250
	LN-CA	/	/	/	240	/	/	/	240	/	/	/	240	/	/	/	240
	SL-CA	/	/	/	240	/	/	/	240	/	/	/	240	/	/	/	240

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

HYDRONIC GROUP

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

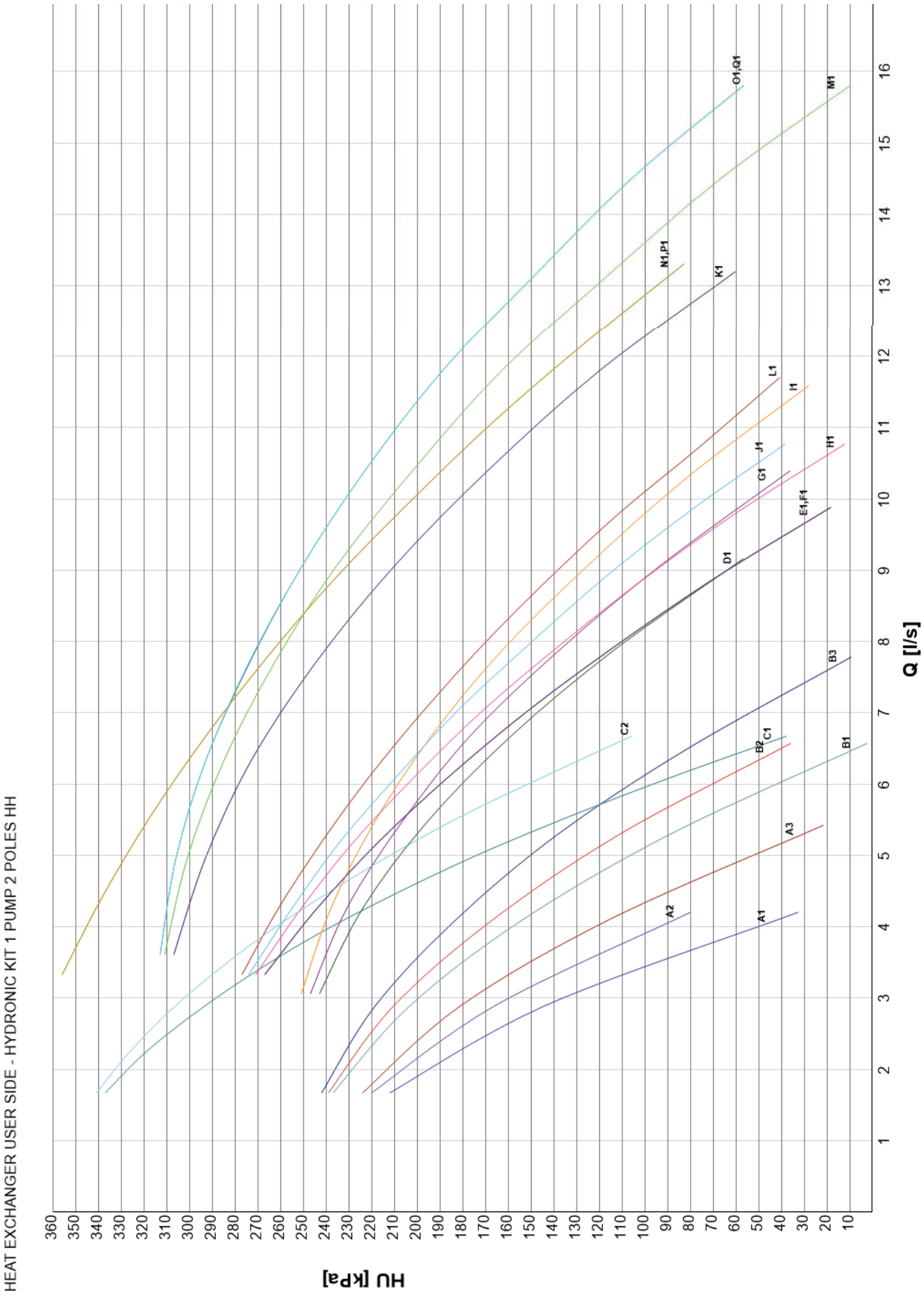
SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0152P	CA	41,7	1,99	A1	DWC-V 500/2,2	2	5	2,20	197
	K	39,2	1,88						203
	LN-CA	41,5	1,98						198
	LN-K	39,3	1,88						203
	SL-CA	41,9	2,00						197
	SL-K	39,4	1,88						203
0182P	CA	47,4	2,27	A2					197
	K	44,3	2,12						203
	LN-CA	47,0	2,25						198
	LN-K	44,3	2,12						203
	SL-CA	47,5	2,27						197
	SL-K	44,6	2,13						202
0202P	CA	55,0	2,63	A3					192
	K	51,9	2,48						198
	LN-CA	55,0	2,63						192
	LN-K	51,7	2,47						198
	SL-CA	55,3	2,65						191
	SL-K	52,3	2,50						197
0252P	CA	62,5	2,99	B1	DWC-V 500/3	2	6	3,00	200
	K	58,9	2,82						206
	LN-CA	63,5	3,04						198
	LN-K	58,8	2,81						206
	SL-CA	62,2	2,97						201
	SL-K	58,9	2,82						206
0262P	CA	69,6	3,33	B2					196
	K	65,0	3,11						203
	LN-CA	70,7	3,38						194
	LN-K	65,5	3,13						203
	SL-CA	69,2	3,31						197
	SL-K	65,9	3,15						202
0302P	CA	85,0	4,07	B3					184
	K	77,6	3,71						196
	LN-CA	82,7	3,95						188
	LN-K	74,7	3,57						200
	SL-CA	81,9	3,92						189
	SL-K	77,7	3,72						196
0352P	CA	96,6	4,62	C1	3D 32-160/2.2	2	5	2,20	200
	K	88,5	4,23						224
	LN-CA	94,4	4,52						206
	LN-K	89,9	4,30						220
	SL-CA	94,5	4,52						206
	SL-K	88,5	4,23						224
0402P	CA	108	5,16	C2					203
	K	102	4,88						219
	LN-CA	107	5,14						204
	LN-K	99,4	4,75						225
	SL-K	100	4,78						224
0412P	SL-CA	106	5,07	D1	LNEE 50-160/40/2	2	8	4,00	206
0452P	CA	122	5,83	E1	3D 40-160/3	2	6	3,00	196
	K	114	5,47						208
	LN-CA	121	5,77						198

HYDRONIC GROUP

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

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0452P	LN-K	113	5,40	F1	3D 40-160/3	2	6	3,00	211
	SL-K	113	5,42						210
0462P	SL-CA	119	5,67	G1	LNEE 50-160/40/2	2	8	4,00	202
0502P	CA	138	6,59	H1	3D 40-160/3	2	6	3,00	186
	K	127	6,09						201
	LN-CA	134	6,42						191
	LN-K	125	5,99						205
	SL-K	124	5,95						206
0512P	SL-CA	133	6,36	I1	LNEE 50-160/40/2	2	8	4,00	201
0552P	K	144	6,90	J1	3D 40-160/3	2	6	3,00	186
	LN-K	140	6,69						192
	SL-K	140	6,72						192
0562P	CA	160	7,67	K1	LNEE 50-160/55/2	2	11	5,50	246
	LN-CA	154	7,36						252
	SL-CA	152	7,25						255
0602P	K	166	7,92	L1	3D 40-160/3	2	6	3,00	172
	LN-K	163	7,78						176
	SL-K	153	7,32						189
0612P	CA	178	8,53	M1	LNEE 50-160/55/2	2	11	5,50	247
	LN-CA	173	8,26						252
	SL-CA	172	8,24						253
0702P	K	189	9,06	N1	3D 40-160/4	2	9	4,00	231
	LN-K	179	8,58						244
	SL-K	175	8,39						250
0712P	CA	201	9,62	O1	LNEE 50-160/55/2	2	11	5,50	240
	LN-CA	198	9,49						242
	SL-CA	195	9,32						246
0802P	K	207	9,88	P1	3D 40-160/4	2	9	4,00	206
	LN-K	194	9,28						224
0812P	CA	227	10,9	Q1	LNEE 50-160/55/2	2	11	5,50	212
	LN-CA	221	10,6						218
	SL-CA	218	10,4						223

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


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES HH
HU [kPa]
Q [l/s]
O1,Q1
M1
N1,P1
K1
L1
I1
J1
G1
H1
E1,F1
D1
C2
B3
C1
B2
B1
A3
A2
A1

