

KAPPA V EVO air/water chillers and heat pumps



Technical information manual



KAPPA V EVO

Water chiller

KAPPA V EVO /HP

Reversible heat pump

KAPPA V EVO /ST

Unit with tank and pumps

KAPPA V EVO /DC

Unit with heat recovery condenser

KAPPA V EVO /DS

Unit with desuperheaters

KAPPA V EVO /LN

Low-noise version

KAPPA V EVO /SLN

Super low-noise version

KAPPA V EVO A

High performance unit

KAPPA V EVO A /HT

High Performance and high temperature unit



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Technical features

Kappa V EVO water chiller

Air-cooled water chiller unit with semi-hermetic screw compressors and shell and tube evaporators. The standard units envision:

Structure

Holding frame module realised in galvanised sheet steel and painted with polyester powders RAL 5014 at 180°C, which confer high resistance to atmospheric agents. Stainless steel bolts and screws.

Compressors

Screw semi-hermetic compressors with continuous partialisation from 50% to 100% of the load, which enable to maximise the energy yield of the unit in every functioning condition. Start-up and switch off the machine happen with a partialisation of 25%.

Optimised compressor for functioning of the economiser, from size 61.2 allowing use at all load conditions. On the economiser intake connection, the muffler attenuates the impulses of the ECO line, thus improving silence. The compressors are equipped with a carter heater, ensure lubrication from the pressure difference between flow and intake, independent cooling circuits. The motor has an electronic integral protection with temperature sensors directly inserted inside the windings and on the flow piping. Start-up is the "star-triangle" type.

Condensers

Made of finned core coils with copper pipes and high efficiency aluminium fins. The position of the coils enables to reduce the unit dimensions and, at the same time, increase the air intake surface, leaving wide space to position the components of the refrigerant and hydraulic circuits.

In case of two compressors, the condensing sections of the two circuits work autonomously.

Electric fans

Of axial type, with conveyor, studied to optimise efficiency and reduce sound emission, directly coupled to 6 poles three phase electric motor, with thermal protection (internal klixon). The protection rating of the motor is IP 54. The fan includes the accident-prevention grill.

Evaporator

Coating and dry expansion shell and tube. Optimised for use with R134a, allows to improve the unit COP, containing cooling load and overall sizes. Insulated with a closed cell expanded material coating and equipped with a temperature probe for the anti-freeze protection of every exchanger.

Refrigerant Circuit

Includes: compressor flow clock, liquid shut-off cock, load inlet, liquid indicator, solid cartridge dehydrator filter, electronic expansion valve, (also acting as a solenoid valve, closing during stops), pressure transducer for reading, from control, the high and low pressure values and relative evaporation and condensation temperatures, high and low pressure switches and safety valve. From size 61.2 they are equipped with economiser (braze-welded plate exchanger) with relative thermostatic valve, solenoid valve on the bypass line(cooling liquid).



Electronic control board

The board includes:

- Main isolating switch;
- Fuses to protect the auxiliary and power circuits;
- Compressors remote control switches;
- Fans remote control switches:
- Microprocessor for control of the following functions:
 - Water temperature adjustment, with control of outlet water;
 - Anti-freeze protection;
 - Compressors timing;
 - Compressors start-up sequence automatic rotation;
 - Alarms signal;
 - Alarms reset;
 - Partialisation;
 - Alarm cumulative contract for remote signal:
 - Forcing of partialisation for pressure limit;
 - Registration of alarms history
- Display of:
 - temperature of the outlet water;
 - Set temperature and differentials set-point;
 - Description of the alarms;
 - Counter functioning and number of unit, of the compressors and pumps (if present);
 - High and low pressure, and relative condensation and evaporation temperatures.
- Electric power supply (V/f/Hz): 400/3/50 ±5%

Checks and safety devices

- High pressure double pressure switch with manual re-insertion for every compressor;
- High pressure safety with automatic re-insertion at limited interventions managed by control;
- Low pressure safety with automatic re-insertion at limited interventions managed by control;
- High pressure safety valve;
- Anti-freeze probe at the outlet of every evaporator;
- Cooled water temperature control probe (located at the system);
- Compressors and fans over-temperature protection;
- With mechanical blade flow meter supplied.

Inspection

The units are inspected in the factory and supplied complete with oil and refrigerant fluid.



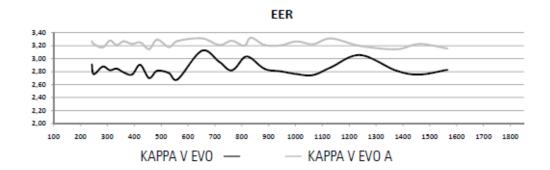
Versions

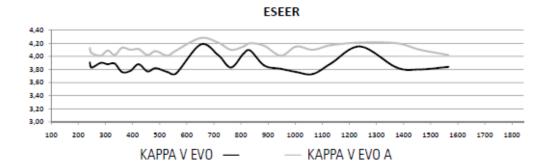
Consult the table of the possible configurations to check whether one options interferes with others.

Kappa V EVO/A:

High Efficiency Unit

Kappa V Evo Class A, for energy saving thanks to an EER always greater by 3.1 in functioning in chiller mode! 31 sizes cover a range of powers that go from 249 to 1566 kW respecting the standards set by EUROVENT to enter the highest efficiency energy class. The following diagrams show the increase of energy efficiency to 100% of the load (EER) and to partial loads (ESEER) with respect to the Kappa V Evo range, according to EUROVENT conditions.





This range, along with Standard range, has been developed in a series of versions that enrich it and complete it to satisfy all requirements that are presented below.

Kappa V EO /HP: Reversible heat pump

As well as the components of the corresponding base range, the units include: 4-way inversion valve, intake separator, liquid accumulator, second electronic expansion valve. Enabling of the microprocessor for summer/winter switch-over and automatic defrosting, with Patented logic that allows to optimise the intervention and the duration of defrosting, which is managed independently for every compressor.



Hydraulic Motor Options

Kappa V EVO/ST, Unit with tank and/or pumps

As well as the components of the corresponding base range, the unit includes according to the configurations indicated below: insulated storage tank, one/two circulation pumps, (one in stand-by if two pumps) with timed automatic commutation and in case of damage. Expansion tanks, check valve, shutter.

The ST version is available in four possible configurations:

- ST 2PS: with 2 pumps with tank;
- ST 1PS: with 1 pump with tank;
- ST 2P: with 2 pumps without tank;
- ST1P: with 1 pump without tank;

Accessory Versions

Kappa V EVO/DC:

Unit with recovery condenser

Ass well as the components of the corresponding base range, on every refrigerant circuit the unit includes a recovery condenser of 100% of the condensation heat for the production of hot water, a liquid receiver and the refrigerant system for emptying the refrigerant fluid from the condensing coil, when necessary, when recovery is activated. The condenser might be as shell or tube type. The control automatically manages the activation of the recovery on the basis of the water temperature and the deactivation of the safety device of the recovery itself due to high pressure. Not available in the HP version.

Kappa V EVO/DS Unit with desuperheaters

As well as the components of the corresponding basic version, on every refrigerant circuit the unit has a recovery heat exchanger of 20% of condensation heat, placed in series with the condensing coil. The heat exchanger is the braze-welded plate type or shell and tube. To maximise the use of the accessory, coupling with the fan rev. regulator is recommended. This version is also available in the HP set-up. In this case the interception of the recovery water circuit must be envisioned in installation during functioning in HP mode, as indicated in the manual.

Kappa V EVO /LN:

Silenced unit

As well as the components of the corresponding base range, the unit envisions the compressors compartment completely noise insulated with sound absorbing material and sound impeding material and fan revs regulator (the noise of the fans decreases with the decrease in power requested by the system and/or of the external temperature).



Kappa V EVO/SLN: Super-silent unit

As well as the components of the KAPPA V EVO/LN version coils with larger surfaces are envisioned.

As well as the versions just described, the high efficiency range also has the solution for high temperatures.

Kappa V EVO A/HT:

High efficiency unit for high temperatures

The unit allows to work with high external air temperatures as highlighted in the functioning limits indicated in the dedicated sections. Thanks to the compressors with dedicated electric motor, the HT version also allows to reach temperatures of water produced that are higher than the standard range. However, it remains a version in class A thanks to the combination of construction solutions that couple the high efficiency and attainment of high temperatures. In fact, as well as that said, especially selected fans are envisioned. Finally, tropicalisation of the electric control board is prevented by forced ventilation inside the same and via a means of appropriate dimensioning of the components.



Accessories

Refrigerant circuit accessories

- Check condensation pressure via revs regulator for functioning with low outdoor temperatures and/or to decrease machine noise when possible:
- Double set point; (high/low temperature) with unique electronic expansion valve. The
 unit evaporator is sized depending on the high temperature functioning. The set point
 change can be carried out from keyboard or digital input, in this case it must be
 specified when ordering;
- High and low pressure manometer available for all models (the intake and flow pressure can be detected from the control display also in standard machine setting);
- Liquid receivers (as per standard in HP and DC versions);
- · Compressors intake cocks;
- Liquid line solenoid valve (however the electronic expansion valve cuts-off the liquid line when the compressor stops);
- Buffer battery for electronic thermostatic valve:
- Brine Kit.

Hydraulic circuit accessories

- Anti-freeze resistance for evaporator (an anti-freeze resistance is also installed on the tank in the ST execution, on pumps piping and tank) and on any recovery exchangers;
- Water side safety valve (only ST version);
- Inverter driven pump.

Electric accessories

- RS485, Modbus, Lonworks, Bacnet, Ethernet, SNMP, FTP, HTTP serial interface;
- Power factor correction of the nominal functioning conditions on external unit IP 55 (electric power supply under the responsibility of the installer directly from the main line);
- Remote user terminal (in addition to standard one);
- Variable set point with remote signal (0-1V, 0-1 OV, 0-20mA, 4-20mA);
- Potential free functioning contacts;
- Rélé PSM management with one or two pumps;
- Electronic soft-starter :
- Absorbed current limit.
- Automatic circuit breakers;
- Maximum and minimum voltage relay;
- Power supply 415/3/50
- SLAT:
- EC fans;
- Automatic circuit breakers for compressors and fans;
- SMARTLINK.



Various Accessories

- Spring or rubber anti-vibration mounts;
- · Condensing coil in pre-painted aluminium;
- Condensing coil with passivation treatment of the aluminium and polyurethanic base cover. Treatment consists in a double layer of which the first is a passivation of the aluminium with primer function, and the second is a polyurethane base superficial covering layer. The product is highly resistant to corrosion and to basically all environmental situations. From installations in nautical environments to rural environments, from industrial areas to urban areas;
- Special pallet/slide for container shipment;
- Coil protection mesh with metal hail protection filter (version HP excluded).

Double set point

The microprocessor enables you to set two set temperatures for the production of cold and hot water. Unless specified otherwise in the order, the default values are 12/7°C and 15/10°C for chiller mode and 40/45 °C and 35/40 °C for heat pump mode. The set temperatures must, in any case, remain within the operating ranges of the unit.

Use either the keypad or the digital input to switch between the first and second set. For series that do not permit the simultaneous selection of "Select summer/winter mode with digital input" and "Double set point with digital input", summer /winter mode can be selected only on the keypad while the double set point still uses the digital input, as per our standard.

EC Fans

Units can be coupled to the innovative direct current EC axial fans with electronically commutated brushless motor. These motors with permanent magnets rotor ensure a high level of efficiency for all work conditions and allow to obtain a 15% saving per fan. Moreover, through a 0-10V analogical signal sent to every fan, the microprocessor allows to control the condensation through continuous air flow regulations on variation of the outdoor air temperature and a consequent sound emission reduction

"Brine kit" Accessory

It is applied if the evaporator output temperature is included within +3°C and -8°C. It consists in a higher thermal insulation of the exchanger and piping, a specific calibration of the low pressure switches and of the anti-freeze alarm, and dimensioning check of the mechanical thermostatic valve. If it is not included in the set-up, the "Check condensation" accessory must be added.

"Slat Accessory: Set low air temperature"

This accessory is available only for the chiller version of Kappa V Evo and Kappa V Evo A units (heat pump excluded): in absence of wind and in addition to the "Condensation control with fan speed governor" accessory, it allows extending operating limits from -10°C to -20°C of external air. This extension is obtained by a different calibration of the control parameters.

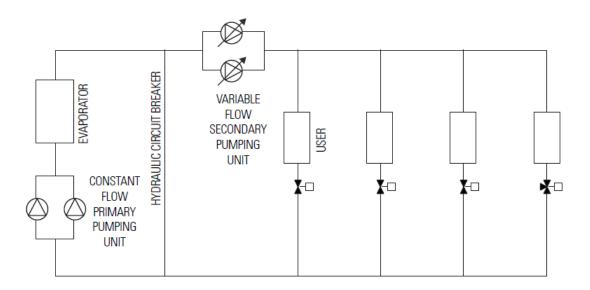


Inverter driven pump (For ST1P/S or ST2P/S)

Energy savings:

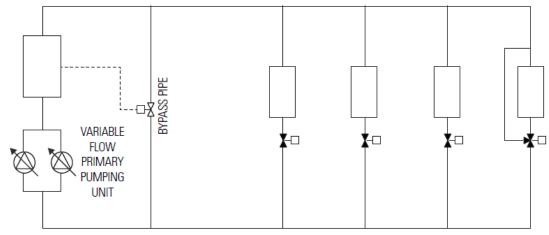
Variable flow pumps have become more widespread over the years to optimise air conditioning and cooling systems. Thanks to the inverter Driven Pump, Western Airconditioning offers an alternative method that differs from conventional layouts: a constant flow primary pump and a variable flow secondary pump. Let's compare the two solutions:

1) The figure below shows the layout of a constant flow primary pump and a variable flow secondary pump. Please note the use of the decoupling pipe between the primary and secondary system (designed to cover the entire flow rate): if the utilities only require a percentage of the nominal power, the decoupling pipe recirculates the excess flow, which means wasting pumping energy.



The figure below shows a system with only variable flow primary pumps, which also serve the secondary system. The bypass pipe and the two-way control valve ensure minimum water flow through the evaporator when the request is below the allowed minimum water flow limit to guarantee a correct heat exchange for the evaporator. The pipe and the two-way control valve are designed for a much lower water flow rate than the nominal one. This allows to considerably reduce energy losses related to the mixing process, which in traditional systems are caused by the hydraulic circuit breaker.

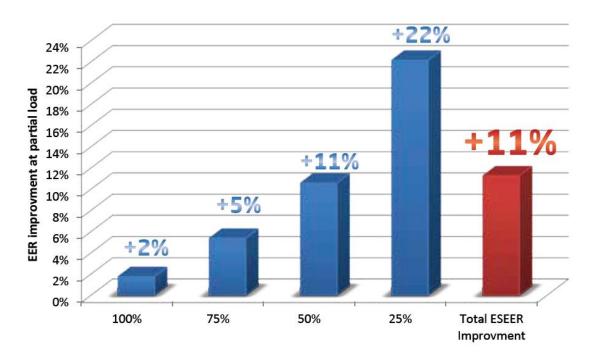




Benefits of the Inverter Driven Pump:

- Saving a set of pumps
- Reduced overall dimensions of the machines' housings
- Lower piping costs
- Reduced pressure drops
- Greater energy efficiency on the pump side

As we can see from the graph under Eurovent conditions, the systems in the diagrams have higher efficiency under part-load conditions, considering the energy consumed by the pumps as well as by the chiller (compressor plus fans).

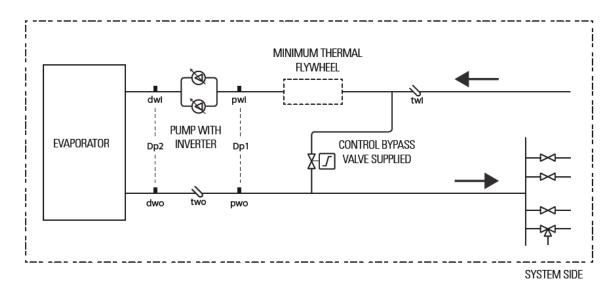


Energy savings in these conditions can be high as 11% per year and sometimes even more!



Inverter Driver Pump operating logic:

Dp1: System side pressure drops Dp2: Evaporator pressure drops



When all the utilities are in operation, the unit's pump runs at the nominal flow rate and with an available head on the system side equal to Dp1 and evaporator pressure drops equal to Dp2.

The system's heat load drop causes the shut-off valves of the utilities to close, which results in an increase in the pressure drops that the pump needs to overcome. At the same time, the inverter's control logic will reduce the flow rate, which will determine lower evaporator pressure drops and bring back the available head to the nominal Dp1 value.



Key points for a variable flow primary system: t

In order for the components of the system to operate optimally, it is important to take some key points into account:

1) Minimum water flow and bypass valve supplied:

The Inverter Driven Pump also includes the two-way bypass valve supplied with it and adequately designed in relation to the size of the unit.

If on the system side the heat load is very low, this means that many utilities are closed, which results in an increase in pressure drops. The inverter counters the Dp1 variation detected by the sensor by reducing the speed of the pump and the flow rate as a result. However, there is a limit lower than the flow rate value below which the heat exchange towards the evaporator is not performed properly and the temperature drop processed by the evaporator increases, which might activate the anti-freeze alarm. The two-way control valve adequately selected based on the machine model prevents this alarm from being triggered, thereby ensuring the minimum water flow rate towards the evaporator.

2) "Minimum thermal flywheel"

In the event of a heat load close to zero, with the unit in maximum power partialisation conditions, the pump set at the minimum flow rate and closed system valves, the machine might stop due to the anti-freeze alarm.

To prevent this problem, there must be a "minimum thermal flywheel" in the evaporator / bypass valve section.

Below is the formula to determine it:

$$Vol = \frac{P_0 * k}{N} \qquad [l]$$

 $P_{
m o}$ Machine overall chilling power [kW]

N : Inverse of the unit's minimum partialisation \mathbf{k} : parameter $\lceil \mathbf{l}/\mathbf{k}\mathbf{W} \rceil$

| Screw compressors | | 1 | 2 | 4 |
|-------------------|--------|------|------|------|
| k | [l/kW] | 14.3 | 14.3 | 14.3 |
| N | | 2 | 4 | 8 |

The water content of the evaporator, of the hydraulic module's inertial tank (if there is one) and of the pipes between the bypass and the evaporator itself may contribute to determine the "minimum thermal flywheel".

On users more distant from the machine it's strongly recommended to use 3-way valves and gate valve calibration that colleagues the final part of the ridges of the plant, in order to ensure a minimum water flow through the plant in any condition.



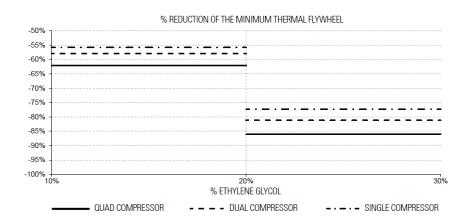
Please note: if this accessory is installed, the minimum cold water temperature at the outlet cannot drop below 7 $^{\circ}$ C. Moreover, the temperature variation considered under the conditions specified in the project must be 5 $^{\circ}$ C. Please contact our sales department for the minimum water temperature at the outlet (production of cold water) and for different temperature drop values. You should also contact the sales department in the event of production of hot water for water temperatures at the outlet below 40 $^{\circ}$ C.

Attention: the "minimum thermal flywheel" must be between the bypass valve and the evaporator. This is a part of the "minimum water content of the system" described in the relative chapter of the manual; the difference between the "minimum water content of the system" and "minimum thermal flywheel" can instead be positioned in any area of the system.

The "minimum thermal flywheel" allows the unit to operate correctly also in heat pump mode.

For cooling-only machines, if using ethylene glycol mixes, it is possible to reduce the "minimum thermal flywheel" based on the curves below

For screw compressors:



If the unit is in heat pump mode, the "minimum thermal flywheel" is not reduced even if there is glycol.



| UNIT SIZE | | | 23.1 | 25.1 | 28.1 | 31.1 | 33.2 | 35.2 | 37.2 |
|-----------------------------------|---------|-------|--------|--------|--------|---------------|---------|---------|---------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 233 | 254 | 282 | 302 | 326 | 351 | 372 |
| Total power input for cooling | (1),(2) | kW | 80 | 92 | 98 | 107 | 115 | 126 | 135 |
| EER | (1) | | 2,91 | 2,76 | 2,88 | 2,82 | 2,85 | 2,79 | 2,77 |
| ESEER | | | 3,91 | 3.83 | 3.90 | 3.88 | 3,89 | 3,76 | 3.80 |
| Efficiency class | | | В | C | Ċ | C | Ċ | Ċ | C |
| Cooling (EN 14511 values) | | | _ | | | | | | |
| Nominal cooling capacity | (1),(8) | kW | 232 | 253 | 281 | 301 | 325 | 350 | 370 |
| EER | (1),(8) | | 2.87 | 2.72 | 2.83 | 2.78 | 2.80 | 2.74 | 2.72 |
| ESEER | (8) | | 3,71 | 3,61 | 3,67 | 3,64 | 3,66 | 3,53 | 3,55 |
| Efficiency class | | | C | C | С | C | C | C | С |
| Heating (Gross values) | | | | | | | | | |
| Nominal heating capacity | (3) | kW | 229 | 260 | 283 | 308 | 333 | 351 | 381 |
| Total power input for heating | (2),(3) | kW | 71 | 79 | 86 | 93 | 104 | 118 | 121 |
| COP | (3) | | 3.23 | 3.29 | 3.29 | 3,31 | 3,22 | 2.97 | 3.15 |
| Efficiency class | | | A | A | A | A | A | Ċ | В |
| Heating (EN 14511 values) | | | | | | | | | |
| Nominal heating capacity | (3),(8) | kW | 230 | 261 | 284 | 309 | 334 | 353 | 383 |
| COP | (3),(8) | | 3.20 | 3.26 | 3.26 | 3.28 | 3.19 | 2.95 | 3.12 |
| Efficiency class | | | В | A | A | A | В | Ċ | В |
| Compressors | | | | | | | | | |
| Type | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 1/1 | 1/1 | 1/1 | 1/1 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n° | | | | Continuous | | | |
| Total oil load | | kg | 15 | 18 | 20 | 23 | 32 | 32 | 32 |
| Total cooling load (version CH) | | kg | 35 | 36 | 40 | 42 | 60 | 63 | 65 |
| Total cooling load (version HP) | | kg | 37 | 38 | 42 | 45 | 62 | 64 | 67 |
| Fans | | , i | | | | | | | |
| Type | | | | | | Axials | | | |
| Quantity | | n. | 4 | 4 | 4 | 4 | 6 | 6 | 6 |
| Air flow rate | | m³/h | 88,000 | 88,000 | 86,000 | 86,000 | 140,078 | 140,078 | 140,078 |
| Evaporators | | | | | | | | | |
| Type | | | | | 5 | Shell and tub | е | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| KAPPA V EVO water flow rate | | I/h | 40,069 | 43,680 | 48,495 | 51,935 | 56,062 | 60,432 | 63,972 |
| KAPPA V EVO pressure drop | (6) | kPa | 40 | 47 | 47 | 53 | 48 | 53 | 57 |
| KALLA V LVO pressure drop | (7) | kPa | 39 | 49 | 47 | 55 | 50 | 53 | 60 |
| Hydraulic module | | | | | | | | | |
| Useful static pressure | (9) | kPa | 204 | 205 | 188 | 169 | 191 | 177 | 164 |
| Storage tank capacity | (9) | I | 585 | 585 | 585 | 585 | - | - | - |
| Expansion tank | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | | | | | | | |
| Sound power level (basic unit) | (4) | dB(A) | 93 | 93 | 93 | 94 | 94 | 95 | 95 |
| Sound pressure level (basic unit) | (5) | dB(A) | 61 | 61 | 61 | 62 | 62 | 63 | 63 |
| Sound power level (LN version) | (4) | dB(A) | 87 | 87 | 87 | 88 | 89 | 89 | 89 |
| Sound pressure level (LN version) | (5) | dB(A) | 55 | 55 | 55 | 56 | 57 | 57 | 57 |
| Dimensions and base unit weights | S | | 0.5:5 | 0.615 | 0.615 | 0.515 | | | |
| Length | | mm | 3.246 | 3.246 | 3.246 | 3.246 | 4.263 | 4.263 | 4.263 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 2.440 | 2.510 | 2.582 | 2.640 | 3.458 | 3.416 | 3.478 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 6°C WB; condenser input-output temperature 40-45°C
(4) Sound power levels calculated compliant to ISO 3744
(5) Sound pressure levels refer to 10 meters from unit in free field and directionality factor Q=2

⁽⁶⁾ Evaporator inlet-outlet water temperature 12-7°C (7) Condenser inlet-outlet water temperature 40-45°C (8) Values in compliance with EN 14511-3:2011 (9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 40.2 | 43.2 | 47.2 | 51.2 | 54.2 | 58.2 | 61.2 |
|-----------------------------------|---------|-------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 401 | 438 | 467 | 494 | 530 | 584 | 637 |
| Total power input for cooling | (1),(2) | kW | 146 | 151 | 173 | 175 | 191 | 218 | 204 |
| EER | (1) | | 2.76 | 2.91 | 2.70 | 2.81 | 2.78 | 2.68 | 3.12 |
| ESEER | | | 3,78 | 3,88 | 3,77 | 3,82 | 3,76 | 3,74 | 4,18 |
| Efficiency class | | | C | В | D | C | C | D | Α |
| Cooling (EN 14511 values) | | | | Ŭ | | , i | , , | J | |
| Nominal cooling capacity | (1),(8) | kW | 399 | 437 | 466 | 492 | 528 | 582 | 636 |
| EER . | (1),(8) | N V V | 2,71 | 2,87 | 2,67 | 2,78 | 2,74 | 2,64 | 3,09 |
| ESEER | (8) | | 3,53 | 3,70 | 3,58 | 3,62 | 3,56 | 3,50 | 3,99 |
| Efficiency class | (0) | | C | C C | D. | C C | C C | D. | 5,55 B |
| Heating (Gross values) | | | U | U | U | U | U | U | U |
| Nominal heating capacity | (3) | kW | 402 | 442 | 478 | 494 | 547 | 615 | 629 |
| Total power input for heating | (2),(3) | kW | 125 | 155 | 156 | 159 | 185 | 187 | 188 |
| COP | (3) | N V V | 3.23 | 2.85 | 3.06 | 3.11 | 2.95 | 3.29 | 3.35 |
| Efficiency class | (5) | | 3,23 A | 2,63 C | 3,00 B | 3,11 B | 2,95 C | 3,29 A | 3,33 A |
| Heating (EN 14511 values) | | | А | U | D | D | U | А | А |
| Nominal heating capacity | (2) (0) | kW | 404 | 440 | 480 | 496 | E40 | C10 | 631 |
| COP | (3),(8) | KVV | | 443 | | | 549 | 618 | |
| | (3),(8) | | 3,20 | 2,84 | 3,04 | 3,09 | 2,93 | 3,26 | 3,33 |
| Efficiency class | | | В | С | В | В | С | Α | Α |
| Compressors | | | | | | C | | | |
| Type | | -04-0 | 0.70 | 0.70 | 0.70 | Screw | 0.70 | 0.40 | 0.70 |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n° | | | | Continuous | | | |
| Total oil load | | kg | 32 | 31 | 33 | 36 | 40 | 46 | 38 |
| Total cooling load (version CH) | | kg | 69 | 73 | 73 | 73 | 95 | 96 | 117 |
| Total cooling load (version HP) | | kg | 70 | 75 | 75 | 75 | 98 | 99 | 120 |
| Fans | | | | | | | | | |
| Туре | | | _ | | | Axials | | | |
| Quantity | | n. | 6 | 8 | 8 | 8 | 8 | 8 | 10 |
| Air flow rate | | m³/h | 140,078 | 182,000 | 182,000 | 182,000 | 174,800 | 174,800 | 218,000 |
| Evaporators | | | | | | | | | |
| Type | | | | | | Shell and tub | | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| KAPPA V EVO water flow rate | | l/h | 68,960 | 75,321 | 80,310 | 84,905 | 91,058 | 100,430 | 109,579 |
| KAPPA V EVO pressure drop | (6) | kPa | 58 | 35 | 38 | 42 | 43 | 56 | 33 |
| · · | (7) | kPa | 58 | 36 | 40 | 42 | 46 | 62 | 32 |
| Hydraulic module | | | | | | | | | |
| Useful static pressure | (9) | kPa | 233 | 222 | 209 | 199 | 206 | 180 | 186 |
| Storage tank capacity | (9) | I | - | 740 | 740 | 740 | 740 | 740 | 740 |
| Expansion tank | | - 1 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | | | | | | | |
| Sound power level (basic unit) | (4) | dB(A) | 96 | 96 | 97 | 97 | 98 | 98 | 99 |
| Sound pressure level (basic unit) | (5) | dB(A) | 64 | 64 | 65 | 65 | 66 | 65 | 66 |
| Sound power level (LN version) | (4) | dB(A) | 90 | 90 | 91 | 91 | 92 | 92 | 92 |
| Sound pressure level (LN version) | (5) | dB(A) | 58 | 58 | 59 | 59 | 60 | 59 | 59 |
| Dimensions and base unit weights | | | | | | | | | |
| Length | | mm | 4.263 | 4.761 | 4.761 | 4.761 | 4.761 | 4.761 | 5.761 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| | | | | | | | | | |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12·7°C (2) The total power is given by the sum of the power absorbed by the compressors and by the fans (3) External air temperature 7°C DB, 6°C WB, condenser input-output temperature 40-45°C (4) Sound power levels calculated compliant to ISO 3744 (5) Sound pressure levels refer to 10 meters from unit in free field and directionality factor Q=2

⁽⁶⁾ Evaporator inlet-outlet water temperature 12-7°C (7) Condenser inlet-outlet water temperature 40-45°C (8) Values in compliance with EN 14511-3:2011 (9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 67.2 | 70.2 | 73.2 | 80.2 | 82.2 | 85.2 | 90.2 |
|-----------------------------------|---------|-------------------|----------------|----------------|-------------------|----------------|----------------|----------------|----------------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 667 | 699 | 729 | 775 | 812 | 856 | 894 |
| Total power input for cooling | (1),(2) | kW | 215 | 244 | 247 | 275 | 269 | 284 | 315 |
| FFR | (1) | NVV. | 3.11 | 2.87 | 2.95 | 2.82 | 3.02 | 3.01 | 2.84 |
| ESEER | 11/ | | 4,19 | 3,89 | 4,02 | 3,83 | 4,04 | 4,09 | 3,86 |
| Efficiency class | | | 4,13 A | 0,03 C | ч,о <u>г</u> В | C C | В | н,оо В | C C |
| Cooling (EN 14511 values) | i | | A | U | U | U | U | U | U |
| Nominal cooling capacity | (1),(8) | kW | 665 | 697 | 727 | 772 | 809 | 853 | 891 |
| EER . | (1),(8) | NV V | 3,07 | 2,84 | 2,91 | 2,78 | 2,98 | 2,97 | 2,80 |
| ESEER | (8) | | 3,99 | 3,69 | 3,80 | 3,61 | 3,81 | 3.84 | 3,61 |
| Efficiency class | (0) | | 3,33 B | 0,00 C | 3,00 B | C C | 3,01 B | 3,04 B | C C |
| Heating (Gross values) | | | U | U | U | U | ט | U | U |
| Nominal heating capacity | (3) | kW | 656 | 715 | 726 | 780 | _ | _ | _ |
| Total power input for heating | (2),(3) | kW | 196 | 210 | 215 | 228 | | _ | |
| COP | (3) | N.V.V | 3.36 | 3.41 | 3.38 | 3.43 | _ | _ | _ |
| Efficiency class | (9) | | 3,30 A | 3,41 A | 3,36 A | 3,43 A | | | |
| Heating (EN 14511 values) | | | A | A | A | A | _ | _ | |
| Nominal heating capacity | (3),(8) | kW | 658 | 717 | 728 | 783 | _ | _ | |
| COP | (3),(8) | KVV | 3,33 | 3,39 | 3,36 | 3,40 | | _ | |
| Efficiency class | (3),(0) | | 3,33 A | 3,35 A | 3,30 A | 3,40 A | | | _ |
| Compressors | | | А | А | А | А | - | - | - |
| Type | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n. | Z / Z | Z / Z | Z / Z | Continuous | | Z / Z | Z / Z |
| Total oil load | | kg | 40 | 46 | 43 | 46 | 46 | 51 | 56 |
| Total cooling load (version CH) | | kg | 119 | 122 | 128 | 144 | 139 | 141 | 141 |
| Total cooling load (version HP) | | kg | 121 | 124 | 131 | 148 | 100 | 141 | 141 |
| Fans | | Ny | 121 | 124 | 131 | 140 | | | |
| Type | | | | | | Axials | | | |
| Quantity | | n. | 10 | 10 | 10 | 10 | 12 | 12 | 12 |
| Air flow rate | | m ³ /h | 218,000 | 218,000 | 218,000 | 206,000 | 262,000 | 262,000 | 262,000 |
| Evaporators | | 111 /11 | 210,000 | 210,000 | 210,000 | 200,000 | 202,000 | 202,000 | 202,000 |
| Type | | | | | 9 | Shell and tub | Ω | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| KAPPA V EVO water flow rate | | l/h | 114,731 | 120,206 | 125,446 | 133,230 | 139,639 | 147,152 | 153,740 |
| | (6) | kPa | 36 | 39 | 43 | 47 | 47 | 51 | 55 |
| KAPPA V EVO pressure drop | (7) | kPa | 35 | 41 | 43 | 48 | - 7/ | - 01 | |
| Hydraulic module | (*) | KI U | - 33 | T1 | 70 | 10 | | | |
| Useful static pressure | (9) | kPa | 180 | 164 | 154 | 214 | 203 | 190 | 190 |
| Storage tank capacity | (9) | l I | 740 | 740 | 740 | 740 | 900 | 900 | 900 |
| Expansion tank | (0) | i | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | 20 | | 20 | 20 | | 20 | 20 |
| Sound power level (basic unit) | (4) | dB(A) | 99 | 99 | 100 | 100 | 100 | 100 | 100 |
| Sound pressure level (basic unit) | (5) | dB(A) | 66 | 66 | 67 | 67 | 67 | 67 | 67 |
| Sound power level (LN version) | (4) | dB(A) | 93 | 93 | 94 | 94 | 94 | 94 | 95 |
| Sound pressure level (LN version) | (5) | dB(A) | 60 | 60 | 61 | 61 | 61 | 61 | 62 |
| Dimensions and base unit weights | 197 | ub(rt) | - 00 | - 00 | 01 | - 01 | | | . 02 |
| | | | F 701 | 5.761 | 5.761 | 5.761 | 6.761 | 6.761 | 6.761 |
| | | mm | n/ni | | | | | | |
| Length | | mm | 5.761 2.315 | | | | | | |
| | | mm mm mm | 2.315 2.402 | 2.315 2.402 | 2.315 2.402 | 2.315 2.402 | 2.315 2.402 | 2.315 2.402 | 2.315 2.402 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12.7°C
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 8°C WB; condenser input-output temperature 40-45°C
(4) Sound power levels calculated compliant to ISO 3744
(5) Sound pressure levels refer to 10 meters from unit in free field and directionality factor Q=2

⁽⁶⁾ Evaporator inlet-outlet water temperature 12-7°C (7) Condenser inlet-outlet water temperature 40-45°C (8) Values in compliance with EN 14511-3:2011 (9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 95.2 | 100.2 | 105.2 | 110.2 | 115.2 | 120.2 | 130.2 |
|-----------------------------------|-------------------------|----------|-----------|-----------|----------|---------------------|----------|------------|----------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 940 | 978 | 1027 | 1078 | 1175 | 1272 | 1307 |
| Total power input for cooling | (1),(2) | kW | 335 | 354 | 376 | 393 | 410 | 417 | 457 |
| EER . | (1) | | 2.80 | 2.76 | 2.74 | 2.75 | 2.87 | 3.05 | 2.86 |
| ESEER | \''/ | | 3,81 | 3,76 | 3,81 | 3,73 | 3,89 | 4,15 | 3,89 |
| Efficiency class | | | C | C | C | C | C | н, 10 В | C |
| Cooling (EN 14511 values) | | | 0 | U | U | U | U | U | |
| Nominal cooling capacity | (1),(8) | kW | 937 | 975 | 1023 | 1076 | 1172 | 1269 | 1303 |
| EER | (1),(8) | KVV | 2,77 | 2,73 | 2,69 | 2,72 | 2,84 | 3,02 | 2,83 |
| ESEER | (8) | | 3,59 | 3,54 | 3,56 | 3,58 | 3,71 | 3,94 | 3,68 |
| Efficiency class | (0) | | 0,00 C | C | D. | C C | C C | 8 B | C |
| Heating (Gross values) | | | U | U | ט | U | U | U | U |
| Nominal heating capacity | (3) | kW | _ | _ | _ | _ | _ | _ | _ |
| Total power input for heating | (2),(3) | kW | _ | _ | _ | _ | _ | _ | _ |
| COP | (3) | K V V | _ | _ | _ | _ | _ | _ | _ |
| Efficiency class | (0) | | _ | _ | _ | _ | _ | _ | _ |
| Heating (EN 14511 values) | | | | | | | | | |
| Nominal heating capacity | (3),(8) | kW | _ | _ | _ | _ | _ | _ | |
| COP | (3),(8) | NVV. | | _ | _ | | | | |
| Efficiency class | (3),(0) | | | | | | | | |
| Compressors | | | - | _ | | - | I | - | |
| Type | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n. | 2/2 | Z Z | 2/2 | Continuous | | 2/2 | 2/2 |
| Total oil load | | kg | 56 | 56 | 56 | 56 | 56 | 50 | 50 |
| Total cooling load (version CH) | | kg | 159 | 173 | 185 | 187 | 188 | 196 | 219 |
| Total cooling load (version HP) | | kg kg | 100 | 173 | 100 | 107 | 100 | 190 | 213 |
| Fans | | кy | | | | | | | |
| Type | | | | | | Axials | | | |
| Quantity | | n. | 12 | 12 | 14 | 14 | 16 | 16 | 16 |
| Air flow rate | | m³/h | 257.000 | 252.000 | 304.000 | 304.000 | 354.000 | 354.000 | 348.000 |
| Evaporators | | 111 /11 | 237,000 | 232,000 | 304,000 | 304,000 | 334,000 | 334,000 | 340,000 |
| Type | | | 1 | | | Shell and tub | 10 | | |
| Quantity | | | 1 | 1 | 1 | ileli allu tub 1 | 1 | 1 | 1 |
| KAPPA V EVO water flow rate | | l/h | 161,599 | 168,229 | 176,612 | 185,365 | 202,064 | 218,798 | 224,690 |
| RAITA V LVO Water now rate | (6) | kPa | 46 | 49 | 59 | 28 | 33 | 39 | 42 |
| KAPPA V EVO pressure drop | (7) | kPa | 40 | 40 | J3 | 20 | - 33 | 39 | 42 |
| Hydraulic module | (7) | NI a | | | | | | | |
| Useful static pressure | (9) | kPa | 239 | 237 | 209 | 225 | 209 | 185 | 212 |
| Storage tank capacity | (9) | N a | 900 | 900 | 900 | 900 | 900 | 900 | 900 |
| Expansion tank | (5) | | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | l | 20 | 20 | 20 | 23 | 20 | 23 | 23 |
| Sound power level (basic unit) | (4) | dB(A) | 101 | 101 | 102 | 102 | 102 | 102 | 103 |
| Sound pressure level (basic unit) | (4) (5) | dB(A) | 68 | 101 68 | 69 | 69 | 69 | 69 | 70 |
| Sound power level (LN version) | (4) | dB(A) | 95 | 95 | 96 | 96 | 96 | 97 | 70 97 |
| Sound pressure level (LN version) | (4) | | 62 | 95 62 | 96 63 | 63 | 96 63 | 64 | 97 64 |
| Dimensions and base unit weights | (5) | dB(A) | 0Z | UΖ | บง | 03 | 00 | 04 | 04 |
| | | popo | 6.761 | 6 761 | 7 701 | 7.701 | 0.261 | 0.001 | 0.261 |
| Length | | mm | 6.761 | 6.761 | 7.761 | 7.761 | 9.261 | 9.261 | 9.261 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 6.333 | 6.420 | 6.981 | 7.043 | 7.883 | 8.130 | 8.650 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 6°C WB; condenser input-output temperature 40-45°C
(4) Sound power levels calculated compliant to ISO 3744
(5) Sound pressure levels refer to 10 meters from unit in free field and directionality factor Q=2

⁽⁶⁾ Evaporator inlet-outlet water temperature 12-7°C
(7) Condenser inlet-outlet water temperature 40-45°C
(8) Values in compliance with EN 14511-3:2011
(9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 140.2 | 150.4 | 160.4 | 180.4 |
|-----------------------------------|---------|--------|----------|---------|---------|---------|
| Cooling (Gross values) | | | | | | |
| Nominal cooling capacity | (1) | kW | 1361 | 1460 | 1551 | 1750 |
| Total power input for cooling | (1),(2) | kW | 483 | 530 | 549 | 659 |
| EER | (1) | | 2,82 | 2,75 | 2,83 | 2,66 |
| ESEER | | | 3,83 | 3,80 | 3,84 | 3,73 |
| Efficiency class | | | С | С | С | D |
| Cooling (EN 14511 values) | | | | | | |
| Nominal cooling capacity | (1),(8) | kW | 1357 | 1456 | 1547 | 1744 |
| EER | (1),(8) | | 2,78 | 2,73 | 2,80 | 2,62 |
| ESEER | (8) | | 3,62 | 3,61 | 3,64 | 3,49 |
| Efficiency class | | | С | С | С | D |
| Heating (Gross values) | | | | | | |
| Nominal heating capacity | (3) | kW | - | - | - | - |
| Total power input for heating | (2),(3) | kW | - | - | - | - |
| COP | (3) | | - | - | - | - |
| Efficiency class | | | - | - | - | - |
| Heating (EN 14511 values) | | | | | | |
| Nominal heating capacity | (3),(8) | kW | - | - | - | - |
| COP | (3),(8) | | - | - | - | - |
| Efficiency class | | | - | - | - | - |
| Compressors | | | | | | |
| Type | | | | Scr | ew | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 4/4 | 4/4 | 4/4 |
| Partialisation steps | | n. | | Conti | nuous | |
| Total oil load | | kg | 50 | 80 | 92 | 112 |
| Total cooling load (version CH) | | kg | 242 | 246 | 288 | 295 |
| Total cooling load (version HP) | | kg | | | | |
| Fans | | | | | | |
| Type | | | | Axi | als | |
| Quantity | | n. | 16 | 20 | 20 | 20 |
| Air flow rate | | m³/h | 342,000 | 436,000 | 412,000 | 412,000 |
| Evaporators | | , | 0 12/000 | 100/000 | 112,000 | , |
| Туре | | | | Shell a | nd tube | |
| Quantity | | | 1 | 7 | 2 | 2 |
| KAPPA V EVO water flow rate | | I/h | 234,101 | 251,075 | 266,738 | 300,946 |
| | (6) | kPa | 44 | 37 | 40 | 54 |
| KAPPA V EVO pressure drop | (7) | kPa | | | | |
| Hydraulic module | | | | | | |
| Useful static pressure | (9) | kPa | 201 | 189 | 172 | 214 |
| Storage tank capacity | (9) | 1 | 900 | - | - | |
| Expansion tank | 1-1 | İ | 25 | 25 | 25 | 25 |
| Noise | | | | | | |
| Sound power level (basic unit) | (4) | dB(A) | 103 | 103 | 103 | 104 |
| Sound pressure level (basic unit) | (5) | dB(A) | 70 | 70 | 70 | 71 |
| Sound power level (LN version) | (4) | dB(A) | 97 | 97 | 97 | 98 |
| Sound pressure level (LN version) | (5) | dB(A) | 64 | 64 | 64 | 65 |
| Dimensions and base unit weight | | 45,7.7 | | | ğ. | |
| _ength | | mm | 9.261 | 11.143 | 11.143 | 11.143 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.368 | 2.368 | 2.368 | 2.368 |
| Weight when functioning | | kg | 8.674 | 10.584 | 11.180 | 11.612 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C (2) The total power is given by the sum of the power absorbed by the compressors and by the fans (3) External air temperature 7°C DB, 6°C WB; condenser input-output temperature 40-45°C (4) Sound power levels calculated compliant to ISO 3744 (5) Sound pressure levels refer to 10 meters from unit in free field and directionality factor Q=2 (6) Evaporator inlet-outlet water temperature 12-7°C (7) Condenser inlet-outlet water temperature 40-45°C (8) Values in compliance with EN 14511-3:2011 (9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 23.1 | 25.1 | 28.1 | 31.1 | 33.2 | 35.2 | 37.2 |
|-----------------------------------|---------|----------|--------|-------------|-----------|---------------|-----------|---------|---------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 232 | 253 | 275 | 294 | 324 | 349 | 370 |
| Total power input for cooling | (1),(2) | kW | 78 | 90 | 99 | 108 | 112 | 123 | 132 |
| EER | (1) | | 2,96 | 2,80 | 2,78 | 2,72 | 2,90 | 2,84 | 2,80 |
| ESEER | | | 3,93 | 3,84 | 3,85 | 3,83 | 3,91 | 3,78 | 3,81 |
| Efficiency class | | | В | С | С | С | С | С | С |
| Cooling (EN 14511 values) | | | | | | | | | |
| Nominal cooling capacity | (1),(8) | kW | 231 | 252 | 274 | 293 | 323 | 348 | 368 |
| EER | (1),(8) | | 2,92 | 2,75 | 2,74 | 2,68 | 2,85 | 2,79 | 2,75 |
| ESEER | (8) | | 3,73 | 3,62 | 3,64 | 3,60 | 3,68 | 3,55 | 3,56 |
| Efficiency class | | | В | С | С | D | С | С | С |
| Heating (Gross values) | | | | | | | | | |
| Nominal heating capacity | (3) | kW | 234 | 265 | 280 | 305 | 340 | 358 | 389 |
| Total power input for heating | (2),(3) | kW | 70 | 78 | 84 | 91 | 102 | 117 | 119 |
| COP | (3) | | 3,35 | 3,41 | 3,35 | 3,37 | 3,34 | 3,07 | 3,26 |
| Efficiency class | | | A | A | A | A | A | В | A |
| Heating (EN 14511 values) | | | | | | | | | |
| Nominal heating capacity | (3),(8) | kW | 234 | 266 | 281 | 306 | 341 | 360 | 391 |
| COP | (3),(8) | | 3,32 | 3,37 | 3,32 | 3,33 | 3,31 | 3,05 | 3,22 |
| Efficiency class | (-//(-/ | | A | Α | A | A | Α | В | A |
| Compressors | | | | · · · · · · | · · · · · | 1 | · · · · · | | , , |
| Туре | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 1/1 | 1/1 | 1/1 | 1/1 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n° | | | · | Continuous | | -/- | -/- |
| Total oil load | | kg | 15 | 18 | 20 | 23 | 32 | 32 | 32 |
| Total cooling load (version CH) | | kg | 35 | 36 | 40 | 42 | 60 | 63 | 65 |
| Total cooling load (version HP) | | kg | 37 | 38 | 42 | 45 | 62 | 64 | 67 |
| Fans | | Ng . | Ŭ, | - 55 | '- | | Ü2 | Ŭ. | 0, |
| Туре | | | | | | Axials | | | |
| Quantity | | n° | 4 | 4 | 4 | 4 | 6 | 6 | 6 |
| Air flow rate | | m³/h | 71.000 | 71.000 | 68.000 | 68.000 | 105.000 | 105.000 | 105.000 |
| Evaporators | | 111 / 11 | 71.000 | 71.000 | 00.000 | 00.000 | 100.000 | 100.000 | 100.000 |
| Type | | | | | | Shell and tub | 10 | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| KAPPA V EVO water flow rate | | I/h | 39.868 | 43 462 | 47.283 | 50.636 | 55.782 | 60.059 | 63.653 |
| | (6) | kPa | 40 | 47 | 45 | 50.000 | 48 | 52 | 56 |
| KAPPA V EVO pressure drop | (7) | kPa | 40 | 51 | 46 | 54 | 52 | 55 | 62 |
| Hydraulic module | (7) | KI G | 40 | - 51 | 40 | 34 | JZ | - 55 | UZ |
| Useful static pressure | (9) | kPa | 204 | 205 | 188 | 169 | 191 | 177 | 164 |
| Storage tank capacity | (9) | Ki U | 585 | 585 | 585 | 585 | - | | - |
| Expansion tank | (0) | ! | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Sound power level (basic unit) | (4) | dB(A) | 82 | 82 | 83 | 83 | 83 | 84 | 84 |
| Sound pressure level (basic unit) | (5) | dB(A) | 50 | 50 | 51 | 51 | 51 | 52 | 52 |
| Dimensions and base unit weigh | | ub(H) | JU | JU | JI | JI | JI | JL | JZ |
| Length | to . | mm | 3.246 | 3.246 | 3.246 | 3.246 | 4.263 | 4.263 | 4.263 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| 0 | | | | | | | | | |
| Weight when functioning | | kg | 2.650 | 2.720 | 2.790 | 2.852 | 3.906 | 3.866 | 3.926 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C (2) The total power is given by the sum of the power absorbed by the compressors and by the fans (3) External air temperature 7°C DB, 6°C WB; condenser input-output temperature 40-45°C (4) Sound power levels calculated compliant to 150 3744 (5) Sound pressure levels refer to 10 meters from unit in free field and directionality factor Q=2

⁽⁶⁾ Evaporator inlet-outlet water temperature 12-7°C (7) Condenser inlet-outlet water temperature 40-45°C (8) Values in compliance with EN 14511-3:2011 (9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 40.2 | 43.2 | 47.2 | 51.2 | 54.2 | 58.2 | 61.2 |
|---------------------------------------|---------|----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 399 | 438 | 465 | 492 | 517 | 569 | 621 |
| Total power input for cooling | (1),(2) | kW | 145 | 151 | 173 | 185 | 198 | 219 | 210 |
| EER | (1) | | 2.75 | 2.91 | 2.69 | 2.66 | 2.61 | 2.60 | 2.96 |
| ESEER | | | 3,77 | 3,88 | 3,76 | 3,81 | 3,71 | 3,69 | 4,13 |
| Efficiency class | | | C | В | D | D | D,,, i | D | В |
| Cooling (EN 14511 values) | | | | | , , | | | | |
| Nominal cooling capacity | (1),(8) | kW | 397 | 437 | 463 | 490 | 515 | 567 | 619 |
| EER | (1),(8) | NVV | 2,70 | 2,87 | 2,66 | 2,63 | 2,58 | 2,57 | 2,93 |
| ESEER | (8) | | 3,52 | 3,70 | 3,57 | 3,61 | 3,52 | 3,46 | 3,95 |
| Efficiency class | (0) | | C | C | D,0, | D,01 | D. | D, 40 | В |
| Heating (Gross values) | | | | U | U | U | U | U | ט |
| Nominal heating capacity | (3) | kW | 410 | 451 | 488 | 504 | 541 | 609 | 623 |
| Total power input for heating | (2),(3) | kW | 123 | 153 | 154 | 157 | 180 | 182 | 181 |
| COP | (3) | NVV | 3,34 | 2,95 | 3,17 | 3,22 | 3,00 | 3,34 | 3,43 |
| Efficiency class | (3) | | 3,34 A | 2,90 C | 3,17 B | 3,22 A | 3,00 C | 3,34 A | ა,4ა A |
| Heating (EN 14511 values) | | | A | U | ט | А | U | А | <u> </u> |
| Nominal heating capacity | (3),(8) | kW | 412 | 452 | 489 | 506 | 543 | 612 | 624 |
| COP | (3),(8) | KVV | 3,30 | 2,93 | 3,15 | 3,19 | 2,98 | 3,31 | 3,41 |
| Efficiency class | (3),(0) | | 3,30 A | 2,93 C | 3,13 B | 3,19 B | 2,90 C | اد,ی A | 3,41 A |
| Compressors | | | A | U | D | D | U | А | А |
| Type | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | | 2/2 | 2/2 | 2/2 |
| | | | 2/2 | Z / Z | 2/2 | 2/2 | | 2/2 | Z / Z |
| Partialisation steps | | n° | 22 | 01 | 22 | Continuous | | 40 | 38 |
| Total oil load | | kg | 32 | 31 | 33 | 36 | 40 05 | 46 00 | |
| Total cooling load (version CH) | | kg | 69 | 73 | 73 | 73 75 | 95 | 96 | 117 |
| Total cooling load (version HP) | | kg | 70 | 75 | 75 | 75 | 98 | 99 | 120 |
| Fans | | | | | | Aviala | | | |
| Type | | n° | | | | Axials | | | 10 |
| Quantity | | | 6 | 8 | 8 | 8 | 8 | 8 | 10 |
| Air flow rate | | m³/h | 105.000 | 133.000 | 133.000 | 133.000 | 127.000 | 127.000 | 158.000 |
| Evaporators | | | | | | N II I I | | | |
| Type | | | | | | Shell and tub | | | |
| Quantity | | 1.71 | 1 | 1 | 70,000 | 1 | 1 | 1 | 1 |
| KAPPA V EVO water flow rate | (0) | I/h | 68.615 | 75.288 | 79.908 | 84.528 | 88.865 | 97.919 | 106.806 |
| KAPPA V EVO pressure drop | (6) | kPa | 57 | 35 | 38 | 42 | 41 | 53 | 31 |
| · · · · · · · · · · · · · · · · · · · | (7) | kPa | 61 | 37 | 41 | 44 | 45 | 61 | 32 |
| Hydraulic module | (0) | I D | 000 | 000 | 000 | 400 | 000 | 400 | 400 |
| Useful static pressure | (9) | kPa | 233 | 222 | 209 | 199 | 206 | 180 | 186 |
| Storage tank capacity | (9) | <u> </u> | - | 740 | 740 | 740 | 740 | 740 | 740 |
| Expansion tank | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | IDAA | | | 0- | | | | |
| Sound power level (basic unit) | (4) | dB(A) | 85 | 85 | 85 | 85 | 86 | 86 | 86 |
| Sound pressure level (basic unit) | (5) | dB(A) | 53 | 53 | 53 | 53 | 54 | 53 | 53 |
| Dimensions and base unit weight | S | | | | | | | ! | |
| Length | | mm | 4.263 | 4.761 | 4.761 | 4.761 | 4.761 | 4.761 | 5.761 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 3.956 | 4.294 | 4.482 | 4.554 | 4.566 | 4.688 | 5.618 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 6°C WB; condenser input-output temperature 40-45°C
(4) Sound power levels calculated compliant to ISO 3744
(5) Sound pressure levels refer to 10 meters from unit in free field and directionality factor Q=2

⁽⁶⁾ Evaporator inlet-outlet water temperature 12-7°C (7) Condenser inlet-outlet water temperature 40-45°C (8) Values in compliance with EN 14511-3:2011 (9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 67.2 | 70.2 | 73.2 | 80.2 | 82.2 | 85.2 | 90.2 |
|-----------------------------------|---------|----------|---------|---------------------------------------|------------|---|---------|---------|----------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 650 | 682 | 713 | 736 | 792 | 826 | 872 |
| Total power input for cooling | (1),(2) | kW | 224 | 246 | 255 | 278 | 271 | 294 | 319 |
| EER | (1) | | 2.90 | 2.77 | 2.80 | 2.65 | 2.92 | 2.81 | 2.73 |
| ESEER | \.'.' | | 4,14 | 3,84 | 3,97 | 3,73 | 3,99 | 4,02 | 3,81 |
| Efficiency class | | | В. | C | C | D | В | C | C |
| Cooling (EN 14511 values) | | | | , , | J | | | | |
| Nominal cooling capacity | (1),(8) | kW | 649 | 680 | 710 | 734 | 789 | 823 | 868 |
| EER | (1),(8) | | 2,87 | 2,74 | 2,76 | 2,62 | 2,89 | 2,78 | 2,69 |
| ESEER | (8) | | 3,94 | 3,65 | 3,76 | 3,53 | 3,77 | 3,79 | 3,58 |
| Efficiency class | \-/ | | C | C | C | D | C | C | D |
| Heating (Gross values) | | | | | , , | | | | i |
| Nominal heating capacity | (3) | kW | 649 | 708 | 719 | 749 | _ | _ | - |
| Total power input for heating | (2),(3) | kW | 189 | 203 | 208 | 218 | - | - | - |
| COP | (3) | IX V V | 3,43 | 3,48 | 3,45 | 3.44 | _ | _ | _ |
| Efficiency class | | | A | Α Α | 0,10 A | Α Α | - | - | - |
| Heating (EN 14511 values) | | | † | · · · · · · · · · · · · · · · · · · · | / ` | / ` ` | | | <u>i</u> |
| Nominal heating capacity | (3),(8) | kW | 651 | 710 | 721 | 751 | - | - | _ |
| COP | (3),(8) | | 3,41 | 3,45 | 3.42 | 3.41 | - | - | - |
| Efficiency class | (0),(0) | | Α | Α | Α | Α | _ | _ | _ |
| Compressors | | | | | | ,,, | | | |
| Type | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n° | 2,2 | . L/L | . Z/Z | Continuous | | . L/L | |
| Total oil load | | kg | 40 | 46 | 43 | 46 | 46 | 51 | 56 |
| Total cooling load (version CH) | | kg | 119 | 122 | 128 | 144 | 139 | 141 | 141 |
| Total cooling load (version HP) | | kg | 121 | 124 | 131 | 148 | 100 | 171 | i |
| Fans | | kg | 121 | 127 | 101 | 170 | | | |
| Туре | | | | | | Axials | | | |
| Quantity | | n° | 10 | 10 | 10 | 10 | 12 | 12 | 12 |
| Air flow rate | | m³/h | 158.000 | 158.000 | 158.000 | 158.000 | 188.000 | 188.000 | 188.000 |
| Evaporators | | 111 / 11 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 |
| Туре | | | | | 9 | Shell and tub | ne | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| KAPPA V EVO water flow rate | | l/h | 111.836 | 117.201 | 122 567 | 126.612 | 136.148 | 142.016 | 149.897 |
| | (6) | kPa | 34 | 37 | 41 | 42 | 45 | 48 | 52 |
| KAPPA V EVO pressure drop | (7) | kPa | 34 | 40 | 42 | 44 | .0 | | |
| Hydraulic module | | KI G | | 10 | ' - | • | | | |
| Useful static pressure | (9) | kPa | 180 | 164 | 154 | 214 | 203 | 190 | 190 |
| Storage tank capacity | (9) | | 740 | 740 | 740 | 740 | 900 | 900 | 900 |
| Expansion tank | | i | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | | | | | | | |
| Sound power level (basic unit) | (4) | dB(A) | 87 | 87 | 88 | 88 | 88 | 89 | 90 |
| Sound pressure level (basic unit) | (5) | dB(A) | 54 | 54 | 55 | 55 | 55 | 56 | 57 |
| Dimensions and base unit weights | 191 | ub(h) | . 57 | | | - 50 | 30 | . 50 | - 5, |
| Length | | mm | 5.761 | 5.761 | 5.761 | 5.761 | 6.761 | 6.761 | 6.761 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 5.618 | 5.700 | 5.684 | 6.044 | 5.876 | 6.168 | 6.276 |
| VVOIGHT WHICH TUHCHOHING | | Ng | 0.010 | 3.700 | 0.004 | 0.044 | 3.070 | 0.100 | 0.270 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C (2) The total power is given by the sum of the power absorbed by the compressors and by the fans (3) External air temperature 7°C DB, 6°C WB; condenser input-output temperature 40-45°C (4) Sound power levels calculated compliant to 150 3744 (5) Sound pressure levels refer to 10 meters from unit in free field and directionality factor Q=2

⁽⁶⁾ Evaporator inlet-outlet water temperature 12-7°C (7) Condenser inlet-outlet water temperature 40-45°C (8) Values in compliance with EN 14511-3:2011 (9) In ST 2PS version



| UNIT SIZE | | | 95.2 | 100.2 | 105.2 | 110.2 | 115.2 | 120.2 | 130.2 |
|-----------------------------------|---------|--------|----------|----------|---------|---------------|---------|---------|----------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 914 | 951 | 1001 | 1051 | 1146 | 1236 | 1261 |
| Total power input for cooling | (1),(2) | kW | 347 | 359 | 380 | 418 | 414 | 430 | 471 |
| EER | (1) | | 2,63 | 2,65 | 2,64 | 2,51 | 2.77 | 2.87 | 2,68 |
| ESEER | 1 | | 3,76 | 3,71 | 3,76 | 3,68 | 3,84 | 4,09 | 3,82 |
| Efficiency class | | | D | D | D | D | C | С | D |
| Cooling (EN 14511 values) | | | | | | | | | |
| Nominal cooling capacity | (1),(8) | kW | 911 | 948 | 997 | 1049 | 1143 | 1233 | 1258 |
| EER | (1),(8) | | 2,60 | 2,61 | 2,60 | 2,50 | 2,74 | 2,84 | 2,65 |
| ESEER | (8) | | 3,55 | 3,50 | 3,52 | 3,54 | 3,67 | 3,89 | 3,63 |
| Efficiency class | | | D | Ď | D | É | C | C | D |
| Heating (Gross values) | | | <u> </u> | | | | | | <u> </u> |
| Nominal heating capacity | (3) | kW | - | - | - | - | - | - | - |
| Total power input for heating | (2),(3) | kW | - | - | - | - | - | - | - |
| COP | (3) | | - | - | - | - | - | - | - |
| Efficiency class | 1-7 | | - | - | - | - | - | - | - |
| Heating (EN 14511 values) | L | | | | | | | | <u> </u> |
| Nominal heating capacity | (3),(8) | kW | _ | - | - | - | _ | - | - |
| COP | (3),(8) | | - | - | - | - | - | - | - |
| Efficiency class | (0),(0) | | - | - | - | - | - | - | _ |
| Compressors | | | | | | | | | |
| Type | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n° | | 2/2 | 212 | Continuous | | | . 2/2 |
| Total oil load | | kg | 56 | 56 | 56 | 56 | 56 | 50 | 50 |
| Total cooling load (version CH) | | kg | 159 | 173 | 185 | 187 | 188 | 196 | 219 |
| Total cooling load (version HP) | | kg | 100 | 1/3 | 100 | 107 | 100 | 130 | _ ZIJ |
| Fans | | ĸy | | | | | | | |
| Type | | | | | | Axials | | | |
| Quantity | | n° | 12 | 12 | 14 | 14 | 16 | 16 | 16 |
| Air flow rate | | m³/h | 188.000 | 188.000 | 220.000 | 220.000 | 258.000 | 258.000 | 258.000 |
| | | m*/n | 188.000 | 188.000 | 220.000 | 220.000 | 258.000 | 258.000 | 258.000 |
| Evaporators | | | | | | Neall and sub | _ | | |
| Type | | | 1 | 1 | 1 | Shell and tub | | 1 | 1 |
| Quantity | | 1 /1- | | <u>:</u> | | 100.740 | 107.010 | | <u></u> |
| KAPPA V EVO water flow rate | (0) | l/h | 157.180 | 163.543 | 172.197 | 180.748 | 197.012 | 212.554 | 216.853 |
| KAPPA V EVO pressure drop | (6) | kPa | 44 | 46 | 56 | 27 | 31 | 37 | 39 |
| · · · · | (7) | kPa | | | | | | | |
| Hydraulic module | (0) | L.D. | 000 | 007 | 200 | 005 | 000 | 105 | 010 |
| Useful static pressure | (9) | kPa | 239 | 237 | 209 | 225 | 209 | 185 | 212 |
| Storage tank capacity | (9) | | 900 | 900 | 900 | 900 | 900 | 900 | 900 |
| Expansion tank | | ı | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | (4) | -ID(A) | 00 | 00 | 01 | 01 | 01 | 00 | 00 |
| Sound power level (basic unit) | (4) | dB(A) | 90 | 90 | 91 | 91 | 91 | 92 | 92 |
| Sound pressure level (basic unit) | (5) | dB(A) | 57 | 57 | 58 | 58 | 58 | 59 | 59 |
| Dimensions and base unit weights | | | | | | 7.704 | | | |
| Length | | mm | 6.761 | 6.761 | 7.761 | 7.761 | 9.261 | 9.261 | 9.261 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 6.732 | 6.824 | 7.431 | 7.491 | 8.329 | 8.896 | 9.104 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C (2) The total power is given by the sum of the power absorbed by the compressors and by the fans (3) External air temperature 7°C DB, 8°C WB; condenser input-output temperature 40-45°C (4) Sound power levels calculated compliant to ISO 3744 (5) Sound pressure levels refer to 10 meters from unit in free field and directionality factor Q=2

⁽⁶⁾ Evaporator inlet-outlet water temperature 12-7°C (7) Condenser inlet-outlet water temperature 40-45°C (8) Values in compliance with EN 14511-3:2011 (9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 140.2 | 150.4 | 160.4 | 180.4 |
|-----------------------------------|---------|-----------|---------|---------|---------|---------|
| | | | 110.2 | 130.4 | 100.4 | 100.4 |
| Cooling (Gross values) | | 1347 | 4000 | 4404 | 4.470 | 4005 |
| Nominal cooling capacity | (1) | kW | 1309 | 1424 | 1473 | 1665 |
| Total power input for cooling | (1),(2) | kW | 505 | 545 | 557 | 669 |
| EER | (1) | | 2,59 | 2,61 | 2,65 | 2,49 |
| ESEER | | | 3,76 | 3,75 | 3,74 | 3,64 |
| Efficiency class | | | D | D | D | E |
| Cooling (EN 14511 values) | | | | | | |
| Nominal cooling capacity | (1),(8) | kW | 1305 | 1420 | 1470 | 1660 |
| EER | (1),(8) | | 2,56 | 2,59 | 2,62 | 2,46 |
| ESEER | (8) | | 3,56 | 3,57 | 3,56 | 3,42 |
| Efficiency class | | | D | D | D | Е |
| Heating (Gross values) | | | | | | |
| Nominal heating capacity | (3) | kW | - | - | - | - |
| Total power input for heating | (2),(3) | kW | _ | - | - | - |
| COP | (3) | •••• | - | _ | _ | _ |
| Efficiency class | (0) | | = | - | - | - |
| Heating (EN 14511 values) | | | | | | |
| Nominal heating capacity | (3),(8) | kW | _ | _ | _ | - |
| COP | (3),(8) | VAA | | - | - | - |
| Efficiency class | (3),(0) | | | _ | - | - |
| | | | - | - | - | - |
| Compressors | | | | C | | |
| Type | | 01.0 | 0.70 | Scr | | 4/4 |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 4/4 | 4 / 4 | 4/4 |
| Partialisation steps | | n° | | | nuous | |
| Total oil load | | kg | 50 | 80 | 92 | 112 |
| Total cooling load (version CH) | | kg | 242 | 246 | 288 | 295 |
| Total cooling load (version HP) | | kg | | | | |
| Fans | | | | | | |
| Type | | | | Axi | | |
| Quantity | | n° | 16 | 20 | 20 | 20 |
| Air flow rate | | m³/h | 258.000 | 315.000 | 315.000 | 315.000 |
| Evaporators | | | | | | |
| Type | | | | Shell a | nd tube | |
| Quantity | | | 1 | 2 | 2 | 2 |
| KAPPA V EVO water flow rate | | I/h | 225.107 | 244.798 | 253.388 | 286.328 |
| | (6) | kPa | 41 | 35 | 36 | 49 |
| KAPPA V EVO pressure drop | (7) | kPa | | | | |
| Hydraulic module | (1) | ni u | | | | |
| Useful static pressure | (9) | kPa | 201 | 189 | 172 | 214 |
| Storage tank capacity | (9) | κι α I | 900 | - 100 | - 1/2 | Z14 |
| Expansion tank | (0) | <u>-</u> | 25 | - 25 | - 25 | 25 |
| Noise | | 1 | ۷۵ | 20 | 20 | 20 |
| Sound power level (basic unit) | (4) | dD(A) | 92 | 92 | 92 | 93 |
| | (4) | dB(A) | | | | |
| Sound pressure level (basic unit) | (5) | dB(A) | 59 | 59 | 59 | 60 |
| Dimensions and base unit weight | S | | 0.004 | 44.440 | 44.440 | 44.4.0 |
| Length | | mm | 9.261 | 11.143 | 11.143 | 11.143 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 9.248 | 11.384 | 11.980 | 12.412 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C (2) The total power is given by the sum of the power absorbed by the compressors and by the fans (3) External air temperature 7°C DB, 6°C WB; condenser input-output temperature 40-45°C (4) Sound power levels calculated compliant to 150 3744 (5) Sound pressure levels refer to 10 meters from unit in free field and directionality factor Q=2

⁽⁶⁾ Evaporator inlet-outlet water temperature 12.7°C (7) Condenser inlet-outlet water temperature 40.45°C (8) Values in compliance with EN 14511-3:2011 (9) In ST 2PS version

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| UNIT SIZE | | | 23.1 | 23.2 | 25.1 | 25.2 | 28.1 | 28.2 | 31.1 |
|---|---------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 249 | 242 | 282 | 288 | 309 | 310 | 334 |
| Total power input for cooling | (1),(2) | kW | 77 | 74 | 89 | 91 | 94 | 97 | 104 |
| EER | (1) | | 3,22 | 3,27 | 3,17 | 3,16 | 3,28 | 3,21 | 3,21 |
| ESEER | 1.7 | | 4,05 | 4.13 | 4.01 | 4.02 | 4,09 | 4,08 | 4.02 |
| Efficiency class | | | Α | Α | Α | A | Α | Α | Α |
| Cooling (EN 14511 values) | | | | i | i | i | | i | |
| Nominal cooling capacity | (1),(8) | kW | 248 | 241 | 281 | 287 | 308 | 309 | 333 |
| EER | (1),(8) | NVV | 3.18 | 3,20 | 3.12 | 3.11 | 3,23 | 3.17 | 3,16 |
| ESEER | (8) | | 3,82 | 3,82 | 3,73 | 3,75 | 3,84 | 3,83 | 3,76 |
| Efficiency class | (0) | | Α | 3,02 A | Α | Δ | 3,04 A | Α | 3,70 A |
| Heating (Gross values) | | | A | . A | A | . A | Α | A | A |
| Nominal heating capacity | (3) | kW | 248 | 234 | 281 | 284 | 312 | 313 | 334 |
| Total power input for heating | (2),(3) | kW | 71 | 68 | 79 | 81 | 91 | 91 | 95 |
| COP | (2),(3) | KVV | 3,51 | 3.43 | 3,54 | 3,50 | 3.45 | 3.42 | 3,51 |
| Efficiency class | (3) | | ا کری A | ა,4ა A | 3,34 A | 3,50 A | ა,4ა A | 3,4Z A | ا ت,ی A |
| Heating (EN 14511 values) | | | Α | A | A | . A | Α | A | А |
| | (2) (0) | LAA/ | 240 | 225 | 202 | 205 | 212 | 21.4 | 220 |
| Nominal heating capacity | (3),(8) | kW | 249 | 235 | 282 | 285 | 313 | 314 | 336 |
| COP | (3),(8) | | 3,48 | 3,39 | 3,50 | 3,46 | 3,42 | 3,39 | 3,47 |
| Efficiency class | | | Α | Α | Α | Α | Α | Α | Α |
| Compressors | | | | | | | | | |
| Туре | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 1/1 | 2/2 | 1/1 | 2/2 | 1/1 | 2/2 | 1/1 |
| Partialisation steps | | n. | | | | Continuous | | | |
| Total oil load | | kg | 15 | 16 | 18 | 28 | 20 | 28 | 23 |
| Total cooling load (version CH) | | kg | 35 | 38 | 36 | 40 | 40 | 42 | 42 |
| Total cooling load (version HP) | | kg | 37 | 40 | 38 | 42 | 42 | 44 | 44 |
| Fans | | | | | | | | | |
| Туре | | | | | | Axials | | | |
| Quantity | | n. | 4 | 4 | 4 | 4 | 6 | 6 | 6 |
| Air flow rate | | m³/h | 86,000 | 86,000 | 86,000 | 86,000 | 140,000 | 140,000 | 140,000 |
| Evaporators | | | | | | | | | |
| Type | | | | | 5 | Shell and tub | oe | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water flow rate | | l/h | 42,837 | 41,617 | 48,576 | 49,011 | 53,153 | 53,310 | 57,438 |
| D d | (6) | kPa | 34 | 57 | 49 | 55 | 40 | 40 | 44 |
| Pressure drop | (7) | kPa | 39 | 60 | 58 | 65 | 47 | 47 | 53 |
| Hydraulic module | | | | | | | | | |
| Useful static pressure | (9) | kPa | 211 | 193 | 203 | 197 | 194 | 194 | 178 |
| Storage tank capacity | (9) | I | 585 | - | 585 | - | 585 | - | 585 |
| Expansion tank | | İ | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | | | | | | | |
| Sound power level (basic unit) | (4) | dB(A) | 92 | 92 | 92 | 92 | 93 | 93 | 94 |
| Sound pressure level (basic unit) | (5) | dB(A) | 60 | 60 | 60 | 60 | 61 | 61 | 62 |
| Sound power level (LN version) | (4) | dB(A) | 87 | 86 | 87 | 87 | 87 | 87 | 88 |
| | (5) | dB(A) | 55 | 54 | 55 | 55 | 55 | 55 | 56 |
| | | uD(A) | - 00 | UT | | . 55 | . 55 | . 55 | 30 |
| Sound pressure level (LN version) | | | | | | | | | |
| Sound pressure level (LN version) Dimensions and base unit weight | | mm | 3 2/16 | 3 2/16 | 3 2/16 | 3 2/16 | 4 263 | 4 263 | 4 263 |
| Sound pressure level (LN version) Dimensions and base unit weight Length | | mm | 3.246 | 3.246 | 3.246 | 3.246 | 4.263 | 4.263 | 4.263 |
| Sound pressure level (LN version) Dimensions and base unit weight | | mm mm mm | 3.246 2.315 2.402 | 3.246 2.315 2.402 | 3.246 2.315 2.402 | 3.246 2.315 2.402 | 4.263 2.315 2.402 | 4.263 2.315 2.402 | 4.263 2.315 2.402 |

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.

⁽¹⁾ External air temperature 35°C, input water-evaporator output temperature 12-7°C
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 6°C WB, condenser input-output temperature 40-45°C
(4) Sound power levels calculated compliant to ISO 3744
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(9) In ST 2PS version



| UNIT SIZE | | | 31.2 | 33.2 | 35.2 | 37.2 | 40.2 | 43.2 | 47.2 |
|-----------------------------------|---------|---------|----------|----------|-----------|---------------------|--------------|--------------|-----------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 335 | 361 | 392 | 422 | 455 | 485 | 529 |
| Total power input for cooling | (1),(2) | kW | 106 | 111 | 122 | 130 | 145 | 147 | 167 |
| EER | (1) | | 3,18 | 3,27 | 3,23 | 3,25 | 3,15 | 3,29 | 3,18 |
| ESEER | ` ' | | 3,99 | 4,13 | 4,10 | 4,11 | 4,02 | 4.08 | 4,01 |
| Efficiency class | | | A | A | A | A | A | A | A |
| Cooling (EN 14511 values) | | | | | | · | <u> </u> | i | |
| Nominal cooling capacity | (1),(8) | kW | 334 | 360 | 390 | 420 | 454 | 483 | 527 |
| EER | (1),(8) | | 3,13 | 3,21 | 3,17 | 3,19 | 3,10 | 3.24 | 3,13 |
| ESEER | (8) | | 3,74 | 3,86 | 3,80 | 3.80 | 3,76 | 3,81 | 3,75 |
| Efficiency class | \-' | | A | A | A | A | Α | A | A |
| Heating (Gross values) | | | _i | | /) | <u> </u> | i | i | i |
| Nominal heating capacity | (3) | kW | 335 | 364 | 384 | 400 | 433 | 469 | 517 |
| Total power input for heating | (2),(3) | kW | 98 | 104 | 114 | 119 | 128 | 135 | 153 |
| COP | (3) | K V V | 3,44 | 3,52 | 3,37 | 3,36 | 3,38 | 3,47 | 3,39 |
| Efficiency class | (0) | | Α | A | Α | Α | Α | Α | A |
| Heating (EN 14511 values) | | | · | | | | · | | <u> </u> |
| Nominal heating capacity | (3),(8) | kW | 337 | 366 | 386 | 402 | 434 | 471 | 519 |
| COP | (3),(8) | NVV | 3,41 | 3,48 | 3,33 | 3,32 | 3,35 | 3,44 | 3,36 |
| Efficiency class | (3),(0) | | Α | A | 3,33 A | 3,32 A | 3,33 A | о,44 А | 3,30 A |
| Compressors | | | - A | Α | A | A | A | A | A |
| Type | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n. | 2/2 | Z / Z | 2/2 | Continuous | 2/2 | 2/2 | 2/2 |
| Total oil load | | kg | 30 | 32 | 32 | 32 | 32 | 31 | 33 |
| Total cooling load (version CH) | | kg | 45 | 60 | 63 | 65 | 69 | 73 | 73 |
| Total cooling load (version HP) | | kg | 47 | 63 | 66 | 68 | 72 | 73 77 | 77 |
| Fans | | Ny | 4/ | 03 | 00 | 00 | 12 | - // | // |
| Type | | | | | | Axials | | | |
| Quantity | | n. | 6 | 6 | 8 | 8 | 8 | 8 | 10 |
| Air flow rate | | m³/h | 140,000 | 134,000 | 182,000 | 182,000 | 182,000 | 174.800 | 227,000 |
| Evaporators | | 1117/11 | 140,000 | 134,000 | 102,000 | 102,000 | 102,000 | 174,000 | 227,000 |
| | | | | | C | Shell and tub | 0 | | |
| Type Quantity | | | 1 | 1 | 1 | ileli allu tub 1 | 1 | 1 | 1 |
| Water flow rate | | l/h | 57,610 | 62.081 | 67,442 | 72.571 | 78.304 | 83.405 | 90.972 |
| vvater now rate | (6) | kPa | 43 | 46 | 56 | 60 | 76,304 43 | 63,403 47 | 43 |
| Pressure drop | (7) | kPa | 51 | 54 | 60 | 64 | 45 45 | 52 | 43 48 |
| Hydraulic module | (7) | Krd | וט | 34 | 00 | 04 | 40 | IJΖ | 40 |
| Useful static pressure | (9) | kPa | 179 | 189 | 157 | 228 | 220 | 197 | 224 |
| Storage tank capacity | (9) | KFd | - 179 | - 109 | 740 | 740 | 740 | 740 | 740 |
| | (9) | I | 25 | - 25 | 740 25 | | | 740 25 | 740 25 |
| Expansion tank Noise | | ı | Zū | Zū | 20 | 25 | 25 | 20 | 20 |
| | (4) | 4D(A) | 0.4 | 04 | OΓ | OC | 00 | 00 | 98 |
| Sound power level (basic unit) | (4) | dB(A) | 94 | 94 | 95 63 | 96 64 | 96 64 | 96 64 | |
| Sound pressure level (basic unit) | (5) | dB(A) | 62 | 62 | | | | | 66 |
| Sound power level (LN version) | (4) | dB(A) | 88 EG | 89 E7 | 89 57 | 89 E7 | 90 E0 | 90 E0 | 91 E0 |
| Sound pressure level (LN version) | (5) | dB(A) | 56 | 57 | 57 | 57 | 58 | 58 | 59 |
| Dimensions and base unit weigh | เร | | 4.000 | 4.000 | 4.704 | 4 704 | 4 704 | 4 704 | F 704 |
| Length | | mm | 4.263 | 4.263 | 4.761 | 4.761 | 4.761 | 4.761 | 5.761 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 3.400 | 3.610 | 3.790 | 3.860 | 3.900 | 4.050 | 4.420 |