HYDRONIC GROUP

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

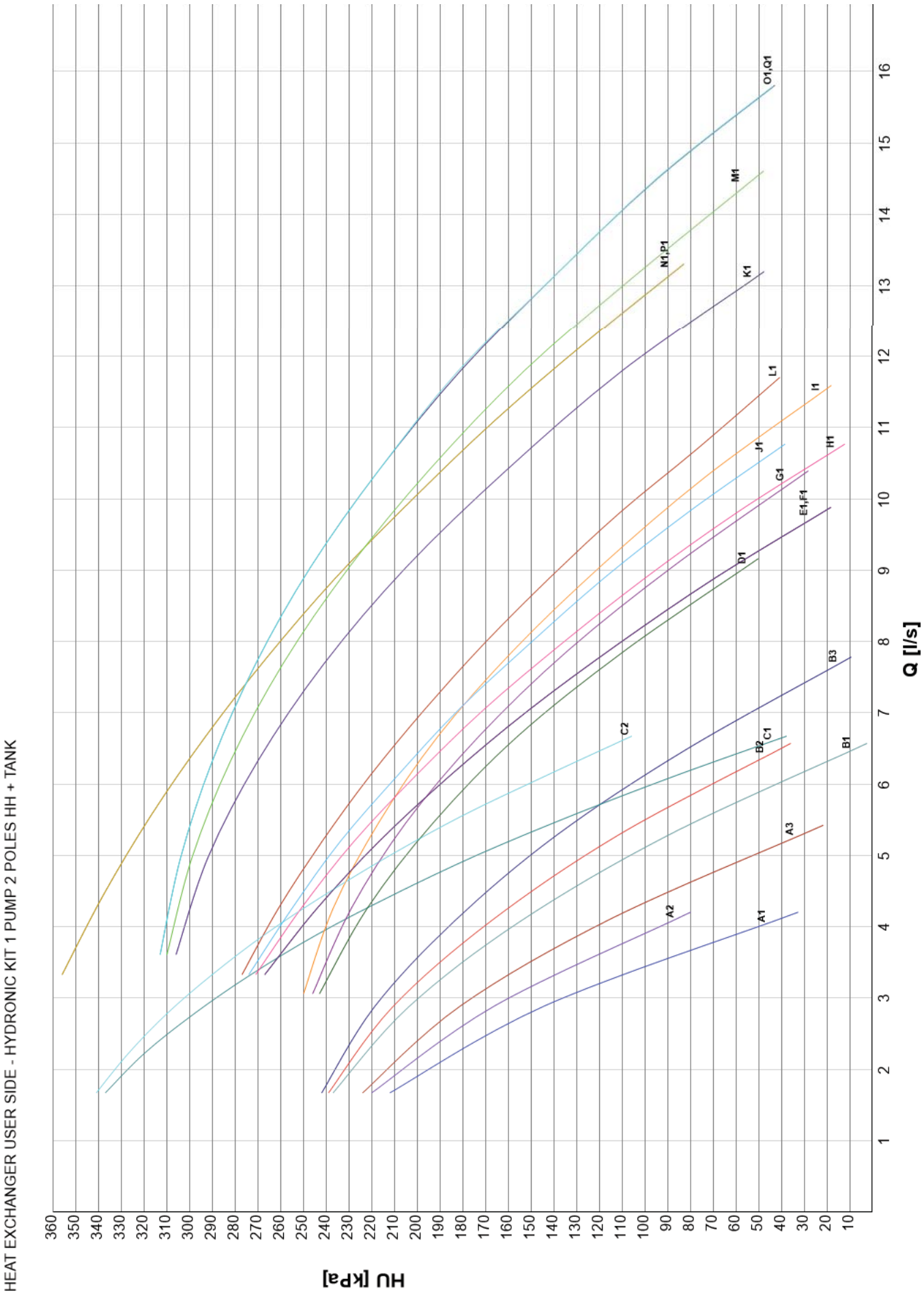
SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0152P	CA	41,7	1,99	A1	DWC-V 500/2,2	2	5	2,20	197
	K	39,2	1,88						203
	LN-CA	41,5	1,98						198
	LN-K	39,3	1,88						203
	SL-CA	41,9	2,00						197
	SL-K	39,4	1,88						203
0182P	CA	47,4	2,27	A2					197
	K	44,3	2,12						203
	LN-CA	47,0	2,25						198
	LN-K	44,3	2,12						203
	SL-CA	47,5	2,27						197
	SL-K	44,6	2,13						202
0202P	CA	55,0	2,63	A3					192
	K	51,9	2,48						198
	LN-CA	55,0	2,63						192
	LN-K	51,7	2,47						198
	SL-CA	55,3	2,65						191
	SL-K	52,3	2,50						197
0252P	CA	62,5	2,99	B1	DWC-V 500/3	2	6	3,00	200
	K	58,9	2,82						206
	LN-CA	63,5	3,04						198
	LN-K	58,8	2,81						206
	SL-CA	62,2	2,97						201
	SL-K	58,9	2,82						206
0262P	CA	69,6	3,33	B2					196
	K	65,0	3,11						203
	LN-CA	70,7	3,38						194
	LN-K	65,5	3,13						203
	SL-CA	69,2	3,31						197
	SL-K	65,9	3,15						202
0302P	CA	85,0	4,07	B3					184
	K	77,6	3,71						196
	LN-CA	82,7	3,95						188
	LN-K	74,7	3,57						200
	SL-CA	81,9	3,92						189
	SL-K	77,7	3,72						196
0352P	CA	96,6	4,62	C1	3D 32-160/2.2	2	5	2,20	200
	K	88,5	4,23						224
	LN-CA	94,4	4,52						206
	LN-K	89,9	4,30						220
	SL-CA	94,5	4,52						206
	SL-K	88,5	4,23						224
0402P	CA	108	5,16	C2					203
	K	102	4,88						219
	LN-CA	107	5,14						204
	LN-K	99,4	4,75						225
	SL-K	100	4,78						224
0412P	SL-CA	106	5,07	D1	LNEE 50-160/40/2	2	8	4,00	204
0452P	CA	122	5,83	E1	3D 40-160/3	2	6	3,00	196
	K	114	5,47						208
	LN-CA	121	5,77						198

HYDRONIC GROUP

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

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0452P	LN-K	113	5,40	F1	3D 40-160/3	2	6	3,00	211
	SL-K	113	5,42						210
0462P	SL-CA	119	5,67	G1	LNEE 50-160/40/2	2	8	4,00	200
0502P	CA	138	6,59	H1	3D 40-160/3	2	6	3,00	186
	K	127	6,09						201
	LN-CA	134	6,42						191
	LN-K	125	5,99						205
	SL-K	124	5,95						206
0512P	SL-CA	133	6,36	I1	LNEE 50-160/40/2	2	8	4,00	198
0552P	K	144	6,90	J1	3D 40-160/3	2	6	3,00	186
	LN-K	140	6,69						192
	SL-K	140	6,72						192
0562P	CA	160	7,67	K1	LNEE 50-160/55/2	2	11	5,50	241
	LN-CA	154	7,36						248
	SL-CA	152	7,25						251
0602P	K	166	7,92	L1	3D 40-160/3	2	6	3,00	172
	LN-K	163	7,78						176
	SL-K	153	7,32						189
0612P	CA	178	8,53	M1	LNEE 50-160/55/2	2	11	5,50	242
	LN-CA	173	8,26						248
	SL-CA	172	8,24						248
0702P	K	189	9,06	N1	3D 40-160/4	2	9	4,00	231
	LN-K	179	8,58						244
	SL-K	175	8,39						250
0712P	CA	201	9,62	O1	LNEE 50-160/55/2	2	11	5,50	235
	LN-CA	198	9,49						237
	SL-CA	195	9,32						241
0802P	K	207	9,88	P1	3D 40-160/4	2	9	4,00	206
	LN-K	194	9,28						224
0812P	CA	227	10,9	Q1	LNEE 50-160/55/2	2	11	5,50	206
	LN-CA	221	10,6						213
	SL-CA	218	10,4						217

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


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES HH + TANK
HU [kPa]
Q [l/s]
O1,Q1
M1
N1,P1
K1
L1
I1
J1
H1
G1
E1,F1
D1
C2
B3
C1
B2
B1
A3
A2
A1