⁽¹⁾ External air temperature 35°C, input water-evaporator output temperature 12-7°C
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 6°C WB, condenser input-output temperature 40-45°C
(4) Sound power levels calculated compliant to 150 3744
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 51.2 | 54.2 | 61.2 | 70.2 | 73.2 | 80.2 | 82.2 |
|-----------------------------------|---------|-------|---------|---------|---------|---------------|-------------|---------|----------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 561 | 607 | 651 | 716 | 763 | 809 | 834 |
| Total power input for cooling | (1),(2) | kW | 172 | 192 | 197 | 223 | 233 | 253 | 251 |
| EER | (1) | | 3,27 | 3,16 | 3,31 | 3.21 | 3.27 | 3,20 | 3.32 |
| ESEER | 1.7 | | 4,09 | 4,19 | 4,28 | 4,21 | 4,10 | 4,15 | 4,20 |
| Efficiency class | | | A | Α | Α | Α | A | A | A |
| Cooling (EN 14511 values) | | | | | | i | i | | |
| Nominal cooling capacity | (1),(8) | kW | 559 | 605 | 649 | 714 | 760 | 806 | 832 |
| EER | (1),(8) | | 3,22 | 3.11 | 3,28 | 3.17 | 3,23 | 3.15 | 3.28 |
| ESEER | (8) | | 3,82 | 3,89 | 4.05 | 3.95 | 3.83 | 3,86 | 3,96 |
| Efficiency class | \-'\ | | A | A | Α | A | A | A | A |
| Heating (Gross values) | | | | i | i | i | L | | i |
| Nominal heating capacity | (3) | kW | 543 | 591 | 617 | 717 | 728 | 774 | _ |
| Total power input for heating | (2),(3) | kW | 160 | 174 | 182 | 207 | 211 | 222 | - |
| COP | (3) | | 3,40 | 3,41 | 3,40 | 3,47 | 3,45 | 3,49 | _ |
| Efficiency class | 1-7 | | A | Α | A | Α | A | A | - |
| Heating (EN 14511 values) | | | | | | | i | | <u>:</u> |
| Nominal heating capacity | (3),(8) | kW | 545 | 594 | 618 | 720 | 730 | 778 | - |
| COP | (3),(8) | | 3,37 | 3,37 | 3,38 | 3,44 | 3,42 | 3,45 | - |
| Efficiency class | V=1/V=1 | | A | Α | A | A | A | A | - |
| Compressors | | | | i | i | i | i | | i |
| Туре | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n. | | ······ | ······ | Continuous | | .: | ····· |
| Total oil load | | kg | 36 | 40 | 38 | 46 | 43 | 46 | 46 |
| Total cooling load (version CH) | | kg | 73 | 95 | 117 | 122 | 128 | 144 | 139 |
| Total cooling load (version HP) | | kg | 77 | 99 | 122 | 128 | 134 | 151 | |
| Fans | | Ü | | | | | | | |
| Type | | | | | | Axials | | | |
| Quantity | | n. | 10 | 10 | 10 | 12 | 12 | 12 | 12 |
| Air flow rate | | m³/h | 218.000 | 218,000 | 212.000 | 262,000 | 262,000 | 262,000 | 252,000 |
| Evaporators | | | | | | | | | |
| Type | | | | | S | Shell and tub | е | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water flow rate | | l/h | 96,475 | 104,385 | 111,952 | 123,130 | 131,212 | 139,123 | 143,422 |
| Pressure drop | (6) | kPa | 47 | 53 | 32 | 40 | 46 | 52 | 36 |
| riessure urop | (7) | kPa | 51 | 59 | 33 | 44 | 48 | 55 | |
| Hydraulic module | | | | | | | | | |
| Useful static pressure | (9) | kPa | 212 | 194 | 199 | 178 | 165 | 207 | 216 |
| Storage tank capacity | (9) | | 740 | 740 | 740 | 900 | 900 | 900 | 900 |
| Expansion tank | | I | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | | | | | | | |
| Sound power level (basic unit) | (4) | dB(A) | 97 | 98 | 99 | 100 | 100 | 100 | 100 |
| Sound pressure level (basic unit) | (5) | dB(A) | 65 | 66 | 66 | 68 | 68 | 68 | 67 |
| Sound power level (LN version) | (4) | dB(A) | 91 | 92 | 92 | 93 | 94 | 94 | 94 |
| Sound pressure level (LN version) | (5) | dB(A) | 59 | 60 | 60 | 61 | 62 | 62 | 62 |
| Dimensions and base unit weight | S | | | | | | | | |
| Length | | mm | 5.761 | 5.761 | 5.761 | 6.761 | 6.761 | 6.761 | 6.761 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 4.590 | 4.520 | 5.220 | 5.400 | 5.380 | 5.470 | 6.050 |

⁽⁶⁾ Evaporator inlet-outlet water temperature 12-7°C (7) Condenser inlet-outlet water temperature 40-45°C (8) Values in compliance with EN 14511-3:2011

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C to ISO 3744
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 6°C WB; condenser input-output temperature 40-45°C (7) Condenser inlet-ou
(4) Sound power levels calculated compliant to ISO 3744
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, complian
(6) ISO 3744
(9) IN ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation



| UNIT SIZE | | | 85.2 | 90.2 | 95.2 | 100.2 | 105.2 | 115.2 | 120.2 |
|-----------------------------------|---------|----------|---------|---------|---------|------------------|---------|---------|----------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 886 | 947 | 1004 | 1065 | 1132 | 1240 | 1374 |
| Total power input for cooling | (1),(2) | kW | 276 | 296 | 308 | 331 | 342 | 388 | 437 |
| EER | (1) | | 3,21 | 3,20 | 3,27 | 3,22 | 3,31 | 3,20 | 3,14 |
| ESEER | 1.7 | | 4,16 | 4,01 | 4,15 | 4,10 | 4,17 | 4,21 | 4,20 |
| Efficiency class | | | A | Α | A | A | A | Α | Α |
| Cooling (EN 14511 values) | | | | i | | i | i | i | i |
| Nominal cooling capacity | (1),(8) | kW | 883 | 944 | 1001 | 1063 | 1128 | 1237 | 1370 |
| EER | (1),(8) | | 3,17 | 3,16 | 3,22 | 3,19 | 3,26 | 3,16 | 3,11 |
| ESEER | (8) | | 3,91 | 3.76 | 3,87 | 3,89 | 3.88 | 3,96 | 3,94 |
| Efficiency class | | | A | A | Α | A | Α | A | A |
| Heating (Gross values) | | | | | | | | | <u> </u> |
| Nominal heating capacity | (3) | kW | _ | - | - | _ | - | _ | _ |
| Total power input for heating | (2),(3) | kW | | | _ | _ | | | _ |
| COP | (3) | K V V | | _ | _ | _ | _ | _ | _ |
| Efficiency class | (0) | | | | _ | _ | | | _ |
| Heating (EN 14511 values) | | | | i | | i | i | i | <u> </u> |
| Nominal heating capacity | (3),(8) | kW | _ | _ | _ | _ | _ | _ | _ |
| COP | (3),(8) | NVV | - | - | - | - | - | - | - |
| Efficiency class | (0),(0) | | | | _ | - | _ | | |
| Compressors | | | | L | - | L | L | L | I |
| Type | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| | | | 2/2 | 2/2 | 2/2 | | 2/2 | Z / Z | Z / Z |
| Partialisation steps | | n. | 51 | 56 | 56 | Continuous 56 | 56 | 56 | 50 |
| Total oil load | | kg | | | | | | | |
| Total cooling load (version CH) | | kg | 141 | 141 | 159 | 173 | 185 | 188 | 196 |
| Total cooling load (version HP) | | kg | | | | | | | |
| Fans | | | | | | Auiala | | | |
| Туре | | | 46 | | | Axials | 40 | 4.0 | - 00 |
| Quantity | | n. | 12 | 14 | 14 | 14 | 16 | 16 | 20 |
| Air flow rate | | m³/h | 252,000 | 296,000 | 288,000 | 288,000 | 354,000 | 342,000 | 436,000 |
| Evaporators | | | | | | N II I I | | | |
| Type | | | | | | Shell and tub | | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water flow rate | /61 | l/h | 152,365 | 162,855 | 172,657 | 183,147 | 194,669 | 213,242 | 236,285 |
| Pressure drop | (6) | kPa | 38 | 42 | 47 | 28 | 51 | 38 | 42 |
| · | (7) | kPa | | | | | | | |
| Hydraulic module | | I.D. | | | 400 | | | 470 | |
| Useful static pressure | (9) | kPa | 202 | 209 | 192 | 194 | 214 | 176 | 205 |
| Storage tank capacity | (9) | <u> </u> | 900 | 900 | 900 | 900 | 900 | 900 | 900 |
| Expansion tank | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | | | | | : | | |
| Sound power level (basic unit) | (4) | dB(A) | 100 | 101 | 101 | 101 | 102 | 103 | 103 |
| Sound pressure level (basic unit) | (5) | dB(A) | 67 | 69 | 69 | 69 | 70 | 71 | 71 |
| Sound power level (LN version) | (4) | dB(A) | 94 | 95 | 95 | 95 | 96 | 96 | 97 |
| Sound pressure level (LN version) | (5) | dB(A) | 62 | 63 | 63 | 63 | 64 | 64 | 65 |
| Dimensions and base unit weights | S | | | | | | | | |
| Length | | mm | 6.761 | 7.761 | 7.761 | 7.761 | 9.261 | 9.261 | 11.483 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 6.250 | 7.010 | 7.120 | 7.190 | 7.650 | 7.750 | 9.610 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 6°C WB; condenser input-output temperature 40-45°C
(4) Sound power levels calculated compliant to 150 3744
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 130.2 | 140.2 | 150.4 |
|---|---------|--------|--------------|----------------|-----------|
| Cooling (Gross values) | | | | | |
| Nominal cooling capacity | (1) | kW | 1419 | 1461 | 1566 |
| Total power input for cooling | (1),(2) | kW | 445 | 453 | 496 |
| EER | (1) | | 3,19 | 3,23 | 3,16 |
| ESEER | ١٠, | | 4,06 | 4,10 | 4,02 |
| Efficiency class | | | 4,00 A | 4,10 A | 4,02 A |
| Cooling (EN 14511 values) | | | Α | | A |
| Nominal cooling capacity | (1),(8) | kW | 1415 | 1456 | 1561 |
| EER COOKING CAPACITY | (1),(8) | NVV . | 3,15 | 3,18 | 3,12 |
| ESEER | | | | | |
| | (8) | | 3,80 | 3,83 | 3,75 |
| Efficiency class Heating (Gross values) | | | Α | Α | А |
| | (0) | 114/ | | | |
| Nominal heating capacity | (3) | kW | _ | - | = |
| Total power input for heating | (2),(3) | kW | - | - | - |
| COP | (3) | | - | - | |
| Efficiency class | | | - | - ! | - |
| Heating (EN 14511 values) | | | | | |
| Nominal heating capacity | (3),(8) | kW | - | - | - |
| COP | (3),(8) | | _ | - | |
| Efficiency class | | | - | - | - |
| Compressors | | | | | |
| Type | | | | Screw | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 4 / 4 |
| Partialisation steps | | n. | | Continuous | |
| Total oil load | | kg | 50 | 50 | 80 |
| Total cooling load (version CH) | | kg | 219 | 242 | 246 |
| Total cooling load (version HP) | | kg | | | |
| Fans | | | | | |
| Type | | | | Axials | |
| Quantity | | n. | 20 | 20 | 20 |
| Air flow rate | | m³/h | 424,000 | 412,000 | 412,000 |
| Evaporators | | / | 12 1,000 | 112,000 | 112,000 |
| Type | | | | Shell and tube | |
| Quantity | | | 1 | 1 | 2 |
| Water flow rate | | l/h | 244.024 | 251,247 | 269,304 |
| | (6) | kPa | 44 | 46 | 47 |
| Pressure drop | (7) | kPa | 77 | 70 | 77 |
| Hydraulic module | (7) | NI G | | | |
| Useful static pressure | (9) | kPa | 197 | 189 | 207 |
| Storage tank capacity | (9) | NI G | 900 | 900 | - 207 |
| Expansion tank | (9) | l I | 25 | 900 25 | 25 |
| Noise | | ı | Ζΰ | 20 | Zü |
| Sound power level (basic unit) | (4) | dB(A) | 104 | 104 | 104 |
| | (4) | | | | |
| Sound pressure level (basic unit) | (5) | dB(A) | 72 | 72 | 72 |
| Sound power level (LN version) | (4) | dB(A) | 97 | 97 | 97 |
| Sound pressure level (LN version) | (5) | dB(A) | 65 | 65 | 65 |
| Dimensions and base unit weigh | ts | | | | , |
| Length | | mm | 11.483 | 11.483 | 11.483 |
| Depth | | mm | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 9.690 | 10.150 | 10.710 |

⁽¹⁾ External air temperature 35°C, input water-evaporator output temperature 12-7°C
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 6°C WB, condenser input-output temperature 40-45°C
(4) Sound power levels calculated compliant to ISO 3744
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 23.1 | 23.2 | 25.1 | 25.2 | 28.1 | 28.2 | 31.1 |
|-----------------------------------|---------|-------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 242 | 234 | 276 | 277 | 299 | 302 | 324 |
| Total power input for cooling | (1),(2) | kW | 78 | 75 | 90 | 92 | 95 | 98 | 105 |
| EER | (1) | | 3,09 | 3,13 | 3,07 | 3,02 | 3,14 | 3,08 | 3,09 |
| ESEER | 117 | | 4,10 | 4,17 | 4,02 | 4,05 | 4,15 | 4,10 | 4,06 |
| Efficiency class | | | В | Α | 1,02 B | В | Α | В | В |
| Cooling (EN 14511 values) | | | <u>:</u> | i | | <u>:</u> | /, | <u> </u> | : |
| Nominal cooling capacity | (1),(8) | kW | 241 | 233 | 275 | 276 | 298 | 301 | 323 |
| EER | (1),(8) | | 3,05 | 3,07 | 3,02 | 2,97 | 3,10 | 3,03 | 3,05 |
| ESEER | (8) | | 3,87 | 3,86 | 3,74 | 3,78 | 3,90 | 3,85 | 3.80 |
| Efficiency class | (0) | | В | В | В | В | В | В | В |
| Heating (Gross values) | | | <u> </u> | <u> </u> | | | | | U |
| Nominal heating capacity | (3) | kW | 237 | 229 | 273 | 267 | 307 | 309 | 327 |
| Total power input for heating | (2),(3) | kW | 68 | 66 | 76 | 77 | 86 | 88 | 92 |
| COP | (3) | KVV | 3,50 | 3,48 | 3,60 | 3,47 | 3,56 | 3,51 | 3,55 |
| Efficiency class | (3) | | 3,50 A | 3,40 A | 3,00 A | 3,47 A | 3,30 A | 3,31 A | 3,33 A |
| Heating (EN 14511 values) | | | H | i A | A | A | A | А | А |
| Nominal heating capacity | (3),(8) | kW | 238 | 230 | 274 | 268 | 308 | 310 | 329 |
| COP | | KVV | | | | | | | |
| | (3),(8) | | 3,47 | 3,44 | 3,56 | 3,44 | 3,53 | 3,48 | 3,51 |
| Efficiency class | | | Α | Α | Α | Α | Α | Α | Α |
| Compressors | | | | | | C | | | |
| Type | | 0/0 | 1/1 | 0.70 | 1 / 1 | Screw | 4 / 4 | 0.70 | 4 / 4 |
| Quantity/Cooling circuits | | n°/n° | 1/1 | 2/2 | 1/1 | 2/2 | 1/1 | 2/2 | 1/1 |
| Partialisation steps | | n. | 45 | | 40 | Continuous | | - 00 | - 00 |
| Total oil load | | kg | 15 | 16 | 18 | 28 | 20 | 28 | 23 |
| Total cooling load (version CH) | | kg | 35 | 38 | 36 | 40 | 40 | 42 | 42 |
| Total cooling load (version HP) | | kg | | | | | | | |
| Fans | | | | | | | | | |
| Туре | | | | | | Axials | | | |
| Quantity | | n. | 4 | 4 | 4 | 4 | 6 | 6 | 6 |
| Air flow rate | | m³/h | 71,200 | 71,200 | 69,200 | 69,200 | 108,000 | 108,000 | 108,000 |
| Evaporators | | | | | | | | | |
| Туре | | | | · | | Shell and tub | | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water flow rate | | l/h | 41,617 | 40,241 | 47,463 | 47,635 | 51,419 | 51,935 | 55,718 |
| Pressure drop | (6) | kPa | 33 | 55 | 48 | 54 | 38 | 40 | 43 |
| · | (7) | kPa | 36 | 58 | 54 | 58 | 46 | 46 | 50 |
| Hydraulic module | | | | | | | | | |
| Useful static pressure | (9) | kPa | 211 | 193 | 203 | 197 | 194 | 194 | 178 |
| Storage tank capacity | (9) | | 585 | - | 585 | - | 585 | - | 585 |
| Expansion tank | | 1 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | | | | | | | |
| Sound power level (basic unit) | (4) | dB(A) | 82 | 82 | 82 | 82 | 83 | 82 | 83 |
| Sound pressure level (basic unit) | (5) | dB(A) | 50 | 50 | 50 | 50 | 51 | 50 | 51 |
| Dimensions and base unit weights | | | | | | | | | |
| Length | | mm | 3.246 | 3.246 | 3.246 | 3.246 | 4.263 | 4.263 | 4.263 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| | | kg | 2.810 | 3.160 | 2.970 | 3.510 | 3.090 | 3.800 | 3.280 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 6°C WB; condenser input-output temperature 40-45°C
(4) Sound power levels calculated compliant to 150 3744
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(9) In ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 31.2 | 33.2 | 35.2 | 37.2 | 40.2 | 43.2 | 47.2 |
|-----------------------------------|---------|-------|---------|---------|---------|---------------|---------|---------|---------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 325 | 351 | 382 | 409 | 452 | 469 | 514 |
| Total power input for cooling | (1),(2) | kW | 107 | 112 | 123 | 132 | 142 | 152 | 169 |
| EER | (1) | | 3,04 | 3,13 | 3,12 | 3,11 | 3,19 | 3,09 | 3,04 |
| ESEER | | | 4,00 | 4,14 | 4,15 | 4,16 | 4,08 | 4,10 | 4,05 |
| Efficiency class | | | В | Α | Α | Α | Α | В | В |
| Cooling (EN 14511 values) | | | | | | | | | |
| Nominal cooling capacity | (1),(8) | kW | 324 | 350 | 380 | 407 | 450 | 467 | 512 |
| EER | (1),(8) | | 2,99 | 3,08 | 3,06 | 3,05 | 3,15 | 3,05 | 2,99 |
| ESEER | (8) | | 3,74 | 3,87 | 3,84 | 3,84 | 3,82 | 3,82 | 3,79 |
| Efficiency class | | | В | В | В | В | Α | В | В |
| Heating (Gross values) | | | | | | | | | |
| Nominal heating capacity | (3) | kW | 328 | 348 | 377 | 393 | 444 | 458 | 507 |
| Total power input for heating | (2),(3) | kW | 93 | 98 | 109 | 114 | 124 | 130 | 146 |
| COP | (3) | | 3,51 | 3,54 | 3,47 | 3,45 | 3,60 | 3,53 | 3,47 |
| Efficiency class | | | A | A | A | A | A | A | A |
| Heating (EN 14511 values) | | | | | | | | | |
| Nominal heating capacity | (3),(8) | kW | 329 | 349 | 379 | 395 | 446 | 460 | 509 |
| COP | (3),(8) | | 3,47 | 3,51 | 3,43 | 3,41 | 3,56 | 3,50 | 3,44 |
| Efficiency class | | | Α | Α | Α | Α | Α | Α | Α |
| Compressors | | | | | | | | | |
| Type | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n. | | | | Continuous | | | |
| Total oil load | | kg | 30 | 32 | 32 | 32 | 32 | 31 | 33 |
| Total cooling load (version CH) | | kg | 45 | 60 | 63 | 65 | 69 | 73 | 73 |
| Total cooling load (version HP) | | kg | | | | | | | |
| Fans | | | | | | | | | |
| Туре | | | | | | Axials | | | |
| Quantity | | n. | 6 | 6 | 8 | 8 | 8 | 8 | 10 |
| Air flow rate | | m³/h | 108,000 | 106,000 | 140,000 | 140,000 | 136,000 | 136,000 | 178,000 |
| Evaporators | | | | | | | | | |
| Туре | | | | | | Shell and tub | e | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water flow rate | | I/h | 55,890 | 60,361 | 65,692 | 70,335 | 77,730 | 80,653 | 88,392 |
| Pressure drop | (6) | kPa | 42 | 45 | 54 | 58 | 42 | 46 | 53 |
| ' | (7) | kPa | 49 | 49 | 58 | 62 | 48 | 50 | 46 |
| Hydraulic module | | | | | | | | | |
| Useful static pressure | (9) | kPa | 179 | 189 | 157 | 228 | 220 | 197 | 224 |
| Storage tank capacity | (9) | I | _ | - | 740 | 740 | 740 | 740 | 740 |
| Expansion tank | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | | | | | | | |
| Sound power level (basic unit) | (4) | dB(A) | 83 | 83 | 83 | 84 | 85 | 85 | 86 |
| Sound pressure level (basic unit) | (5) | dB(A) | 51 | 51 | 51 | 52 | 53 | 53 | 54 |
| Dimensions and base unit weights | | | | | | | | | |
| Length | | mm | 4.263 | 4.263 | 4.761 | 4.761 | 4.761 | 4.761 | 5.761 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 3.850 | 4.060 | 4.240 | 4.310 | 4.500 | 4.500 | 4.870 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C to ISO 3744
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 6°C WB; condenser input-output temperature 40-45°C
(7) Condenser inlet-out
(4) Sound power levels calculated compliant to ISO 3744
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(9) In ST 2PS version

⁽⁶⁾ Evaporator inlet-outlet water temperature 12-7°C (7) Condenser inlet-outlet water temperature 40-45°C (8) Values in compliance with EN 14511-3:2011

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 51.2 | 54.2 | 61.2 | 70.2 | 73.2 | 80.2 | 85.2 |
|-----------------------------------|---------|-------|---------|---------|---------|---------------|---------|---------|---------|
| Cooling (Gross values) | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 545 | 589 | 634 | 701 | 744 | 796 | 875 |
| Total power input for cooling | (1),(2) | kW | 174 | 199 | 209 | 234 | 245 | 260 | 281 |
| EER | (1) | | 3,13 | 2,96 | 3,04 | 2,99 | 3,04 | 3,06 | 3,11 |
| ESEER | | | 4,11 | 4,25 | 4,29 | 4,26 | 4,14 | 4,16 | 4,17 |
| Efficiency class | | | Α | В | В | В | В | В | Α |
| Cooling (EN 14511 values) | | | | | | | | | |
| Nominal cooling capacity | (1),(8) | kW | 543 | 587 | 632 | 699 | 742 | 793 | 873 |
| EER | (1),(8) | | 3,09 | 2,91 | 2,99 | 2,96 | 3,00 | 3,01 | 3,07 |
| ESEER | (8) | | 3,83 | 3,95 | 4,06 | 4,00 | 3,87 | 3,86 | 3,92 |
| Efficiency class | | | В | В | В | В | В | В | В |
| Heating (Gross values) | | | | | | | | | |
| Nominal heating capacity | (3) | kW | 519 | 563 | 588 | 681 | 706 | 737 | - |
| Total power input for heating | (2),(3) | kW | 152 | 165 | 173 | 196 | 202 | 212 | - |
| COP | (3) | | 3,41 | 3,41 | 3,40 | 3,47 | 3,49 | 3,47 | - |
| Efficiency class | | | A | A | A | Α | Α | Α | - |
| Heating (EN 14511 values) | | | | | | | | | |
| Nominal heating capacity | (3),(8) | kW | 521 | 565 | 589 | 683 | 709 | 740 | - |
| COP | (3),(8) | | 3,38 | 3,38 | 3,38 | 3,44 | 3,46 | 3,44 | - |
| Efficiency class | | | Α | Α | А | Α | Α | А | - |
| Compressors | | | | | | | | | |
| Type | | | | | | Screw | | | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n. | | | | Continuous | | | |
| Total oil load | | kg | 36 | 40 | 38 | 46 | 43 | 46 | 51 |
| Total cooling load (version CH) | | kg | 73 | 95 | 117 | 122 | 128 | 144 | 141 |
| Total cooling load (version HP) | | kg | | | | | | | |
| Fans | | | | | | | | | |
| Type | | | | | | Axials | | | |
| Quantity | | n. | 10 | 10 | 10 | 12 | 12 | 12 | 14 |
| Air flow rate | | m³/h | 168,000 | 168,000 | 160,000 | 200,000 | 200,000 | 192,000 | 238,000 |
| Evaporators | | | | | | | | | |
| Type | | | | | S | Shell and tub | e | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water flow rate | | l/h | 93,723 | 101,290 | 109,028 | 120,550 | 127,945 | 136,887 | 150,473 |
| Pressure drop | (6) | kPa | 45 | 51 | 51 | 39 | 43 | 50 | 38 |
| | (7) | kPa | 47 | 54 | 30 | 40 | 46 | 50 | |
| Hydraulic module | | | | | | | | | |
| Useful static pressure | (9) | kPa | 212 | 194 | 199 | 178 | 165 | 207 | 202 |
| Storage tank capacity | (9) | l | 740 | 740 | 740 | 900 | 900 | 900 | 900 |
| Expansion tank | | I | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | | | | | | | |
| Sound power level (basic unit) | (4) | dB(A) | 85 | 86 | 86 | 87 | 88 | 88 | 89 |
| Sound pressure level (basic unit) | (5) | dB(A) | 53 | 54 | 54 | 55 | 56 | 56 | 57 |
| Dimensions and base unit weights | | | | | | | | | |
| Length | | mm | 5.761 | 5.761 | 5.761 | 6.761 | 6.761 | 6.761 | 7.761 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 5.040 | 4.970 | 5.670 | 5.850 | 5.830 | 6.120 | 7.320 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 6°C WB, condenser input-output temperature 40-45°C
(4) Sound power levels calculated compliant to ISO 3744
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



| UNIT SIZE | | | 90.2 | 95.2 | 100.2 | 105.2 | 115.2 | 120.2 | 130.2 | 140.2 |
|-----------------------------------|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cooling (Gross values) | | | | | | | | | | |
| Nominal cooling capacity | (1) | kW | 922 | 982 | 1040 | 1104 | 1211 | 1351 | 1382 | 1410 |
| Total power input for cooling | (1),(2) | kW | 312 | 324 | 338 | 363 | 406 | 444 | 461 | 478 |
| EER | (1) | | 2,96 | 3,03 | 3,08 | 3,04 | 2,98 | 3,04 | 3,00 | 2,95 |
| ESEER | | | 4,05 | 4,15 | 4,15 | 4,20 | 4,25 | 4,28 | 4,11 | 4,12 |
| Efficiency class | | | В | В | В | В | В | В | В | В |
| Cooling (EN 14511 values) | | | | | | | | | | |
| Nominal cooling capacity | (1),(8) | kW | 919 | 979 | 1036 | 1100 | 1208 | 1347 | 1378 | 1406 |
| EER | (1),(8) | | 2,92 | 2,99 | 3,02 | 3,00 | 2,95 | 3,01 | 2,96 | 2,91 |
| ESEER | (8) | | 3,79 | 3,87 | 3,94 | 3,91 | 4,00 | 4,01 | 3,84 | 3,85 |
| Efficiency class | | | В | В | В | В | В | В | В | В |
| Heating (Gross values) | | | | | | | | | | |
| Nominal heating capacity | (3) | kW | - | - | - | - | - | - | - | - |
| Total power input for heating | (2),(3) | kW | - | - | - | - | - | - | - | - |
| COP | (3) | | - | - | - | - | - | - | - | - |
| Efficiency class | | | - | - | - | - | - | - | - | - |
| Heating (EN 14511 values) | | | | | | | | | | |
| Nominal heating capacity | (3),(8) | kW | - | - | - | - | - | - | - | - |
| COP | (3),(8) | | - | - | - | - | - | - | - | - |
| Efficiency class | | | - | - | - | - | - | - | - | - |
| Compressors | | | | | | | | | | |
| Type | | | | | | Scr | ew | | | |
| Quantity/Cooling circuits | | n°/n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Partialisation steps | | n. | | | | | nuous | | | |
| Total oil load | | kg | 56 | 56 | 56 | 56 | 56 | 50 | 50 | 50 |
| Total cooling load (version CH) | | kg | 141 | 159 | 173 | 185 | 188 | 196 | 219 | 242 |
| Total cooling load (version HP) | | kg | | | | | | | | |
| Fans | | J | | | | | | | | |
| Type | | | | | | Axi | ials | | | |
| Quantity | | n. | 14 | 14 | 16 | 16 | 16 | 20 | 20 | 20 |
| Air flow rate | | m³/h | 238,000 | 228,000 | 276,000 | 276,000 | 264,000 | 320,000 | 320,000 | 320,000 |
| Evaporators | | | | | | | | | | |
| Type | | | | | | Shell a | nd tube | | | |
| Quantity | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water flow rate | | I/h | 158,555 | 168,874 | 178,848 | 189,854 | 208,255 | 232,330 | 237,661 | 242,476 |
| Dunantura duna | (6) | kPa | 41 | 46 | 60 | 50 | 35 | 41 | 43 | 44 |
| Pressure drop | (7) | kPa | | | | | | | | |
| Hydraulic module | | | | | | | | | | |
| Useful static pressure | (9) | kPa | 209 | 192 | 194 | 214 | 176 | 205 | 197 | 189 |
| Storage tank capacity | (9) | I | 900 | 900 | 900 | 900 | 900 | 900 | 900 | 900 |
| Expansion tank | | I | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Noise | | | | | | | | | | |
| Sound power level (basic unit) | (4) | dB(A) | 90 | 90 | 90 | 91 | 91 | 92 | 92 | 92 |
| Sound pressure level (basic unit) | (5) | dB(A) | 58 | 58 | 58 | 59 | 59 | 60 | 60 | 59 |
| Dimensions and base unit weights | | ` ' | | | | | | | | |
| Length | | mm | 7.761 | 7.761 | 9.261 | 9.261 | 9.261 | 11.483 | 11.483 | 11.483 |
| Depth | | mm | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 | 2.315 |
| Height | | mm | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 | 2.402 |
| Weight when functioning | | kg | 7.510 | 7.620 | 8.150 | 8.280 | 8.380 | 10.360 | 10.500 | 10.650 |

⁽¹⁾ External air temperature 35°C; input water-evaporator output temperature 12-7°C
(2) The total power is given by the sum of the power absorbed by the compressors and by the fans
(3) External air temperature 7°C DB, 8°C WB; condenser input-output temperature 40-45°C
(4) Sound power levels calculated compliant to 150 3744
(5) Sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant
(9) in ST 2PS version

This board reports the feature data of the base and standard versions; for details, refer to the specific documentation.



basic version electric data

| UNIT SIZE | | | 23.1 | 25.1 | 28.1 | 31.1 | 33.2 | | | |
|----------------------------|---------|---------|---------------|---------|---------------|---------|---------|--|--|--|
| Maximum absorbed power | (1) (2) | kW | 108 | 120 | 131 | 141 | 156 | | | |
| Maximum absorbed power | (1),(3) | KVV | (112) | (125) | (137) | (146) | (162) | | | |
| Marrian about a discount | (2) (2) | ۸ | 181 | 201 | 219 | 235 | 262 | | | |
| Maximum absorbed current | (2),(3) | А | (189) | (212) | (230) | (246) | (273) | | | |
| | (4) | ۸ | 247 | 299 | 299 | 322 | 352 | | | |
| Maximum current at peak | (4) | А | (251) | (305) | (305) | (328) | (357) | | | |
| Fan nominal power | | n° x kW | 4 x 2,0 | 4 x 2,0 | 4 x 2,0 | 4 x 2,0 | 6 x 2,0 | | | |
| Fan nominal current | | n° x A | 4 x 4,3 | 4 x 4,3 | 4 x 4,3 | 4 x 4,3 | 6 x 4,3 | | | |
| Pump motor nominal power | | kW | 4 | 6 | 6 | 6 | 6 | | | |
| Pump motor nominal current | | А | 8 | 11 | 11 | 11 | 11 | | | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | | | |
| Auxiliary power supply | | V/ph/Hz | | | 230/1~/50 ±5% | | | | | |

| UNIT SIZE | | | 35.2 | 37.2 | 40.2 | 43.2 | 47.2 | | | | | |
|----------------------------|---------|---------|---------------|---------|---------------|---------|---------------|--|--|--|--|--|
| Maximum absorbed power | (1),(3) | kW | 167 | 177 | 190 | 205 | 228 | | | | | |
| Maximum absorbed power | (1),(3) | KVV | (173) | (182) | (197) | (214) | (237) | | | | | |
| Manipular about a discount | (0) (0) | ۸ | 280 | 296 | 317 | 344 | 382 | | | | | |
| Maximum absorbed current | (2),(3) | А | (291) | (307) | (333) | (363) | (401) | | | | | |
| Manine me annual at maak | (4) | ۸ | 361 | 401 | 412 | 420 | 480 | | | | | |
| Maximum current at peak | (4) | A | (366) | (406) | (419) | (429) | (489) | | | | | |
| Fan nominal power | | n° x kW | 6 x 2,0 | 6 x 2,0 | 6 x 2,0 | 8 x 2,0 | 8 x 2,0 | | | | | |
| Fan nominal current | | n° x A | 6 x 4,3 | 6 x 4,3 | 6 x 4,3 | 8 x 4,3 | 8 x 4,3 | | | | | |
| Pump motor nominal power | | kW | 6 | 6 | 8 | 9 | 9 | | | | | |
| Pump motor nominal current | | А | 11 | 11 | 16 | 19 | 19 | | | | | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | | | | | |
| Auxiliary power supply | | V/ph/Hz | | | 230/1~/50 ±5% | | 230/1~/50 ±5% | | | | | |

| UNIT SIZE | | | 51.2 | 54.2 | 58.2 | 61.2 | 67.2 | | | | |
|----------------------------|---------|---------|---------------|---------|---------------|----------|----------|--|--|--|--|
| Maximum absorbed power | (1) (2) | kW | 240 | 262 | 281 | 255 | 266 | | | | |
| Maximum absorbed power | (1),(3) | KVV | (249) | (271) | (291) | (264) | (277) | | | | |
| Manimum shoothad arrest | (2) (2) | ۸ | 401 | 438 | 470 | 428 | 446 | | | | |
| Maximum absorbed current | (2),(3) | А | (420) | (457) | (489) | (447) | (469) | | | | |
| Manianon annual de a a l | (4) | ۸ | 500 | 518 | 557 | 508 | 527 | | | | |
| Maximum current at peak | (4) | А | (509) | (527) | (566) | (518) | (538) | | | | |
| Fan nominal power | | n° x kW | 8 x 2,0 | 8 x 2,0 | 8 x 2,0 | 10 x 2,0 | 10 x 2,0 | | | | |
| Fan nominal current | | n° x A | 8 x 4,3 | 8 x 4,3 | 8 x 4,3 | 10 x 4,3 | 10 x 4,3 | | | | |
| Pump motor nominal power | | kW | 9 | 9 | 9 | 9 | 11 | | | | |
| Pump motor nominal current | | Α | 19 | 19 | 19 | 19 | 23 | | | | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | | | | |
| Auxiliary power supply | | V/ph/Hz | | | 230/1~/50 ±5% | | | | | | |

⁽¹⁾ Electric power which must be available from the electric network for the unit to function

⁽²⁾ It is the maximum current absorbed by the unit. This value is never exceeded and must be used for dimensioning the line and the relative protections (refer to the wiring diagram supplied with the units).

(3) The values between brackets refer to the ST version units (unit with storage tank and pumps or to units with pumps only).

(4) Maximum peak current calculated considering the compressor start-up with higher power and maximum current absorbed by all other devices.



basic version electric data

| UNIT SIZE | | | 70.2 | 73.2 | 80.2 | 82.2 | 85.2 | |
|----------------------------|---------|---------|---------------|----------|----------|----------|----------|--|
| Maximum absorbed power | (1) (2) | kW | 285 | 292 | 311 | 318 | 339 | |
| | (1),(3) | | (296) | (303) | (326) | (333) | (354) | |
| Maximum absorbed current | (2) (2) | Α | 478 | 490 | 520 | 535 | 568 | |
| | (2),(3) | | (501) | (512) | (550) | (565) | (599) | |
| Maximum current at peak | (4) | Α | 566 | 566 | 749 | 721 | 757 | |
| | (4) | | (577) | (577) | (764) | (736) | (772) | |
| Fan nominal power | | n° x kW | 10 x 2,0 | 10 x 2,0 | 10 x 2,0 | 12 x 2,0 | 12 x 2,0 | |
| Fan nominal current | | n° x A | 10 x 4,3 | 10 x 4,3 | 10 x 4,3 | 12 x 4,3 | 12 x 4,3 | |
| Pump motor nominal power | | kW | 11 | 11 | 15 | 15 | 15 | |
| Pump motor nominal current | | Α | 23 | 23 | 30 | 30 | 30 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

| UNIT SIZE | | | 90.2 | 95.2 | 100.2 | 105.2 | 110.2 | |
|----------------------------|---------|---------|---------------|----------|----------|----------|----------|--|
| Maximum absorbed power | (1),(3) | kW | 363 | 382 | 400 | 421 | 465 | |
| | | | (378) | (400) | (419) | (439) | (487) | |
| Maximum absorbed current | (2),(3) | Α | 608 | 639 | 669 | 704 | 778 | |
| | | | (639) | (676) | (706) | (741) | (819) | |
| Maximum current at peak | (4) | А | 797 | 828 | 858 | 927 | 1112 | |
| | (4) | | (812) | (846) | (877) | (946) | (1.134) | |
| Fan nominal power | | n° x kW | 12 x 2,0 | 12 x 2,0 | 12 x 2,0 | 14 x 2,0 | 14 x 2,0 | |
| Fan nominal current | | n° x A | 12 x 4,3 | 12 x 4,3 | 12 x 4,3 | 14 x 4,3 | 14 x 4,3 | |
| Pump motor nominal power | | kW | 15 | 19 | 19 | 19 | 22 | |
| Pump motor nominal current | | Α | 30 | 37 | 37 | 37 | 42 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

| UNIT SIZE | | | 115.2 | 120.2 | 130.2 | 140.2 | 150.4 | |
|----------------------------|---------|---------|---------------|----------|----------|----------|----------|--|
| Maximum absorbed power | (1) (2) | kW | 469 | 498 | 516 | 534 | 599 | |
| | (1),(3) | | (491) | (520) | (538) | (556) | (621) | |
| Maximum absorbed current | (2) (2) | Α | 786 | 823 | 855 | 887 | 1002 | |
| | (2),(3) | | (828) | (865) | (897) | (929) | (1.044) | |
| Maximum current at peak | (4) | А | 1121 | 1251 | 1363 | 1395 | 1078 | |
| | (4) | | (1.143) | (1.273) | (1.385) | (1.417) | (1.100) | |
| Fan nominal power | | n° x kW | 16 x 2,0 | 16 x 2,0 | 16 x 2,0 | 16 x 2,0 | 20 x 2,0 | |
| Fan nominal current | | n° x A | 16 x 4,3 | 16 x 4,3 | 16 x 4,3 | 16 x 4,3 | 20 x 4,3 | |
| Pump motor nominal power | | kW | 22 | 22 | 22 | 22 | 22 | |
| Pump motor nominal current | | Α | 42 | 42 | 42 | 42 | 42 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

⁽¹⁾ Electric power which must be available from the electric network for the unit to function

 ⁽²⁾ It is the maximum current absorbed by the unit. This value is never exceeded and must be used for dimensioning the line and the relative protections (refer to the wiring diagram supplied with the units).
 (3) The values between brackets refer to the ST version units (unit with storage tank and pumps or to units with pumps only).
 (4) Maximum peak current calculated considering the compressor start-up with higher power and maximum current absorbed by all other devices.



basic version electric data

| UNIT SIZE | | | 160.4 | 180.4 |
|----------------------------|---------|---------|----------|----------|
| Maximum absorbed newer | (1) (2) | kW | 622 | 718 |
| Maximum absorbed power | (1),(3) | KVV | (644) | (748) |
| Maniana abanda amad | (2) (2) | ۸ | 1040 | 1199 |
| Maximum absorbed current | (2),(3) | A | (1.082) | (1.253) |
| Maniana annual de annual | (4) | ۸ | 1269 | 1388 |
| Maximum current at peak | (4) | А | (1.291) | (1.418) |
| Fan nominal power | | n° x kW | 20 x 2,0 | 20 x 2,0 |
| Fan nominal current | | n° x A | 20 x 4,3 | 20 x 4,3 |
| Pump motor nominal power | | kW | 22 | 30 |
| Pump motor nominal current | | Α | 42 | 54 |
| Electric power supply | | V/ph/Hz | 400/3~/ | 50 ±5% |
| Auxiliary power supply | | V/ph/Hz | 230/1~/ | 50 ±5% |

⁽¹⁾ Electric power which must be available from the electric network for the unit to function

⁽²⁾ It is the maximum current absorbed by the unit. This value is never exceeded and must be used for dimensioning the line and the relative protections (refer to the wiring diagram supplied with the units).

(3) The values between brackets refer to the ST version units (unit with storage tank and pumps or to units with pumps only).

(4) Maximum peak current calculated considering the compressor start-up with higher power and maximum current absorbed by all other devices.



Kappa V Evo /SLN - electrical data of the basic version

| UNIT SIZE | | | 23.1 | 25.1 | 28.1 | 31.1 | 33.2 | |
|----------------------------|---------|---------|---------------|---------|---------|---------|---------|--|
| Maximum absorbed power | (1) (2) | kW | 108 | 120 | 131 | 141 | 156 | |
| Maximum absorbed power | (1),(3) | KVV | (112) | (125) | (137) | (146) | (162) | |
| NAi | (0) (0) | ۸ | 181 | 201 | 219 | 235 | 262 | |
| Maximum absorbed current | (2),(3) | А | (189) | (212) | (230) | (246) | (273) | |
| NAi | (4) | А | 247 | 299 | 299 | 322 | 352 | |
| Maximum current at peak | (4) | | (251) | (305) | (305) | (328) | (357) | |
| Fan nominal power | | n° x kW | 4 x 2,0 | 4 x 2,0 | 4 x 2,0 | 4 x 2,0 | 6 x 2,0 | |
| Fan nominal current | | n° x A | 4 x 4,3 | 4 x 4,3 | 4 x 4,3 | 4 x 4,3 | 6 x 4,3 | |
| Pump motor nominal power | | kW | 4 | 6 | 6 | 6 | 6 | |
| Pump motor nominal current | | А | 8 | 11 | 11 | 11 | 11 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

| UNIT SIZE | | | 35.2 | 37.2 | 40.2 | 43.2 | 47.2 | |
|----------------------------|---------|---------|---------------|---------|---------|---------|---------|--|
| Maximum abaarhad nawar | (1) (2) | kW | 167 | 177 | 190 | 205 | 228 | |
| Maximum absorbed power | (1),(3) | KVV | (173) | (182) | (197) | (214) | (237) | |
| Maximum absorbed current | (2) (2) | ۸ | 280 | 296 | 317 | 344 | 382 | |
| viaximum absorbed current | (2),(3) | А | (291) | (307) | (333) | (363) | (401) | |
| Maximum aurent at nock | (4) | Α | 361 | 401 | 412 | 420 | 480 | |
| Maximum current at peak | (4) | | (366) | (406) | (419) | (429) | (489) | |
| Fan nominal power | | n° x kW | 6 x 2,0 | 6 x 2,0 | 6 x 2,0 | 8 x 2,0 | 8 x 2,0 | |
| Fan nominal current | | n° x A | 6 x 4,3 | 6 x 4,3 | 6 x 4,3 | 8 x 4,3 | 8 x 4,3 | |
| Pump motor nominal power | | kW | 6 | 6 | 8 | 9 | 9 | |
| Pump motor nominal current | | А | 11 | 11 | 16 | 19 | 19 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

| UNIT SIZE | | | 51.2 | 54.2 | 58.2 | 61.2 | 67.2 | |
|----------------------------|---------|---------|---------------|---------|---------|----------|----------|--|
| Maximum absorbed power | (1),(3) | kW | 240 | 262 | 281 | 255 | 266 | |
| Maximum absorbed power | (1),(3) | KVV | (249) | (271) | (291) | (264) | (277) | |
| Maximum absorbed current | (0) (0) | ۸ | 401 | 438 | 470 | 428 | 446 | |
| iviaximum absorbed current | (2),(3) | A | (420) | (457) | (489) | (447) | (469) | |
| Maximum aurrant at neek | (4) | ۸ | 500 | 518 | 557 | 508 | 527 | |
| Maximum current at peak | (4) | А | (509) | (527) | (566) | (518) | (538) | |
| Fan nominal power | | n° x kW | 8 x 2,0 | 8 x 2,0 | 8 x 2,0 | 10 x 2,0 | 10 x 2,0 | |
| Fan nominal current | | n° x A | 8 x 4,3 | 8 x 4,3 | 8 x 4,3 | 10 x 4,3 | 10 x 4,3 | |
| Pump motor nominal power | | kW | 9 | 9 | 9 | 9 | 11 | |
| Pump motor nominal current | | А | 19 | 19 | 19 | 19 | 23 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

⁽¹⁾ Electric power which must be available from the electric network for the unit to function

It is the maximum current absorbed by the unit. This value is never exceeded and must be used for dimensioning the line and the relative protections (refer to the wiring diagram supplied with the units).
 The values between brackets refer to the ST version units (unit with storage tank and pumps or to units with pumps only).
 Maximum peak current calculated considering the compressor start-up with higher power and maximum current absorbed by all other devices.



Kappa V Evo /SLN - electrical data of the basic version

| UNIT SIZE | | | 70.2 | 73.2 | 80.2 | 82.2 | 85.2 | |
|----------------------------|---------|---------|---------------|----------|----------|----------|----------|--|
| Marrian abanda da marran | (1) (2) | LAAZ | 285 | 292 | 311 | 318 | 339 | |
| Maximum absorbed power | (1),(3) | kW | (296) | (303) | (326) | (333) | (354) | |
| Mariana abanda da amant | (2) (2) | ۸ | 478 | 490 | 520 | 535 | 568 | |
| Maximum absorbed current | (2),(3) | Α | (501) | (512) | (550) | (565) | (599) | |
| Maximum aurrant at pack | (4) | ۸ | 566 | 566 | 749 | 721 | 757 | |
| Maximum current at peak | (4) | Α | (577) | (577) | (764) | (736) | (772) | |
| Fan nominal power | | n° x kW | 10 x 2,0 | 10 x 2,0 | 10 x 2,0 | 12 x 2,0 | 12 x 2,0 | |
| Fan nominal current | | n° x A | 10 x 4,3 | 10 x 4,3 | 10 x 4,3 | 12 x 4,3 | 12 x 4,3 | |
| Pump motor nominal power | | kW | 11 | 11 | 15 | 15 | 15 | |
| Pump motor nominal current | | Α | 23 | 23 | 30 | 30 | 30 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

| UNIT SIZE | | | 90.2 | 95.2 | 100.2 | 105.2 | 110.2 | |
|------------------------------------|---------|---------|---------------|----------|----------|----------|----------|--|
| Maximum absorbed power | (1) (2) | kW | 363 | 382 | 400 | 421 | 465 | |
| Maximum absorbed power | (1),(3) | KVV | (378) | (400) | (419) | (439) | (487) | |
| Marrian and a sub-set and a summer | (2) (2) | ۸ | 608 | 639 | 669 | 704 | 778 | |
| Maximum absorbed current | (2),(3) | А | (639) | (676) | (706) | (741) | (819) | |
| Maniana annual at a all | (4) | Α | 797 | 828 | 858 | 927 | 1112 | |
| Maximum current at peak | (4) | | (812) | (846) | (877) | (946) | (1.134) | |
| Fan nominal power | | n° x kW | 12 x 2,0 | 12 x 2,0 | 12 x 2,0 | 14 x 2,0 | 14 x 2,0 | |
| Fan nominal current | | n° x A | 12 x 4,3 | 12 x 4,3 | 12 x 4,3 | 14 x 4,3 | 14 x 4,3 | |
| Pump motor nominal power | | kW | 15 | 19 | 19 | 19 | 22 | |
| Pump motor nominal current | | Α | 30 | 37 | 37 | 37 | 42 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

| UNIT SIZE | | | 115.2 | 120.2 | 130.2 | 140.2 | 150.4 | |
|------------------------------|---------|---------|---------------|----------|----------|----------|----------|--|
| Maximum absorbed naurar | (1),(3) | 134/ | 469 | 498 | 516 | 534 | 599 | |
| Maximum absorbed power | (1),(3) | kW | (491) | (520) | (538) | (556) | (621) | |
| Maniana abandan | (2) (2) | ۸ | 786 | 823 | 855 | 887 | 1002 | |
| Maximum absorbed current | (2),(3) | А | (828) | (865) | (897) | (929) | (1.044) | |
| Manianum annum et et e e els | (4) | Α | 1121 | 1251 | 1363 | 1395 | 1078 | |
| Maximum current at peak | (4) | | (1.143) | (1.273) | (1.385) | (1.417) | (1.100) | |
| Fan nominal power | | n° x kW | 16 x 2,0 | 16 x 2,0 | 16 x 2,0 | 16 x 2,0 | 20 x 2,0 | |
| Fan nominal current | | n° x A | 16 x 4,3 | 16 x 4,3 | 16 x 4,3 | 16 x 4,3 | 20 x 4,3 | |
| Pump motor nominal power | | kW | 22 | 22 | 22 | 22 | 22 | |
| Pump motor nominal current | | Α | 42 | 42 | 42 | 42 | 42 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

⁽¹⁾ Electric power which must be available from the electric network for the unit to function

⁽²⁾ It is the maximum current absorbed by the unit. This value is never exceeded and must be used for dimensioning the line and the relative protections (refer to the wiring diagram supplied with the units).

(3) The values between brackets refer to the ST version units (unit with storage tank and pumps or to units with pumps only).

(4) Maximum peak current calculated considering the compressor start-up with higher power and maximum current absorbed by all other devices.



Kappa V Evo /SLN - electrical data of the basic version

| UNIT SIZE | | | 160.4 | 180.4 |
|----------------------------|---------|---------|----------|----------|
| Maximum absorbed power | (1),(3) | kW | 622 | 718 |
| Maximum absorbed power | (1),(3) | KVV | (644) | (748) |
| Maximum absorbed current | (2) (2) | ^ | 1040 | 1199 |
| Maximum absorbed current | (2),(3) | А | (1.082) | (1.253) |
| Maximum aurrant at peak | (4) | ٨ | 1269 | 1388 |
| Maximum current at peak | (4) | Α | (1.291) | (1.418) |
| Fan nominal power | | n° x kW | 20 x 2,0 | 20 x 2,0 |
| Fan nominal current | | n° x A | 20 x 4,3 | 20 x 4,3 |
| Pump motor nominal power | | kW | 22 | 30 |
| Pump motor nominal current | | Α | 42 | 54 |
| Electric power supply | | V/ph/Hz | 400/3~/ | ′50 ±5% |
| Auxiliary power supply | | V/ph/Hz | 230/1~/ | /50 ±5% |

⁽¹⁾ Electric power which must be available from the electric network for the unit to function
(2) It is the maximum current absorbed by the unit. This value is never exceeded and must be used for dimensioning the line and the relative protections (refer to the wiring diagram supplied with the units).
(3) The values between brackets refer to the ST version units (unit with storage tank and pumps or to units with pumps only).

⁽⁴⁾ Maximum peak current calculated considering the compressor start-up with higher power and maximum current absorbed by all other devices.



Kappa V Evo A - electrical data of the basic version

| UNIT SIZE | | | 23.1 | 23.2 | 25.1 | 25.2 | 28.1 | |
|----------------------------|---------|---------|---------------|---------|---------|---------|---------|--|
| Maximum absorbed power | (1),(3) | kW | 108 | 104 | 120 | 122 | 135 | |
| Maximum absorbed power | (1),(3) | KVV | (112) | (108) | (125) | (128) | (141) | |
| Maximum absorbed current | (2) (2) | ۸ | 181 | 174 | 201 | 205 | 228 | |
| iviaximum absorbed current | (2),(3) | А | (189) | (183) | (212) | (217) | (239) | |
| Manianum aumant at a a l | (4) | Α | 247 | 204 | 299 | 278 | 308 | |
| Maximum current at peak | (4) | | (251) | (208) | (305) | (284) | (313) | |
| Fan nominal power | | n° x kW | 4 x 2,0 | 4 x 2,0 | 4 x 2,0 | 4 x 2,0 | 6 x 2,0 | |
| Fan nominal current | | n° x A | 4 x 4,3 | 4 x 4,3 | 4 x 4,3 | 4 x 4,3 | 6 x 4,3 | |
| Pump motor nominal power | | kW | 4 | 4 | 6 | 6 | 6 | |
| Pump motor nominal current | | А | 8 | 8 | 11 | 11 | 11 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

| UNIT SIZE | | | 28.2 | 31.1 | 31.2 | 33.2 | 35.2 | |
|----------------------------|---------|---------|---------------|---------|---------|---------|---------|--|
| Maximum absorbed power | (1),(3) | kW | 138 | 145 | 147 | 156 | 171 | |
| Maximum absorbed power | (1),(3) | KVV | (144) | (150) | (153) | (162) | (177) | |
| Manianus abandana | (2) (2) | ۸ | 234 | 244 | 248 | 262 | 289 | |
| Maximum absorbed current | (2),(3) | А | (245) | (255) | (259) | (273) | (300) | |
| Manimum aurent at nock | (4) | Α | 297 | 331 | 338 | 352 | 370 | |
| Maximum current at peak | (4) | | (302) | (336) | (343) | (357) | (375) | |
| Fan nominal power | | n° x kW | 6 x 2,0 | 6 x 2,0 | 6 x 2,0 | 6 x 2,0 | 8 x 2,0 | |
| Fan nominal current | | n° x A | 6 x 4,3 | 6 x 4,3 | 6 x 4,3 | 6 x 4,3 | 8 x 4,3 | |
| Pump motor nominal power | | kW | 6 | 6 | 6 | 6 | 6 | |
| Pump motor nominal current | | А | 11 | 11 | 11 | 11 | 11 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

| UNIT SIZE | | | 37.2 | 40.2 | 43.2 | 47.2 | 51.2 | |
|--------------------------------|---------|---------|---------------|---------|---------|----------|----------|--|
| Maximum absorbed nower | (1) (2) | kW | 181 | 194 | 205 | 232 | 244 | |
| Maximum absorbed power | (1),(3) | KVV | (188) | (201) | (212) | (241) | (253) | |
| Maximum absorbed current | (2) (2) | ۸ | 304 | 326 | 344 | 390 | 410 | |
| vidxiiiiuiii absorbed cuiteiit | (2),(3) | Α | (320) | (342) | (360) | (409) | (429) | |
| Maximum aurrant at peak | (4) | ۸ | 409 | 420 | 420 | 489 | 508 | |
| Maximum current at peak | (4) | А | (417) | (428) | (428) | (498) | (518) | |
| Fan nominal power | | n° x kW | 8 x 2,0 | 8 x 2,0 | 8 x 2,0 | 10 x 2,0 | 10 x 2,0 | |
| Fan nominal current | | n° x A | 8 x 4,3 | 8 x 4,3 | 8 x 4,3 | 10 x 4,3 | 10 x 4,3 | |
| Pump motor nominal power | | kW | 8 | 8 | 8 | 9 | 9 | |
| Pump motor nominal current | | А | 16 | 16 | 16 | 19 | 19 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

⁽¹⁾ Electric power which must be available from the electric network for the unit to function

 ⁽²⁾ It is the maximum current absorbed by the unit. This value is never exceeded and must be used for dimensioning the line and the relative protections (refer to the wiring diagram supplied with the units).
 (3) The values between brackets refer to the ST version units (unit with storage tank and pumps or to units with pumps only).
 (4) Maximum peak current calculated considering the compressor start-up with higher power and maximum current absorbed by all other devices.



Kappa V Evo A - electrical data of the basic version

| UNIT SIZE | | | 54.2 | 61.2 | 70.2 | 73.2 | 80.2 | |
|---------------------------------|---------|---------|---------------|----------|----------|----------|----------|--|
| Maximum absorbed power | (1),(3) | kW | 266 | 255 | 289 | 296 | 315 | |
| Maximum absorbed power | (1),(3) | KVV | (275) | (264) | (300) | (307) | (330) | |
| Maximum absorbed current | (2) (2) | ۸ | 446 | 428 | 487 | 498 | 529 | |
| iviaxiiiiuiii absorbed cuiteiil | (2),(3) | А | (465) | (447) | (510) | (521) | (559) | |
| Maximum aurrant at pook | (4) | А | 527 | 508 | 574 | 574 | 757 | |
| Maximum current at peak | (4) | | (536) | (518) | (585) | (585) | (772) | |
| Fan nominal power | | n° x kW | 10 x 2,0 | 10 x 2,0 | 12 x 2,0 | 12 x 2,0 | 12 x 2,0 | |
| Fan nominal current | | n° x A | 10 x 4,3 | 10 x 4,3 | 12 x 4,3 | 12 x 4,3 | 12 x 4,3 | |
| Pump motor nominal power | | kW | 9 | 9 | 11 | 11 | 15 | |
| Pump motor nominal current | | Α | 19 | 19 | 23 | 23 | 30 | |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | |

| UNIT SIZE | | | 82.2 | 85.2 | 90.2 | 95.2 | 100.2 |
|----------------------------|---------|---------|----------|----------|---------------|----------|----------|
| Maximum absorbed newer | (1) (2) | kW | 318 | 339 | 367 | 386 | 404 |
| Maximum absorbed power | (1),(3) | KVV | (333) | (354) | (382) | (401) | (419) |
| Manianum abasılında sumant | (2) (2) | ۸ | 535 | 568 | 617 | 647 | 677 |
| Maximum absorbed current | (2),(3) | А | (565) | (599) | (647) | (678) | (708) |
| Marrian arrant at a sale | (4) | ۸ | 721 | 757 | 806 | 837 | 867 |
| Maximum current at peak | (4) | А | (736) | (772) | (821) | (852) | (882) |
| Fan nominal power | | n° x kW | 12 x 2,0 | 12 x 2,0 | 14 x 2,0 | 14 x 2,0 | 14 x 2,0 |
| Fan nominal current | | n° x A | 12 x 4,3 | 12 x 4,3 | 14 x 4,3 | 14 x 4,3 | 14 x 4,3 |
| Pump motor nominal power | | kW | 15 | 15 | 15 | 15 | 15 |
| Pump motor nominal current | | Α | 30 | 30 | 30 | 30 | 30 |
| Electric power supply | | V/ph/Hz | | | 400/3~/50 ±5% | | |
| Auxiliary power supply | | V/ph/Hz | | | 230/1~/50 ±5% | | |

| UNIT SIZE | | | 105.2 | 115.2 | 120.2 | 130.2 | 140.2 | 150.4 |
|-----------------------------|---------|---------|----------|----------|---------------|----------|----------|----------|
| Maximum abaseles described | (1) (2) | 1.7.67 | 425 | 469 | 506 | 524 | 542 | 599 |
| Maximum absorbed power | (1),(3) | kW | (443) | (488) | (528) | (546) | (564) | (629) |
| Maninessa aleasahad assessa | (2) (2) | Λ. | 713 | 786 | 840 | 872 | 904 | 1002 |
| Maximum absorbed current | (2),(3) | А | (750) | (823) | (882) | (914) | (946) | (1.056) |
| Marrian and at a sale | (4) | Λ. | 936 | 1121 | 1268 | 1380 | 1412 | 1078 |
| Maximum current at peak | (4) | А | (954) | (1.139) | (1.290) | (1.402) | (1.434) | (1.108) |
| Fan nominal power | | n° x kW | 16 x 2,0 | 16 x 2,0 | 20 x 2,0 | 20 x 2,0 | 20 x 2,0 | 20 x 2,0 |
| Fan nominal current | | n° x A | 16 x 4,3 | 16 x 4,3 | 20 x 4,3 | 20 x 4,3 | 20 x 4,3 | 20 x 4,3 |
| Pump motor nominal power | | kW | 19 | 19 | 22 | 22 | 22 | 30 |
| Pump motor nominal current | | А | 37 | 37 | 42 | 42 | 42 | 54 |
| Electric power supply | | V/ph/Hz | | | 400/3~/50 ±5% | 6 | | |
| Auxiliary power supply | | V/ph/Hz | | 2 | 230/1~/50 ±5% | 6 | | |

⁽¹⁾ Electric power which must be available from the electric network for the unit to function

 ⁽²⁾ It is the maximum current absorbed by the unit. This value is never exceeded and must be used for dimensioning the line and the relative protections (refer to the wiring diagram supplied with the units).
 (3) The values between brackets refer to the ST version units (unit with storage tank and pumps or to units with pumps only).
 (4) Maximum peak current calculated considering the compressor start-up with higher power and maximum current absorbed by all other devices.



Kappa V Evo A /SLN - electrical data of the basic version

| UNIT SIZE | | | 23.1 | 23,2 | 25.1 | 25,2 | 28.1 |
|----------------------------|---------|---------|---------|---------|---------------|---------|---------|
| Maximum absorbed power | (1) (2) | kW | 108 | 104 | 120 | 122 | 135 |
| Maximum absorbed power | (1),(3) | KVV | (112) | (108) | (125) | (128) | (141) |
| Mariana abandan | (2) (2) | ۸ | 181 | 174 | 201 | 205 | 228 |
| Maximum absorbed current | (2),(3) | А | (189) | (183) | (212) | (217) | (239) |
| Manianum aumant at maak | (4) | ۸ | 247 | 204 | 299 | 278 | 308 |
| Maximum current at peak | (4) | А | (251) | (208) | (305) | (284) | (313) |
| Fan nominal power | | n° x kW | 4 x 2,0 | 4 x 2,0 | 4 x 2,0 | 4 x 2,0 | 6 x 2,0 |
| Fan nominal current | | n° x A | 4 x 4,3 | 4 x 4,3 | 4 x 4,3 | 4 x 4,3 | 6 x 4,3 |
| Pump motor nominal power | | kW | 4 | 4 | 6 | 6 | 6 |
| Pump motor nominal current | | А | 8 | 8 | 11 | 11 | 11 |
| Electric power supply | | V/ph/Hz | | | 400/3~/50 ±5% | | |
| Auxiliary power supply | | V/ph/Hz | | | 230/1~/50 ±5% | | |

| UNIT SIZE | | | 28,2 | 31.1 | 31,2 | 33.2 | 35.2 | | |
|----------------------------|---------|---------|---------------|---------|---------------|---------|---------|--|--|
| Maximum absorbed namer | (1) (2) | kW | 138 | 145 | 147 | 156 | 171 | | |
| Maximum absorbed power | (1),(3) | KVV | (144) | (150) | (153) | (162) | (177) | | |
| Maximum absorbed current | (2) (2) | ۸ | 234 | 244 | 248 | 262 | 289 | | |
| Maximum absorbed current | (2),(3) | А | (245) | (255) | (259) | (273) | (300) | | |
| Manianona aromant at maali | (4) | ۸ | 297 | 331 | 338 | 352 | 370 | | |
| Maximum current at peak | (4) | А | (302) | (336) | (343) | (357) | (375) | | |
| Fan nominal power | | n° x kW | 6 x 2,0 | 6 x 2,0 | 6 x 2,0 | 6 x 2,0 | 8 x 2,0 | | |
| Fan nominal current | | n° x A | 6 x 4,3 | 6 x 4,3 | 6 x 4,3 | 6 x 4,3 | 8 x 4,3 | | |
| Pump motor nominal power | | kW | 6 | 6 | 6 | 6 | 6 | | |
| Pump motor nominal current | | Α | 11 | 11 | 11 | 11 | 11 | | |
| Electric power supply | | V/ph/Hz | | | 400/3~/50 ±5% | | | | |
| Auxiliary power supply | | V/ph/Hz | 230/1~/50 ±5% | | | | | | |

| UNIT SIZE | | | 37.2 | 40.2 | 43.2 | 47.2 | 51.2 |
|----------------------------|---------|---------|---------|---------|---------------|----------|----------|
| Mauinaum abaarbad naurar | (1) (2) | LAAZ | 181 | 194 | 205 | 232 | 244 |
| Maximum absorbed power | (1),(3) | kW | (188) | (201) | (212) | (241) | (253) |
| Mariana abandan | (2) (2) | ۸ | 304 | 326 | 344 | 390 | 410 |
| Maximum absorbed current | (2),(3) | А | (320) | (342) | (360) | (409) | (429) |
| Manimum annual at a sale | (4) | ۸ | 409 | 420 | 4 20 | 489 | 508 |
| Maximum current at peak | (4) | А | (417) | (428) | (428) | (498) | (518) |
| Fan nominal power | | n° x kW | 8 x 2,0 | 8 x 2,0 | 8 x 2,0 | 10 x 2,0 | 10 x 2,0 |
| Fan nominal current | | n° x A | 8 x 4,3 | 8 x 4,3 | 8 x 4,3 | 10 x 4,3 | 10 x 4,3 |
| Pump motor nominal power | | kW | 8 | 8 | 8 | 9 | 9 |
| Pump motor nominal current | | А | 16 | 16 | 16 | 19 | 19 |
| Electric power supply | | V/ph/Hz | | | 400/3~/50 ±5% | | |
| Auxiliary power supply | | V/ph/Hz | | | 230/1~/50 ±5% | | |

Electric power which must be available from the electric network for the unit to function
 It is the maximum current absorbed by the unit. This value is never exceeded and must be used for dimensioning the line and the relative protections (refer to the wiring diagram supplied with the units).
 The values between brackets refer to the ST version units (unit with storage tank and pumps or to units with pumps only).
 Maximum peak current calculated considering the compressor start-up with higher power and maximum current absorbed by all other devices.



Kappa V Evo A /SLN - electrical data of the basic version

| UNIT SIZE | | | 54.2 | 61.2 | 70.2 | 73.2 | 80.2 |
|----------------------------|---------|---------|----------|----------|---------------|----------|----------|
| Maximum absorbed nower | (1) (2) | kW | 266 | 255 | 289 | 296 | 315 |
| Maximum absorbed power | (1),(3) | KVV | (275) | (264) | (300) | (307) | (330) |
| Maximum absorbed current | (2) (2) | ۸ | 446 | 428 | 487 | 498 | 529 |
| Maximum absorbed current | (2),(3) | Α | (465) | (447) | (510) | (521) | (559) |
| Maximum aurrent at neek | (4) | ٨ | 527 | 508 | 574 | 574 | 757 |
| Maximum current at peak | (4) | Α | (536) | (518) | (585) | (585) | (772) |
| Fan nominal power | | n° x kW | 10 x 2,0 | 10 x 2,0 | 12 x 2,0 | 12 x 2,0 | 12 x 2,0 |
| Fan nominal current | | n° x A | 10 x 4,3 | 10 x 4,3 | 12 x 4,3 | 12 x 4,3 | 12 x 4,3 |
| Pump motor nominal power | | kW | 9 | 9 | 11 | 11 | 15 |
| Pump motor nominal current | | Α | 19 | 19 | 23 | 23 | 30 |
| Electric power supply | | V/ph/Hz | | | 400/3~/50 ±5% | | |
| Auxiliary power supply | | V/ph/Hz | | | 230/1~/50 ±5% | | |

| UNIT SIZE | | | 82.2 | 85.2 | 90.2 | 95.2 | 100.2 |
|---|---------|---------|---------------|----------|---------------|----------|----------|
| Mariananahanhadanana | (4) (0) | LAAZ | 294 | 343 | 367 | 386 | 408 |
| Maximum absorbed power | (1),(3) | kW | (309) | (358) | (382) | (401) | (423) |
| Maniano alcada da coment | (2) (2) | Α | 483 | 577 | 617 | 647 | 686 |
| Maximum absorbed current | (2),(3) | Α | (513) | (607) | (647) | (678) | (716) |
| Maria de la companya della companya | /43 | | 670 | 766 | 806 | 837 | 875 |
| Maximum current at peak | (4) | А | (685) | (781) | (821) | (852) | (890) |
| Fan nominal power | | n° x kW | 12 x 2,0 | 12 x 2,0 | 14 x 2,0 | 14 x 2,0 | 14 x 2,0 |
| Fan nominal current | | n° x A | 12 x 4,3 | 12 x 4,3 | 14 x 4,3 | 14 x 4,3 | 14 x 4,3 |
| Pump motor nominal power | | kW | 15 | 15 | 15 | 15 | 15 |
| Pump motor nominal current | | Α | 30 | 30 | 30 | 30 | 30 |
| Electric power supply | | V/ph/Hz | 400/3~/50 ±5% | | | | |
| Auxiliary power supply | | V/ph/Hz | | | 230/1~/50 ±5% | | |

| UNIT SIZE | | | 105.2 | 115.2 | 120.2 | 130.2 | 140.2 | 150.4 |
|----------------------------|---------|---------|----------|----------|----------|----------|----------|----------|
| Maximum abaarbad nausar | (1) (2) | kW | 425 | 469 | 506 | 524 | 542 | 559 |
| Maximum absorbed power | (1),(3) | KVV | (443) | (488) | (528) | (546) | (564) | (589) |
| Maniana abandana | (2) (2) | Δ. | 713 | 786 | 840 | 872 | 904 | 916 |
| Maximum absorbed current | (2),(3) | А | (750) | (823) | (882) | (914) | (946) | (970) |
| Maniana and a sale | (4) | Δ. | 936 | 1121 | 1268 | 1380 | 1412 | 992 |
| Maximum current at peak | (4) | А | (954) | (1.139) | (1.290) | (1.402) | (1.434) | (1.022) |
| Fan nominal power | | n° x kW | 16 x 2,0 | 16 x 2,0 | 20 x 2,0 | 20 x 2,0 | 20 x 2,0 | 20 x 2,0 |
| Fan nominal current | | n° x A | 16 x 4,3 | 16 x 4,3 | 20 x 4,3 | 20 x 4,3 | 20 x 4,3 | 20 x 4,3 |
| Pump motor nominal power | | kW | 19 | 19 | 22 | 22 | 22 | 30 |
| Pump motor nominal current | | А | 37 | 37 | 42 | 42 | 42 | 54 |
| Electric power supply | | V/ph/Hz | | | 400/3~/ | /50 ±5% | | |
| Auxiliary power supply | | V/ph/Hz | | | 230/1~/ | ′50 ±5% | | |

⁽¹⁾ Electric power which must be available from the electric network for the unit to function

 ⁽²⁾ It is the maximum current absorbed by the unit. This value is never exceeded and must be used for dimensioning the line and the relative protections (refer to the wiring diagram supplied with the units).
 (3) The values between brackets refer to the ST version units (unit with storage tank and pumps or to units with pumps only).
 (4) Maximum peak current calculated considering the compressor start-up with higher power and maximum current absorbed by all other devices.



| | | | | EXTERNAL AIR TEMPERATURE [°C] | | | | | | | | | |
|-------|------|-----|----------|-------------------------------|----------|-----|-----------|-----|-----|-----|-----|--|--|
| Model | То | 25 | | 3 | 0 | 3 | 15 | 4 | 0 | 43 | | | |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | | |
| | 5 | 250 | 59 | 235 | 64 | 219 | 71 | 202 | 78 | 191 | 83 | | |
| | 6 | 258 | 60 | 242 | 65 | 226 | 72 | 209 | 80 | 198 | 85 | | |
| 23.1 | 7 | 266 | 61 | 250 | 66 | 233 | 73 | 215 | 81 | 204 | 86 | | |
| 23.1 | 8 | 274 | 62 | 258 | 68 | 240 | 74 | 222 | 82 | 210 | 88 | | |
| | 9 | 282 | 63 | 265 | 69 | 248 | 76 | 229 | 84 | 217 | 89 | | |
| | 10 | 291 | 64 | 273 | 70 | 255 | 77 | 236 | 85 | 224 | 91 | | |
| | 5 | 275 | 68 | 258 | 74 | 239 | 82 | 220 | 92 | 207 | 98 | | |
| | 6 | 283 | 69 | 265 | 75 | 247 | 83 | 227 | 93 | 214 | 100 | | |
| 2E 4 | 7 | 292 | 70 | 273 | 77 | 254 | 85 | 233 | 95 | 221 | 102 | | |
| 25.1 | 8 | 300 | 71 | 281 | 78 | 262 | 87 | 241 | 97 | 227 | 104 | | |
| | 9 | 309 | 73 | 290 | 80 | 269 | 88 | 248 | 99 | 234 | 106 | | |
| | 10 | 318 | 74 | 298 | 81 | 277 | 90 | 255 | 100 | 241 | 108 | | |
| | 5 | 304 | 73 | 285 | 79 | 265 | 88 | 244 | 98 | 231 | 105 | | |
| | 6 | 313 | 74 | 294 | 81 | 274 | 89 | 252 | 100 | 238 | 107 | | |
| | 7 | 323 | 75 | 303 | 82 | 282 | 91 | 260 | 102 | 246 | 109 | | |
| 28.1 | 8 | 332 | 77 | 312 | 84 | 290 | 93 | 268 | 103 | 253 | 111 | | |
| | 9 | 342 | 78 | 321 | 85 | 299 | 94 | 276 | 105 | 261 | 113 | | |
| | 10 | 352 | 70 79 | 331 | 87 | 308 | 96 | 284 | 107 | 269 | 115 | | |
| | 5 | 327 | 80 | 306 | 87 | 285 | 96 | 261 | 108 | 247 | 116 | | |
| | 6 | 337 | 81 | 316 | 89 | 293 | 98 | 269 | 110 | 254 | 118 | | |
| | 7 | 347 | 82 | 325 | 90 | 302 | 100 | 278 | 112 | 262 | 120 | | |
| 31.1 | 8 | 357 | 84 | 335 | 92 | 311 | 100 | 286 | 114 | 270 | 120 | | |
| | 9 | | | 344 | 92 94 | 320 | 104 | 294 | | 278 | 125 | | |
| | | 367 | 86 97 | | | | 4 | | 116 | | | | |
| | 10 | 377 | 87 or | 354 | 96 | 329 | 106 | 303 | 118 | 286 | 127 | | |
| | 5 | 350 | 85 00 | 330 | 92 | 307 | 101 | 284 | 112 | 269 | 120 | | |
| | 6 | 360 | 86 | 338 | 93 | 316 | 102 | 292 | 114 | 276 | 122 | | |
| 33.2 | 7 | 371 | 87 | 349 | 95 | 326 | 104 | 301 | 116 | 286 | 124 | | |
| | 8 | 382 | 88 | 360 | 96 | 336 | 106 | 311 | 118 | 295 | 126 | | |
| | 9 | 394 | 90 | 371 | 98 | 347 | 108 | 321 | 120 | 304 | 128 | | |
| | 10 | 406 | 91 | 383 | 100 | 358 | 110 | 331 | 122 | 314 | 131 | | |
| | 5 | 379 | 93 | 357 | 102 | 332 | 112 | 306 | 124 | 290 | 133 | | |
| | 6 | 389 | 95 | 366 | 103 | 340 | 113 | 314 | 126 | 297 | 135 | | |
| 35.2 | 7 | 401 | 96 | 377 | 105 | 351 | 116 | 324 | 129 | 307 | 138 | | |
| 30.2 | 8 | 414 | 98 | 389 | 107 | 363 | 118 | 334 | 131 | 316 | 140 | | |
| | 9 | 427 | 100 | 401 | 109 | 374 | 120 | 345 | 134 | 327 | 143 | | |
| | 10 | 440 | 102 | 414 | 111 | 385 | 123 | 356 | 136 | 337 | 146 | | |
| | 5 | 400 | 100 | 376 | 108 | 350 | 119 | 322 | 133 | 304 | 143 | | |
| | 6 | 413 | 101 | 387 | 110 | 360 | 122 | 331 | 135 | 313 | 145 | | |
| 37.2 | 7 | 426 | 103 | 400 | 112 | 372 | 124 | 342 | 138 | 324 | 148 | | |
| 07.2 | 8 | 439 | 105 | 412 | 115 | 384 | 126 | 353 | 141 | 334 | 151 | | |
| | 9 | 452 | 107 | 425 | 117 | 396 | 129 | 365 | 144 | 345 | 154 | | |
| | 10 | 466 | 109 | 438 | 119 | 408 | 132 | 376 | 146 | 356 | 157 | | |
| | 5 | 435 | 108 | 408 | 118 | 380 | 130 | 349 | 145 | 329 | 156 | | |
| | 6 | 447 | 110 | 419 | 120 | 389 | 132 | 357 | 148 | 337 | 158 | | |
| 40.2 | 7 | 460 | 112 | 432 | 122 | 401 | 135 | 369 | 151 | 348 | 161 | | |
| 40.2 | 8 | 475 | 114 | 445 | 125 | 413 | 138 | 380 | 154 | 359 | 165 | | |
| | 9 | 489 | 116 | 458 | 127 | 426 | 141 | 392 | 157 | 370 | 168 | | |
| | 10 | 503 | 119 | 472 | 130 | 439 | 144 | 403 | 160 | 381 | 171 | | |

All data refers to the base versions
Pf: cooling power [kW]
Pe: electric power absorbed by compressors [kW]
Pr: condenser heat power [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



| Model | | | | | EXTERNAL AIR TEMPERATURE [°C] | | | | | | | | |
|---------------|------|-----|------------|-----|-------------------------------|-----|-----|-----|-----|-----|-----|--|--|
| Model | To | 2 | . 5 | 3 | 10 | 3 | 15 | 4 | 0 | 4 | 3 | | |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | | |
| | 5 | 471 | 111 | 443 | 120 | 413 | 132 | 381 | 147 | 361 | 157 | | |
| | 6 | 484 | 112 | 455 | 122 | 424 | 134 | 391 | 149 | 371 | 159 | | |
| // 2 2 | 7 | 500 | 114 | 470 | 124 | 438 | 137 | 404 | 152 | 383 | 162 | | |
| 43.2 | 8 | 516 | 116 | 485 | 127 | 452 | 139 | 418 | 155 | 396 | 165 | | |
| | 9 | 532 | 118 | 500 | 129 | 467 | 142 | 431 | 157 | 409 | 168 | | |
| | 10 | 549 | 120 | 516 | 131 | 481 | 145 | 445 | 160 | 422 | 171 | | |
| | 5 | 506 | 127 | 474 | 139 | 440 | 153 | 404 | 171 | 381 | 183 | | |
| | 6 | 520 | 129 | 487 | 141 | 452 | 156 | 415 | 174 | 392 | 186 | | |
| 47.0 | 7 | 537 | 132 | 503 | 144 | 467 | 159 | 429 | 177 | 405 | 189 | | |
| 47.2 | 8 | 554 | 134 | 519 | 147 | 482 | 162 | 443 | 181 | 418 | 193 | | |
| | 9 | 571 | 137 | 535 | 150 | 497 | 166 | 457 | 184 | 431 | 197 | | |
| | 10 | 588 | 139 | 551 | 153 | 512 | 169 | 471 | 188 | 445 | 201 | | |
| | 5 | 537 | 128 | 502 | 141 | 465 | 156 | 426 | 174 | 401 | 187 | | |
| | 6 | 552 | 131 | 516 | 143 | 478 | 158 | 438 | 177 | 413 | 190 | | |
| | 7 | 569 | 133 | 533 | 146 | 494 | 161 | 452 | 180 | 426 | 194 | | |
| 51.2 | 8 | 587 | 136 | 549 | 149 | 509 | 165 | 467 | 184 | 440 | 197 | | |
| | 9 | 605 | 138 | 566 | 152 | 525 | 168 | 481 | 188 | 454 | 201 | | |
| | 10 | 623 | 141 | 583 | 155 | 541 | 172 | 496 | 192 | 468 | 206 | | |
| | 5 | 576 | 141 | 540 | 154 | 501 | 172 | 459 | 191 | 433 | 205 | | |
| | 6 | 590 | 143 | 553 | 157 | 513 | 171 | 471 | 194 | 433 | 203 | | |
| | 7 | 609 | 143 | 570 | 160 | 530 | 173 | 486 | 198 | 459 | 212 | | |
| 54.2 | | | | | | | | | | | | | |
| | 8 | 628 | 148 | 589 | 163 | 546 | 180 | 502 | 201 | 474 | 216 | | |
| | 9 | 648 | 151 | 607 | 166 | 564 | 184 | 518 | 205 | 489 | 220 | | |
| | 10 | 668 | 154 | 626 | 169 | 581 | 188 | 534 | 210 | 504 | 225 | | |
| | 5 | 639 | 161 | 597 | 177 | 552 | 197 | 505 | 220 | 475 | 237 | | |
| | 6 | 657 | 164 | 614 | 180 | 569 | 200 | 520 | 225 | 489 | 241 | | |
| 58.2 | 7 | 674 | 167 | 630 | 184 | 584 | 204 | 535 | 229 | 504 | 246 | | |
| | 8 | 693 | 170 | 648 | 187 | 600 | 208 | 550 | 233 | 518 | 250 | | |
| | 9 | 711 | 173 | 666 | 191 | 617 | 212 | 565 | 237 | 533 | 255 | | |
| | 10 | 731 | 176 | 683 | 194 | 633 | 216 | 581 | 242 | 547 | 260 | | |
| | 5 | 685 | 150 | 643 | 163 | 598 | 180 | 550 | 200 | 520 | 214 | | |
| | 6 | 708 | 153 | 664 | 166 | 618 | 183 | 568 | 204 | 537 | 218 | | |
| 61.2 | 7 | 730 | 156 | 685 | 169 | 637 | 187 | 587 | 208 | 555 | 222 | | |
| 01.2 | 8 | 752 | 158 | 706 | 172 | 657 | 190 | 605 | 211 | 572 | 226 | | |
| | 9 | 775 | 161 | 727 | 176 | 677 | 194 | 623 | 215 | 590 | 230 | | |
| | 10 | 798 | 164 | 749 | 179 | 697 | 197 | 642 | 219 | 608 | 235 | | |
| | 5 | 721 | 158 | 675 | 172 | 627 | 190 | 576 | 212 | 543 | 227 | | |
| | 6 | 744 | 161 | 697 | 176 | 647 | 194 | 594 | 216 | 561 | 231 | | |
| 67.2 | 7 | 767 | 164 | 718 | 179 | 667 | 197 | 613 | 220 | 579 | 235 | | |
| 07.2 | 8 | 790 | 167 | 740 | 182 | 687 | 201 | 632 | 224 | 597 | 240 | | |
| | 9 | 813 | 170 | 762 | 186 | 708 | 205 | 651 | 228 | 615 | 244 | | |
| | 10 | 836 | 173 | 784 | 189 | 728 | 209 | 670 | 232 | 633 | 249 | | |
| | 5 | 757 | 181 | 709 | 197 | 658 | 218 | 604 | 242 | 570 | 260 | | |
| | 6 | 780 | 184 | 731 | 201 | 678 | 222 | 623 | 247 | 588 | 264 | | |
| 70.2 | 7 | 804 | 188 | 753 | 205 | 699 | 226 | 642 | 252 | 606 | 269 | | |
| 70.2 | 8 | 827 | 191 | 775 | 209 | 720 | 230 | 661 | 256 | 625 | 274 | | |
| | 9 | 851 | 195 | 798 | 213 | 741 | 235 | 681 | 261 | 643 | 279 | | |
| | 10 | 876 | 198 | 821 | 217 | 762 | 239 | 701 | 266 | 662 | 285 | | |