HYDRONIC GROUP

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

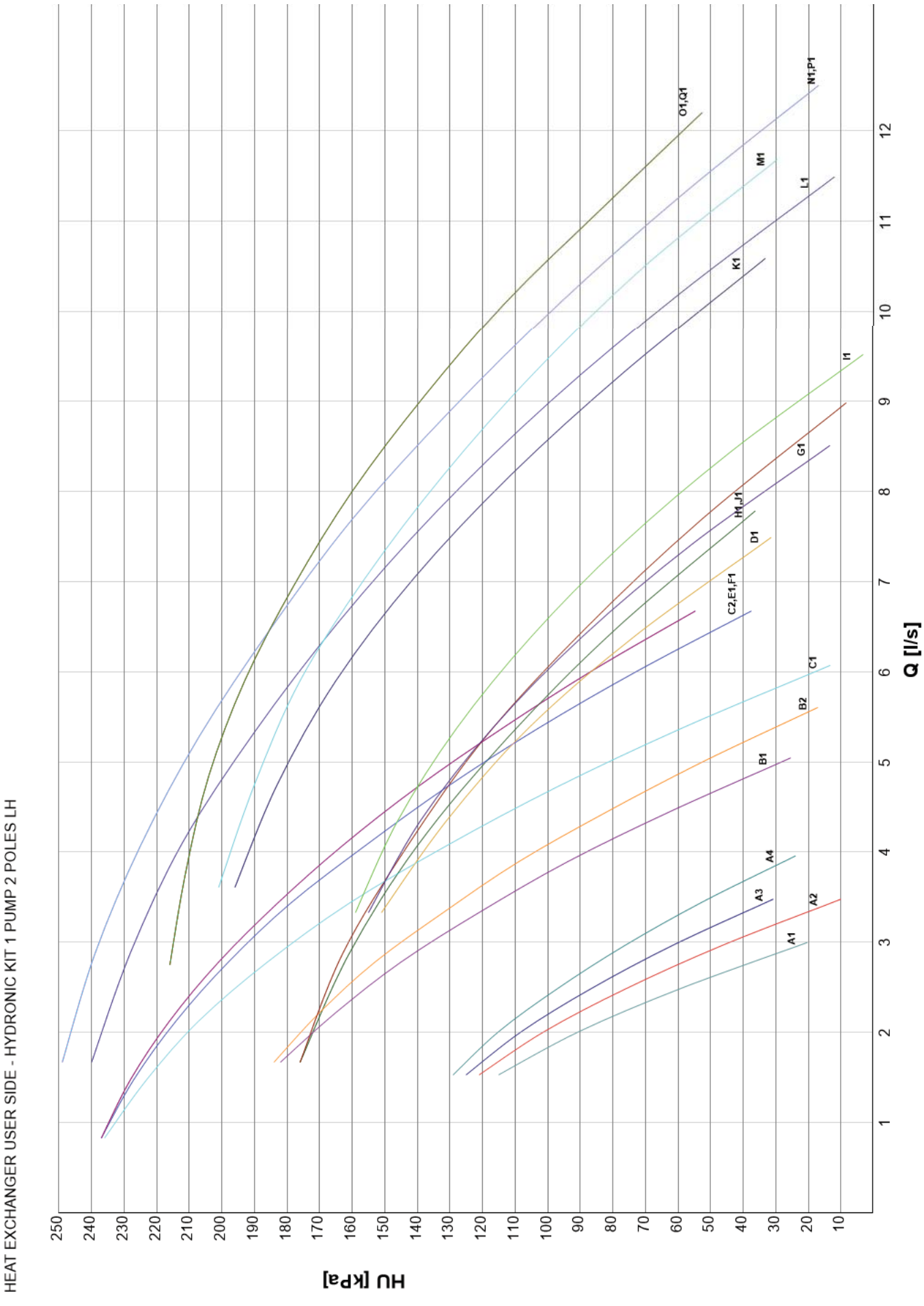
SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0152P	CA	41,7	1,99	A1	DWC-V 300/1,1(R)	2	3	1,10	91,0
	K	39,2	1,88						97,6
	LN-CA	41,5	1,98						91,5
	LN-K	39,3	1,88						97,5
	SL-CA	41,9	2,00						90,5
	SL-K	39,4	1,88						97,1
0182P	CA	47,4	2,27	A2					88,1
	K	44,3	2,12						95,8
	LN-CA	47,0	2,25						89,2
	LN-K	44,3	2,12						95,6
	SL-CA	47,5	2,27						87,8
	SL-K	44,6	2,13						95,0
0202P	CA	55,0	2,63	A3					79,7
	K	51,9	2,48						87,0
	LN-CA	55,0	2,63						79,6
	LN-K	51,7	2,47						87,5
	SL-CA	55,3	2,65						78,9
	SL-K	52,3	2,50						86,1
0252P	CA	62,5	2,99	A4					75,4
	K	58,9	2,82						83,2
	LN-CA	63,5	3,04						73,1
	LN-K	58,8	2,81						83,5
	SL-CA	62,2	2,97						76,0
	SL-K	58,9	2,82						83,2
0262P	CA	69,6	3,33	B1	DWC-V 300/1,1	2	3	1,10	122
	K	65,0	3,11						132
	LN-CA	70,7	3,38						119
	LN-K	65,5	3,13						130
	SL-CA	69,2	3,31						123
	SL-K	65,9	3,15						130
0302P	CA	85,0	4,07	B2					101
	K	77,6	3,71						117
	LN-CA	82,7	3,95						106
	LN-K	74,7	3,57						123
	SL-CA	81,9	3,92						107
	SL-K	77,7	3,72						116
0352P	CA	96,6	4,62	C1	DWC-V 300/1,5	2	4	1,50	103
	K	88,5	4,23						123
	LN-CA	94,4	4,52						108
	LN-K	89,9	4,30						120
	SL-CA	94,5	4,52						108
	SL-K	88,5	4,23						123
0402P	CA	108	5,16	C2					112
	K	102	4,88						125
	LN-CA	107	5,14						114
	LN-K	99,4	4,75						130
	SL-K	100	4,78						129
0412P	SL-CA	106	5,07	D1	LNEE 50-125/22/2	2	5	2,20	114
0452P	CA	122	5,83	E1	DWC-V 300/1,5	2	4	1,50	94,4
	K	114	5,47						110
	LN-CA	121	5,77						97,1

HYDRONIC GROUP

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

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0452P	LN-K	113	5,40	F1	DWC-V 300/1,5	2	4	1,50	113
	SL-K	113	5,42						112
0462P	SL-CA	119	5,67	G1	LNEE 50-125/22/2	2	5	2,20	109
0502P	CA	138	6,59	H1	DWC-V 500/1,5	2	4	1,50	75,6
	K	127	6,09						90,3
	LN-CA	134	6,42						80,8
	LN-K	125	5,99						93,3
	SL-K	124	5,95						94,5
0512P	SL-CA	133	6,36	I1	LNEE 50-125/22/2	2	5	2,20	106
0552P	K	144	6,90	J1	DWC-V 500/1,5	2	4	1,50	76,7
	LN-K	140	6,69						82,6
	SL-K	140	6,72						81,8
0562P	CA	160	7,67	K1	LNEE 50-125/30/2	2	6	3,00	125
	LN-CA	154	7,36						133
	SL-CA	152	7,25						136
0602P	K	166	7,92	L1	DWC-V 500/2,2	2	5	2,20	130
	LN-K	163	7,78						134
	SL-K	153	7,32						146
0612P	CA	178	8,53	M1	LNEE 50-125/30/2	2	6	3,00	124
	LN-CA	173	8,26						130
	SL-CA	172	8,24						131
0702P	K	189	9,06	N1	DWC-V 500/3	2	6	3,00	125
	LN-K	179	8,58						138
	SL-K	175	8,39						143
0712P	CA	201	9,62	O1	LNEE 50-160/30/2	2	6	3,00	125
	LN-CA	198	9,49						128
	SL-CA	195	9,32						132
0802P	K	207	9,88	P1	DWC-V 500/3	2	6	3,00	102
	LN-K	194	9,28						119
0812P	CA	227	10,9	Q1	LNEE 50-160/30/2	2	6	3,00	92,9
	LN-CA	221	10,6						100
	SL-CA	218	10,4						105

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


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 1 PUMP 2 POLES LH
HU [kPa]
Q [l/s]
250
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
1
2
3
4
5
6
7
8
9
10
11
12
O1,Q1
N1,P1
M1
L1
K1
I1
G1
H1,J1
D1
C2,E1,F1
C1
B2
B1
A4
A3
A2
A1