All data refers to the base versions
Pf: cooling power (kW)
Pc: electric power absorbed by compressors (kW)
Pr: condenser heat power (kW)
T0: eveporator outlet water temperature [°C] Eveporator thermal gap = 5°C



| | | | | | EXTERNA | L AIR TEMP | ERATURE [° | C] | | | |
|-------|------|------|-----|------|------------|------------|------------|------|-----|-----|-----|
| Model | То | 2 | .5 | 3 | 0 | 3 | 5 | 4 | 0 | 4 | 3 |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 792 | 184 | 741 | 200 | 687 | 221 | 630 | 246 | 594 | 264 |
| | 6 | 816 | 187 | 764 | 204 | 708 | 225 | 650 | 251 | 613 | 269 |
| 73.2 | 7 | 840 | 190 | 786 | 208 | 729 | 230 | 669 | 256 | 631 | 274 |
| 13.2 | 8 | 865 | 194 | 809 | 212 | 751 | 234 | 689 | 261 | 651 | 279 |
| | 9 | 889 | 198 | 833 | 216 | 773 | 239 | 710 | 266 | 670 | 284 |
| | 10 | 915 | 201 | 856 | 220 | 795 | 243 | 730 | 271 | 689 | 290 |
| | 5 | 842 | 206 | 788 | 224 | 730 | 248 | 669 | 276 | 630 | 296 |
| | 6 | 868 | 209 | 812 | 229 | 752 | 253 | 689 | 282 | 650 | 302 |
| 00.2 | 7 | 893 | 213 | 836 | 233 | 775 | 257 | 710 | 287 | 670 | 307 |
| 80.2 | 8 | 920 | 217 | 860 | 237 | 798 | 262 | 731 | 292 | 690 | 313 |
| | 9 | 946 | 221 | 885 | 242 | 821 | 267 | 753 | 298 | 710 | 319 |
| | 10 | 973 | 225 | 911 | 247 | 844 | 273 | 775 | 304 | 731 | 325 |
| | 5 | 877 | 199 | 822 | 217 | 763 | 239 | 701 | 266 | 662 | 285 |
| | 6 | 905 | 203 | 848 | 221 | 788 | 244 | 724 | 271 | 684 | 290 |
| | 7 | 934 | 206 | 875 | 225 | 812 | 248 | 746 | 276 | 705 | 295 |
| 82.2 | 8 | 961 | 210 | 900 | 229 | 836 | 252 | 768 | 281 | 726 | 300 |
| | 9 | 989 | 213 | 926 | 233 | 860 | 257 | 790 | 286 | 747 | 306 |
| | 10 | 1016 | 217 | 952 | 237 | 884 | 262 | 812 | 291 | 768 | 311 |
| | 5 | 931 | 211 | 871 | 230 | 806 | 254 | 739 | 283 | 696 | 303 |
| | 6 | 960 | 214 | 897 | 234 | 831 | 259 | 761 | 288 | 718 | 308 |
| | 7 | 988 | 218 | 924 | 238 | 856 | 263 | 784 | 293 | 739 | 314 |
| 85.2 | 8 | 1016 | 222 | 950 | 243 | 880 | 268 | 806 | 299 | 761 | 320 |
| | 9 | 1044 | 226 | 976 | 243 247 | 904 | 273 | 829 | 304 | 782 | 325 |
| | 10 | 1073 | 230 | 1003 | 252 | 929 | 278 | 852 | 310 | 804 | 331 |
| | 5 | 980 | 234 | 915 | 256 | 845 | 283 | 772 | 316 | 727 | 338 |
| | 6 | 1008 | 238 | 941 | 261 | 870 | 288 | 795 | 322 | 748 | 344 |
| | | | | | | | | | | | |
| 90.2 | 7 | 1037 | 243 | 967 | 266 | 894 | 294 | 817 | 327 | 769 | 351 |
| | 8 | 1065 | 247 | 993 | 271 | 918 | 299 | 839 | 333 | 790 | 357 |
| | 9 | 1093 | 252 | 1020 | 276 | 943 | 305 | 863 | 340 | 812 | 364 |
| | 10 | 1123 | 256 | 1047 | 281 | 968 | 311 | 885 | 346 | 834 | 370 |
| | 5 | 1024 | 248 | 957 | 272 | 886 | 302 | 810 | 337 | 762 | 362 |
| | 6 | 1053 | 253 | 984 | 277 | 911 | 308 | 834 | 344 | 785 | 369 |
| 95.2 | 7 | 1086 | 258 | 1015 | 283 | 940 | 314 | 860 | 351 | 810 | 376 |
| | 8 | 1119 | 263 | 1046 | 289 | 969 | 321 | 887 | 359 | 835 | 384 |
| | 9 | 1152 | 269 | 1077 | 296 | 998 | 328 | 914 | 366 | 861 | 393 |
| | 10 | 1186 | 275 | 1109 | 302 | 1027 | 335 | 941 | 374 | 887 | 401 |
| | 5 | 1068 | 263 | 998 | 288 | 922 | 320 | 842 | 358 | 792 | 384 |
| | 6 | 1099 | 268 | 1026 | 294 | 949 | 326 | 867 | 365 | 815 | 391 |
| 100.2 | 7 | 1132 | 273 | 1058 | 300 | 978 | 333 | 894 | 373 | 841 | 400 |
| TOULE | 8 | 1167 | 279 | 1090 | 307 | 1008 | 340 | 922 | 381 | 867 | 408 |
| | 9 | 1202 | 285 | 1122 | 313 | 1039 | 348 | 950 | 389 | 894 | 417 |
| | 10 | 1237 | 291 | 1155 | 320 | 1069 | 356 | 978 | 397 | 921 | 426 |
| | 5 | 1121 | 280 | 1048 | 306 | 970 | 338 | 887 | 376 | 835 | 402 |
| | 6 | 1155 | 285 | 1079 | 312 | 999 | 344 | 913 | 383 | 860 | 410 |
| 105.2 | 7 | 1188 | 291 | 1110 | 318 | 1027 | 351 | 939 | 391 | 885 | 418 |
| 103.2 | 8 | 1221 | 296 | 1141 | 324 | 1056 | 358 | 966 | 398 | 910 | 426 |
| | 9 | 1254 | 302 | 1171 | 331 | 1084 | 365 | 992 | 406 | 935 | 434 |
| | 10 | 1288 | 308 | 1202 | 337 | 1113 | 372 | 1018 | 414 | 959 | 442 |

All data refers to the base versions
Pf: cooling power [kW]
Pe: electric power absorbed by compressors [kW]
Pr: condenser heat power [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



| | EXTERNAL AIR TEMPERATURE [°C] | | | | | | | | | | | |
|-------|-------------------------------|------|-----|------|-----|------|-----|------|------------|------|------------|--|
| Model | То | 25 | | 3 | 0 | 3 | 5 | 4 | 0 | 43 | | |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | |
| | 5 | 1180 | 291 | 1102 | 319 | 1019 | 353 | 930 | 394 | 873 | 423 | |
| | 6 | 1212 | 296 | 1132 | 325 | 1046 | 360 | 955 | 402 | 897 | 431 | |
| 110.2 | 7 | 1248 | 303 | 1166 | 332 | 1078 | 368 | 984 | 411 | 925 | 440 | |
| 110.2 | 8 | 1285 | 309 | 1200 | 340 | 1110 | 376 | 1014 | 420 | 954 | 450 | |
| | 9 | 1322 | 316 | 1235 | 348 | 1143 | 385 | 1044 | 429 | 982 | 460 | |
| | 10 | 1360 | 324 | 1271 | 356 | 1175 | 394 | 1074 | 439 | 1011 | 470 | |
| | 5 | 1278 | 304 | 1195 | 332 | 1108 | 368 | 1014 | 411 | 956 | 441 | |
| | 6 | 1313 | 309 | 1229 | 338 | 1139 | 374 | 1043 | 418 | 983 | 448 | |
| 115.2 | 7 | 1355 | 315 | 1268 | 345 | 1175 | 382 | 1077 | 427 | 1015 | 457 | |
| 115.2 | 8 | 1397 | 321 | 1307 | 352 | 1212 | 390 | 1111 | 435 | 1048 | 466 | |
| | 9 | 1439 | 327 | 1347 | 359 | 1249 | 398 | 1146 | 444 | 1081 | 476 | |
| | 10 | 1482 | 334 | 1387 | 367 | 1287 | 406 | 1181 | 454 | 1115 | 486 | |
| | 5 | 1375 | 321 | 1292 | 347 | 1203 | 376 | 1111 | 409 | 1054 | 431 | |
| | 6 | 1415 | 327 | 1329 | 353 | 1238 | 382 | 1143 | 416 | 1084 | 438 | |
| 120.2 | 7 | 1455 | 332 | 1366 | 359 | 1272 | 389 | 1175 | 422 | 1114 | 445 | |
| 120.2 | 8 | 1496 | 338 | 1404 | 365 | 1308 | 395 | 1207 | 429 | 1145 | 451 | |
| | 9 | 1536 | 344 | 1442 | 371 | 1343 | 402 | 1240 | 436 | 1176 | 459 | |
| | 10 | 1578 | 351 | 1481 | 378 | 1379 | 408 | 1273 | 443 | 1208 | 466 | |
| | 5 | 1416 | 354 | 1329 | 383 | 1236 | 416 | 1140 | 452 | 1081 | 477 | |
| | 6 | 1457 | 360 | 1366 | 389 | 1271 | 422 | 1172 | 460 | 1111 | 484 | |
| 400.0 | 7 | 1497 | 367 | 1404 | 396 | 1307 | 429 | 1205 | 467 | 1142 | 491 | |
| 130.2 | 8 | 1539 | 373 | 1443 | 403 | 1343 | 436 | 1238 | 474 | 1174 | 499 | |
| | 9 | 1581 | 380 | 1483 | 410 | 1380 | 444 | 1272 | 482 | 1206 | 507 | |
| | 10 | 1624 | 387 | 1523 | 417 | 1418 | 452 | 1307 | 490 | 1239 | 516 | |
| | 5 | 1480 | 375 | 1386 | 406 | 1288 | 441 | 1186 | 480 | 1123 | 506 | |
| | 6 | 1521 | 382 | 1425 | 413 | 1325 | 448 | 1220 | 488 | 1155 | 514 | |
| 440.0 | 7 | 1564 | 388 | 1465 | 420 | 1361 | 455 | 1253 | 495 | 1187 | 522 | |
| 140.2 | 8 | 1607 | 395 | 1505 | 427 | 1399 | 463 | 1288 | 503 | 1220 | 530 | |
| | 9 | 1652 | 403 | 1547 | 435 | 1438 | 471 | 1324 | 512 | 1254 | 539 | |
| | 10 | 1697 | 410 | 1590 | 443 | 1478 | 479 | 1361 | 521 | 1289 | 548 | |
| | 5 | 1582 | 393 | 1482 | 430 | 1374 | 476 | 1260 | 531 | 1187 | 569 | |
| | 6 | 1629 | 400 | 1526 | 438 | 1416 | 485 | 1298 | 541 | 1224 | 580 | |
| 450.4 | 7 | 1680 | 408 | 1574 | 447 | 1460 | 495 | 1339 | 552 | 1263 | 592 | |
| 150.4 | 8 | 1731 | 417 | 1622 | 457 | 1505 | 506 | 1381 | 564 | 1303 | 604 | |
| | 9 | 1783 | 425 | 1671 | 467 | 1551 | 516 | 1424 | 576 | 1344 | 617 | |
| | 10 | 1836 | 434 | 1720 | 477 | 1597 | 528 | 1467 | 588 | 1385 | 630 | |
| | 5 | 1677 | 409 | 1572 | 447 | 1459 | 494 | 1339 | 551 | 1263 | 591 | |
| | 6 | 1728 | 416 | 1619 | 455 | 1503 | 503 | 1380 | 562 | 1302 | 602 | |
| 400.4 | 7 | 1782 | 424 | 1670 | 464 | 1551 | 514 | 1424 | 573 | 1345 | 614 | |
| 160.4 | 8 | 1837 | 433 | 1722 | 474 | 1600 | 524 | 1470 | 585 | 1388 | 627 | |
| | 9 | 1893 | 441 | 1775 | 483 | 1649 | 535 | 1516 | 597 | 1432 | 640 | |
| | 10 | 1950 | 450 | 1829 | 493 | 1699 | 546 | 1562 | 610 | 1476 | 653 | |
| | 5 | 1937 | 494 | 1802 | 542 | 1659 | 600 | 1508 | 670 | 1413 | 719 | |
| | 6 | 1989 | 503 | 1850 | 552 | 1703 | 612 | 1549 | 683 | 1452 | 732 | |
| | 7 | 2043 | 513 | 1900 | 563 | 1750 | 624 | 1592 | 697 | 1493 | 746 | |
| 180.4 | 8 | 2097 | 523 | 1951 | 575 | 1797 | 637 | 1634 | 710 | 1533 | 761 | |
| | 9 | 2152 | 534 | 2003 | 587 | 1845 | 650 | 1679 | 710 | 1575 | 776 | |
| | 10 | 2210 | 545 | 2057 | 599 | 1896 | 664 | 1726 | 723 741 | 1619 | 770 793 | |

All data refers to the base versions
Pf: cooling power [kW]
Pe: electric power absorbed by compressors [kW]
Pr: condenser heat power [kW]
To: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



Kappa V Evo - heating capacities

| | | | | | | TURE TO CO | _ | _ | | |
|-------|----------|----|--------------|-----|-----|------------|------------|----------|------------|----------|
| Model | Ta | RH | | /35 | | /40 | | /45 | | /50 |
| | [°C] | % | Pt | Pe | Pt | Pe | Pt | Pe | Pt | Pe |
| | -8 | 95 | 153 | 46 | 150 | 49 | 149 | 55 | 148 | 61 |
| | -5 | 90 | 168 | 47 | 165 | 51 | 163 | 56 | 162 | 63 |
| 23.1 | 0 | 80 | 193 | 50 | 190 | 54 | 188 | 59 | 186 | 67 |
| 23.1 | 5 | 80 | 220 | 52 | 216 | 56 | 214 | 62 | 212 | 70 |
| | 7 | 70 | 229 | 53 | 226 | 57 | 223 | 63 | 221 | 71 |
| | 10 | 70 | 248 | 54 | 244 | 59 | 240 | 65 | 237 | 73 |
| | -8 | 95 | 174 | 52 | 173 | 56 | 172 | 63 | 172 | 71 |
| | -5 | 90 | 190 | 53 | 188 | 58 | 187 | 65 | 185 | 73 |
| OF 4 | 0 | 80 | 222 | 56 | 219 | 61 | 217 | 68 | 215 | 76 |
| 25.1 | 5 | 80 | 249 | 58 | 245 | 63 | 242 | 70 | 241 | 79 |
| | 7 | 70 | 260 | 59 | 256 | 64 | 253 | 71 | 251 | 80 |
| | 10 | 70 | 282 | 61 | 277 | 66 | 272 | 73 | 270 | 82 |
| | -8 | 95 | 190 | 57 | 188 | 62 | 186 | 69 | 185 | 78 |
| | -5 | 90 | 207 | 59 | 205 | 64 | 204 | 71 | 202 | 80 |
| | 0 | 80 | 236 | 61 | 234 | 66 | 232 | 74 | 230 | 83 |
| 28.1 | 5 | 80 | 267 | 64 | 264 | 69 | 262 | 77 | 261 | 87 |
| | 7 | 70 | 271 | 64 | 270 | 70 | 269 | 78 | 269 | 88 |
| | 10 | 70 | 289 | 65 | 287 | 70 71 | 284 | 76 79 | 283 | 89 |
| | -8 | 95 | 289 | 62 | 202 | 67 | 200 | 79 | 203 | 85 |
| | -o -5 | 90 | 209 | 64 | 202 | 69 | 200 | 74 | 203 | 87 |
| | | | 258 | 67 | 256 | | 253 | 80 | 251 | |
| 31.1 | 0 | 80 | (| | | 73 | | | | 91 or |
| | 5 | 80 | 295 | 70 | 291 | 76 | 288 | 84 | 286 | 95 |
| | 7 | 70 | 305 | 70 | 301 | 77 | 299 | 85 | 297 | 96 |
| | 10 | 70 | 327 | 72 | 323 | 78 | 321 | 87 | 316 | 98 |
| | -8 | 95 | 221 | 66 | 218 | 71 | 216 | 79 | 216 | 89 |
| | -5 | 90 | 243 | 68 | 244 | 74 | 237 | 81 | 237 | 92 |
| 33.2 | 0 | 80 | 279 | 72 | 275 | 77 | 273 | 86 | 272 | 97 |
| | 5 | 80 | 317 | 75 | 314 | 81 | 311 | 90 | 310 | 102 |
| | 7 | 70 | 330 | 76 | 327 | 83 | 324 | 92 | 324 | 104 |
| | 10 | 70 | 356 | 78 | 349 | 85 | 346 | 95 | 344 | 107 |
| | -8 | 95 | 230 | 76 | 226 | 82 | 223 | 91 | 222 | 102 |
| | -5 | 90 | 255 | 79 | 250 | 85 | 247 | 94 | 245 | 106 |
| 35.2 | 0 | 80 | 294 | 83 | 289 | 90 | 286 | 99 | 284 | 112 |
| JJ.2 | 5 | 80 | 337 | 87 | 332 | 94 | 328 | 105 | 325 | 118 |
| | 7 | 70 | 351 | 88 | 346 | 96 | 342 | 107 | 339 | 120 |
| | 10 | 70 | 380 | 91 | 372 | 99 | 367 | 110 | 364 | 124 |
| | -8 | 95 | 247 | 78 | 241 | 84 | 235 | 92 | 212 | 101 |
| | -5 | 90 | 276 | 81 | 270 | 87 | 265 | 96 | 262 | 108 |
| 37.2 | 0 | 80 | 322 | 85 | 316 | 92 | 312 | 102 | 309 | 115 |
| 37.2 | 5 | 80 | 370 | 90 | 364 | 97 | 359 | 108 | 356 | 121 |
| | 7 | 70 | 387 | 91 | 381 | 99 | 376 | 110 | 372 | 124 |
| | 10 | 70 | 418 | 94 | 407 | 102 | 402 | 113 | 398 | 127 |
| | -8 | 95 | 232 | 78 | 239 | 86 | 226 | 94 | 264 | 111 |
| | -5 | 90 | 279 | 83 | 241 | 86 | 244 | 96 | 245 | 109 |
| 40.0 | 0 | 80 | 340 | 88 | 332 | 96 | 326 | 106 | 270 | 112 |
| 40.2 | 5 | 80 | 392 | 93 | 384 | 101 | 377 | 111 | 371 | 125 |
| | 7 | 70 | 413 | 94 | 406 | 103 | 399 | 114 | 393 | 128 |
| | 10 | 70 | 447 | 97 | 437 | 105 | 431 | 117 | 425 | 132 |
| | -8 | 95 | 302 | 101 | 299 | 110 | 296 | 121 | 295 | 137 |
| | -5 | 90 | 333 | 105 | 326 | 113 | 322 | 125 | 319 | 141 |
| | 0 | 80 | 378 | 110 | 373 | 119 | 370 | 132 | 367 | 148 |
| 43.2 | 5 | 80 | 417 | 114 | 413 | 124 | 410 | 137 | 409 | 155 |
| | 7 | 70 | 433 | 115 | 413 | 125 | 423 | 137 | 420 | 156 |
| | 10 | 70 | 433 469 | 118 | 427 | 125 | 423 455 | 139 | 420 449 | 160 |

All data refers to the base versions
Pt: heat power [kW]
Pe: power absorbed by compressors [kW]
Ta: dry bulb temperature of the evaporator inlet air [°C]
RH: relative humidity of the input air at the evaporator [%]



Kappa V Evo - heating capacities

| | | | | NPUT WATE | R TEMPERA | TURE TO COM | NDENSER [°C | [] | | |
|-------|----------|----------|------------|------------|------------|-------------|-------------|------------|------------|------------|
| Model | Ta | RH | 30, | /35 | 35, | /40 | 40, | /45 | 45 | /50 |
| | [°C] | % | Pt | Pe | Pt | Pe | Pt | Pe | Pt | Pe |
| | -8 | 95 | 323 | 102 | 320 | 110 | 316 | 122 | 315 | 137 |
| | -5 | 90 | 356 | 105 | 350 | 114 | 345 | 126 | 343 | 142 |
| 47.2 | 0 | 80 | 403 | 110 | 398 | 119 | 395 | 132 | 392 | 149 |
| 47.2 | 5 | 80 | 450 | 114 | 447 | 125 | 444 | 138 | 442 | 156 |
| | 7 | 70 | 459 | 115 | 455 | 125 | 453 | 139 | 452 | 157 |
| | 10 | 70 | 492 | 118 | 489 | 129 | 486 | 143 | 477 | 160 |
| | -8 | 95 | 332 | 104 | 328 | 113 | 326 | 125 | 324 | 141 |
| | -5 | 90 | 365 | 108 | 360 | 117 | 356 | 129 | 359 | 146 |
| 51.2 | 0 | 80 | 414 | 112 | 409 | 122 | 405 | 135 | 404 | 152 |
| 31.2 | 5 | 80 | 468 | 117 | 463 | 127 | 459 | 141 | 457 | 159 |
| | 7 | 70 | 474 | 117 | 471 | 128 | 469 | 142 | 469 | 161 |
| | 10 | 70 | 504 | 120 | 506 | 131 | 503 | 146 | 493 | 164 |
| | -8 | 95 | 374 | 124 | 371 | 135 | 366 | 150 | 365 | 169 |
| | -5 | 90 | 409 | 128 | 403 | 139 | 399 | 154 | 396 | 173 |
| 54.2 | 0 | 80 | 466 | 134 | 461 | 145 | 457 | 161 | 454 | 182 |
| 0 | 5 | 80 | 513 | 138 | 507 | 150 | 504 | 167 | 504 | 188 |
| | 7 | 70 | 536 | 140 | 528 | 152 | 522 | 169 | 519 | 190 |
| | 10 | 70 | 582 | 144 | 573 | 156 | 565 | 173 | 558 | 195 |
| | -8 | 95 | 417 | 125 | 413 | 135 | 411 | 150 | 410 | 169 |
| | -5 | 90 | 458 | 129 | 453 | 140 | 449 | 155 | 446 | 174 |
| 58.2 | 0 | 80 | 518 | 135 | 513 | 146 | 509 | 162 | 506 | 183 |
| | 5 | 80 | 576 | 139 | 571 | 152 | 570 | 169 | 570 | 191 |
| | 7 | 70 | 586 | 140 | 581 | 153 | 579 | 170 | 578 | 191 |
| | 10 | 70 | 634 | 143 | 628 | 156 | 624 | 174 | 614 | 195 |
| | -8 | 95 | 424 | 122 | 418 | 132 | 413 | 147 | 413 | 166 |
| | -5 | 90 | 462 | 126 | 456 | 136 | 451 | 151 | 447 | 171 |
| 61.2 | 0 | 80 | 527 | 131 | 521 | 143 | 517 | 158 | 514 | 179 |
| | 5 | 80 | 596 | 137 | 589 | 149 | 585 | 166 | 582 | 187 |
| | 7 | 70 | 604 | 137 | 601 | 150 | 599 | 167 | 598 | 189 |
| | 10 -8 | 70 95 | 641 439 | 140 128 | 638 434 | 153 138 | 634 431 | 171 154 | 627 430 | 192 174 |
| | -o -5 | 90 | 482 | 132 | | 143 | 431 | | | 174 |
| | -5 0 | 80 | 550 | 138 | 474 543 | 143 | 539 | 158 166 | 465 536 | 178 |
| 67.2 | 5 | 80 | 621 | 143 | 615 | 156 | 610 | 173 | 608 | 196 |
| | 7 | 70 | 637 | 143 | 634 | 158 | 631 | 175 | 628 | 198 |
| | 10 | 70 | 672 | 144 | 670 | 161 | 667 | 179 | 657 | 202 |
| | -8 | 95 | 472 | 137 | 464 | 149 | 458 | 165 | 455 | 186 |
| | -5 -5 | 90 | 520 | 142 | 511 | 153 | 507 | 170 | 503 | 192 |
| | 0 | 80 | 600 | 148 | 590 | 161 | 583 | 179 | 578 | 202 |
| 70.2 | 5 | 80 | 686 | 155 | 675 | 169 | 667 | 187 | 661 | 211 |
| | 7 | 70 | 714 | 157 | 706 | 171 | 699 | 190 | 693 | 215 |
| | 10 | 70 | 773 | 161 | 758 | 176 | 745 | 195 | 738 | 220 |
| | -8 | 95 | 479 | 141 | 469 | 152 | 463 | 169 | 460 | 191 |
| | -5 | 90 | 527 | 145 | 519 | 157 | 512 | 174 | 507 | 197 |
| | 0 | 80 | 608 | 152 | 598 | 165 | 590 | 183 | 585 | 207 |
| 73.2 | 5 | 80 | 696 | 159 | 684 | 173 | 676 | 192 | 669 | 217 |
| | 7 | 70 | 726 | 161 | 716 | 176 | 708 | 195 | 701 | 220 |
| | 10 | 70 | 784 | 165 | 769 | 180 | 758 | 200 | 749 | 226 |
| | -8 | 95 | 523 | 151 | 516 | 164 | 510 | 181 | 506 | 205 |
| | -5 | 90 | 572 | 155 | 565 | 169 | 555 | 187 | 550 | 211 |
| 00.0 | 0 | 80 | 651 | 162 | 643 | 176 | 635 | 195 | 630 | 221 |
| 80.2 | 5 | 80 | 739 | 169 | 730 | 184 | 723 | 204 | 717 | 231 |
| | 7 | 70 | 763 | 171 | 754 | 186 | 747 | 207 | 742 | 234 |
| | 10 | 70 | 815 | 174 | 808 | 190 | 796 | 212 | 787 | 239 |

All data refers to the base versions
Pt: heat power [kW]
Pe: power absorbed by compressors [kW]
Ta: dry bulb temperature of the evaporator inlet air [°C]
RH: relative humidity of the input air at the evaporator [%]



| | | | | | EXTERNA | L AIR TEMP | ERATURE [° | C] | | | |
|-------|------|-----|-----|-----|---------|------------|------------|-----|-----|-----|-----|
| Model | То | 2 | .5 | 3 | 10 | 3 | 15 | 4 | 0 | 4 | 3 |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 249 | 59 | 234 | 65 | 218 | 71 | 201 | 79 | 190 | 84 |
| | 6 | 257 | 60 | 241 | 66 | 225 | 72 | 207 | 80 | 197 | 86 |
| 23.1 | 7 | 264 | 61 | 249 | 67 | 232 | 74 | 214 | 82 | 203 | 87 |
| 23.1 | 8 | 272 | 62 | 256 | 68 | 239 | 75 | 221 | 83 | 209 | 89 |
| | 9 | 281 | 64 | 264 | 69 | 246 | 76 | 227 | 85 | 216 | 90 |
| | 10 | 289 | 65 | 272 | 70 | 253 | 78 | 234 | 86 | 222 | 92 |
| | 5 | 274 | 68 | 257 | 75 | 238 | 83 | 219 | 92 | 206 | 99 |
| | 6 | 282 | 69 | 264 | 76 | 245 | 84 | 225 | 94 | 213 | 101 |
| 25.1 | 7 | 290 | 71 | 272 | 77 | 253 | 86 | 232 | 96 | 219 | 103 |
| 25.1 | 8 | 299 | 72 | 280 | 79 | 260 | 87 | 239 | 98 | 226 | 105 |
| | 9 | 307 | 73 | 288 | 80 | 268 | 89 | 246 | 99 | 233 | 107 |
| | 10 | 316 | 74 | 296 | 82 | 275 | 91 | 253 | 101 | 239 | 109 |
| | 5 | 299 | 74 | 280 | 82 | 259 | 91 | 237 | 102 | 223 | 109 |
| | 6 | 308 | 76 | 288 | 83 | 267 | 92 | 244 | 104 | 230 | 111 |
| 28.1 | 7 | 318 | 77 | 297 | 85 | 275 | 94 | 252 | 106 | 237 | 114 |
| 20.1 | 8 | 327 | 78 | 306 | 86 | 283 | 96 | 259 | 108 | 244 | 116 |
| | 9 | 337 | 80 | 315 | 88 | 292 | 98 | 267 | 110 | 252 | 118 |
| | 10 | 347 | 81 | 324 | 89 | 300 | 100 | 275 | 112 | 259 | 120 |
| | 5 | 322 | 81 | 301 | 89 | 278 | 100 | 253 | 112 | 238 | 120 |
| | 6 | 332 | 83 | 310 | 91 | 286 | 101 | 261 | 114 | 245 | 123 |
| 31.1 | 7 | 342 | 84 | 319 | 93 | 294 | 103 | 269 | 116 | 252 | 125 |
| 31.1 | 8 | 352 | 86 | 328 | 95 | 303 | 105 | 277 | 118 | 260 | 127 |
| | 9 | 362 | 87 | 338 | 96 | 312 | 108 | 285 | 121 | 268 | 130 |
| | 10 | 372 | 89 | 347 | 98 | 321 | 110 | 293 | 123 | 275 | 132 |
| | 5 | 349 | 85 | 328 | 92 | 306 | 101 | 282 | 113 | 267 | 121 |
| | 6 | 359 | 86 | 337 | 93 | 314 | 103 | 290 | 115 | 274 | 123 |
| 33.2 | 7 | 370 | 87 | 348 | 95 | 324 | 105 | 299 | 117 | 283 | 125 |
| 33.2 | 8 | 382 | 89 | 359 | 97 | 335 | 107 | 309 | 119 | 292 | 127 |
| | 9 | 394 | 90 | 370 | 98 | 345 | 109 | 319 | 121 | 302 | 130 |
| | 10 | 406 | 92 | 381 | 100 | 356 | 110 | 328 | 123 | 311 | 132 |
| | 5 | 378 | 93 | 355 | 102 | 330 | 112 | 304 | 125 | 287 | 134 |
| | 6 | 388 | 94 | 364 | 103 | 338 | 114 | 311 | 127 | 294 | 136 |
| 35.2 | 7 | 400 | 96 | 376 | 105 | 349 | 116 | 321 | 129 | 304 | 138 |
| 03.2 | 8 | 413 | 98 | 387 | 107 | 360 | 118 | 332 | 132 | 314 | 141 |
| | 9 | 426 | 100 | 400 | 109 | 372 | 120 | 342 | 134 | 324 | 144 |
| | 10 | 439 | 101 | 412 | 111 | 383 | 123 | 353 | 137 | 334 | 147 |
| | 5 | 400 | 100 | 375 | 109 | 348 | 120 | 319 | 134 | 302 | 144 |
| | 6 | 412 | 102 | 386 | 111 | 359 | 122 | 329 | 137 | 311 | 147 |
| 37.2 | 7 | 425 | 103 | 398 | 113 | 370 | 125 | 340 | 139 | 321 | 149 |
| 02.2 | 8 | 438 | 105 | 411 | 115 | 382 | 127 | 351 | 142 | 331 | 152 |
| | 9 | 452 | 107 | 424 | 117 | 394 | 130 | 362 | 145 | 342 | 155 |
| | 10 | 466 | 109 | 437 | 120 | 406 | 132 | 373 | 148 | 353 | 158 |
| | 5 | 435 | 110 | 407 | 120 | 378 | 133 | 346 | 149 | 326 | 160 |
| | 6 | 446 | 111 | 417 | 122 | 387 | 135 | 355 | 151 | 334 | 162 |
| 40.2 | 7 | 460 | 114 | 431 | 125 | 399 | 138 | 366 | 154 | 345 | 166 |
| | 8 | 474 | 116 | 444 | 127 | 411 | 141 | 377 | 157 | 356 | 169 |
| | 9 | 489 | 118 | 457 | 130 | 424 | 144 | 389 | 161 | 367 | 172 |
| | 10 | 503 | 121 | 471 | 132 | 437 | 147 | 400 | 164 | 378 | 176 |

All data refers to the base versions

Pricooling power [kW]
Pe: electric power absorbed by compressors [kW]
Pr: condenser heat power [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



| | | | | | EXTERNA | L AIR TEMP | ERATURE [° | C] | | | |
|-------|------|-----|-----|-----|---------|------------|------------|-----|-----|-----|-----|
| Model | То | 2 | 25 | 3 | 30 | 3 | 35 | 4 | Ю | 4 | 3 |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 472 | 114 | 443 | 124 | 413 | 136 | 380 | 152 | 360 | 162 |
| | 6 | 485 | 115 | 455 | 126 | 424 | 138 | 391 | 154 | 370 | 165 |
| 43.2 | 7 | 501 | 117 | 470 | 128 | 438 | 141 | 404 | 157 | 382 | 168 |
| 43.2 | 8 | 517 | 119 | 485 | 130 | 452 | 144 | 417 | 160 | 395 | 171 |
| | 9 | 533 | 122 | 501 | 133 | 466 | 146 | 430 | 163 | 407 | 174 |
| | 10 | 550 | 124 | 516 | 135 | 481 | 149 | 444 | 166 | 420 | 177 |
| | 5 | 505 | 130 | 472 | 142 | 438 | 157 | 401 | 175 | 378 | 188 |
| | 6 | 519 | 132 | 486 | 145 | 450 | 160 | 412 | 178 | 389 | 191 |
| 47.2 | 7 | 536 | 135 | 501 | 147 | 465 | 163 | 426 | 182 | 402 | 195 |
| 47.2 | 8 | 552 | 137 | 517 | 150 | 479 | 166 | 440 | 186 | 415 | 199 |
| | 9 | 570 | 140 | 533 | 153 | 494 | 170 | 453 | 189 | 428 | 203 |
| | 10 | 587 | 143 | 549 | 157 | 510 | 173 | 468 | 193 | 441 | 207 |
| | 5 | 536 | 139 | 501 | 152 | 463 | 169 | 424 | 189 | 398 | 203 |
| | 6 | 551 | 141 | 515 | 155 | 476 | 172 | 435 | 192 | 410 | 206 |
| E4.9 | 7 | 568 | 144 | 531 | 158 | 492 | 175 | 450 | 196 | 423 | 211 |
| 51.2 | 8 | 586 | 147 | 548 | 161 | 507 | 179 | 464 | 200 | 437 | 215 |
| | 9 | 604 | 149 | 564 | 164 | 523 | 183 | 478 | 204 | 450 | 219 |
| | 10 | 622 | 152 | 582 | 168 | 539 | 186 | 493 | 209 | 464 | 224 |
| | 5 | 566 | 149 | 529 | 163 | 489 | 182 | 447 | 204 | 420 | 219 |
| | 6 | 580 | 151 | 542 | 166 | 501 | 184 | 458 | 207 | 430 | 222 |
| E4.0 | 7 | 598 | 154 | 559 | 169 | 517 | 188 | 472 | 211 | 444 | 227 |
| 54.2 | 8 | 617 | 157 | 576 | 173 | 533 | 192 | 487 | 215 | 458 | 232 |
| | 9 | 636 | 160 | 594 | 176 | 549 | 196 | 502 | 220 | 473 | 236 |
| | 10 | 655 | 163 | 612 | 180 | 566 | 200 | 518 | 225 | 487 | 241 |
| | 5 | 628 | 164 | 585 | 180 | 539 | 201 | 490 | 226 | 460 | 243 |
| | 6 | 646 | 167 | 602 | 184 | 555 | 205 | 505 | 230 | 473 | 248 |
| F0.0 | 7 | 662 | 170 | 617 | 187 | 569 | 209 | 519 | 235 | 487 | 253 |
| 58.2 | 8 | 680 | 173 | 634 | 191 | 585 | 213 | 533 | 240 | 501 | 258 |
| | 9 | 698 | 176 | 651 | 195 | 601 | 218 | 548 | 244 | 514 | 263 |
| | 10 | 717 | 180 | 668 | 199 | 616 | 222 | 562 | 249 | 528 | 268 |
| | 5 | 672 | 158 | 629 | 173 | 583 | 191 | 535 | 213 | 504 | 228 |
| | 6 | 694 | 161 | 649 | 176 | 602 | 194 | 552 | 217 | 521 | 232 |
| C4 0 | 7 | 715 | 164 | 670 | 179 | 621 | 198 | 570 | 221 | 538 | 237 |
| 61.2 | 8 | 737 | 167 | 690 | 182 | 640 | 202 | 587 | 225 | 554 | 241 |
| | 9 | 759 | 170 | 710 | 186 | 659 | 206 | 605 | 229 | 571 | 246 |
| | 10 | 781 | 173 | 731 | 189 | 678 | 210 | 623 | 234 | 588 | 250 |
| | 5 | 707 | 169 | 661 | 184 | 612 | 204 | 560 | 228 | 527 | 244 |
| | 6 | 729 | 172 | 682 | 188 | 631 | 208 | 578 | 232 | 544 | 249 |
| 67.9 | 7 | 751 | 175 | 702 | 191 | 650 | 212 | 595 | 237 | 561 | 254 |
| 67.2 | 8 | 774 | 178 | 723 | 195 | 670 | 216 | 613 | 241 | 578 | 259 |
| | 9 | 796 | 181 | 744 | 199 | 689 | 220 | 631 | 246 | 595 | 264 |
| | 10 | 819 | 185 | 765 | 203 | 709 | 225 | 650 | 251 | 612 | 269 |
| | 5 | 744 | 186 | 695 | 203 | 642 | 225 | 587 | 251 | 552 | 269 |
| | 6 | 766 | 189 | 716 | 207 | 662 | 229 | 605 | 256 | 569 | 274 |
| 70.2 | 7 | 789 | 193 | 737 | 211 | 682 | 234 | 623 | 261 | 587 | 280 |
| 70.2 | 8 | 812 | 196 | 758 | 215 | 701 | 238 | 642 | 266 | 604 | 285 |
| | 9 | 835 | 200 | 780 | 219 | 722 | 243 | 660 | 271 | 622 | 291 |
| | 10 | 858 | 204 | 802 | 224 | 742 | 248 | 679 | 277 | 639 | 297 |

Pf: cooling power [kW]
Pe: electric power absorbed by compressors [kW]
Pr: condense heat power [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



| | | | | | EXTERNA | L AIR TEMP | ERATURE [° | C] | | | |
|-------|------|------|-----|------|---------|------------|------------|-----|-----|-----|-----|
| Model | To | 2 | 5 | 3 | 30 | 3 | 5 | 4 | 0 | 4 | 3 |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 780 | 193 | 728 | 211 | 672 | 234 | 613 | 261 | 577 | 280 |
| | 6 | 803 | 196 | 750 | 215 | 692 | 238 | 632 | 266 | 594 | 285 |
| 70.0 | 7 | 827 | 200 | 771 | 219 | 713 | 243 | 651 | 271 | 612 | 291 |
| 73.2 | 8 | 851 | 204 | 794 | 224 | 733 | 248 | 670 | 277 | 630 | 297 |
| | 9 | 875 | 208 | 816 | 228 | 754 | 253 | 689 | 283 | 648 | 303 |
| | 10 | 899 | 212 | 839 | 233 | 775 | 258 | 708 | 288 | 667 | 309 |
| | 5 | 812 | 210 | 755 | 230 | 696 | 255 | 632 | 286 | 593 | 307 |
| | 6 | 835 | 214 | 777 | 235 | 716 | 261 | 651 | 292 | 610 | 313 |
| 00.0 | 7 | 859 | 218 | 799 | 240 | 736 | 266 | 670 | 298 | 628 | 319 |
| 80.2 | 8 | 883 | 223 | 822 | 245 | 757 | 272 | 689 | 304 | 646 | 326 |
| | 9 | 907 | 227 | 844 | 250 | 778 | 278 | 708 | 310 | 664 | 333 |
| | 10 | 932 | 232 | 867 | 256 | 799 | 284 | 728 | 317 | 683 | 340 |
| | 5 | 861 | 204 | 805 | 223 | 745 | 247 | 682 | 275 | 642 | 295 |
| | 6 | 889 | 208 | 830 | 227 | 769 | 252 | 703 | 281 | 663 | 301 |
| 00.0 | 7 | 916 | 212 | 855 | 232 | 792 | 256 | 725 | 286 | 683 | 307 |
| 82.2 | 8 | 942 | 216 | 880 | 236 | 814 | 261 | 746 | 291 | 703 | 312 |
| | 9 | 969 | 219 | 904 | 241 | 837 | 266 | 766 | 297 | 723 | 318 |
| | 10 | 995 | 223 | 929 | 245 | 860 | 271 | 788 | 302 | 742 | 324 |
| | 5 | 906 | 221 | 844 | 242 | 779 | 269 | 711 | 300 | 668 | 322 |
| | 6 | 933 | 225 | 870 | 247 | 803 | 274 | 732 | 306 | 688 | 328 |
| 05.0 | 7 | 960 | 230 | 895 | 252 | 826 | 279 | 753 | 312 | 708 | 334 |
| 85.2 | 8 | 987 | 234 | 919 | 257 | 849 | 285 | 774 | 318 | 728 | 340 |
| | 9 | 1013 | 238 | 944 | 262 | 872 | 290 | 796 | 324 | 748 | 347 |
| | 10 | 1041 | 243 | 969 | 267 | 895 | 296 | 817 | 330 | 768 | 353 |
| | 5 | 964 | 241 | 897 | 264 | 826 | 293 | 751 | 328 | 704 | 352 |
| | 6 | 991 | 245 | 922 | 270 | 849 | 299 | 772 | 335 | 724 | 359 |
| 00.0 | 7 | 1018 | 250 | 947 | 275 | 872 | 305 | 793 | 341 | 744 | 366 |
| 90.2 | 8 | 1045 | 255 | 972 | 280 | 895 | 311 | 814 | 347 | 763 | 373 |
| | 9 | 1073 | 260 | 997 | 286 | 918 | 317 | 836 | 354 | 784 | 380 |
| | 10 | 1101 | 265 | 1023 | 292 | 942 | 324 | 857 | 361 | 804 | 387 |
| | 5 | 1008 | 260 | 938 | 286 | 863 | 319 | 784 | 357 | 734 | 384 |
| | 6 | 1036 | 265 | 964 | 292 | 887 | 325 | 806 | 365 | 755 | 392 |
| OF 2 | 7 | 1067 | 271 | 993 | 299 | 914 | 333 | 830 | 373 | 778 | 400 |
| 95.2 | 8 | 1098 | 277 | 1022 | 306 | 941 | 341 | 855 | 382 | 801 | 409 |
| | 9 | 1130 | 283 | 1051 | 313 | 968 | 349 | 880 | 390 | 825 | 419 |
| | 10 | 1162 | 290 | 1081 | 321 | 996 | 357 | 905 | 399 | 849 | 428 |
| | 5 | 1055 | 268 | 980 | 296 | 899 | 330 | 814 | 370 | 760 | 398 |
| | 6 | 1084 | 274 | 1006 | 302 | 924 | 337 | 836 | 378 | 781 | 406 |
| 100.2 | 7 | 1116 | 280 | 1036 | 310 | 951 | 345 | 861 | 387 | 805 | 416 |
| 100.2 | 8 | 1148 | 287 | 1066 | 317 | 979 | 353 | 886 | 396 | 828 | 425 |
| | 9 | 1180 | 293 | 1096 | 325 | 1006 | 362 | 912 | 405 | 852 | 435 |
| | 10 | 1213 | 301 | 1126 | 333 | 1034 | 371 | 937 | 415 | 876 | 445 |
| | 5 | 1103 | 286 | 1027 | 314 | 947 | 349 | 862 | 389 | 808 | 417 |
| | 6 | 1136 | 292 | 1057 | 321 | 974 | 356 | 886 | 397 | 832 | 426 |
| 105.2 | 7 | 1168 | 298 | 1087 | 327 | 1001 | 363 | 911 | 405 | 855 | 434 |
| 105.2 | 8 | 1200 | 304 | 1116 | 334 | 1028 | 370 | 936 | 413 | 879 | 443 |
| | 9 | 1231 | 310 | 1146 | 341 | 1056 | 378 | 961 | 422 | 902 | 451 |
| | 10 | 1263 | 317 | 1175 | 348 | 1083 | 386 | 986 | 430 | 925 | 460 |

All data refers to the base versions

Pf: cooling power [kW]
Pe: electric power absorbed by compressors [kW]
Pr: condenser heat power [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



| | | | | | EXTERNA | L AIR TEMP | ERATURE [° | C] | | | |
|-------|------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|
| Model | To | 2 | 5 | 3 | 0 | 3 | 5 | 4 | 0 | 4 | 3 |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 1163 | 313 | 1082 | 345 | 995 | 384 | 902 | 431 | 844 | 462 |
| | 6 | 1194 | 320 | 1110 | 352 | 1021 | 392 | 926 | 439 | 866 | 471 |
| 110.2 | 7 | 1229 | 327 | 1143 | 361 | 1051 | 401 | 954 | 449 | 893 | 482 |
| 110.2 | 8 | 1264 | 335 | 1176 | 369 | 1082 | 411 | 982 | 460 | 919 | 493 |
| | 9 | 1300 | 342 | 1209 | 378 | 1112 | 421 | 1010 | 471 | 946 | 505 |
| | 10 | 1337 | 351 | 1243 | 387 | 1144 | 431 | 1038 | 482 | 972 | 516 |
| | 5 | 1257 | 311 | 1172 | 342 | 1081 | 380 | 986 | 425 | 925 | 457 |
| | 6 | 1291 | 316 | 1204 | 348 | 1111 | 387 | 1013 | 433 | 951 | 465 |
| 44E 9 | 7 | 1331 | 323 | 1241 | 355 | 1146 | 395 | 1045 | 442 | 981 | 475 |
| 115.2 | 8 | 1371 | 330 | 1279 | 363 | 1181 | 404 | 1077 | 452 | 1012 | 485 |
| | 9 | 1412 | 337 | 1317 | 371 | 1216 | 413 | 1110 | 462 | 1043 | 495 |
| | 10 | 1453 | 344 | 1355 | 379 | 1252 | 422 | 1143 | 472 | 1074 | 506 |
| | 5 | 1347 | 338 | 1261 | 366 | 1170 | 397 | 1077 | 433 | 1019 | 456 |
| | 6 | 1385 | 344 | 1296 | 372 | 1203 | 404 | 1107 | 440 | 1047 | 464 |
| 400.0 | 7 | 1423 | 350 | 1332 | 379 | 1236 | 411 | 1137 | 447 | 1075 | 471 |
| 120.2 | 8 | 1462 | 357 | 1368 | 385 | 1269 | 418 | 1167 | 455 | 1104 | 479 |
| | 9 | 1501 | 363 | 1404 | 392 | 1303 | 425 | 1198 | 462 | 1134 | 486 |
| | 10 | 1540 | 370 | 1441 | 399 | 1337 | 433 | 1229 | 470 | 1163 | 494 |
| | 5 | 1381 | 371 | 1291 | 402 | 1196 | 437 | 1097 | 476 | 1037 | 502 |
| | 6 | 1419 | 378 | 1326 | 409 | 1228 | 444 | 1127 | 484 | 1065 | 510 |
| | 7 | 1457 | 385 | 1361 | 416 | 1261 | 452 | 1157 | 492 | 1093 | 518 |
| 130.2 | 8 | 1496 | 392 | 1398 | 424 | 1295 | 460 | 1188 | 500 | 1122 | 527 |
| | 9 | 1536 | 399 | 1435 | 432 | 1329 | 468 | 1219 | 509 | 1151 | 535 |
| | 10 | 1576 | 407 | 1472 | 440 | 1364 | 477 | 1251 | 518 | 1181 | 545 |
| | 5 | 1441 | 399 | 1344 | 432 | 1242 | 470 | 1137 | 511 | 1073 | 539 |
| | 6 | 1480 | 406 | 1380 | 440 | 1276 | 478 | 1168 | 520 | 1101 | 548 |
| | 7 | 1519 | 414 | 1416 | 448 | 1309 | 486 | 1198 | 529 | 1130 | 557 |
| 140.2 | 8 | 1559 | 421 | 1454 | 456 | 1343 | 495 | 1229 | 538 | 1159 | 566 |
| | 9 | 1600 | 430 | 1492 | 465 | 1379 | 504 | 1262 | 548 | 1189 | 576 |
| | 10 | 1643 | 438 | 1531 | 474 | 1415 | 513 | 1295 | 558 | 1221 | 587 |
| | 5 | 1556 | 410 | 1452 | 450 | 1342 | 500 | 1224 | 559 | 1150 | 600 |
| | 6 | 1601 | 418 | 1495 | 459 | 1381 | 510 | 1260 | 571 | 1184 | 612 |
| | 7 | 1650 | 426 | 1540 | 469 | 1424 | 521 | 1299 | 583 | 1221 | 626 |
| 150.4 | 8 | 1700 | 436 | 1587 | 479 | 1467 | 533 | 1339 | 596 | 1259 | 639 |
| | 9 | 1750 | 445 | 1634 | 490 | 1510 | 545 | 1379 | 609 | 1297 | 653 |
| | 10 | 1801 | 455 | 1681 | 501 | 1554 | 557 | 1420 | 623 | 1336 | 668 |
| | 5 | 1615 | 418 | 1506 | 459 | 1389 | 510 | 1265 | 571 | 1187 | 614 |
| | 6 | 1662 | 426 | 1550 | 469 | 1430 | 521 | 1303 | 583 | 1222 | 626 |
| | 7 | 1712 | 435 | 1597 | 479 | 1473 | 533 | 1343 | 596 | 1260 | 640 |
| 160.4 | 8 | 1712 | 435 445 | 1644 | 479 | 1518 | 545 | 1383 | 610 | 1299 | 654 |
| | 9 | 1815 | 445 454 | 1692 | 501 | 1562 | 545 557 | 1424 | 623 | 1338 | 669 |
| | 10 | 1867 | 465 | 1741 | 513 | 1607 | 570 | 1466 | 638 | 1377 | 684 |
| | 5 | 1875 | 504 | 1741 | 555 | 1583 | 618 | 1400 | 693 | 1326 | 744 |
| | 6 | 1922 | 504 514 | 1733 | 567 | 1623 | | 1425 | 707 | 1360 | 744 759 |
| | 7 | 1972 | 514 525 | 1822 | 580 | 1665 | 631 645 | 1499 | 707 722 | 1395 | 759 775 |
| 180.4 | 8 | | | 1868 | | 1707 | 659 | 1537 | | 1430 | 775 791 |
| | | 2021 | 537 | + | 593 | | § | | 738 | | |
| | 9 | 2072 2124 | 549 562 | 1915 1964 | 607 621 | 1750 1794 | 675 691 | 1576 1616 | 754 772 | 1467 1505 | 809 827 |

All data refers to the base versions Pf: cooling power [kW] Pe: electric power absorbed by compressors [kW] Pr: condenser heat power [kW] T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5° C



Kappa V Evo /SLN - heating capacities

| Ta [°C] -8 -5 0 5 7 10 -8 -5 0 5 8 | RH % 95 90 80 80 70 70 95 90 | 30, Pt 158 170 195 223 233 253 177 194 | Pe 47 48 50 53 53 55 | Pt 156 169 193 219 229 | /40 Pe 50 52 54 57 | 40, Pt 154 167 192 | Pe 56 57 60 | Pt 153 167 | Pe 63 65 |
|---|---|---|---|---|--|--|---|--|--|
| -8 -5 0 5 7 10 -8 -5 0 5 | 95 90 80 80 70 70 95 | 158 170 195 223 233 253 177 | 47 48 50 53 53 55 | 156 169 193 219 229 | 50 52 54 | 154 167 | 56 57 | 153 167 | 63 |
| -5 0 5 7 10 -8 -5 0 | 90 80 80 70 70 95 | 170 195 223 233 253 177 | 48 50 53 53 55 | 169 193 219 229 | 52 54 | 167 | 57 | 167 | |
| 0 5 7 10 -8 -5 0 5 | 80 80 70 70 95 90 | 195 223 233 253 177 | 50 53 53 55 | 193 219 229 | 54 | | | | 65 |
| 5 7 10 -8 -5 0 | 80 70 70 95 90 | 223 233 253 177 | 53 53 55 | 219 229 | | 192 | 60 | | |
| 7 10 -8 -5 0 5 | 70 70 95 90 | 233 253 177 | 53 55 | 229 | 57 | | 00 | 191 | 68 |
| 10 -8 -5 0 5 | 70 95 90 | 253 177 | 55 | | ; J/ | 219 | 63 | 221 | 72 |
| 10 -8 -5 0 5 | 95 90 | 253 177 | 55 | | 58 | 226 | 64 | 224 | 72 |
| -5 0 5 | 90 | | | 249 | 60 | 244 | 66 | 242 | 74 |
| -5 0 5 | 90 | | 53 | 175 | 57 | 172 | 63 | 171 | 71 |
| 0 5 | | | 54 | 191 | 59 | 188 | 65 | 187 | 74 |
| 5 | | 221 | 57 | 218 | 61 | 216 | 68 | 214 | 77 |
| | 80 | 252 | 59 | 249 | 64 | 246 | 71 | 244 | 80 |
| U | 70 | 260 | 59 | 257 | 65 | 253 | 72 | 251 | 81 |
| 10 | 70 | 275 | 61 | 272 | 66 | 268 | 73 | 265 | 83 |
| | | | | | - | | | | 77 |
| | | | | | | | | | 77 79 |
| | | | | | | | | | 79 83 |
| | | | | | | | | | 87 |
| | | | | | | | | | 87 88 |
| | | | | | | | | | |
| | | | | | | | - | | 90 |
| | | | | | | | | | 84 |
| | | | | | | | | | 87 |
| _ | | | | | | | | | 90 |
| | | | | | | | | | 94 |
| | | | | | | | | | 95 |
| | | | | | | | + | | 98 |
| | | | | | | | | | 91 |
| | | | | | | | | | 94 |
| | | | | | | | | | 99 |
| | 80 | | | | | | | | 105 |
| | 70 | 335 | | | 84 | 329 | | | 105 |
| 10 | 70 | 364 | 80 | 359 | 87 | 355 | 96 | 353 | 109 |
| -8 | 95 | 240 | 78 | 237 | 84 | 234 | 93 | 233 | 105 |
| -5 | 90 | 261 | 80 | 258 | 87 | 256 | 96 | 255 | 108 |
| 0 | 80 | 298 | 84 | 295 | 91 | 292 | 101 | 289 | 113 |
| 5 | 80 | 338 | 88 | 334 | 95 | 331 | 106 | 329 | 119 |
| 7 | 70 | 344 | 88 | 343 | 96 | 341 | 107 | 339 | 121 |
| 10 | 70 | 366 | 90 | 364 | 99 | 358 | 109 | 355 | 123 |
| -8 | 95 | 259 | 79 | 254 | 86 | 256 | 95 | 253 | 107 |
| -5 | 90 | 285 | 82 | 280 | 89 | 277 | 98 | 275 | 110 |
| 0 | 80 | 327 | 86 | 322 | 93 | 316 | 103 | 314 | 116 |
| | 80 | | 90 | | 98 | | 109 | | 123 |
| | | | | | | | | | 124 |
| | | | | | | | | | 128 |
| | | | | | | | | | 111 |
| | | | | | | | | | 115 |
| - | | | | | | | | | 120 |
| | | | | | | | | | 127 |
| | | | | | | | | | 127 |
| | | | | | | | | | |
| | | | | | - | | | | 132 |
| | | | | | | | | | 137 |
| | | | | | | | | | 142 |
| | | | | | | | | | 149 |
| | | | | | | | | | 157 |
| | | | | | | | | | 159 163 |
| | -5 0 5 7 10 -8 -5 | -5 90 0 80 5 80 7 70 10 70 -8 95 -5 90 0 80 5 80 7 70 10 70 -8 95 -5 90 0 80 5 80 8 70 10 70 -8 95 -5 90 0 80 5 80 7 70 10 70 -8 95 -5 90 0 80 5 80 7 70 10 70 -8 95 -5 90 0 80 5 80 7 70 10 70 -8 95 -5 90 0 80 5 80 7 770 10 70 -8 95 -5 90 0 80 5 80 7 770 10 70 -8 95 -5 90 0 80 5 80 7 770 10 70 -8 95 -5 90 0 80 5 80 7 770 10 70 -8 95 -5 90 0 80 5 80 7 770 10 70 -8 95 -5 90 0 80 5 80 7 770 | -8 95 187 -5 90 205 0 80 235 5 80 268 7 70 278 10 70 300 -8 95 204 -5 90 224 0 80 255 5 80 291 7 70 303 10 70 328 -8 95 232 -5 90 249 0 80 284 5 80 324 8 70 335 10 70 364 -8 95 240 -5 90 261 0 80 298 5 80 338 7 70 344 10 70 366 -8 95 259 -5 90 | -8 95 187 57 -5 90 205 58 0 80 235 61 5 80 268 64 7 70 278 64 10 70 300 66 -8 95 204 62 -5 90 224 64 0 80 255 66 5 80 291 69 7 70 303 70 10 70 328 72 -8 95 232 68 -5 90 249 69 0 80 284 73 5 80 324 76 8 70 335 77 10 70 364 80 -8 95 240 78 -5 90 261 80 0 80 | -8 95 187 57 185 -5 90 205 58 202 0 80 235 61 232 5 80 268 64 264 7 70 278 64 274 10 70 300 66 296 -8 95 204 62 201 -5 90 224 64 220 0 80 255 66 252 5 80 291 69 287 7 70 303 70 298 10 70 328 72 322 -8 95 232 68 230 -5 90 249 69 248 0 80 284 73 282 5 80 324 76 319 8 70 335 77 331 </td <td>-8 95 187 57 185 62 -5 90 205 58 202 63 0 80 235 61 232 66 5 80 268 64 264 69 7 70 278 64 274 70 10 70 300 66 272 22 -8 95 204 62 201 67 -5 90 224 64 220 69 0 80 255 66 252 72 5 80 291 69 287 75 7 70 303 70 298 76 10 70 328 72 322 78 -8 95 232 68 230 73 -5 90 249 69 248 75 0 80 284</td> <td>-8 95 187 57 185 62 183 -5 90 205 58 202 63 200 0 80 235 61 232 66 229 5 80 268 64 264 69 261 7 70 278 64 274 70 271 10 70 300 66 296 72 290 -8 95 204 62 201 67 199 -5 90 224 64 220 69 218 0 80 255 66 252 72 249 5 80 291 69 287 75 284 7 70 303 70 298 76 295 10 70 328 72 322 78 316 -8 95 232 68 230<</td> <td>-8 95 187 57 185 62 183 68 -5 90 205 58 202 63 200 70 0 80 235 61 232 66 229 74 5 80 268 64 264 69 261 77 7 70 278 64 274 70 271 78 10 70 300 66 296 72 290 80 -8 95 204 62 201 67 199 74 -5 90 224 64 220 69 218 77 0 80 255 66 252 72 249 80 5 80 291 69 287 75 284 84 7 70 303 70 298 76 295 85 10 70</td> <td>-8 95 187 57 185 62 183 68 182 -5 90 205 58 202 63 200 70 199 0 80 225 61 232 66 229 74 227 5 80 268 64 264 69 261 77 259 7 70 278 64 274 70 271 78 268 10 70 300 66 296 72 290 80 287 -8 95 204 62 201 67 199 74 199 -5 90 224 64 220 69 218 77 217 0 80 255 66 252 72 249 80 247 5 80 291 69 287 75 284 84 281 <t< td=""></t<></td> | -8 95 187 57 185 62 -5 90 205 58 202 63 0 80 235 61 232 66 5 80 268 64 264 69 7 70 278 64 274 70 10 70 300 66 272 22 -8 95 204 62 201 67 -5 90 224 64 220 69 0 80 255 66 252 72 5 80 291 69 287 75 7 70 303 70 298 76 10 70 328 72 322 78 -8 95 232 68 230 73 -5 90 249 69 248 75 0 80 284 | -8 95 187 57 185 62 183 -5 90 205 58 202 63 200 0 80 235 61 232 66 229 5 80 268 64 264 69 261 7 70 278 64 274 70 271 10 70 300 66 296 72 290 -8 95 204 62 201 67 199 -5 90 224 64 220 69 218 0 80 255 66 252 72 249 5 80 291 69 287 75 284 7 70 303 70 298 76 295 10 70 328 72 322 78 316 -8 95 232 68 230< | -8 95 187 57 185 62 183 68 -5 90 205 58 202 63 200 70 0 80 235 61 232 66 229 74 5 80 268 64 264 69 261 77 7 70 278 64 274 70 271 78 10 70 300 66 296 72 290 80 -8 95 204 62 201 67 199 74 -5 90 224 64 220 69 218 77 0 80 255 66 252 72 249 80 5 80 291 69 287 75 284 84 7 70 303 70 298 76 295 85 10 70 | -8 95 187 57 185 62 183 68 182 -5 90 205 58 202 63 200 70 199 0 80 225 61 232 66 229 74 227 5 80 268 64 264 69 261 77 259 7 70 278 64 274 70 271 78 268 10 70 300 66 296 72 290 80 287 -8 95 204 62 201 67 199 74 199 -5 90 224 64 220 69 218 77 217 0 80 255 66 252 72 249 80 247 5 80 291 69 287 75 284 84 281 <t< td=""></t<> |

All data refers to the base versions

Arridate feets to the base versions
Pt: heat power [kW]
Pe: power absorbed by compressors [kW]
Ta: Dry bulb temperature of the evaporator inlet air [°C]
RH: relative humidity of the input air at the evaporator [%]



Kappa V Evo /SLN - heating capacities

| | | | | NPUT WATE | R TEMPERA | TURE TO COI | NDENSER [°C |] | | |
|-------|------|----|-----|-----------|-----------|-------------|-------------|-----|-----|-----|
| Model | Ta | RH | 30, | /35 | 35, | /40 | 40, | /45 | 45 | /50 |
| | [°C] | % | Pt | Pe | Pt | Pe | Pt | Pe | Pt | Pe |
| | -8 | 95 | 326 | 103 | 321 | 111 | 317 | 123 | 317 | 139 |
| | -5 | 90 | 356 | 106 | 351 | 115 | 348 | 127 | 346 | 143 |
| 47.0 | 0 | 80 | 412 | 112 | 406 | 121 | 402 | 134 | 399 | 151 |
| 47.2 | 5 | 80 | 468 | 117 | 461 | 127 | 455 | 141 | 452 | 158 |
| | 7 | 70 | 487 | 118 | 480 | 129 | 475 | 143 | 470 | 160 |
| | 10 | 70 | 529 | 122 | 520 | 132 | 512 | 147 | 507 | 165 |
| | -8 | 95 | 338 | 106 | 333 | 114 | 330 | 127 | 330 | 143 |
| | -5 | 90 | 369 | 109 | 364 | 118 | 361 | 131 | 360 | 148 |
| | 0 | 80 | 428 | 114 | 423 | 124 | 419 | 138 | 417 | 155 |
| 51.2 | 5 | 80 | 485 | 119 | 476 | 130 | 471 | 144 | 468 | 162 |
| | 7 | 70 | 503 | 121 | 496 | 131 | 491 | 146 | 488 | 164 |
| | 10 | 70 | 546 | 124 | 538 | 135 | 531 | 150 | 526 | 169 |
| | | 95 | 363 | 123 | | | 354 | | 353 | 167 |
| | -8 | | | | 357 | 133 | | 148 | | |
| | -5 | 90 | 396 | 127 | 391 | 137 | 387 | 152 | 385 | 172 |
| 54.2 | 0 | 80 | 455 | 133 | 448 | 144 | 443 | 160 | 440 | 180 |
| | 5 | 80 | 519 | 139 | 511 | 151 | 505 | 167 | 501 | 188 |
| | 7 | 70 | 541 | 140 | 533 | 153 | 526 | 169 | 521 | 190 |
| | 10 | 70 | 585 | 144 | 576 | 157 | 568 | 174 | 560 | 195 |
| | -8 | 95 | 409 | 124 | 403 | 134 | 399 | 149 | 398 | 168 |
| | -5 | 90 | 446 | 128 | 440 | 138 | 436 | 153 | 434 | 173 |
| 58.2 | 0 | 80 | 511 | 134 | 504 | 145 | 499 | 161 | 497 | 181 |
| 50.2 | 5 | 80 | 587 | 140 | 574 | 152 | 568 | 169 | 564 | 190 |
| | 7 | 70 | 607 | 142 | 598 | 154 | 592 | 171 | 587 | 192 |
| | 10 | 70 | 658 | 145 | 648 | 158 | 640 | 175 | 634 | 197 |
| | -8 | 95 | 420 | 122 | 415 | 132 | 411 | 147 | 412 | 166 |
| | -5 | 90 | 455 | 125 | 450 | 136 | 447 | 151 | 447 | 171 |
| 24.0 | 0 | 80 | 523 | 131 | 516 | 142 | 513 | 158 | 512 | 179 |
| 61.2 | 5 | 80 | 600 | 137 | 589 | 149 | 583 | 166 | 579 | 187 |
| | 7 | 70 | 622 | 139 | 613 | 151 | 607 | 168 | 604 | 190 |
| | 10 | 70 | 674 | 143 | 665 | 156 | 657 | 173 | 651 | 195 |
| | -8 | 95 | 444 | 128 | 441 | 139 | 435 | 154 | 437 | 175 |
| | -5 | 90 | 475 | 131 | 472 | 143 | 471 | 159 | 471 | 179 |
| | 0 | 80 | 545 | 137 | 541 | 149 | 539 | 166 | 540 | 188 |
| 67.2 | 5 | 80 | | 144 | | 156 | | | | 196 |
| | | | 626 | | 615 | | 609 | 173 | 606 | |
| | 7 | 70 | 648 | 145 | 639 | 158 | 634 | 176 | 631 | 199 |
| | 10 | 70 | 702 | 149 | 693 | 163 | 686 | 181 | 682 | 204 |
| | -8 | 95 | 484 | 138 | 476 | 150 | 472 | 166 | 470 | 188 |
| | -5 | 90 | 523 | 142 | 515 | 154 | 511 | 171 | 509 | 193 |
| 70.2 | 0 | 80 | 595 | 148 | 590 | 161 | 585 | 179 | 583 | 202 |
| 70.2 | 5 | 80 | 680 | 155 | 668 | 168 | 662 | 187 | 659 | 211 |
| | 7 | 70 | 680 | 155 | 675 | 169 | 673 | 188 | 673 | 213 |
| | 10 | 70 | 724 | 158 | 720 | 173 | 717 | 192 | 713 | 217 |
| | -8 | 95 | 484 | 141 | 476 | 153 | 472 | 170 | 470 | 192 |
| | -5 | 90 | 527 | 145 | 521 | 158 | 515 | 175 | 512 | 198 |
| 72.2 | 0 | 80 | 601 | 152 | 594 | 165 | 589 | 183 | 585 | 207 |
| 73.2 | 5 | 80 | 687 | 158 | 673 | 172 | 667 | 191 | 663 | 216 |
| | 7 | 70 | 694 | 159 | 690 | 174 | 686 | 193 | 683 | 218 |
| | 10 | 70 | 737 | 162 | 733 | 177 | 728 | 197 | 723 | 223 |
| | -8 | 95 | 508 | 149 | 502 | 161 | 495 | 179 | 494 | 202 |
| | -5 | 90 | 549 | 152 | 545 | 166 | 542 | 184 | 540 | 208 |
| | 0 | 80 | 625 | 159 | 620 | 173 | 616 | 192 | 612 | 217 |
| 80.2 | 5 | 80 | 719 | 166 | 705 | 181 | 698 | 201 | 692 | 227 |
| | 7 | | | | | | | | · | |
| | | 70 | 725 | 167 | 713 | 181 | 714 | 202 | 714 | 229 |
| | 10 | 70 | 760 | 169 | 758 | 185 | 759 | 207 | 758 | 234 |

All data refers to the base versions

Pt: heat power [kW]
Pe: power absorbed by compressors [kW]
Ta: Dry bulb temperature of the evaporator inlet air [°C]
RH: relative humidity of the input air at the evaporator [%]



Kappa V Evo /DC - heating capacity in recovery

| | | | | | OUTP | UT WAT | ER TEN | IPERAT | URE FRO | OM CON | DENSE | R [°C] | | | | |
|-------|------|--------------|------------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Model | To | | 25/30 | | | 30/35 | | | 35/40 | | | 40/45 | | | 45/50 | |
| | [°C] | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr |
| | 6 | 286 | 52 | 338 | 270 | 56 | 326 | 253 | 61 | 314 | 236 | 67 | 303 | 217 | 75 | 292 |
| | 7 | 296 | 53 | 349 | 280 | 56 | 336 | 263 | 61 | 324 | 245 | 68 | 312 | 225 | 75 | 301 |
| 23.1 | 8 | 307 | 53 | 360 | 290 | 57 | 347 | 272 | 62 | 334 | 254 | 68 | 322 | 234 | 76 | 310 |
| | 9 | 318 | 54 | 371 | 300 | 57 | 358 | 282 | 63 | 345 | 263 | 69 | 332 | 243 | 77 | 320 |
| | 10 | 329 | 54 | 383 | 311 | 58 | 369 | 292 | 63 | 355 | 273 | 70 | 342 | 252 | 77 | 329 |
| | 6 | 319 | 58 | 377 | 301 | 62 | 364 | 283 | 68 | 351 | 263 | 75 | 338 | 242 | 84 | 326 |
| | 7 | 330 | 59 | 389 | 312 | 63 | 375 | 293 | 69 | 361 | 273 | 76 | 348 | 251 | 85 | 336 |
| 25.1 | 8 | 342 | 59 | 401 | 323 | 63 | 387 | 303 | 69 | 373 | 283 | 76 | 359 | 261 | 86 | 346 |
| | 9 | 354 | 60 | 414 | 335 | 64 | 399 | 314 | 70 | 384 | 293 | 77 | 370 | 271 | 86 | 357 |
| | 10 | 366 | 60 | 426 | 346 | 64 | 411 | 326 | 70 | 396 | 304 | 78 | 381 | 281 | 87 | 367 |
| | 6 | 346 | 65 | 411 | 327 | 69 | 396 | 307 | 75 | 382 | 286 | 83 | 369 | 263 | 93 | 356 |
| | 7 | 359 | 65 | 424 | 339 | 70 | 409 | 318 | 76 | 394 | 296 | 84 | 380 | 273 | 94 | 367 |
| 28.1 | 8 | 371 | 66 | 437 | 351 | 70 | 422 | 330 | 77 | 407 | 307 | 85 | 392 | 284 | 95 | 379 |
| | 9 | 384 | 66 | 450 | 364 | 71 | 435 | 342 | 77 | 419 | 319 | 85 | 404 | 294 | 96 | 390 |
| | 10 | 398 | 67 | 464 | 377 | 71 | 448 | 354 | 78 | 432 | 330 | 86 | 416 | 305 | 96 | 402 |
| | 6 | 375 | 70 | 445 | 354 | 75 | 429 | 332 | 82 | 414 | 309 | 90 | 399 | 285 | 101 | 386 |
| | 7 | 388 | 71 | 458 | 367 | 75 | 442 | 344 | 82 | 427 | 321 | 91 | 412 | 296 | 102 | 397 |
| 31.1 | 8 | 401 | 71 | 473 | 380 | 76 | 456 | 357 | 83 | 440 | 332 | 92 | 424 | 307 | 103 | 409 |
| J | 9 | 416 | 72 | 487 | 393 | 77 | 470 | 370 | 84 | 453 | 345 | 92 | 437 | 318 | 103 | 422 |
| | 10 | 430 | 72 | 502 | 407 | 77 | 484 | 382 | 84 | 467 | 357 | 93 | 450 | 330 | 104 | 434 |
| | 6 | 396 | 76 | 471 | 374 | 81 | 455 | 350 | 88 | 438 | 325 | 98 | 423 | 299 | 109 | 409 |
| | 7 | 410 | 76 | 487 | 387 | 82 | 469 | 364 | 89 | 453 | 338 | 98 | 436 | 311 | 110 | 421 |
| 33.2 | 8 | 425 | 77 | 502 | 402 | 82 | 484 | 377 | 90 | 467 | 351 | 99 | 450 | 324 | 111 | 435 |
| 55.2 | 9 | 441 | 78 | 519 | 417 | 83 | 500 | 391 | 90 | 481 | 364 | 100 | 464 | 336 | 112 | 448 |
| | 10 | 457 | 78 | 535 | 432 | 84 | 516 | 406 | 91 | 497 | 378 | 101 | 479 | 349 | 113 | 462 |
| | 6 | 435 | 82 | 516 | 410 | 87 | 497 | 384 | 95 | 479 | 357 | 105 | 462 | 328 | 117 | 446 |
| | 7 | 451 | 82 | 533 | 426 | 88 | 514 | 399 | 96 | 495 | 371 | 106 | 477 | 342 | 118 | 460 |
| 35.2 | 8 | 468 | 83 | 551 | 442 | 89 | 531 | 415 | 97 | 511 | 386 | 107 | 493 | 356 | 119 | 475 |
| 33.2 | 9 | 486 | 84 | 569 | 459 | 89 | 548 | 431 | 97 | 528 | 401 | 108 | 509 | 370 | 120 | 490 |
| | 10 | 504 | 84 | 588 | 476 | 90 | 566 | 447 | 98 | 545 | 417 | 109 | 525 | 384 | 121 | 506 |
| | 6 | 463 | 88 | 551 | 437 | 93 | 530 | 409 | 102 | 511 | 380 | 112 | 493 | 350 | 126 | 475 |
| | 7 | 481 | 88 | 569 | 454 | 94 | 548 | 425 | 103 | 528 | 395 | 113 | 509 | 364 | 127 | 491 |
| 37.2 | 8 | 499 | 89 | 588 | 471 | 95 | 566 | 442 | 103 | 545 | 411 | 114 | 525 | 379 | 128 | 507 |
| 37.2 | 9 | 518 | 90 | 607 | 489 | 96 | 585 | 459 | 103 | 563 | 427 | 115 | 543 | 394 | 129 | 523 |
| | 10 | 537 | 90 | 627 | 507 | 97 | 604 | 476 | 105 | 582 | 444 | 116 | 560 | 410 | 130 | 540 |
| | 6 | 510 | 92 | 602 | 481 | 98 | 580 | 451 | 107 | 558 | 419 | 118 | 537 | 386 | 132 | 518 |
| | 7 | 529 | 93 | 622 | 500 | 99 | 599 | 469 | 107 | 577 | 436 | 119 | 555 | 401 | 133 | 535 |
| 40.2 | 8 | 549 | 93 | 643 | 519 | 100 | 619 | 487 | 109 | 596 | 453 | 120 | 574 | 418 | 134 | 552 |
| 40.2 | 9 | 570 | 94 | 664 | 539 | 101 | 639 | 506 | 110 | 615 | 471 | 121 | 592 | 435 | 136 | 570 |
| | 10 | 591 | 94 95 | 686 | 559 | 101 | 660 | 525 | 111 | 636 | 471 | 121 | 612 | 452 | 137 | 589 |
| | 6 | 538 | 98 | 636 | 508 | 102 | 613 | 477 | 114 | 591 | 469 | 126 | 569 | 408 | 140 | 548 |
| | 7 | 558 | 99 | 657 | 528 | | 633 | | | | | | 588 | 408 | | 546 566 |
| 43.2 | 8 | 579 | 100 | 679 | 548 | 106 106 | 654 | 495 514 | 115 116 | 610 630 | 461 479 | 127 128 | 607 | 425 442 | 141 142 | 584 |
| 45.2 | 9 | - | | | | | | | | | 479 | | | + | | |
| | 10 | 601 623 | 100 101 | 701 724 | 568 589 | 107 108 | 676 698 | 534 554 | 117 118 | 651 672 | 498 517 | 129 130 | 627 647 | 460 478 | 144 145 | 603 623 |
| | 6 | 588 | | | | | | | 128 | | | | 625 | 478 | | |
| | 7 | - | 110 | 698 | 555 | 117 | 672 | 520 | | 648 | 484 | 141 | | + | 157 | 602 |
| 47.2 | | 610 | 111 | 721 | 577 Eno | 118 | 695 710 | 541 | 129 | 670 | 503 | 142 | 645 eee | 463 | 158 | 622 |
| 47.2 | 8 | 633 | 112 | 745 | 598 | 119 | 718 | 562 | 130 | 692 | 523 | 143 | 666 | 482 | 160 | 642 |
| | 9 | 657 | 113 | 769 | 621 | 120 | 742 | 583 | 131 | 714 | 544 | 145 | 688 | 502 | 161 | 663 |
| | 10 | 681 | 113 | 795 | 644 | 121 | 766 | 606 | 132 | 738 | 565 | 146 | 710 | 522 | 163 | 684 |

All data refers to the base versions
Pf: cooling power [kW]
Pe: electric power absorbed by compressors [kW]
Pr: recovery condenser heat power [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



Kappa V Evo /DC - heating capacity in recovery

| | | | | | OUTP | UT WA | TER TEN | IPERAT | URE FRO | OM CON | DENSE | R [°C] | | | | |
|-------|------|------|-------|------|------|-------|---------|--------|---------|--------|-------|--------|------|-----|-------|------|
| Model | To | | 30/30 | | | 30/35 | | | 35/40 | | | 40/45 | | | 45/50 | |
| | [°C] | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr |
| | 6 | 632 | 108 | 740 | 597 | 116 | 713 | 560 | 126 | 685 | 520 | 139 | 659 | 478 | 155 | 634 |
| | 7 | 656 | 109 | 765 | 620 | 116 | 737 | 582 | 127 | 708 | 541 | 140 | 681 | 498 | 157 | 655 |
| 51.2 | 8 | 681 | 110 | 791 | 644 | 117 | 761 | 604 | 128 | 732 | 562 | 141 | 704 | 518 | 158 | 676 |
| | 9 | 707 | 111 | 817 | 668 | 118 | 787 | 627 | 129 | 756 | 584 | 143 | 727 | 539 | 159 | 699 |
| | 10 | 733 | 112 | 844 | 693 | 119 | 813 | 651 | 130 | 781 | 607 | 144 | 751 | 561 | 161 | 721 |
| | 6 | 658 | 124 | 782 | 621 | 133 | 754 | 582 | 145 | 727 | 541 | 160 | 701 | 497 | 179 | 677 |
| | 7 | 683 | 125 | 808 | 645 | 134 | 779 | 605 | 146 | 751 | 563 | 161 | 724 | 518 | 181 | 699 |
| 54.2 | 8 | 708 | 126 | 834 | 670 | 135 | 805 | 628 | 147 | 776 | 585 | 163 | 748 | 539 | 182 | 721 |
| | 9 | 735 | 127 | 862 | 695 | 136 | 831 | 653 | 148 | 801 | 608 | 164 | 772 | 561 | 184 | 745 |
| | 10 | 762 | 128 | 890 | 721 | 137 | 858 | 677 | 150 | 827 | 631 | 166 | 797 | 583 | 185 | 768 |
| | 6 | 743 | 138 | 881 | 703 | 147 | 850 | 659 | 160 | 820 | 613 | 177 | 791 | 565 | 199 | 764 |
| | 7 | 766 | 139 | 904 | 724 | 148 | 872 | 680 | 162 | 842 | 634 | 179 | 812 | 585 | 200 | 785 |
| 58.2 | 8 | 792 | 140 | 931 | 749 | 149 | 898 | 704 | 163 | 867 | 656 | 180 | 836 | 606 | 202 | 808 |
| | 9 | 819 | 141 | 960 | 775 | 151 | 925 | 728 | 164 | 892 | 679 | 182 | 861 | 628 | 203 | 831 |
| | 10 | 847 | 142 | 989 | 802 | 152 | 953 | 754 | 165 | 919 | 703 | 183 | 886 | 650 | 205 | 854 |
| | 6 | 779 | 135 | 914 | 735 | 144 | 879 | 687 | 157 | 844 | 638 | 173 | 811 | 586 | 194 | 779 |
| | 7 | 808 | 136 | 944 | 763 | 145 | 908 | 714 | 158 | 872 | 663 | 175 | 837 | 609 | 195 | 805 |
| 61.2 | 8 | 838 | 137 | 975 | 791 | 146 | 937 | 741 | 159 | 900 | 688 | 176 | 864 | 633 | 197 | 830 |
| | 9 | 869 | 138 | 1007 | 820 | 148 | 967 | 768 | 161 | 929 | 714 | 178 | 891 | 657 | 198 | 856 |
| | 10 | 900 | 139 | 1039 | 849 | 149 | 998 | 796 | 162 | 958 | 740 | 179 | 919 | 682 | 200 | 882 |
| | 6 | 824 | 141 | 964 | 777 | 150 | 927 | 727 | 164 | 890 | 674 | 181 | 855 | 619 | 202 | 821 |
| | 7 | 855 | 142 | 997 | 806 | 152 | 958 | 754 | 165 | 919 | 700 | 182 | 882 | 643 | 204 | 847 |
| 67.2 | 8 | 886 | 143 | 1029 | 835 | 153 | 988 | 782 | 166 | 949 | 726 | 184 | 910 | 668 | 206 | 874 |
| | 9 | 918 | 144 | 1062 | 866 | 154 | 1020 | 811 | 168 | 979 | 753 | 186 | 939 | 694 | 207 | 901 |
| | 10 | 950 | 145 | 1095 | 897 | 155 | 1052 | 840 | 169 | 1009 | 781 | 187 | 968 | 720 | 209 | 929 |
| | 6 | 884 | 156 | 1039 | 833 | 166 | 999 | 779 | 181 | 960 | 722 | 200 | 922 | 663 | 224 | 886 |
| | 7 | 916 | 157 | 1073 | 863 | 168 | 1031 | 808 | 182 | 990 | 750 | 202 | 951 | 689 | 225 | 914 |
| 70.2 | 8 | 949 | 158 | 1107 | 895 | 169 | 1064 | 838 | 184 | 1022 | 778 | 203 | 981 | 715 | 227 | 943 |
| | 9 | 983 | 159 | 1142 | 927 | 170 | 1097 | 868 | 185 | 1054 | 807 | 205 | 1012 | 743 | 229 | 972 |
| | 10 | 1018 | 160 | 1178 | 960 | 172 | 1132 | 900 | 187 | 1087 | 837 | 207 | 1043 | 771 | 231 | 1001 |
| | 6 | 931 | 156 | 1087 | 877 | 166 | 1044 | 821 | 181 | 1002 | 761 | 200 | 961 | 698 | 224 | 922 |
| | 7 | 965 | 157 | 1122 | 910 | 168 | 1077 | 851 | 183 | 1034 | 790 | 202 | 991 | 725 | 226 | 951 |
| 73.2 | 8 | 1000 | 158 | 1158 | 943 | 169 | 1112 | 882 | 184 | 1066 | 819 | 203 | 1023 | 753 | 227 | 981 |
| | 9 | 1036 | 159 | 1195 | 977 | 170 | 1147 | 915 | 186 | 1100 | 850 | 205 | 1055 | 782 | 229 | 1011 |
| | 10 | 1072 | 160 | 1233 | 1011 | 172 | 1183 | 948 | 187 | 1135 | 881 | 207 | 1088 | 811 | 231 | 1042 |
| | 6 | 983 | 177 | 1160 | 926 | 189 | 1116 | 866 | 206 | 1072 | 803 | 228 | 1031 | 737 | 255 | 991 |
| | 7 | 1019 | 179 | 1197 | 960 | 191 | 1151 | 898 | 208 | 1106 | 833 | 230 | 1063 | 765 | 257 | 1022 |
| 80.2 | 8 | 1055 | 180 | 1235 | 995 | 192 | 1187 | 931 | 209 | 1141 | 865 | 231 | 1096 | 795 | 259 | 1054 |
| | 9 | 1093 | 181 | 1274 | 1031 | 194 | 1225 | 965 | 211 | 1177 | 897 | 233 | 1130 | 825 | 261 | 1086 |
| | 10 | 1131 | 183 | 1314 | 1067 | 195 | 1263 | 1000 | 213 | 1213 | 930 | 235 | 1165 | 857 | 263 | 1120 |
| | 6 | 1005 | 174 | 1179 | 949 | 186 | 1135 | 891 | 201 | 1093 | 829 | 222 | 1051 | 762 | 248 | 1010 |
| | 7 | 1041 | 176 | 1217 | 983 | 188 | 1171 | 923 | 204 | 1127 | 858 | 225 | 1083 | 789 | 251 | 1040 |
| 82.2 | 8 | 1077 | 178 | 1255 | 1016 | 190 | 1206 | 954 | 206 | 1160 | 887 | 227 | 1114 | 816 | 254 | 1070 |
| | 9 | 1112 | 180 | 1292 | 1049 | 192 | 1242 | 985 | 209 | 1194 | 916 | 230 | 1146 | 843 | 257 | 1100 |
| | 10 | 1148 | 182 | 1329 | 1083 | 194 | 1277 | 1017 | 211 | 1228 | 946 | 233 | 1179 | 871 | 260 | 1131 |
| | 6 | 1073 | 182 | 1255 | 1012 | 194 | 1206 | 949 | 210 | 1160 | 882 | 232 | 1114 | 810 | 259 | 1069 |
| | 7 | 1110 | 184 | 1294 | 1047 | 196 | 1244 | 982 | 213 | 1195 | 912 | 235 | 1147 | 838 | 262 | 1100 |
| 85.2 | 8 | 1147 | 186 | 1333 | 1082 | 198 | 1280 | 1014 | 215 | 1230 | 942 | 237 | 1180 | 866 | 265 | 1131 |
| | 9 | 1184 | 187 | 1372 | 1117 | 201 | 1317 | 1047 | 218 | 1265 | 973 | 240 | 1213 | 895 | 268 | 1163 |
| | 10 | 1222 | 189 | 1411 | 1152 | 203 | 1355 | 1080 | 221 | 1301 | 1004 | 243 | 1248 | 924 | 271 | 1195 |