HYDRONIC GROUP

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

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0152P	CA	41,7	1,99	A1	DWC-V 300/1,1(R)	2	3	1,10	91,0
	K	39,2	1,88						97,6
	LN-CA	41,5	1,98						91,5
	LN-K	39,3	1,88						97,5
	SL-CA	41,9	2,00						90,5
	SL-K	39,4	1,88						97,1
0182P	CA	47,4	2,27	A2					88,1
	K	44,3	2,12						95,8
	LN-CA	47,0	2,25						89,2
	LN-K	44,3	2,12						95,6
	SL-CA	47,5	2,27						87,8
	SL-K	44,6	2,13						95,0
0202P	CA	55,0	2,63	A3					79,7
	K	51,9	2,48						87,0
	LN-CA	55,0	2,63						79,6
	LN-K	51,7	2,47						87,5
	SL-CA	55,3	2,65						78,9
	SL-K	52,3	2,50						86,1
0252P	CA	62,5	2,99	A4					75,4
	K	58,9	2,82						83,2
	LN-CA	63,5	3,04						73,1
	LN-K	58,8	2,81						83,5
	SL-CA	62,2	2,97						76,0
	SL-K	58,9	2,82						83,2
0262P	CA	69,6	3,33	B1	DWC-V 300/1,1	2	3	1,10	122
	K	65,0	3,11						132
	LN-CA	70,7	3,38						119
	LN-K	65,5	3,13						130
	SL-CA	69,2	3,31						123
	SL-K	65,9	3,15						130
0302P	CA	85,0	4,07	B2					101
	K	77,6	3,71						117
	LN-CA	82,7	3,95						106
	LN-K	74,7	3,57						123
	SL-CA	81,9	3,92						107
	SL-K	77,7	3,72						116
0352P	CA	96,6	4,62	C1	DWC-V 300/1,5	2	4	1,50	103
	K	88,5	4,23						123
	LN-CA	94,4	4,52						108
	LN-K	89,9	4,30						120
	SL-CA	94,5	4,52						108
	SL-K	88,5	4,23						123
0402P	CA	108	5,16	C2					112
	K	102	4,88						125
	LN-CA	107	5,14						114
	LN-K	99,4	4,75						130
	SL-K	100	4,78						129
0412P	SL-CA	106	5,07	D1	LNEE 50-125/22/2	2	5	2,20	112
0452P	CA	122	5,83	E1	DWC-V 300/1,5	2	4	1,50	94,4
	K	114	5,47						110
	LN-CA	121	5,77						97,1

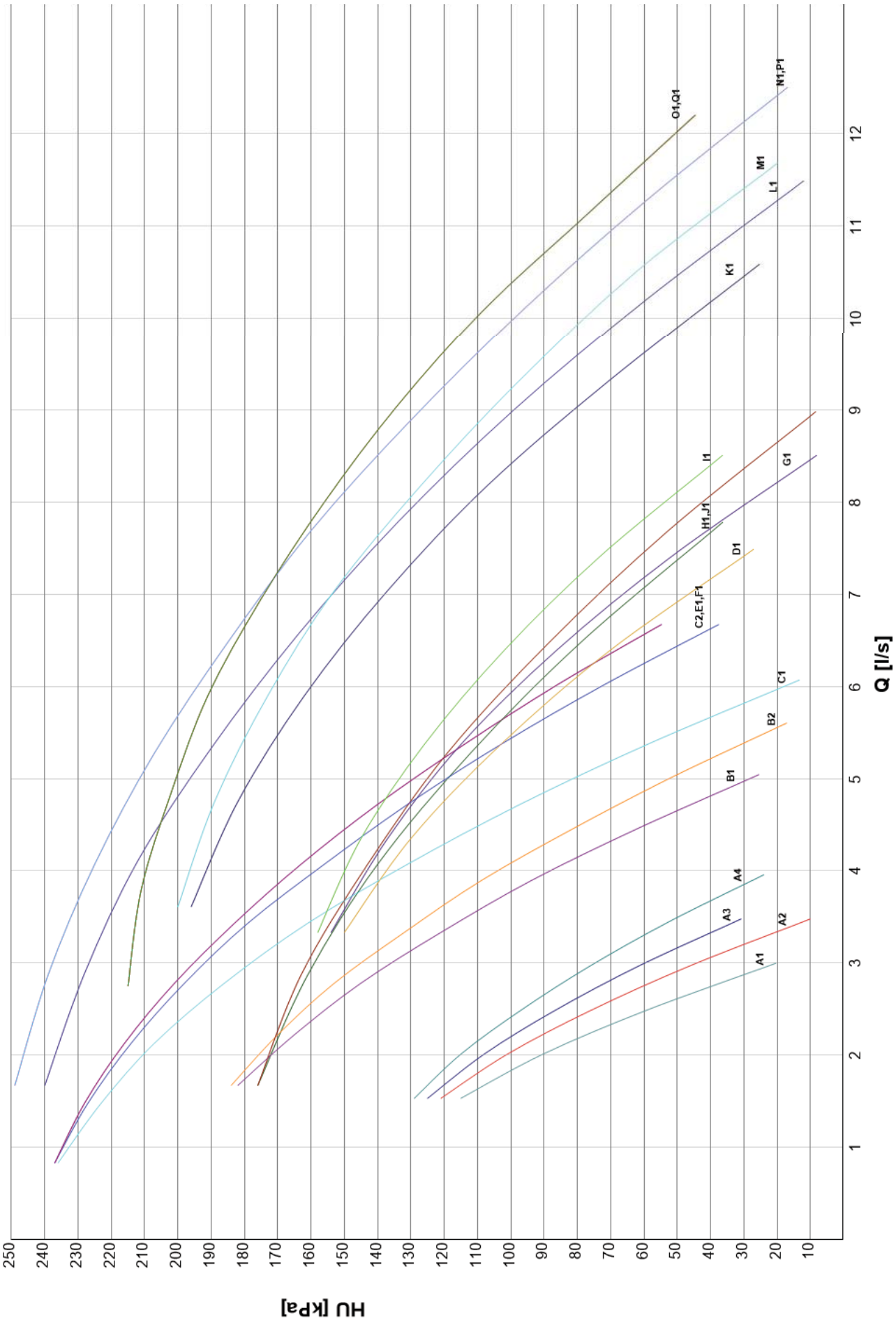
HYDRONIC GROUP

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

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0452P	LN-K	113	5,40	F1	DWC-V 300/1,5	2	4	1,50	113
	SL-K	113	5,42						112
0462P	SL-CA	119	5,67	G1	LNEE 50-125/22/2	2	5	2,20	107
0502P	CA	138	6,59	H1	DWC-V 500/1,5	2	4	1,50	75,6
	K	127	6,09						90,3
	LN-CA	134	6,42						80,8
	LN-K	125	5,99						93,3
	SL-K	124	5,95						94,5
0512P	SL-CA	133	6,36	I1	LNEE 50-125/22/2	2	5	2,20	103
0552P	K	144	6,90	J1	DWC-V 500/1,5	2	4	1,50	76,7
	LN-K	140	6,69						82,6
	SL-K	140	6,72						81,8
0562P	CA	160	7,67	K1	LNEE 50-125/30/2	2	6	3,00	121
	LN-CA	154	7,36						129
	SL-CA	152	7,25						132
0602P	K	166	7,92	L1	DWC-V 500/2,2	2	5	2,20	130
	LN-K	163	7,78						134
	SL-K	153	7,32						146
0612P	CA	178	8,53	M1	LNEE 50-125/30/2	2	6	3,00	119
	LN-CA	173	8,26						125
	SL-CA	172	8,24						126
0702P	K	189	9,06	N1	DWC-V 500/3	2	6	3,00	125
	LN-K	179	8,58						138
	SL-K	175	8,39						143
0712P	CA	201	9,62	O1	LNEE 50-160/30/2	2	6	3,00	120
	LN-CA	198	9,49						123
	SL-CA	195	9,32						127
0802P	K	207	9,88	P1	DWC-V 500/3	2	6	3,00	102
	LN-K	194	9,28						119
0812P	CA	227	10,9	Q1	LNEE 50-160/30/2	2	6	3,00	86,5
	LN-CA	221	10,6						94,5
	SL-CA	218	10,4						99,4