All data refers to the base versions

All data refers to the base versions

Pf. cooling power [kW]
Pe: electric power absorbed by compressors [kW]
Pr. recovery condenser heat power [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



Kappa V Evo /DC - heating capacity in recovery

| | | | | | OUTF | PUT WAT | ER TEN | IPERAT | URE FRO | OM CON | DENSE | R [°C] | | | | |
|--------|------|--------------|-------|------|------|---------|--------|--------|---------|--------|-------|--------|------|------|-------|------|
| Model | To | | 25/30 | | | 30/35 | | | 35/40 | | | 40/45 | | | 45/50 | |
| | [°C] | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr |
| | 6 | 1139 | 199 | 1338 | 1074 | 213 | 1286 | 1005 | 231 | 1236 | 933 | 255 | 1187 | 856 | 284 | 1140 |
| | 7 | 1177 | 201 | 1378 | 1109 | 215 | 1324 | 1038 | 234 | 1272 | 964 | 258 | 1221 | 884 | 288 | 1172 |
| 90.2 | 8 | 1215 | 203 | 1418 | 1145 | 218 | 1362 | 1072 | 236 | 1308 | 995 | 261 | 1255 | 913 | 291 | 1204 |
| | 9 | 1253 | 205 | 1459 | 1181 | 220 | 1401 | 1106 | 239 | 1345 | 1027 | 264 | 1290 | 943 | 294 | 1238 |
| | 10 | 1292 | 207 | 1500 | 1217 | 222 | 1440 | 1140 | 242 | 1382 | 1059 | 267 | 1326 | 973 | 298 | 1271 |
| | 6 | 1195 | 212 | 1408 | 1131 | 227 | 1357 | 1062 | 246 | 1309 | 988 | 272 | 1260 | 909 | 304 | 1214 |
| | 7 | 1238 | 215 | 1453 | 1171 | 229 | 1400 | 1101 | 249 | 1350 | 1024 | 276 | 1300 | 943 | 309 | 1252 |
| 95.2 | 8 | 1281 | 217 | 1498 | 1212 | 232 | 1445 | 1140 | 253 | 1393 | 1061 | 280 | 1340 | 978 | 313 | 1290 |
| | 9 | 1326 | 219 | 1545 | 1255 | 235 | 1490 | 1180 | 256 | 1436 | 1098 | 283 | 1382 | 1013 | 317 | 1330 |
| | 10 | 1372 | 222 | 1593 | 1298 | 238 | 1536 | 1221 | 259 | 1480 | 1137 | 287 | 1424 | 1050 | 321 | 1371 |
| | 6 | 1219 | 233 | 1452 | 1155 | 248 | 1402 | 1087 | 268 | 1354 | 1015 | 294 | 1309 | 937 | 328 | 1265 |
| | 7 | 1263 | 235 | 1498 | 1198 | 250 | 1448 | 1127 | 271 | 1398 | 1054 | 297 | 1351 | 971 | 333 | 1303 |
| 100.2 | 8 | 1311 | 237 | 1548 | 1242 | 252 | 1494 | 1169 | 273 | 1443 | 1094 | 300 | 1394 | 1008 | 336 | 1344 |
| | 9 | 1358 | 239 | 1597 | 1287 | 255 | 1542 | 1211 | 277 | 1488 | 1135 | 303 | 1438 | 1047 | 340 | 1387 |
| | 10 | 1407 | 241 | 1649 | 1332 | 258 | 1589 | 1255 | 279 | 1535 | 1174 | 308 | 1482 | 1087 | 343 | 1430 |
| | 6 | 1303 | 240 | 1543 | 1232 | 255 | 1487 | 1158 | 275 | 1433 | 1077 | 302 | 1379 | 992 | 336 | 1328 |
| | 7 | 1349 | 243 | 1592 | 1277 | 257 | 1534 | 1199 | 277 | 1477 | 1116 | 305 | 1420 | 1028 | 339 | 1367 |
| 105.2 | 8 | 1396 | 245 | 1640 | 1321 | 259 | 1581 | 1240 | 280 | 1520 | 1155 | 308 | 1463 | 1064 | 343 | 1406 |
| 100.2 | 9 | 1444 | 246 | 1690 | 1366 | 262 | 1627 | 1282 | 283 | 1565 | 1195 | 311 | 1506 | 1098 | 347 | 1445 |
| | 10 | 1494 | 248 | 1742 | 1412 | 264 | 1676 | 1325 | 286 | 1611 | 1233 | 315 | 1547 | 1136 | 350 | 1486 |
| | 6 | 1404 | 242 | 1646 | 1330 | 257 | 1587 | 1248 | 279 | 1527 | 1164 | 306 | 1471 | 1074 | 342 | 1415 |
| | 7 | 1455 | 245 | 1700 | 1374 | 261 | 1635 | 1294 | 282 | 1576 | 1207 | 310 | 1517 | 1115 | 346 | 1461 |
| 110.2 | 8 | 1503 | 247 | 1751 | 1424 | 264 | 1688 | 1341 | 285 | 1626 | 1252 | 314 | 1566 | 1157 | 350 | 1507 |
| 110.2 | 9 | 1557 | 250 | 1807 | 1475 | 266 | 1741 | 1389 | 289 | 1678 | 1298 | 318 | 1615 | 1200 | 354 | 1554 |
| | 10 | 1611 | 252 | 1863 | 1527 | 269 | 1796 | 1438 | 292 | 1730 | 1345 | 322 | 1666 | 1244 | 359 | 1603 |
| | 6 | 1477 | 264 | 1742 | 1394 | 282 | 1676 | 1311 | 305 | 1616 | 1222 | 335 | 1558 | 1127 | 374 | 1501 |
| | 7 | 1526 | 268 | 1794 | 1445 | 285 | 1730 | 1359 | 308 | 1668 | 1268 | 339 | 1607 | 1170 | 379 | 1549 |
| 115.2 | 8 | 1581 | 270 | 1851 | 1497 | 288 | 1785 | 1409 | 312 | 1721 | 1315 | 344 | 1658 | 1214 | 383 | 1597 |
| 113.2 | 9 | 1637 | 273 | 1910 | 1550 | 291 | 1841 | 1459 | 316 | 1775 | 1363 | 348 | 1710 | 1259 | 388 | 1647 |
| | 10 | 1694 | 276 | 1970 | 1605 | 294 | 1899 | 1511 | 320 | 1831 | 1412 | 352 | 1764 | 1305 | 393 | 1698 |
| | 6 | 1600 | 270 | 1870 | 1520 | 288 | 1809 | 1435 | 311 | 1746 | 1347 | 337 | 1684 | 1250 | 368 | 1618 |
| | 7 | 1653 | 273 | 1927 | 1570 | 292 | 1862 | 1483 | 315 | 1797 | 1391 | 341 | 1732 | 1292 | 372 | 1663 |
| 120.2 | 8 | 1703 | 278 | 1982 | 1621 | 296 | 1918 | 1532 | 319 | 1850 | 1438 | 344 | 1782 | 1335 | 376 | 1711 |
| 120.2 | 9 | 1758 | 282 | 2041 | 1674 | 300 | 1974 | 1581 | 322 | 1904 | 1485 | 348 | 1833 | 1379 | 380 | 1759 |
| | 10 | 1814 | 287 | 2101 | 1727 | 304 | 2031 | 1632 | 327 | 1959 | 1533 | 353 | 1885 | 1424 | 384 | 1808 |
| | 6 | 1649 | 296 | 1946 | 1569 | 317 | 1885 | 1480 | 342 | 1821 | 1387 | 370 | 1757 | 1287 | 404 | 1691 |
| | 7 | 1702 | 301 | 2003 | 1618 | 321 | 1939 | 1528 | 346 | 1874 | 1433 | 374 | 1807 | 1330 | 404 | 1738 |
| 120.2 | | - | | | | | | | | | | | | | | |
| 130.2 | 8 | 1758 | 305 | 2063 | 1671 | 325 | 1996 | 1579 | 350 | 1928 | 1480 | 379 | 1859 | 1374 | 413 | 1787 |
| | 9 | 1812 | 310 | 2122 | 1724 | 330 | 2054 | 1630 | 354 | 1984 | 1529 | 383 | 1912 | 1420 | 417 | 1838 |
| | | 1869 | 314 | 2184 | 1780 | 334 | 2114 | 1683 | 359 | 2041 | 1579 | 388 | 1967 | 1468 | 422 | 1890 |
| | 6 | 1731 | 312 | 2043 | 1645 | 333 | 1978 | 1552 | 359 | 1911 | 1446 | 392 | 1838 | 1338 | 428 | 1766 |
| 4.40.0 | 7 | 1788 | 316 | 2104 | 1693 | 339 | 2032 | 1597 | 365 | 1962 | 1493 | 396 | 1890 | 1383 | 433 | 1815 |
| 140.2 | 8 | 1846 | 320 | 2166 | 1748 | 343 | 2091 | 1648 | 370 | 2018 | 1542 | 401 | 1943 | 1429 | 437 | 1866 |
| | 9 | 1898 | 326 | 2224 | 1803 | 348 | 2151 | 1702 | 374 | 2076 | 1593 | 406 | 1999 | 1476 | 442 | 1919 |
| | 10 | 1958 | 331 | 2290 | 1862 | 353 | 2214 | 1758 | 379 | 2137 | 1646 | 411 | 2057 | 1526 | 448 | 1974 |

All data refers to the base versions

Pf: cooling power [kW]

Pre-electric power absorbed by compressors [kW]
Pr: recovery condenser heat power [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



| | | | | | | CTERNAL | | | | | | | |
|-------|------|------------|----------|-----|----------|---------|----------|------------|-----|------------|-----|------------|-----|
| Model | То | 2 | | _ | 0 | | 5 | | 10 | | 5 | | 9 * |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 266 | 57 | 250 | 62 | 234 | 68 | 217 | 75 | 198 | 84 | 183 | 92 |
| | 6 | 274 | 58 | 258 | 63 | 241 | 69 | 224 | 76 | 205 | 85 | 189 | 93 |
| 23.1 | 7 | 283 | 59 | 266 | 64 | 249 | 70 | 231 | 78 | 211 | 87 | 195 | 95 |
| 20.1 | 8 | 291 | 60 | 275 | 65 | 257 | 71 | 238 | 79 | 218 | 88 | 202 | 96 |
| | 9 | 300 | 61 | 283 | 66 | 265 | 73 | 246 | 80 | 225 | 90 | 208 | 98 |
| | 10 | 309 | 62 | 292 | 67 | 273 | 74 | 253 | 82 | 232 | 91 | 215 | 10 |
| | 5 | 258 | 56 | 243 | 59 | 228 | 65 | 211 | 73 | 192 | 85 | 176 | 9 |
| | 6 | 265 | 56 | 250 | 60 | 234 | 66 | 217 | 74 | 198 | 87 | 182 | 10 |
| 23.2 | 7 | 274 | 57 | 259 | 61 | 242 | 67 | 224 | 75 | 205 | 88 | 188 | 10 |
| 20.2 | 8 | 283 | 58 | 267 | 62 | 250 | 68 | 232 | 77 | 212 | 89 | 195 | 1(|
| | 9 | 292 | 59 | 276 | 63 | 258 | 69 | 239 | 78 | 219 | 91 | 201 | 10 |
| | 10 | 301 | 60 | 284 | 64 | 266 | 71 | 247 | 80 | 226 | 92 | 208 | 10 |
| | 5 | 303 | 66 | 285 | 72 | 265 | 79 | 244 | 88 | 222 | 99 | 205 | 10 |
| | 6 | 313 | 67 | 294 | 73 | 274 | 81 | 252 | 90 | 230 | 101 | 213 | 10 |
| 25.1 | 7 | 323 | 68 | 303 | 74 | 282 | 82 | 261 | 92 | 237 | 103 | 220 | 11 |
| Z5. I | 8 | 332 | 69 | 312 | 76 | 291 | 84 | 269 | 93 | 245 | 105 | 228 | 11 |
| | 9 | 342 | 70 | 322 | 77 | 300 | 85 | 277 | 95 | 253 | 107 | 235 | 11 |
| | 10 | 353 | 71 | 331 | 78 | 309 | 86 | 285 | 97 | 260 | 109 | 243 | 11 |
| | 5 | 308 | 68 | 290 | 73 | 271 | 81 | 250 | 92 | 237 | 101 | 208 | 12 |
| | 6 | 317 | 69 | 299 | 75 | 279 | 82 | 258 | 94 | 244 | 103 | 214 | 12 |
| 05.0 | 7 | 327 | 70 | 308 | 76 | 288 | 84 | 266 | 95 | 252 | 104 | 221 | 13 |
| 25.2 | 8 | 338 | 72 | 318 | 77 | 297 | 85 | 275 | 97 | 260 | 106 | 229 | 13 |
| | 9 | 348 | 73 | 328 | 79 | 307 | 87 | 283 | 99 | 269 | 108 | 237 | 13 |
| | 10 | 359 | 74 | 338 | 80 | 316 | 89 | 292 | 101 | 277 | 110 | 244 | 13 |
| | 5 | 329 | 69 | 311 | 74 | 291 | 81 | 270 | 90 | 247 | 101 | 228 | 11 |
| | 6 | 339 | 70 | 320 | 75 | 299 | 82 | 278 | 91 | 254 | 102 | 235 | 11 |
| | 7 | 350 | 71 | 330 | 77 | 309 | 84 | 287 | 93 | 263 | 104 | 243 | 11 |
| 28.1 | 8 | 361 | 72 | 341 | 78 | 319 | 85 | 296 | 94 | 272 | 106 | 252 | 11 |
| | 9 | 372 | 73 | 352 | 79 | 329 | 87 | 306 | 96 | 281 | 107 | 260 | 11 |
| | 10 | 384 | 74 | 363 | 80 | 340 | 88 | 316 | 98 | 290 | 109 | 269 | 12 |
| | 5 | 331 | 71 | 312 | 76 | 292 | 83 | 270 | 94 | 247 | 110 | 226 | 12 |
| | 6 | 340 | 72 | 321 | 77 | 300 | 85 | 278 | 95 | 254 | 111 | 233 | 12 |
| | 7 | 351 | 73 | 331 | 79 | 310 | 86 | 287 | 97 | 262 | 113 | 241 | 13 |
| 28.2 | 8 | 362 | 74 | 342 | 80 | 320 | 87 | 297 | 99 | 271 | 115 | 249 | 13 |
| | 9 | 374 | 74 76 | 353 | 81 | 330 | 89 | 306 | 100 | 280 | 117 | 258 | 13 |
| | 10 | 385 | 70 | 364 | 83 | 341 | 91 | 316 | 100 | 289 | 118 | 266 | 13 |
| | 5 | 358 | 77 | 337 | 83 | 315 | 91 | 292 | 102 | 267 | 113 | 246 | 12 |
| | 6 | 367 | 77 78 | 346 | 84 | 324 | 91 92 | 300 | 101 | 274 | 113 | 240 253 | 12 |
| | 7 | 367 379 | 78 79 | 346 | 84 85 | 334 | 92 94 | 300 | 102 | | 114 | | 12 |
| 31.1 | 8 | 379 392 | 79 80 | 369 | 85 87 | 345 | 94 95 | | 104 | 283 | 118 | 261 | 13 |
| | 9 | 39Z 404 | 80 81 | 381 | 87 88 | 345 | 95 97 | 319 330 | 108 | 293 302 | 118 | 270 279 | 13 |
| | | | | | | | | | | | | | |
| | 10 | 417 | 83 | 393 | 90 | 368 | 99 | 341 | 109 | 312 | 122 | 288 | 13 |
| | 5 | 359 | 78 | 338 | 84 | 316 | 92 | 292 | 103 | 266 | 118 | 244 | 13 |
| | 6 | 369 | 79 | 347 | 85 | 324 | 93 | 300 | 104 | 273 | 119 | 251 | 13 |
| 31.2 | 7 | 381 | 80 | 359 | 87 | 335 | 95 | 310 | 106 | 282 | 121 | 260 | 13 |
| | 8 | 393 | 81 | 370 | 88 | 346 | 97 | 320 | 108 | 292 | 123 | 269 | 13 |
| | 9 | 405 | 83 | 382 | 90 | 357 | 98 | 330 | 110 | 302 | 125 | 278 | 14 |
| | 10 | 418 | 84 | 394 | 91 | 368 | 100 | 341 | 112 | 311 | 128 | 287 | 14 |

(*) For HT version only

All data refers to the base versions

Pf. cooling power [kW] Pe: electric power absorbed by compressors [kW] T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5° C



| | | | | | | | | ERATURE | | | | | |
|-------|------|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|------------|
| Model | To | | .5 | _ | 0 | _ | 15 | | 0 | _ | 5 | |) * |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | F |
| | 5 | 387 | 82 | 364 | 88 | 340 | 97 | 315 | 108 | 287 | 121 | 265 | 1: |
| | 6 | 397 | 83 | 374 | 90 | 349 | 98 | 323 | 109 | 295 | 123 | 272 | 1 |
| 33.2 | 7 | 410 | 84 | 386 | 91 | 361 | 100 | 334 | 111 | 305 | 125 | 282 | 1 |
| 00.2 | 8 | 423 | 85 | 399 | 92 | 373 | 102 | 345 | 113 | 316 | 127 | 292 | 1 |
| | 9 | 437 | 87 | 412 | 94 | 385 | 103 | 356 | 115 | 326 | 129 | 301 | 1 |
| | 10 | 451 | 88 | 425 | 96 | 397 | 105 | 368 | 117 | 337 | 131 | 311 | 1 |
| | 5 | 419 | 88 | 395 | 95 | 369 | 104 | 342 | 116 | 313 | 130 | 288 | 1 |
| | 6 | 431 | 89 | 406 | 96 | 380 | 106 | 352 | 118 | 322 | 132 | 297 | 1 |
| 35.2 | 7 | 445 | 90 | 419 | 98 | 392 | 108 | 364 | 120 | 333 | 134 | 307 | 1 |
| 00.2 | 8 | 459 | 92 | 433 | 100 | 405 | 109 | 376 | 122 | 344 | 136 | 318 | 1 |
| | 9 | 474 | 93 | 447 | 101 | 418 | 111 | 388 | 124 | 356 | 138 | 329 | 1 |
| | 10 | 489 | 95 | 462 | 103 | 432 | 113 | 401 | 126 | 368 | 141 | 340 | 1 |
| | 5 | 452 | 95 | 425 | 102 | 398 | 112 | 368 | 125 | 336 | 140 | 307 | 1 |
| | 6 | 464 | 96 | 437 | 104 | 408 | 114 | 378 | 127 | 346 | 142 | 316 | 1 |
| 37.2 | 7 | 479 | 97 | 452 | 105 | 422 | 116 | 391 | 129 | 358 | 144 | 327 | 1 |
| 37.2 | 8 | 495 | 99 | 466 | 107 | 436 | 118 | 404 | 131 | 370 | 147 | 338 | 1 |
| | 9 | 511 | 100 | 481 | 109 | 450 | 120 | 417 | 133 | 382 | 149 | 350 | 1 |
| | 10 | 527 | 102 | 497 | 111 | 465 | 122 | 430 | 136 | 395 | 152 | 362 | 1 |
| | 5 | 487 | 106 | 458 | 115 | 428 | 126 | 396 | 141 | 361 | 158 | 332 | 1 |
| | 6 | 502 | 107 | 473 | 117 | 442 | 129 | 408 | 143 | 373 | 161 | 343 | 1 |
| 40.2 | 7 | 518 | 109 | 488 | 119 | 455 | 131 | 421 | 146 | 385 | 164 | 355 | 1 |
| 40.2 | 8 | 533 | 111 | 502 | 120 | 469 | 133 | 434 | 148 | 397 | 166 | 365 | 1 |
| | 9 | 548 | 112 | 516 | 122 | 482 | 135 | 446 | 150 | 408 | 169 | 376 | 1 |
| | 10 | 564 | 114 | 531 | 124 | 496 | 137 | 459 | 153 | 420 | 172 | 388 | 1 |
| | 5 | 518 | 109 | 488 | 118 | 456 | 129 | 422 | 143 | 386 | 160 | 355 | 1 |
| | 6 | 534 | 110 | 503 | 119 | 470 | 131 | 435 | 146 | 398 | 163 | 367 | 1 |
| 43.2 | 7 | 551 | 112 | 519 | 121 | 485 | 133 | 449 | 148 | 411 | 166 | 379 | 1 |
| 43.2 | 8 | 567 | 113 | 534 | 123 | 499 | 135 | 463 | 150 | 424 | 168 | 391 | 1 |
| | 9 | 584 | 115 | 550 | 125 | 514 | 138 | 476 | 153 | 436 | 171 | 403 | 1 |
| | 10 | 601 | 117 | 566 | 127 | 530 | 140 | 491 | 155 | 450 | 174 | 415 | 1 |
| | 5 | 564 | 122 | 532 | 132 | 498 | 144 | 461 | 160 | 423 | 179 | 390 | 1 |
| | 6 | 581 | 124 | 549 | 134 | 514 | 147 | 476 | 163 | 436 | 182 | 403 | 1 |
| 47.2 | 7 | 598 | 125 | 565 | 136 | 529 | 149 | 491 | 165 | 450 | 185 | 416 | 2 |
| 47.2 | 8 | 616 | 127 | 582 | 138 | 545 | 151 | 506 | 168 | 464 | 187 | 429 | 2 |
| | 9 | 634 | 129 | 599 | 140 | 561 | 154 | 521 | 171 | 478 | 190 | 442 | 2 |
| | 10 | 652 | 131 | 616 | 142 | 577 | 156 | 536 | 173 | 493 | 194 | 456 | 2 |
| | 5 | 600 | 126 | 566 | 137 | 529 | 150 | 490 | 166 | 448 | 186 | 414 | 2 |
| | 6 | 618 | 128 | 583 | 138 | 546 | 152 | 506 | 169 | 463 | 189 | 427 | 2 |
| 51.2 | 7 | 635 | 130 | 599 | 140 | 561 | 154 | 521 | 171 | 478 | 192 | 441 | 2 |
| 31.2 | 8 | 654 | 131 | 617 | 142 | 578 | 156 | 536 | 174 | 492 | 195 | 455 | 2 |
| | 9 | 673 | 133 | 635 | 144 | 595 | 159 | 552 | 176 | 507 | 198 | 470 | 2 |
| | 10 | 693 | 135 | 654 | 147 | 612 | 161 | 568 | 179 | 522 | 201 | 484 | 2 |
| | 5 | 648 | 142 | 610 | 154 | 569 | 169 | 525 | 188 | 478 | 210 | 439 | 2 |
| | 6 | 669 | 144 | 630 | 156 | 587 | 172 | 542 | 191 | 495 | 214 | 454 | 2 |
| E/1-2 | 7 | 691 | 146 | 650 | 159 | 607 | 175 | 561 | 194 | 512 | 218 | 470 | 2 |
| 54.2 | 8 | 713 | 149 | 672 | 162 | 627 | 178 | 580 | 198 | 529 | 222 | 487 | 2 |
| | 9 | 736 | 151 | 693 | 164 | 647 | 181 | 599 | 201 | 547 | 226 | 504 | 2 |
| | 10 | 760 | 154 | 715 | 167 | 668 | 184 | 618 | 205 | 565 | 230 | 521 | 2 |

(*) For HT version only

All data refers to the base versions

Pf. cooling power [kW]
Pe: electric power absorbed by compressors [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



| | | | | | E) | CTERNAL | AIR TEMP | ERATURE | [°C] | | | | |
|-------|---------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Model | To | 2 | . 5 | 3 | 0 | 3 | 5 | 4 | 0 | 4 | 5 | 49 |) * |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 695 | 145 | 653 | 157 | 609 | 173 | 562 | 192 | 512 | 215 | 470 | 237 |
| | 6 | 718 | 148 | 675 | 160 | 630 | 176 | 581 | 195 | 530 | 219 | 487 | 241 |
| 61.2 | 7 | 742 | 150 | 698 | 163 | 651 | 179 | 601 | 199 | 549 | 223 | 504 | 245 |
| 01.2 | 8 | 766 | 153 | 721 | 166 | 672 | 182 | 621 | 202 | 567 | 227 | 522 | 249 |
| | 9 | 791 | 155 | 744 | 169 | 694 | 185 | 642 | 206 | 586 | 231 | 540 | 254 |
| | 10 | 816 | 158 | 767 | 172 | 716 | 189 | 662 | 210 | 605 | 235 | 558 | 258 |
| | 5 | 770 | 165 | 723 | 178 | 674 | 196 | 621 | 217 | 565 | 243 | 518 | 268 |
| | 6 | 795 | 167 | 746 | 181 | 695 | 199 | 640 | 221 | 583 | 247 | 536 | 272 |
| 70.2 | 7 | 819 | 170 | 769 | 184 | 716 | 202 | 660 | 224 | 602 | 251 | 553 | 276 |
| 70.2 | 8 | 844 | 172 | 792 | 187 | 737 | 205 | 680 | 228 | 620 | 255 | 570 | 280 |
| | 9 | 868 | 175 | 815 | 190 | 759 | 209 | 700 | 231 | 638 | 259 | 587 | 284 |
| | 10 | 893 | 177 | 838 | 193 | 780 | 212 | 720 | 235 | 657 | 263 | 604 | 289 |
| | 5 | 817 | 171 | 767 | 186 | 714 | 204 | 658 | 227 | 598 | 255 | 548 | 280 |
| | 6 | 844 | 174 | 793 | 189 | 738 | 208 | 681 | 231 | 620 | 259 | 568 | 285 |
| 73.2 | 7 | 872 | 177 | 819 | 193 | 763 | 212 | 704 | 236 | 641 | 264 | 588 | 290 |
| 70.2 | 8 | 900 | 180 | 845 | 196 | 788 | 216 | 727 | 240 | 662 | 269 | 608 | 295 |
| | 9 | 928 | 183 | 872 | 200 | 812 | 220 | 749 | 244 | 683 | 273 | 628 | 300 |
| | 10 | 956 | 186 | 898 | 203 | 837 | 224 | 772 | 249 | 704 | 278 | 648 | 305 |
| | 5 | 870 | 187 | 816 | 203 | 759 | 224 | 697 | 249 | 633 | 279 | 578 | 307 |
| | 6 | 899 | 190 | 843 | 207 | 784 | 228 | 721 | 253 | 654 | 284 | 599 | 312 |
| 80.2 | 7 | 928 | 193 | 871 | 211 | 809 | 232 | 744 | 258 | 676 | 289 | 619 | 318 |
| | 8 | 956 | 196 | 896 | 214 | 833 | 236 | 766 | 263 | 697 | 294 | 638 | 323 |
| | 9 | 984 | 200 | 922 | 218 | 857 | 240 | 789 | 267 | 717 | 299 | 657 | 329 334 |
| | 10 5 | 1012 | 203 186 | 948 | 222 | 881 | 245 | 811 | 272 247 | 738 | 304 276 | 677 598 | 334 |
| | 6 | 895 924 | 189 | 840 868 | 202 205 | 781 807 | 222 226 | 719 743 | 247 251 | 653 676 | 276 | | 310 |
| | 7 | | | | | | | | | 676 | | 620 | |
| 82.2 | 8 | 955 985 | 192 195 | 896 | 209 | 834 | 230 234 | 768 | 256 261 | 699 | 287 292 | 641 663 | 315 321 |
| | 9 | | 199 | 925 954 | 213 | 861 888 | 234 | 794 | | 723 | 29Z 297 | | 321 |
| | 10 | 1016 1048 | 202 | 984 | 216 220 | 916 | 239 243 | 819 845 | 265 270 | 746 770 | 303 | 685 708 | 332 |
| | 5 | 955 | 202 | 895 | 223 | 831 | 245 | 763 | 273 | 691 | 307 | 631 | 338 |
| | 6 | 986 | 203 | 924 | 223 | 858 | 250 | 788 | 273 279 | 715 | 312 | 653 | 344 |
| | 7 | 1018 | 212 | 954 954 | 231 | 886 | 250 255 | 814 | 279 284 | 715 | 318 | 675 | 350 |
| 85.2 | 8 | 1050 | 216 | 983 | 235 | 913 | 260 | 839 | 289 | 762 | 324 | 697 | 356 |
| | 9 | 1030 | 219 | 1013 | 240 | 940 | 265 | 864 | 203 | 785 | 330 | 718 | 362 |
| | 10 | 1113 | 223 | 1042 | 244 | 968 | 270 | 890 | 300 | 808 | 336 | 740 | 369 |
| | 5 | 1021 | 219 | 958 | 238 | 891 | 261 | 820 | 290 | 744 | 325 | 680 | 357 |
| | 6 | 1054 | 223 | 989 | 230 242 | 919 | 266 | 846 | 296 | 768 | 331 | 703 | 364 |
| | 7 | 1086 | 227 | 1019 | 246 | 947 | 271 | 871 | 301 | 792 | 337 | 703 | 370 |
| 90.2 | 8 | 1118 | 230 | 1048 | 251 | 975 | 276 | 897 | 306 | 815 | 342 | 747 | 376 |
| | 9 | 1150 | 234 | 1078 | 255 | 1003 | 281 | 923 | 312 | 839 | 348 | 769 | 382 |
| | 10 | 1182 | 238 | 1108 | 260 | 1031 | 286 | 949 | 317 | 863 | 354 | 791 | 389 |
| | 5 | 1086 | 229 | 1018 | 249 | 946 | 273 | 870 | 304 | 789 | 341 | 721 | 375 |
| | 6 | 1120 | 233 | 1050 | 253 | 975 | 278 | 896 | 309 | 814 | 346 | 744 | 381 |
| | 7 | 1153 | 237 | 1081 | 257 | 1004 | 283 | 923 | 314 | 838 | 352 | 767 | 387 |
| 95.2 | 8 | 1187 | 240 | 1112 | 262 | 1033 | 288 | 950 | 320 | 863 | 358 | 790 | 393 |
| | 9 | 1220 | 244 | 1144 | 266 | 1063 | 293 | 977 | 325 | 888 | 364 | 814 | 400 |
| | 10 | 1254 | 248 | 1175 | 271 | 1092 | 298 | 1005 | 331 | 913 | 370 | 837 | 406 |

(*) For HT version only

All data refers to the base versions

Pf: cooling power [kW]
Pe: electric power absorbed by compressors [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



| | | | | | | | | ERATURE | [°C] | | | | |
|-------|--------|------|------------|------|------------|------|------------|---------|------------|------|------------|------|-------------|
| Model | To | 2 | 5 | 3 | 0 | 3 | 5 | 4 | 0 | 4 | 5 | 49 | * |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 1146 | 246 | 1075 | 267 | 999 | 294 | 919 | 328 | 833 | 367 | 761 | 404 |
| | 6 | 1183 | 250 | 1110 | 272 | 1032 | 300 | 949 | 334 | 861 | 374 | 788 | 412 |
| 100.2 | 7 | 1221 | 254 | 1145 | 278 | 1065 | 306 | 980 | 340 | 890 | 381 | 814 | 419 |
| 100.2 | 8 | 1259 | 259 | 1181 | 283 | 1098 | 312 | 1011 | 347 | 919 | 389 | 841 | 427 |
| | 9 | 1297 | 264 | 1217 | 288 | 1132 | 318 | 1042 | 354 | 948 | 396 | 868 | 435 |
| | 10 | 1335 | 269 | 1253 | 294 | 1166 | 324 | 1074 | 361 | 977 | 404 | 896 | 444 |
| | 5 | 1221 | 253 | 1147 | 275 | 1069 | 304 | 986 | 338 | 897 | 380 | 823 | 419 |
| | 6 | 1256 | 257 | 1181 | 280 | 1101 | 309 | 1015 | 344 | 925 | 386 | 849 | 425 |
| 40E 0 | 7 | 1292 | 261 | 1214 | 284 | 1132 | 314 | 1045 | 350 | 952 | 393 | 874 | 432 |
| 105.2 | 8 | 1330 | 265 | 1250 | 289 | 1166 | 320 | 1076 | 356 | 981 | 400 | 902 | 440 |
| | 9 | 1369 | 269 | 1287 | 294 | 1200 | 325 | 1108 | 363 | 1011 | 407 | 930 | 447 |
| | 10 | 1408 | 274 | 1324 | 300 | 1235 | 331 | 1140 | 369 | 1041 | 414 | 958 | 455 |
| | 5 | 1344 | 288 | 1261 | 315 | 1172 | 348 | 1078 | 388 | 978 | 437 | 894 | 482 |
| | 6 | 1383 | 292 | 1297 | 320 | 1206 | 354 | 1110 | 395 | 1007 | 444 | 921 | 490 |
| | 7 | 1421 | 297 | 1333 | 325 | 1240 | 360 | 1141 | 402 | 1036 | 452 | 948 | 498 |
| 115.2 | 8 | 1463 | 302 | 1372 | 331 | 1277 | 367 | 1175 | 409 | 1068 | 460 | 978 | 506 |
| | 9 | 1504 | 308 | 1412 | 337 | 1313 | 373 | 1209 | 417 | 1100 | 468 | 1007 | 515 |
| | 10 | 1547 | 313 | 1451 | 343 | 1350 | 380 | 1244 | 425 | 1132 | 477 | 1037 | 524 |
| | 5 | 1430 | 322 | 1368 | 356 | 1302 | 393 | 1230 | 435 | 1152 | 483 | 1086 | 526 |
| | 6 | 1469 | 326 | 1406 | 360 | 1338 | 398 | 1264 | 440 | 1185 | 488 | 1117 | 531 |
| | 7 | 1509 | 330 | 1444 | 364 | 1374 | 402 | 1298 | 445 | 1217 | 493 | 1147 | 536 |
| 120.2 | 8 | 1552 | 334 | 1485 | 369 | 1413 | 407 | 1335 | 450 | 1252 | 498 | 1181 | 542 |
| | 9 | 1595 | 339 | 1527 | 373 | 1453 | 412 | 1373 | 455 | 1287 | 504 | 1214 | 548 |
| | 10 | 1639 | 343 | 1569 | 378 | 1493 | 417 | 1411 | 460 | 1323 | 510 | 1248 | 554 |
| | 5 | 1474 | 328 | 1412 | 363 | 1345 | 401 | 1272 | 444 | 1194 | 493 | 1129 | 536 |
| | 6 | 1515 | 332 | 1451 | 367 | 1382 | 406 | 1307 | 449 | 1227 | 498 | 1160 | 54 |
| | 7 | 1556 | 336 | 1490 | 371 | 1419 | 410 | 1342 | 454 | 1260 | 502 | 1191 | 546 |
| 130.2 | 8 | 1600 | 341 | 1533 | 376 | 1459 | 415 | 1381 | 459 | 1296 | 508 | 1225 | 552 |
| | 9 | 1645 | 345 | 1575 | 381 | 1500 | 420 | 1419 | 464 | 1333 | 513 | 1259 | 557 |
| | 10 | 1690 | 350 | 1619 | 385 | 1541 | 420 425 | 1458 | 469 | 1369 | 519 | 1294 | 563 |
| | 5 | 1516 | 334 | 1453 | 370 | 1385 | 409 | 1312 | 453 | 1234 | 503 | 1169 | 54 |
| | 6 | 1558 | 338 | 1493 | 370 374 | 1423 | 409 414 | 1348 | 453 458 | 1268 | 503 507 | 1200 | 54 <i>i</i> |
| | 7 | 1600 | 342 | 1533 | 374 378 | 1461 | 414 | 1384 | 458 462 | 1302 | 512 | 1232 | 55 550 |
| 140.2 | 8 | 1645 | 34Z 347 | 1577 | 383 | 1502 | 418 | 1423 | 46Z 467 | 1338 | 51Z 517 | 1267 | 56° |
| | 9 | 1691 | 347 351 | 1621 | 388 | 1544 | 423 428 | 1463 | 407 | 1376 | 522 | 1302 | 56 56 |
| | 10 | 1738 | 351 356 | 1665 | 393 | 1587 | 428 433 | 1503 | 473 478 | 1413 | 522 528 | 1338 | 572 |
| | 5 | | 368 | 1583 | 402 | | | | | 1220 | 553 | | 609 |
| | | 1690 | | | 402 409 | 1469 | 443 | 1348 | 493 | | | 1112 | |
| | 6 7 | 1744 | 375 | 1634 | | 1517 | 452 461 | 1393 | 503 | 1261 | 564 | 1151 | 62 |
| 150.4 | | 1800 | 382 | 1687 | 418 | 1566 | 461 | 1438 | 513 | 1303 | 576 | 1190 | 633 |
| | 8 | 1855 | 390 | 1738 | 426 | 1613 | 470 470 | 1482 | 523 | 1343 | 586 | 1227 | 645 |
| | 9 | 1910 | 397 | 1788 | 434 | 1660 | 479 | 1524 | 533 | 1383 | 597 | 1264 | 656 |
| | 10 | 1963 | 404 | 1838 | 442 | 1706 | 488 | 1567 | 543 | 1422 | 608 | 1300 | 667 |

n.a. not available (*) For HT version only

All data refers to the base versions

Pf. cooling power [kW] Pe: electric power absorbed by compressors [kW] T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