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

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



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HYDRONIC GROUP

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

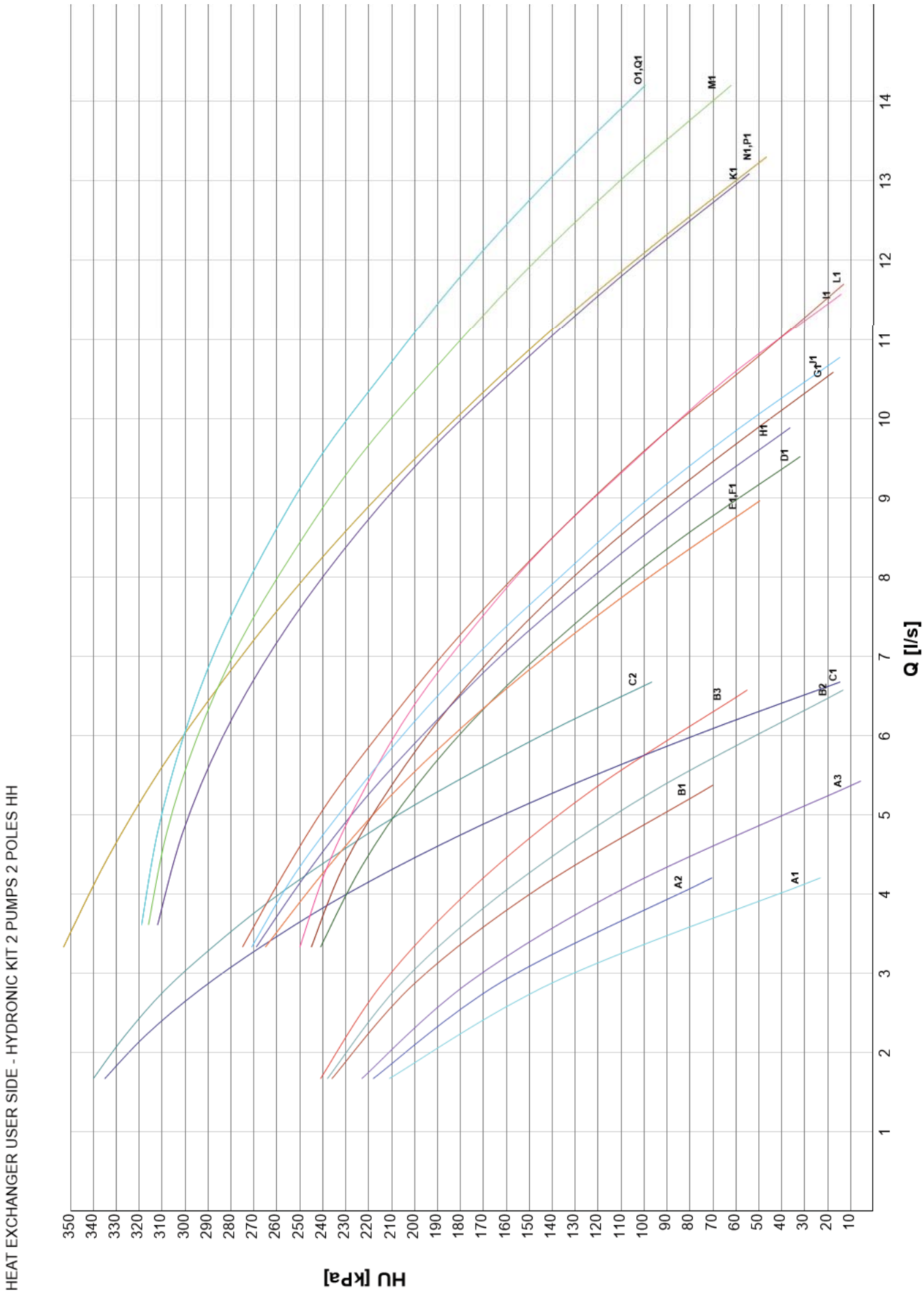
SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0152P	CA	41,7	1,99	A1	DWC-V 500/2,2	2	5	2,20	195
	K	39,2	1,88						201
	LN-CA	41,5	1,98						196
	LN-K	39,3	1,88						201
	SL-CA	41,9	2,00						195
	SL-K	39,4	1,88						201
0182P	CA	47,4	2,27	A2					194
	K	44,3	2,12						201
	LN-CA	47,0	2,25						195
	LN-K	44,3	2,12						200
	SL-CA	47,5	2,27						194
	SL-K	44,6	2,13						200
0202P	CA	55,0	2,63	A3					188
	K	51,9	2,48						194
	LN-CA	55,0	2,63						188
	LN-K	51,7	2,47						195
	SL-CA	55,3	2,65						187
	SL-K	52,3	2,50						193
0252P	CA	62,5	2,99	B1	DWC-V 500/3	2	6	3,00	195
	K	58,9	2,82						202
	LN-CA	63,5	3,04						194
	LN-K	58,8	2,81						202
	SL-CA	62,2	2,97						196
	SL-K	58,9	2,82						202
0262P	CA	69,6	3,33	B2					190
	K	65,0	3,11						198
	LN-CA	70,7	3,38						188
	LN-K	65,5	3,13						197
	SL-CA	69,2	3,31						191
	SL-K	65,9	3,15						197
0302P	CA	85,0	4,07	B3					176
	K	77,6	3,71						188
	LN-CA	82,7	3,95						180
	LN-K	74,7	3,57						193
	SL-CA	81,9	3,92						181
	SL-K	77,7	3,72						188
0352P	CA	96,6	4,62	C1	3D 32-160/2.2	2	5	2,20	188
	K	88,5	4,23						215
	LN-CA	94,4	4,52						196
	LN-K	89,9	4,30						210
	SL-CA	94,5	4,52						195
	SL-K	88,5	4,23						215
0402P	CA	108	5,16	C2					197
	K	102	4,88						214
	LN-CA	107	5,14						199
	LN-K	99,4	4,75						220
	SL-K	100	4,78						219
0412P	SL-CA	106	5,07	D1	LNTE 50-160/40/2	2	8	4,00	207
0452P	CA	122	5,83	E1	3D 40-160/3	2	6	3,00	189
	K	114	5,47						202
	LN-CA	121	5,77						191

HYDRONIC GROUP

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

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0452P	LN-K	113	5,40	F1	3D 40-160/3	2	6	3,00	205
	SL-K	113	5,42						204
0462P	SL-CA	119	5,67	G1	LNTE 50-160/40/2	2	8	4,00	203
0502P	CA	138	6,59	H1	3D 40-160/3	2	6	3,00	177
	K	127	6,09						194
	LN-CA	134	6,42						183
	LN-K	125	5,99						197
	SL-K	124	5,95						199
0512P	SL-CA	133	6,36	I1	LNTE 50-160/40/2	2	8	4,00	200
0552P	K	144	6,90	J1	3D 40-160/3	2	6	3,00	176
	LN-K	140	6,69						183
	SL-K	140	6,72						182
0562P	CA	160	7,67	K1	LNTE 50-160/55/2	2	11	5,50	248
	LN-CA	154	7,36						256
	SL-CA	152	7,25						258
0602P	K	166	7,92	L1	3D 40-160/3	2	6	3,00	159
	LN-K	163	7,78						164
	SL-K	153	7,32						178
0612P	CA	178	8,53	M1	LNTE 50-160/55/2	2	11	5,50	248
	LN-CA	173	8,26						254
	SL-CA	172	8,24						255
0702P	K	189	9,06	N1	3D 40-160/4	2	9	4,00	214
	LN-K	179	8,58						229
	SL-K	175	8,39						235
0712P	CA	201	9,62	O1	LNTE 50-160/55/2	2	11	5,50	239
	LN-CA	198	9,49						242
	SL-CA	195	9,32						245
0802P	K	207	9,88	P1	3D 40-160/4	2	9	4,00	186
	LN-K	194	9,28						207
0812P	CA	227	10,9	Q1	LNTE 50-160/55/2	2	11	5,50	208
	LN-CA	221	10,6						215
	SL-CA	218	10,4						219

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


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES HH
HU [kPa]
Q [l/s]
O1,Q1
M1
N1,P1
K1
L1
I1
G1,J1
H1
D1
E1,F1
C2
B3
B2
C1
B1
A3
A2
A1

HYDRONIC GROUP

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

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0152P	CA	41,7	1,99	A1	DWC-V 500/2,2	2	5	2,20	195
	K	39,2	1,88						201
	LN-CA	41,5	1,98						196
	LN-K	39,3	1,88						201
	SL-CA	41,9	2,00						195
	SL-K	39,4	1,88						201
0182P	CA	47,4	2,27	A2					194
	K	44,3	2,12						201
	LN-CA	47,0	2,25						195
	LN-K	44,3	2,12						200
	SL-CA	47,5	2,27						194
	SL-K	44,6	2,13						200
0202P	CA	55,0	2,63	A3					188
	K	51,9	2,48						194
	LN-CA	55,0	2,63						188
	LN-K	51,7	2,47						195
	SL-CA	55,3	2,65						187
	SL-K	52,3	2,50						193
0252P	CA	62,5	2,99	B1	DWC-V 500/3	2	6	3,00	195
	K	58,9	2,82						202
	LN-CA	63,5	3,04						194
	LN-K	58,8	2,81						202
	SL-CA	62,2	2,97						196
	SL-K	58,9	2,82						202
0262P	CA	69,6	3,33	B2					190
	K	65,0	3,11						198
	LN-CA	70,7	3,38						188
	LN-K	65,5	3,13						197
	SL-CA	69,2	3,31						191
	SL-K	65,9	3,15						197
0302P	CA	85,0	4,07	B3					176
	K	77,6	3,71						188
	LN-CA	82,7	3,95						180
	LN-K	74,7	3,57						193
	SL-CA	81,9	3,92						181
	SL-K	77,7	3,72						188
0352P	CA	96,6	4,62	C1	3D 32-160/2.2	2	5	2,20	188
	K	88,5	4,23						215
	LN-CA	94,4	4,52						196
	LN-K	89,9	4,30						210
	SL-CA	94,5	4,52						195
	SL-K	88,5	4,23						215
0402P	CA	108	5,16	C2					197
	K	102	4,88						214
	LN-CA	107	5,14						199
	LN-K	99,4	4,75						220
	SL-K	100	4,78						219
0412P	SL-CA	106	5,07	D1	LNTE 50-160/40/2	2	8	4,00	205
0452P	CA	122	5,83	E1	3D 40-160/3	2	6	3,00	189
	K	114	5,47						202
	LN-CA	121	5,77						191

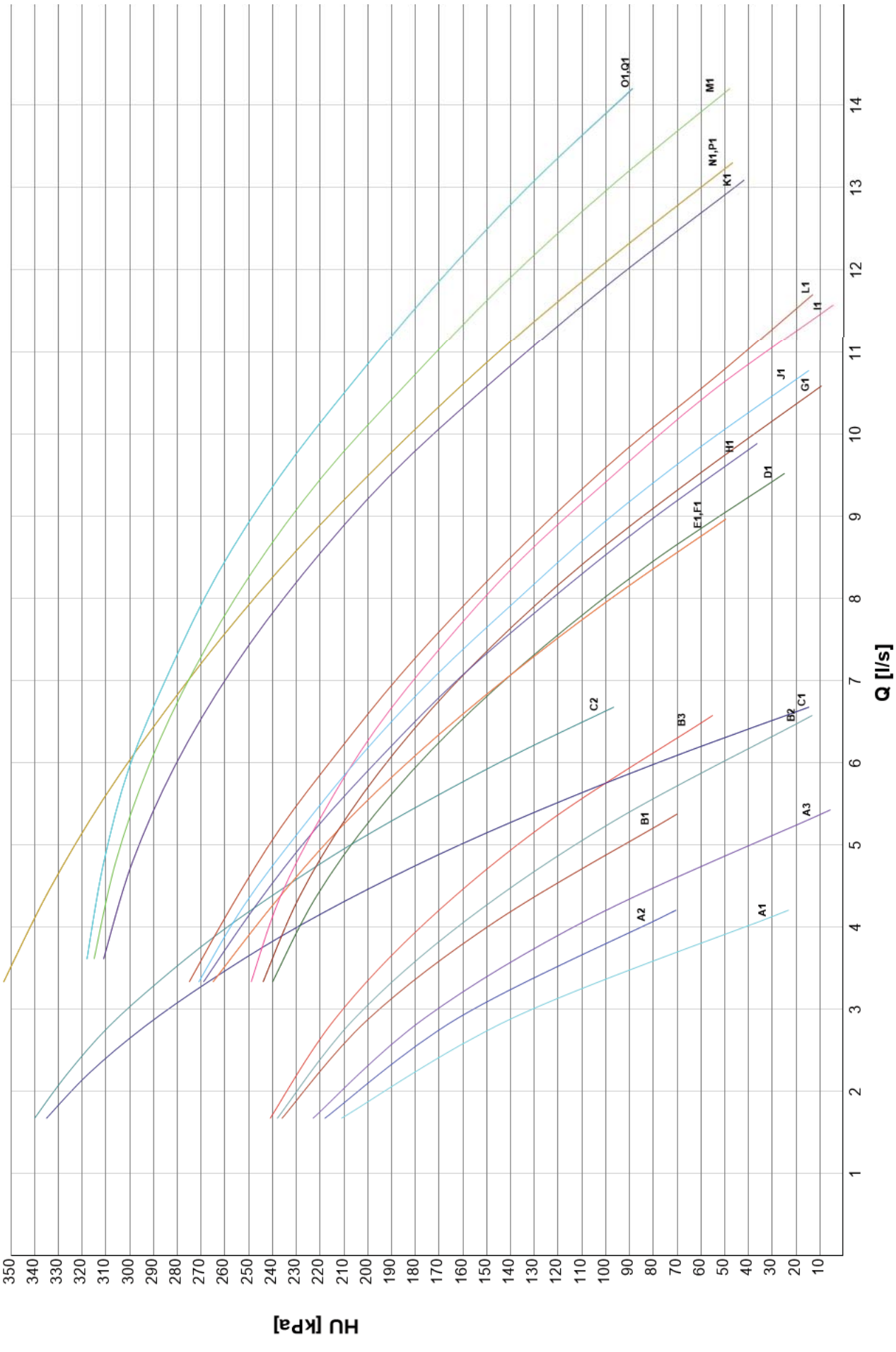
HYDRONIC GROUP

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

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0452P	LN-K	113	5,40	F1	3D 40-160/3	2	6	3,00	205
	SL-K	113	5,42						204
0462P	SL-CA	119	5,67	G1	LNTE 50-160/40/2	2	8	4,00	200
0502P	CA	138	6,59	H1	3D 40-160/3	2	6	3,00	177
	K	127	6,09						194
	LN-CA	134	6,42						183
	LN-K	125	5,99						197
	SL-K	124	5,95						199
0512P	SL-CA	133	6,36	I1	LNTE 50-160/40/2	2	8	4,00	198
0552P	K	144	6,90	J1	3D 40-160/3	2	6	3,00	176
	LN-K	140	6,69						183
	SL-K	140	6,72						182
0562P	CA	160	7,67	K1	LNTE 50-160/55/2	2	11	5,50	244
	LN-CA	154	7,36						252
	SL-CA	152	7,25						254
0602P	K	166	7,92	L1	3D 40-160/3	2	6	3,00	159
	LN-K	163	7,78						164
	SL-K	153	7,32						178
0612P	CA	178	8,53	M1	LNTE 50-160/55/2	2	11	5,50	243
	LN-CA	173	8,26						249
	SL-CA	172	8,24						250
0702P	K	189	9,06	N1	3D 40-160/4	2	9	4,00	214
	LN-K	179	8,58						229
	SL-K	175	8,39						235
0712P	CA	201	9,62	O1	LNTE 50-160/55/2	2	11	5,50	234
	LN-CA	198	9,49						237
	SL-CA	195	9,32						241
0802P	K	207	9,88	P1	3D 40-160/4	2	9	4,00	186
	LN-K	194	9,28						207
0812P	CA	227	10,9	Q1	LNTE 50-160/55/2	2	11	5,50	201
	LN-CA	221	10,6						209
	SL-CA	218	10,4						214

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

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



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HYDRONIC GROUP

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

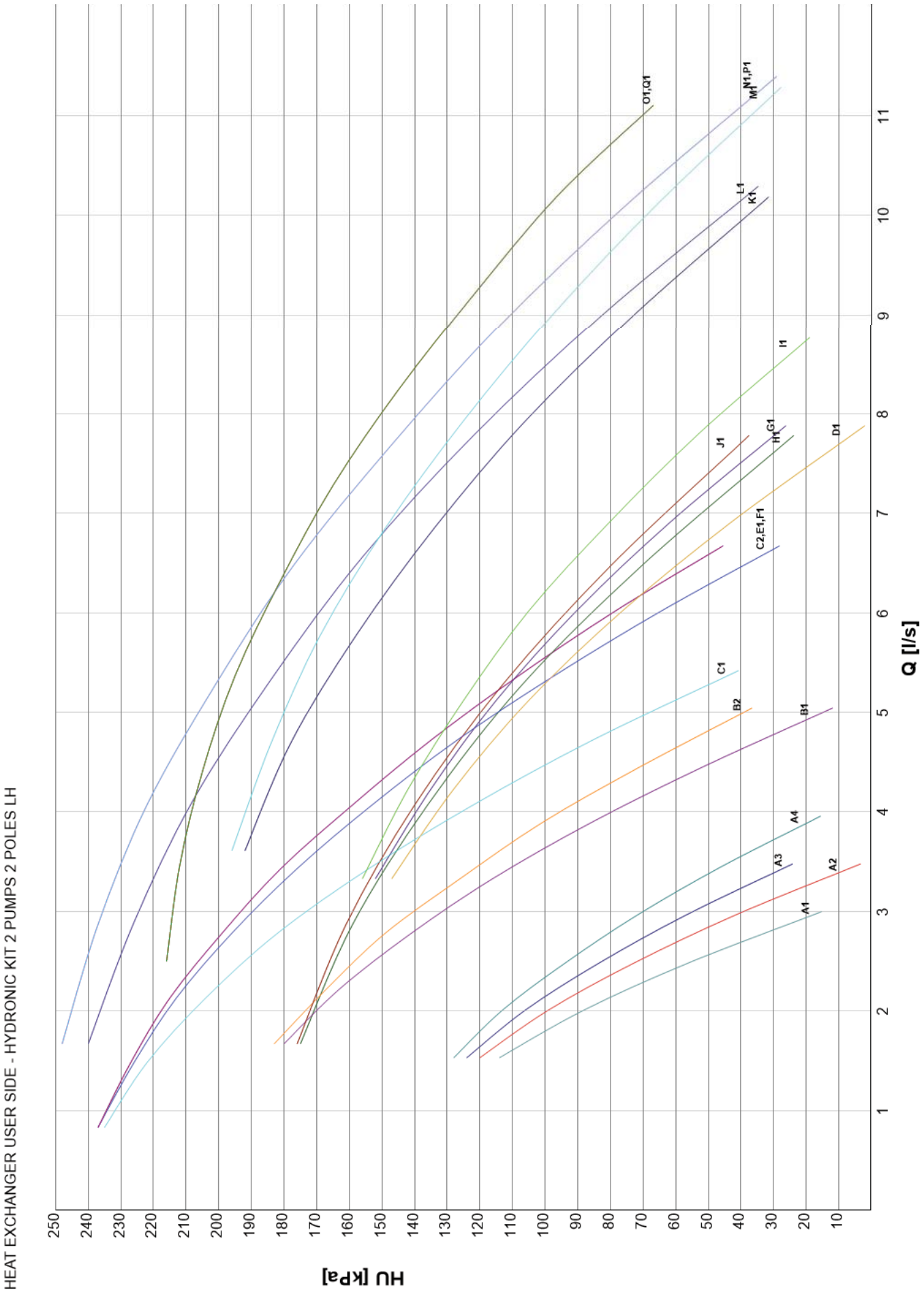
SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0152P	CA	41,7	1,99	A1	DWC-V 300/1,1(R)	2	3	1,10	88,8
	K	39,2	1,88						95,6
	LN-CA	41,5	1,98						89,4
	LN-K	39,3	1,88						95,5
	SL-CA	41,9	2,00						88,2
	SL-K	39,4	1,88						95,2
0182P	CA	47,4	2,27	A2					85,2
	K	44,3	2,12						93,3
	LN-CA	47,0	2,25						86,4
	LN-K	44,3	2,12						93,1
	SL-CA	47,5	2,27						85,0
	SL-K	44,6	2,13						92,5
0202P	CA	55,0	2,63	A3					75,9
	K	51,9	2,48						83,6
	LN-CA	55,0	2,63						75,8
	LN-K	51,7	2,47						84,1
	SL-CA	55,3	2,65						75,0
	SL-K	52,3	2,50						82,7
0252P	CA	62,5	2,99	A4					70,7
	K	58,9	2,82						79,0
	LN-CA	63,5	3,04						68,2
	LN-K	58,8	2,81						79,3
	SL-CA	62,2	2,97						71,3
	SL-K	58,9	2,82						79,0
0262P	CA	69,6	3,33	B1	DWC-V 300/1,1	2	3	1,10	116
	K	65,0	3,11						126
	LN-CA	70,7	3,38						113
	LN-K	65,5	3,13						125
	SL-CA	69,2	3,31						117
	SL-K	65,9	3,15						124
0302P	CA	85,0	4,07	B2					91,8
	K	77,6	3,71						109
	LN-CA	82,7	3,95						97,5
	LN-K	74,7	3,57						116
	SL-CA	81,9	3,92						99,2
	SL-K	77,7	3,72						109
0352P	CA	96,6	4,62	C1	DWC-V 300/1,5	2	4	1,50	91,7
	K	88,5	4,23						114
	LN-CA	94,4	4,52						97,8
	LN-K	89,9	4,30						110
	SL-CA	94,5	4,52						97,6
	SL-K	88,5	4,23						114
0402P	CA	108	5,16	C2					107
	K	102	4,88						120
	LN-CA	107	5,14						108
	LN-K	99,4	4,75						125
	SL-K	100	4,78						124
0412P	SL-CA	106	5,07	D1	LNTE 50-125/22/2	2	5	2,20	106
0452P	CA	122	5,83	E1	DWC-V 300/1,5	2	4	1,50	87,4
	K	114	5,47						104
	LN-CA	121	5,77						90,2

HYDRONIC GROUP

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

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0452P	LN-K	113	5,40	F1	DWC-V 300/1,5	2	4	1,50	107
	SL-K	113	5,42						106
0462P	SL-CA	119	5,67	G1	LNTE 50-125/22/2	2	5	2,20	100
0502P	CA	138	6,59	H1	DWC-V 500/1,5	2	4	1,50	66,6
	K	127	6,09						82,6
	LN-CA	134	6,42						72,3
	LN-K	125	5,99						85,9
	SL-K	124	5,95						87,2
0512P	SL-CA	133	6,36	I1	LNTE 50-125/22/2	2	5	2,20	95,7
0552P	K	144	6,90	J1	DWC-V 500/1,5	2	4	1,50	66,8
	LN-K	140	6,69						73,4
	SL-K	140	6,72						72,5
0562P	CA	160	7,67	K1	LNTE 50-125/30/2	2	6	3,00	113
	LN-CA	154	7,36						122
	SL-CA	152	7,25						124
0602P	K	166	7,92	L1	DWC-V 500/2,2	2	5	2,20	117
	LN-K	163	7,78						121
	SL-K	153	7,32						135
0612P	CA	178	8,53	M1	LNTE 50-125/30/2	2	6	3,00	110
	LN-CA	173	8,26						117
	SL-CA	172	8,24						118
0702P	K	189	9,06	N1	DWC-V 500/3	2	6	3,00	109
	LN-K	179	8,58						123
	SL-K	175	8,39						128
0712P	CA	201	9,62	O1	LNTE 50-160/30/2	2	6	3,00	111
	LN-CA	198	9,49						115
	SL-CA	195	9,32						119
0802P	K	207	9,88	P1	DWC-V 500/3	2	6	3,00	82,5
	LN-K	194	9,28						102
0812P	CA	227	10,9	Q1	LNTE 50-160/30/2	2	6	3,00	75,0
	LN-CA	221	10,6						83,5
	SL-CA	218	10,4						88,7

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



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HYDRONIC GROUP

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

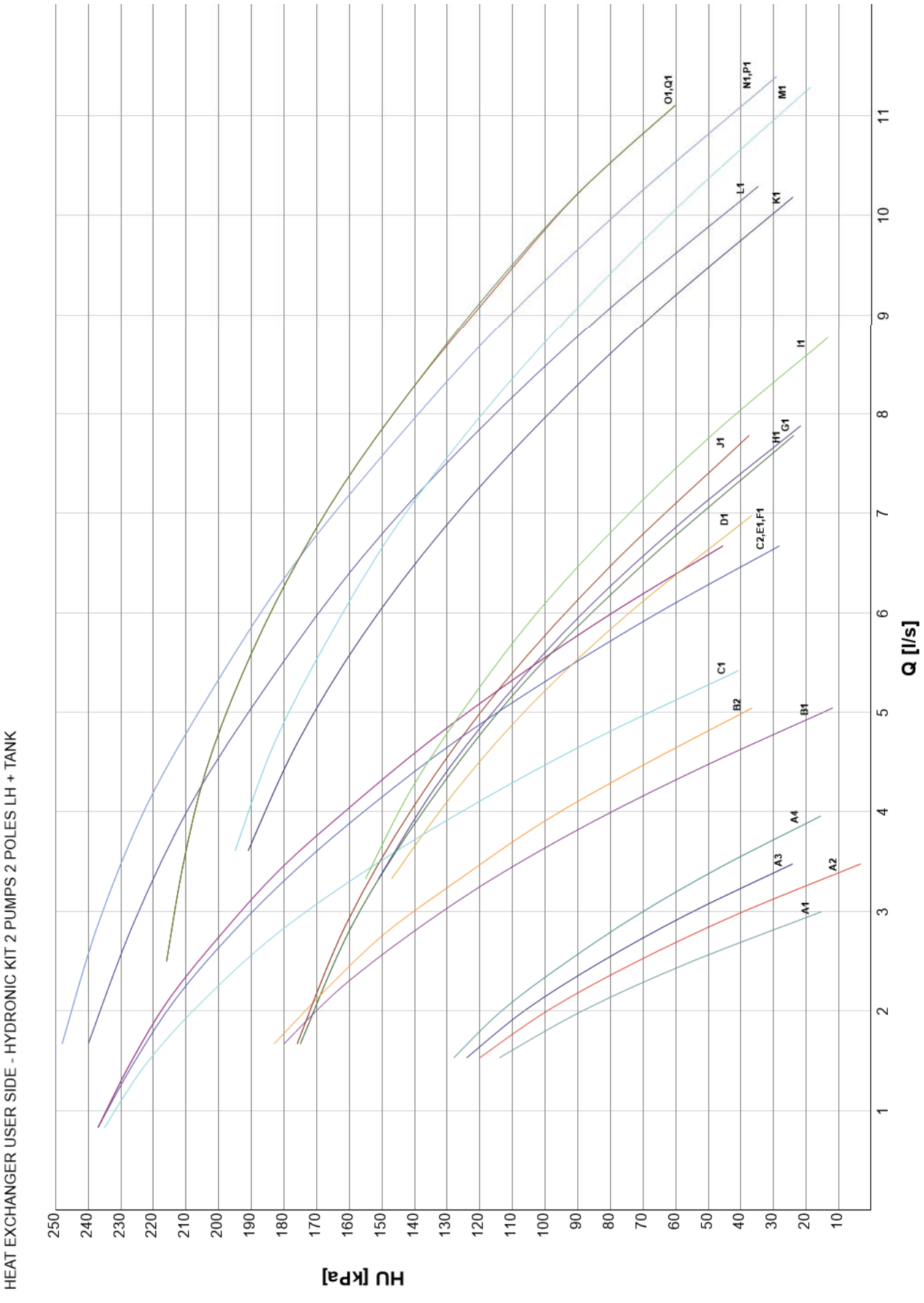
SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0152P	CA	41,7	1,99	A1	DWC-V 300/1,1(R)	2	3	1,10	88,8
	K	39,2	1,88						95,6
	LN-CA	41,5	1,98						89,4
	LN-K	39,3	1,88						95,5
	SL-CA	41,9	2,00						88,2
	SL-K	39,4	1,88						95,2
0182P	CA	47,4	2,27	A2					85,2
	K	44,3	2,12						93,3
	LN-CA	47,0	2,25						86,4
	LN-K	44,3	2,12						93,1
	SL-CA	47,5	2,27						85,0
	SL-K	44,6	2,13						92,5
0202P	CA	55,0	2,63	A3					75,9
	K	51,9	2,48						83,6
	LN-CA	55,0	2,63						75,8
	LN-K	51,7	2,47						84,1
	SL-CA	55,3	2,65						75,0
	SL-K	52,3	2,50						82,7
0252P	CA	62,5	2,99	A4					70,7
	K	58,9	2,82						79,0
	LN-CA	63,5	3,04						68,2
	LN-K	58,8	2,81						79,3
	SL-CA	62,2	2,97						71,3
	SL-K	58,9	2,82						79,0
0262P	CA	69,6	3,33	B1	DWC-V 300/1,1	2	3	1,10	116
	K	65,0	3,11						126
	LN-CA	70,7	3,38						113
	LN-K	65,5	3,13						125
	SL-CA	69,2	3,31						117
	SL-K	65,9	3,15						124
0302P	CA	85,0	4,07	B2					91,8
	K	77,6	3,71						109
	LN-CA	82,7	3,95						97,5
	LN-K	74,7	3,57						116
	SL-CA	81,9	3,92						99,2
	SL-K	77,7	3,72						109
0352P	CA	96,6	4,62	C1	DWC-V 300/1,5	2	4	1,50	91,7
	K	88,5	4,23						114
	LN-CA	94,4	4,52						97,8
	LN-K	89,9	4,30						110
	SL-CA	94,5	4,52						97,6
	SL-K	88,5	4,23						114
0402P	CA	108	5,16	C2					107
	K	102	4,88						120
	LN-CA	107	5,14						108
	LN-K	99,4	4,75						125
	SL-K	100	4,78						124
0412P	SL-CA	106	5,07	D1	LNTE 50-125/22/2	2	5	2,20	104
0452P	CA	122	5,83	E1	DWC-V 300/1,5	2	4	1,50	87,4
	K	114	5,47						104
	LN-CA	121	5,77						90,2

HYDRONIC GROUP

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

SIZE		CH		PUMP					CH
		Pfgross	Qfgross	Rif.	Model	N.	F.L.A.	F.L.I.	HU
		[kW] (1)	[l/s] (1)			Pole	[A]	[kW]	[kPa]
0452P	LN-K	113	5,40	F1	DWC-V 300/1,5	2	4	1,50	107
	SL-K	113	5,42						106
0462P	SL-CA	119	5,67	G1	LNTE 50-125/22/2	2	5	2,20	98,0
0502P	CA	138	6,59	H1	DWC-V 500/1,5	2	4	1,50	66,6
	K	127	6,09						82,6
	LN-CA	134	6,42						72,3
	LN-K	125	5,99						85,9
	SL-K	124	5,95						87,2
0512P	SL-CA	133	6,36	I1	LNTE 50-125/22/2	2	5	2,20	92,8
0552P	K	144	6,90	J1	DWC-V 500/1,5	2	4	1,50	66,8
	LN-K	140	6,69						73,4
	SL-K	140	6,72						72,5
0562P	CA	160	7,67	K1	LNTE 50-125/30/2	2	6	3,00	109
	LN-CA	154	7,36						118
	SL-CA	152	7,25						121
0602P	K	166	7,92	L1	DWC-V 500/2,2	2	5	2,20	117
	LN-K	163	7,78						121
	SL-K	153	7,32						135
0612P	CA	178	8,53	M1	LNTE 50-125/30/2	2	6	3,00	105
	LN-CA	173	8,26						112
	SL-CA	172	8,24						113
0702P	K	189	9,06	N1	DWC-V 500/3	2	6	3,00	109
	LN-K	179	8,58						123
	SL-K	175	8,39						128
0712P	CA	201	9,62	O1	LNTE 50-160/30/2	2	6	3,00	106
	LN-CA	198	9,49						110
	SL-CA	195	9,32						114
0802P	K	207	9,88	P1	DWC-V 500/3	2	6	3,00	82,5
	LN-K	194	9,28						102
0812P	CA	227	10,9	Q1	LNTE 50-160/30/2	2	6	3,00	68,6
	LN-CA	221	10,6						77,6
	SL-CA	218	10,4						83,0

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


HEAT EXCHANGER USER SIDE - HYDRONIC KIT 2 PUMPS 2 POLES LH + TANK
HU [kPa]
Q [l/s]
O1,Q1
N1,P1
M1
L1
K1
I1
J1
H1
G1
D1
C2,E1,F1
C1
B2
B1
A4
A3
A2
A1

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