Kappa V Evo A - heating capacities

| | | | | | TER TEMPER | | | | | |
|-------|---------------|----------|------------|----------|------------|-----------|------------|----------|------------|----------|
| Model | Ta | RH | 3 | | 3 | 5 | 4 | 0 | | 5 |
| | [°C] | % | Pt | Pe | Pt | Pe | Pt | Pe | Pt | Pe |
| | -10 | 95 | 167 | 46 | 165 | 49 | 164 | 55 | 163 | 61 |
| | -5 | 90 | 183 | 47 | 181 | 51 | 178 | 56 | 177 | 63 |
| 23.1 | 0 | 90 | 211 | 50 | 208 | 54 | 206 | 59 | 203 | 67 |
| 20.1 | 5 | 80 | 238 | 52 | 237 | 56 | 236 | 63 | 233 | 70 |
| | 7 | 70 | 245 | 52 | 241 | 57 | 238 | 63 | 235 | 70 |
| | 10 | 70 | 266 | 54 | 261 | 58 | 256 | 65 | 253 | 72 |
| | -10 | 95 | 160 | 44 | 157 | 47 | 157 | 54 | 160 | 64 |
| | -5 | 90 | 173 | 45 | 171 | 49 | 170 | 55 | 172 | 65 |
| 23.2 | 0 | 90 | 198 | 47 | 196 | 51 | 194 | 57 | 195 | 67 |
| 20.2 | 5 | 80 | 226 | 50 | 222 | 54 | 224 | 60 | 224 | 70 |
| | 7 | 70 | 236 | 51 | 231 | 54 | 228 | 61 | 228 | 70 |
| | 10 | 70 | 254 | 52 | 249 | 56 | 246 | 63 | 245 | 72 |
| | -10 | 95 | 188 | 52 | 185 | 56 | 183 | 63 | 182 | 71 |
| | -5 | 90 | 206 | 54 | 203 | 58 | 200 | 65 | 199 | 73 |
| 25.1 | 0 | 90 | 236 | 56 | 233 | 61 | 230 | 68 | 228 | 76 |
| 20.1 | 5 | 80 | 270 | 59 | 266 | 64 | 262 | 71 | 260 | 80 |
| | 7 | 70 | 281 | 59 | 277 | 65 | 273 | 72 | 270 | 81 |
| | 10 | 70 | 304 | 61 | 297 | 66 | 293 | 73 | 290 | 83 |
| | -10 | 95 | 191 | 53 | 188 | 57 | 188 | 64 | 192 | 77 |
| | -5 | 90 | 207 | 54 | 205 | 58 | 204 | 66 | 206 | 78 |
| 25.2 | 0 | 90 | 238 | 57 | 235 | 61 | 233 | 68 | 235 | 80 |
| | 5 | 80 | 270 | 60 | 266 | 64 | 264 | 72 | 265 | 84 |
| | 7 | 70 | 273 | 60 | 271 | 65 | 271 | 72 | 272 | 84 |
| | 10 | 70 | 293 | 62 | 286 | 66 | 286 | 74 | 284 | 86 |
| | -10 | 95 | 207 | 57 | 209 | 62 | 201 | 68 | 204 | 78 |
| | -5 | 90 | 230 | 59 | 227 | 64 | 224 | 71 | 222 | 80 |
| 28.1 | 0 | 90 | 265 | 62 | 261 | 67 | 257 | 74 | 255 | 83 |
| | 5 | 80 | 302 | 65 | 297 | 70 | 293 | 78 | 291 | 88 |
| | 7 | 70 | 313 | 66 | 307 | 71 | 303 | 79 | 301 | 89 |
| | 10 | 70 | 331 | 67 | 328 | 73 | 325 | 82 | 322 | 92 |
| | -10 | 95 | 212 | 58 50 | 209 | 62 | 203 | 70 | 211 | 84 or |
| | -5 | 90 | 229 | 59 | 226 | 64 | 225 | 72 75 | 228 | 85 |
| 28.2 | <u>0</u> 5 | 90 | 264 | 63 | 260 | 67 | 258 | 75 70 | 258 | 88 |
| | 7 | 80 70 | 302 | 66 | 297 306 | 71 72 | 293 | 79 80 | 293 | 92 |
| | 10 | 70 | 312 | 67 68 | 325 | 72 74 | 302 323 | 82 | 302 323 | 93 95 |
| | -10 | 95 | 328 220 | 61 | 216 | 66 | 213 | 73 | 212 | 82 |
| | -10 | 90 | 243 | 63 | 239 | 68 | 235 | 75 75 | 234 | |
| | -5 0 | 90 | 243 281 | 65 | 239 | 71 | 272 | 75 78 | 274 | 84 89 |
| 31.1 | 5 | 80 | 321 | 69 | 318 | 7 i 75 | 312 | 78 82 | 312 | 93 |
| | 7 | 70 | 335 | 70 | 330 | 75 76 | 325 | oz 84 | 323 | 93 94 |
| | 10 | 70 | 358 | 70 | 353 | 78 | 348 | 86 | 345 | 94 97 |
| | -10 | 95 | 224 | 62 | 221 | 67 | 219 | 75 | 221 | 86 |
| | -5 | 90 | 244 | 64 | 241 | 69 | 239 | 77 | 241 | 88 |
| | 0 | 90 | 282 | 67 | 278 | 72 | 275 | 80 | 274 | 92 |
| 31.2 | 5 | 80 | 322 | 71 | 317 | 76 | 314 | 85 | 313 | 97 |
| | 7 | 70 | 334 | 72 | 329 | 70 77 | 325 | 86 | 324 | 98 |
| | 10 | 70 | 355 | 73 | 350 | 77 79 | 347 | 88 | 347 | 100 |
| | -10 | 95 | 245 | 67 | 243 | 73 | 242 | 81 | 242 | 91 |
| | -5 | 90 | 267 | 69 | 265 | 75 75 | 261 | 83 | 260 | 93 |
| 00.0 | 0 | 90 | 306 | 72 | 302 | 78 | 300 | 87 | 298 | 97 |
| 33.2 | 5 | 80 | 346 | 75 | 344 | 82 | 341 | 91 | 339 | 102 |
| | 7 | 70 | 350 | 75 | 345 | 82 | 343 | 91 | 343 | 102 |
| | 10 | 70 | 379 | 78 | 373 | 84 | 368 | 93 | 366 | 105 |
| | -10 | 95 | 257 | 72 | 253 | 77 | 250 | 86 | 250 | 97 |
| | -5 | 90 | 282 | 74 | 277 | 80 | 274 | 89 | 272 | 100 |
| 25.0 | 0 | 90 | 327 | 78 | 322 | 84 | 318 | 93 | 315 | 105 |
| 35.2 | 5 | 80 | 370 | 81 | 364 | 88 | 359 | 98 | 356 | 110 |
| | 7 | 70 | 386 | 82 | 380 | 89 | 375 | 99 | 370 | 112 |
| | 10 | 70 | 415 | 84 | 409 | 92 | 403 | 102 | 398 | 115 |

All data refers to the base versions
Pt: heat power [kW]
Pe: power absorbed by compressors [kW]
Ta: dry bulb temperature of the evaporator inlet air [°C]
RH: relative humidity of the input air at the evaporator [%]



Kappa V Evo A - heating capacities

| Bar Jan | | D.I. | | | TER TEMPER | | | | | - |
|---------|-----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|
| Model | Ta | RH | | 0 | _ | 5 | | 0 | | 5 |
| | [°C] | % | Pt | Pe | Pt | Pe | Pt | Pe | Pt | Pe |
| | -10 | 95 | 267 | 75 70 | 263 | 81 | 261 | 90 | 261 | 102 |
| | -5 | 90 | 293 | 78 | 289 | 84 | 286 | 93 | 284 | 105 |
| 37.2 | 0 | 90 | 341 | 82 | 336 | 89 | 333 | 98 | 330 | 111 |
| | 5 | 80 | 384 | 85 | 379 | 92 | 374 | 102 | 371 | 115 |
| | 7 | 70 | 401 | 86 | 395 | 94 | 390 | 104 | 387 | 117 |
| | 10 | 70 | 434 | 88 | 425 | 96 | 419 | 107 | 415 | 120 |
| | -10 | 95 | 297 | 82 | 294 | 89 | 292 | 99 | 291 | 112 |
| | -5 | 90 | 325 | 85 | 319 | 92 | 316 | 102 | 313 | 115 |
| 40.2 | 0 | 90 | 373 | 89 | 368 | 97 | 364 | 108 | 361 | 121 |
| 10.2 | 5 | 80 | 413 | 92 | 407 | 100 | 402 | 111 | 400 | 125 |
| | 7 | 70 | 432 | 93 | 425 | 102 | 420 | 113 | 417 | 127 |
| | 10 | 70 | 468 | 96 | 460 | 104 | 452 | 116 | 448 | 130 |
| | -10 | 95 | 313 | 87 | 308 | 93 | 305 | 103 | 303 | 116 |
| | -5 | 90 | 344 | 89 | 338 | 97 | 334 | 107 | 331 | 120 |
| 43.2 | 0 | 90 | 396 | 94 | 389 | 102 | 384 | 112 | 381 | 126 |
| 43.2 | 5 | 80 | 451 | 98 | 444 | 107 | 438 | 118 | 434 | 133 |
| | 7 | 70 | 471 | 100 | 463 | 108 | 457 | 120 | 451 | 135 |
| | 10 | 70 | 508 | 102 | 499 | 111 | 491 | 123 | 485 | 138 |
| | -10 | 95 | 350 | 97 | 338 | 104 | 335 | 115 | 338 | 130 |
| | -5 | 90 | 377 | 100 | 372 | 108 | 367 | 119 | 364 | 134 |
| 47.2 | 0 | 90 | 433 | 105 | 427 | 113 | 422 | 125 | 418 | 141 |
| 47.2 | 5 | 80 | 493 | 109 | 487 | 119 | 483 | 132 | 478 | 148 |
| | 7 | 70 | 511 | 111 | 506 | 120 | 499 | 133 | 494 | 150 |
| | 10 | 70 | 547 | 113 | 538 | 123 | 531 | 136 | 527 | 153 |
| | -10 | 95 | 372 | 103 | 366 | 111 | 364 | 123 | 363 | 139 |
| | -5 | 90 | 405 | 106 | 400 | 115 | 396 | 127 | 393 | 143 |
| E4.0 | 0 | 90 | 465 | 111 | 459 | 120 | 455 | 133 | 452 | 150 |
| 51.2 | 5 | 80 | 515 | 115 | 513 | 125 | 511 | 139 | 511 | 157 |
| | 7 | 70 | 534 | 116 | 526 | 126 | 520 | 140 | 517 | 157 |
| | 10 | 70 | 578 | 119 | 569 | 130 | 562 | 144 | 555 | 161 |
| | -10 | 95 | 403 | 113 | 399 | 122 | 396 | 135 | 395 | 152 |
| | -5 | 90 | 440 | 116 | 434 | 125 | 428 | 139 | 425 | 156 |
| | 0 | 90 | 500 | 121 | 495 | 131 | 491 | 145 | 488 | 163 |
| 54.2 | 5 | 80 | 561 | 126 | 559 | 137 | 555 | 152 | 553 | 172 |
| | 7 | 70 | 565 | 126 | 562 | 137 | 560 | 153 | 560 | 172 |
| | 10 | 70 | 609 | 130 | 601 | 141 | 597 | 157 | 592 | 176 |
| | -10 | 95 | 417 | 118 | 412 | 128 | 409 | 142 | 409 | 161 |
| | -5 | 90 | 452 | 121 | 447 | 132 | 444 | 146 | 443 | 165 |
| | 0 | 90 | 521 | 127 | 515 | 138 | 511 | 153 | 509 | 173 |
| 61.2 | 5 | 80 | 592 | 132 | 582 | 144 | 576 | 160 | 572 | 181 |
| | 7 | 70 | 616 | 134 | 607 | 146 | 601 | 162 | 597 | 183 |
| | 10 | 70 | 668 | 138 | 657 | 150 | 648 | 167 | 642 | 188 |
| | -10 | 95 | 487 | 134 | 482 | 145 | 478 | 162 | 477 | 183 |
| | -10 -5 | 90 | 527 | 137 | 521 | 149 | 517 | 166 | 516 | 188 |
| | 0 | 90 | 616 | 145 | 608 | 157 | 602 | 175 | 597 | 197 |
| 70.2 | 5 | 80 | 688 | 150 | 677 | 163 | 669 | 181 | 663 | 205 |
| | 7 | 70 | 719 | 150 | 707 | 166 | 699 | 184 | 692 | 203 |
| | 10 | 70 | 778 | 152 | 765 | 170 | 753 | 189 | 744 | 214 |
| | -10 | 95 | 495 | 137 | 488 | 148 | 753 485 | 165 | 484 | 187 |
| | -10 -5 | 90 | 536 | 140 | 488 530 | 148 | 526 | 169 | 524 | 187 |
| | | | | | | | | | | |
| 73.2 | 0 5 | 90 | 624 | 147 | 616 | 161 167 | 611 | 179 | 607 | 202 |
| | | 80 | 697 | 153 | 685 | 167 | 678 | 185 | 673 | 209 |
| | 7 | 70 | 726 | 155 | 715 | 169 | 707 | 188 | 702 | 213 |
| | 10 | 70 | 788 | 159 | 774 | 174 | 764 | 193 | 756 | 218 |
| | -10 | 95 | 533 | 146 | 527 | 158 | 523 | 176 | 519 | 199 |
| | -5 | 90 | 577 | 149 | 570 | 162 | 566 | 180 | 563 | 204 |
| | 0 | 90 | 663 | 156 | 655 | 170 | 650 | 189 | 647 | 214 |
| 802 | | | | | | | 710 | 100 | 715 | |
| 80.2 | 5 7 | 80 70 | 736 761 | 162 164 | 725 749 | 176 178 | 716 742 | 195 198 | 715 737 | 221 224 |

^(*) For HT version only

All data refers to the base versions
Pt: heat power [kW]
Pe: power absorbed by compressors [kW]
Ta: dry bulb temperature of the evaporator inlet air [°C]
RH: relative humidity of the input air at the evaporator [%]



| | | | | | | | | ERATURE | | | _ | | |
|-------|--------|------------|------------|------------|----------|------------|-----------|------------|------------|------------|------------|------------|------------|
| Model | То | | 5 | 3 | _ | | 15 | | 10 | 1 | 5 | |) * |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 260 | 59 | 244 | 65 | 228 | 71 | 210 | 79 | 199 | 84 | 175 | 96 |
| | 6 | 268 | 60 | 252 | 66 | 235 | 72 | 217 | 80 | 205 | 86 | 181 | 98 |
| 23.1 | 7 8 | 276 | 61 | 260 | 67 | 242 | 74 | 223 | 82 | 212 | 87 | 187 | 10 |
| | 9 | 285 | 62 | 267 | 68 | 249 | 75 | 230 | 83 or | 218 | 89 | 193 | 10 |
| | 10 | 293 302 | 63 65 | 275 284 | 69 70 | 257 | 76 78 | 237 | 85 86 | 225 232 | 90 92 | 199 205 | 10 10 |
| | 5 | 252 | 57 | 237 | 61 | 264 221 | 68 | 244 203 | 77 | 192 | 9Z 85 | 167 | 10 |
| | 6 | 252 259 | 57 57 | 243 | 62 | 227 | 69 | 203 | 77 79 | 197 | 65 87 | 172 | 10 |
| | 7 | 267 | 57 58 | 243 251 | 63 | 234 | 70 | 216 | 79 80 | 204 | 67 88 | 172 | 11 |
| 23.2 | 8 | 275 | 59 | 259 | 64 | 241 | 70 | 223 | 82 | 210 | 90 | 184 | 11 |
| | 9 | 284 | 60 | 267 | 66 | 249 | 73 | 230 | 83 | 217 | 91 | 190 | 11 |
| | 10 | 293 | 61 | 275 | 67 | 257 | 74 | 237 | 85 | 224 | 93 | 196 | 11 |
| | 5 | 298 | 68 | 279 | 74 | 259 | 82 | 238 | 92 | 224 | 99 | 196 | 11 |
| | 6 | 308 | 69 | 288 | 75 | 268 | 83 | 246 | 93 | 232 | 100 | 202 | 11 |
| 05.4 | 7 | 317 | 70 | 297 | 77 | 276 | 85 | 253 | 95 | 239 | 102 | 209 | 11 |
| 25.1 | 8 | 327 | 71 | 306 | 78 | 284 | 87 | 261 | 97 | 247 | 104 | 216 | 12 |
| | 9 | 337 | 72 | 316 | 79 | 293 | 88 | 269 | 99 | 254 | 106 | 223 | 12 |
| | 10 | 347 | 73 | 325 | 81 | 302 | 90 | 277 | 101 | 262 | 108 | 230 | 12 |
| | 5 | 299 | 70 | 281 | 75 | 261 | 84 | 239 | 97 | 226 | 107 | 195 | 13 |
| | 6 | 308 | 71 | 289 | 77 | 268 | 85 | 246 | 98 | 232 | 109 | 201 | 13 |
| 2E 2 | 7 | 317 | 72 | 298 | 78 | 277 | 87 | 255 | 100 | 240 | 111 | 208 | 14 |
| 25.2 | 8 | 327 | 73 | 307 | 79 | 286 | 89 | 263 | 102 | 248 | 112 | 216 | 14 |
| | 9 | 338 | 74 | 317 | 81 | 295 | 90 | 271 | 104 | 256 | 115 | 223 | 14 |
| | 10 | 348 | 76 | 327 | 82 | 304 | 92 | 280 | 106 | 264 | 117 | 230 | 14 |
| | 5 | 321 | 71 | 302 | 78 | 282 | 85 | 260 | 95 | 247 | 101 | 218 | 11 |
| | 6 | 330 | 72 | 310 | 79 | 290 | 86 | 268 | 96 | 254 | 103 | 225 | 11 |
| 28.1 | 7 | 340 | 74 | 320 | 80 | 299 | 88 | 276 | 98 | 262 | 105 | 232 | 12 |
| 20.1 | 8 | 351 | 75 | 330 | 81 | 308 | 90 | 285 | 100 | 271 | 107 | 240 | 12 |
| | 9 | 362 | 76 | 341 | 83 | 318 | 91 | 294 | 101 | 279 | 109 | 248 | 12 |
| | 10 | 373 | 77 | 351 | 84 | 328 | 93 | 304 | 103 | 288 | 111 | 256 | 12 |
| | 5 | 324 | 74 | 305 | 80 | 285 | 88 | 262 | 100 | 248 | 111 | 216 | 14 |
| | 6 | 333 | 7 5 | 314 | 81 | 293 | 89 | 270 | 102 | 255 | 112 | 222 | 14 |
| 28.2 | 7 | 344 | 76 | 324 | 82 | 302 | 91 | 278 | 104 | 263 | 114 | 230 | 14 |
| | 8 | 355 | 77 | 334 | 84 | 312 | 93 | 287 | 106 | 272 | 116 | 238 | 14 |
| | 9 | 366 | 79 | 344 | 85 07 | 321 | 94 | 297 | 108 | 281 | 118 | 246 | 14 |
| | 10 | 377 | 80 | 355 | 87 | 331 | 96 | 306 | 110 | 289 | 121 | 254 | 15 |
| | 5 6 | 350 | 79 | 329 | 86 97 | 306 | 94 | 282 | 105 | 267 | 113 | 235 | 13 13 |
| | 7 | 359 370 | 80 81 | 337 348 | 87 88 | 314 324 | 96 98 | 290 299 | 107 109 | 274 283 | 114 116 | 242 250 | 13 13 |
| 31.1 | 8 | 370 381 | 81 83 | 348 358 | 88 90 | 334 | 98 | 308 | 111 | 283 292 | 119 | 250 258 | 13 |
| | 9 | 393 | 83 84 | 358 369 | 90 92 | 344 | 99 101 | 318 | 113 | 301 | 121 | 258 266 | 13 |
| | 10 | აყა 405 | 04 86 | 381 | 93 | 355 | 103 | 327 | 115 | 310 | 123 | 274 | 14 |
| | 5 | 351 | 81 | 330 | 93 87 | 307 | 96 | 282 | 109 | 266 | 118 | 233 | 14 |
| | 6 | 360 | 82 | 338 | 89 | 315 | 98 | 290 | 110 | 274 | 120 | 239 | 14 |
| | 7 | 372 | 83 | 349 | 90 | 325 | 100 | 299 | 113 | 282 | 120 | 247 | 14 |
| 31.2 | 8 | 384 | 85 | 360 | 92 | 335 | 100 | 309 | 115 | 291 | 124 | 255 | 14 |
| | 9 | 395 | 86 | 371 | 94 | 346 | 102 | 318 | 117 | 301 | 127 | 264 | 15 |
| | 10 | 407 | 88 | 383 | 96 | 356 | 104 | 328 | 119 | 310 | 129 | 272 | 15 |

(*) For HT version only

All data refers to the base versions

Pf: cooling power [kW]
Pe: electric power absorbed by compressors [kW]
Pr: condenser heat power [kW]
T0: evaporator outlet water temperature [°C]



| | | | | | EX | TERNAL | AIR TEMP | ERATURE | [°C] | | | | |
|-------------|------|-----|-----|-----|-----|--------|----------|---------|------|-----|-----|-----|-----|
| Model | To | 2 | 5 | 3 | 0 | 3 | 5 | 4 | 0 | 4 | 5 | 49 | * |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 379 | 85 | 356 | 92 | 331 | 102 | 305 | 113 | 288 | 122 | 254 | 140 |
| | 6 | 389 | 86 | 365 | 93 | 340 | 103 | 313 | 115 | 296 | 123 | 261 | 143 |
| 22.2 | 7 | 401 | 87 | 377 | 95 | 351 | 105 | 323 | 117 | 306 | 126 | 270 | 145 |
| 33.2 | 8 | 414 | 89 | 389 | 97 | 362 | 107 | 334 | 119 | 316 | 128 | 279 | 148 |
| | 9 | 427 | 90 | 401 | 99 | 373 | 109 | 344 | 122 | 326 | 130 | 288 | 150 |
| | 10 | 440 | 92 | 413 | 100 | 385 | 111 | 355 | 124 | 336 | 133 | 298 | 153 |
| | 5 | 410 | 91 | 386 | 99 | 360 | 109 | 332 | 122 | 314 | 130 | 277 | 151 |
| | 6 | 422 | 93 | 397 | 101 | 370 | 111 | 341 | 124 | 323 | 132 | 285 | 153 |
| 25.2 | 7 | 436 | 94 | 410 | 102 | 382 | 113 | 353 | 126 | 334 | 135 | 295 | 156 |
| 35.2 | 8 | 450 | 96 | 423 | 104 | 394 | 115 | 364 | 128 | 345 | 137 | 305 | 158 |
| | 9 | 464 | 97 | 436 | 106 | 407 | 117 | 376 | 131 | 356 | 140 | 316 | 161 |
| | 10 | 478 | 99 | 450 | 108 | 420 | 119 | 388 | 133 | 368 | 142 | 326 | 164 |
| | 5 | 441 | 98 | 414 | 107 | 386 | 118 | 355 | 132 | 336 | 141 | 290 | 182 |
| | 6 | 453 | 100 | 426 | 109 | 396 | 120 | 365 | 134 | 345 | 143 | 299 | 184 |
| 07.0 | 7 | 468 | 101 | 439 | 110 | 409 | 122 | 377 | 136 | 357 | 146 | 309 | 187 |
| 37.2 | 8 | 483 | 103 | 453 | 112 | 422 | 124 | 389 | 139 | 369 | 149 | 320 | 190 |
| | 9 | 498 | 105 | 467 | 115 | 435 | 127 | 402 | 141 | 380 | 151 | 330 | 192 |
| | 10 | 513 | 107 | 482 | 117 | 449 | 129 | 414 | 144 | 393 | 154 | 341 | 195 |
| | 5 | 485 | 106 | 456 | 116 | 425 | 128 | 392 | 142 | 371 | 153 | 328 | 177 |
| | 6 | 500 | 108 | 470 | 117 | 438 | 130 | 404 | 145 | 383 | 155 | 338 | 180 |
| 70.0 | 7 | 516 | 109 | 485 | 119 | 452 | 132 | 417 | 147 | 395 | 158 | 349 | 183 |
| 40.2 | 8 | 531 | 111 | 499 | 121 | 465 | 134 | 429 | 150 | 407 | 161 | 360 | 186 |
| | 9 | 546 | 113 | 513 | 123 | 478 | 136 | 442 | 152 | 419 | 163 | 371 | 189 |
| | 10 | 561 | 115 | 528 | 125 | 492 | 139 | 454 | 155 | 431 | 166 | 382 | 192 |
| | 5 | 505 | 114 | 474 | 124 | 441 | 137 | 407 | 153 | 385 | 163 | 338 | 188 |
| | 6 | 521 | 116 | 489 | 126 | 455 | 139 | 419 | 155 | 397 | 166 | 349 | 192 |
| 40.0 | 7 | 536 | 118 | 504 | 129 | 469 | 142 | 432 | 158 | 409 | 169 | 361 | 195 |
| 43.2 | 8 | 552 | 120 | 518 | 131 | 483 | 144 | 445 | 161 | 421 | 172 | 372 | 198 |
| | 9 | 568 | 122 | 533 | 133 | 496 | 147 | 458 | 164 | 433 | 175 | 383 | 201 |
| | 10 | 584 | 124 | 548 | 135 | 510 | 150 | 471 | 167 | 446 | 178 | 394 | 205 |
| | 5 | 552 | 127 | 519 | 138 | 484 | 152 | 447 | 169 | 423 | 180 | 374 | 208 |
| | 6 | 569 | 129 | 535 | 140 | 499 | 154 | 461 | 172 | 437 | 183 | 386 | 211 |
| 47.0 | 7 | 586 | 131 | 551 | 142 | 514 | 157 | 475 | 175 | 450 | 187 | 398 | 215 |
| 47.2 | 8 | 603 | 133 | 567 | 145 | 529 | 160 | 489 | 178 | 463 | 190 | 410 | 218 |
| | 9 | 620 | 135 | 583 | 148 | 544 | 163 | 503 | 181 | 477 | 193 | 422 | 222 |
| | 10 | 637 | 138 | 600 | 150 | 560 | 166 | 517 | 184 | 491 | 197 | 435 | 226 |
| | 5 | 587 | 131 | 552 | 142 | 514 | 157 | 474 | 175 | 449 | 187 | 397 | 217 |
| | 6 | 604 | 133 | 569 | 145 | 530 | 160 | 489 | 178 | 463 | 191 | 409 | 220 |
| E4.2 | 7 | 621 | 135 | 584 | 147 | 545 | 162 | 504 | 181 | 477 | 194 | 422 | 224 |
| 51.2 | 8 | 639 | 137 | 601 | 149 | 561 | 165 | 519 | 184 | 492 | 197 | 435 | 228 |
| | 9 | 657 | 139 | 618 | 152 | 577 | 168 | 534 | 187 | 506 | 200 | 449 | 231 |
| | 10 | 676 | 141 | 636 | 154 | 593 | 170 | 549 | 190 | 521 | 204 | 462 | 235 |
| | 5 | 637 | 150 | 598 | 163 | 555 | 180 | 510 | 201 | 481 | 216 | 421 | 250 |
| | 6 | 656 | 152 | 614 | 166 | 571 | 183 | 524 | 205 | 495 | 219 | 434 | 254 |
| 54.2 | 7 | 676 | 155 | 634 | 169 | 589 | 187 | 541 | 209 | 511 | 224 | 448 | 259 |
| 54.2 | 8 | 698 | 158 | 654 | 172 | 608 | 191 | 558 | 213 | 527 | 228 | 462 | 263 |
| | 9 | 719 | 161 | 674 | 176 | 627 | 195 | 576 | 217 | 544 | 233 | 478 | 268 |
| | 10 | 741 | 164 | 695 | 179 | 646 | 199 | 594 | 221 | 561 | 237 | 493 | 274 |

(*) For HT version only

All data refers to the base versions

Pf: cooling power [kW]
Pe: electric power absorbed by compressors [kW]
Pr: condenser heat power [kW]

T0: evaporator outlet water temperature [°C]



| | | | | | EX | TERNAL A | AIR TEMP | ERATURE | [°C] | | | | |
|-------|------|------|-----|------|-----|----------|----------|---------|------|-----|-----|-----|-----|
| Model | To | 2 | 5 | 3 | 0 | 3 | 5 | 4 | 0 | 4 | 5 | 49 | * |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 686 | 156 | 642 | 171 | 595 | 189 | 545 | 211 | 514 | 226 | 448 | 261 |
| | 6 | 708 | 159 | 663 | 174 | 614 | 193 | 563 | 215 | 531 | 230 | 463 | 266 |
| 61.2 | 7 | 731 | 162 | 684 | 178 | 634 | 197 | 581 | 219 | 548 | 235 | 479 | 271 |
| 01.2 | 8 | 753 | 165 | 705 | 181 | 654 | 201 | 600 | 224 | 566 | 240 | 495 | 276 |
| | 9 | 777 | 169 | 727 | 185 | 674 | 205 | 619 | 228 | 584 | 245 | 511 | 282 |
| | 10 | 800 | 172 | 749 | 189 | 695 | 209 | 638 | 233 | 603 | 250 | 528 | 288 |
| | 5 | 758 | 176 | 709 | 192 | 657 | 212 | 603 | 236 | 568 | 253 | 496 | 292 |
| | 6 | 783 | 179 | 732 | 195 | 679 | 216 | 623 | 240 | 587 | 258 | 513 | 297 |
| 70.2 | 7 | 808 | 182 | 756 | 199 | 701 | 220 | 643 | 245 | 607 | 263 | 531 | 303 |
| 70.2 | 8 | 832 | 185 | 778 | 203 | 722 | 224 | 662 | 250 | 625 | 267 | 547 | 308 |
| | 9 | 856 | 189 | 801 | 207 | 742 | 228 | 681 | 254 | 643 | 272 | 563 | 313 |
| | 10 | 880 | 192 | 823 | 210 | 763 | 232 | 700 | 259 | 661 | 277 | 579 | 319 |
| | 5 | 806 | 183 | 754 | 200 | 698 | 221 | 639 | 247 | 602 | 265 | 525 | 305 |
| | 6 | 832 | 187 | 778 | 204 | 721 | 226 | 660 | 252 | 622 | 270 | 543 | 311 |
| 73.2 | 7 | 858 | 190 | 803 | 208 | 744 | 231 | 682 | 257 | 643 | 275 | 561 | 317 |
| 13.2 | 8 | 885 | 194 | 828 | 213 | 767 | 235 | 703 | 262 | 663 | 281 | 580 | 324 |
| | 9 | 911 | 198 | 853 | 217 | 790 | 240 | 725 | 268 | 684 | 287 | 598 | 330 |
| | 10 | 938 | 202 | 878 | 221 | 814 | 245 | 747 | 273 | 705 | 292 | 617 | 336 |
| | 5 | 864 | 195 | 807 | 214 | 747 | 236 | 683 | 264 | 644 | 283 | 560 | 327 |
| | 6 | 892 | 199 | 833 | 218 | 771 | 241 | 706 | 269 | 665 | 288 | 579 | 333 |
| 80.2 | 7 | 920 | 203 | 860 | 222 | 796 | 246 | 729 | 274 | 687 | 294 | 599 | 339 |
| 0U.Z | 8 | 947 | 207 | 885 | 227 | 819 | 251 | 750 | 280 | 707 | 300 | 617 | 345 |
| | 9 | 974 | 210 | 910 | 231 | 842 | 256 | 771 | 285 | 727 | 305 | 635 | 352 |
| | 10 | 1001 | 214 | 935 | 235 | 865 | 260 | 793 | 290 | 747 | 311 | 653 | 358 |
| | 5 | 946 | 211 | 886 | 230 | 821 | 254 | 753 | 283 | 710 | 303 | 620 | 349 |
| | 6 | 976 | 215 | 914 | 235 | 848 | 259 | 778 | 289 | 734 | 309 | 641 | 356 |
| 85.2 | 7 | 1007 | 219 | 943 | 240 | 875 | 265 | 803 | 294 | 758 | 315 | 663 | 363 |
| 03.2 | 8 | 1038 | 224 | 972 | 244 | 902 | 270 | 828 | 300 | 782 | 321 | 684 | 370 |
| | 9 | 1069 | 228 | 1001 | 249 | 929 | 275 | 853 | 307 | 806 | 328 | 706 | 377 |
| | 10 | 1101 | 233 | 1031 | 255 | 956 | 281 | 878 | 313 | 830 | 334 | 727 | 384 |
| | 5 | 1002 | 234 | 936 | 256 | 866 | 283 | 792 | 315 | 746 | 338 | 647 | 389 |
| | 6 | 1034 | 239 | 966 | 261 | 894 | 289 | 818 | 322 | 770 | 345 | 669 | 397 |
| 00.2 | 7 | 1066 | 244 | 996 | 267 | 922 | 295 | 844 | 329 | 795 | 352 | 691 | 405 |
| 90.2 | 8 | 1097 | 249 | 1026 | 272 | 950 | 301 | 869 | 336 | 819 | 359 | 713 | 413 |
| | 9 | 1129 | 254 | 1055 | 278 | 977 | 308 | 894 | 342 | 842 | 366 | 734 | 421 |
| | 10 | 1161 | 259 | 1084 | 284 | 1004 | 314 | 919 | 349 | 866 | 373 | 755 | 429 |
| | 5 | 1072 | 245 | 1001 | 268 | 926 | 296 | 846 | 330 | 796 | 354 | 691 | 408 |
| | 6 | 1105 | 249 | 1032 | 273 | 954 | 302 | 872 | 336 | 821 | 360 | 713 | 416 |
| OF 2 | 7 | 1138 | 254 | 1062 | 278 | 982 | 308 | 898 | 343 | 845 | 367 | 735 | 423 |
| 95.2 | 8 | 1170 | 259 | 1092 | 283 | 1010 | 313 | 923 | 349 | 869 | 374 | 756 | 431 |
| | 9 | 1202 | 264 | 1122 | 289 | 1037 | 319 | 948 | 356 | 893 | 381 | 778 | 439 |
| | 10 | 1234 | 269 | 1152 | 294 | 1065 | 326 | 974 | 363 | 917 | 388 | 799 | 447 |
| | 5 | 1128 | 253 | 1055 | 277 | 976 | 306 | 894 | 342 | 842 | 366 | 733 | 423 |
| | 6 | 1164 | 258 | 1088 | 283 | 1008 | 313 | 923 | 349 | 870 | 374 | 758 | 431 |
| 100.0 | 7 | 1201 | 263 | 1123 | 288 | 1040 | 319 | 953 | 356 | 898 | 381 | 783 | 440 |
| 100.2 | 8 | 1237 | 268 | 1157 | 294 | 1072 | 325 | 982 | 363 | 926 | 389 | 809 | 448 |
| | 9 | 1274 | 273 | 1191 | 300 | 1103 | 332 | 1011 | 370 | 954 | 396 | 834 | 456 |
| | 10 | 1310 | 279 | 1224 | 306 | 1134 | 338 | 1040 | 377 | 981 | 404 | 858 | 465 |

(*) For HT version only

All data refers to the base versions

Pf: cooling power [kW]

Pr: electric power absorbed by compressors [kW]
Pr: condenser heat power [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



| | | | | | EX | TERNAL A | AIR TEMP | ERATURE | [°C] | | | | |
|-------|------|------|-----|------|-----|----------|----------|---------|------|------|-----|------|-----|
| Model | To | 2 | 5 | 3 | 0 | 3 | 5 | 4 | 0 | 4 | 5 | 49 | * |
| | [°C] | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe | Pf | Pe |
| | 5 | 1204 | 273 | 1127 | 299 | 1045 | 332 | 957 | 371 | 902 | 397 | 786 | 460 |
| | 6 | 1238 | 277 | 1159 | 305 | 1074 | 338 | 985 | 377 | 929 | 405 | 810 | 468 |
| 115.2 | 7 | 1272 | 282 | 1191 | 310 | 1104 | 344 | 1012 | 384 | 955 | 412 | 834 | 476 |
| 113.2 | 8 | 1308 | 288 | 1225 | 316 | 1136 | 351 | 1042 | 392 | 983 | 420 | 859 | 485 |
| | 9 | 1345 | 293 | 1259 | 322 | 1168 | 358 | 1071 | 400 | 1011 | 428 | 884 | 494 |
| | 10 | 1382 | 299 | 1293 | 329 | 1200 | 365 | 1101 | 408 | 1039 | 437 | 910 | 503 |
| | 5 | 1326 | 305 | 1239 | 336 | 1147 | 373 | 1049 | 417 | 987 | 448 | 857 | 519 |
| | 6 | 1363 | 311 | 1274 | 342 | 1179 | 380 | 1078 | 425 | 1015 | 456 | 882 | 528 |
| 120.2 | 7 | 1400 | 316 | 1308 | 348 | 1211 | 387 | 1108 | 433 | 1043 | 465 | 907 | 538 |
| 120.2 | 8 | 1439 | 323 | 1345 | 355 | 1245 | 395 | 1140 | 442 | 1074 | 474 | 934 | 548 |
| | 9 | 1479 | 329 | 1382 | 362 | 1280 | 403 | 1172 | 451 | 1104 | 483 | 961 | 558 |
| | 10 | 1519 | 335 | 1420 | 370 | 1315 | 411 | 1204 | 460 | 1135 | 493 | 989 | 569 |
| | 5 | 1415 | 335 | 1351 | 371 | 1281 | 410 | 1206 | 455 | 1158 | 485 | 1056 | 551 |
| | 6 | 1454 | 340 | 1388 | 375 | 1316 | 415 | 1239 | 460 | 1190 | 490 | 1086 | 557 |
| 130.2 | 7 | 1492 | 344 | 1425 | 380 | 1351 | 420 | 1272 | 465 | 1222 | 495 | 1115 | 563 |
| 130.2 | 8 | 1534 | 349 | 1464 | 385 | 1389 | 425 | 1308 | 471 | 1256 | 501 | 1146 | 569 |
| | 9 | 1577 | 354 | 1505 | 390 | 1427 | 431 | 1344 | 477 | 1291 | 507 | 1178 | 576 |
| | 10 | 1620 | 359 | 1545 | 395 | 1466 | 437 | 1380 | 483 | 1326 | 514 | 1210 | 583 |
| | 5 | 1448 | 349 | 1382 | 386 | 1311 | 427 | 1235 | 473 | 1187 | 504 | 1085 | 572 |
| | 6 | 1487 | 353 | 1420 | 390 | 1347 | 432 | 1269 | 478 | 1219 | 509 | 1115 | 578 |
| 140.2 | 7 | 1526 | 358 | 1457 | 395 | 1382 | 437 | 1302 | 484 | 1251 | 515 | 1144 | 584 |
| 140.2 | 8 | 1569 | 363 | 1497 | 401 | 1420 | 443 | 1338 | 490 | 1286 | 521 | 1175 | 590 |
| | 9 | 1612 | 368 | 1538 | 406 | 1459 | 448 | 1374 | 496 | 1321 | 527 | 1207 | 596 |
| | 10 | 1655 | 374 | 1579 | 412 | 1498 | 454 | 1411 | 502 | 1356 | 533 | 1239 | 603 |
| | 5 | 1477 | 362 | 1411 | 400 | 1339 | 443 | 1262 | 491 | 1214 | 523 | 1112 | 593 |
| | 6 | 1517 | 367 | 1448 | 406 | 1374 | 449 | 1296 | 497 | 1246 | 528 | 1141 | 599 |
| 1E0.4 | 7 | 1557 | 372 | 1486 | 411 | 1410 | 454 | 1329 | 502 | 1278 | 534 | 1170 | 604 |
| 150.4 | 8 | 1600 | 377 | 1527 | 417 | 1449 | 460 | 1365 | 508 | 1313 | 540 | 1202 | 610 |
| | 9 | 1643 | 383 | 1568 | 422 | 1488 | 466 | 1402 | 514 | 1348 | 546 | 1234 | 617 |
| | 10 | 1687 | 389 | 1610 | 428 | 1527 | 472 | 1438 | 521 | 1383 | 553 | 1266 | 623 |

n.a. not available (*) For HT version only

All data refers to the base versions

An additional of the base versions

Pf: cooling power [kW]

Pe: electric power absorbed by compressors [kW]

Pr: condenser heat power [kW]

T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



Kappa V Evo A /SLN - heating capacities

| | | | | INPUT W | ATER TEMPI | RATURE TO | CONDENSE | R [°C] | | |
|-------|-----------|----------|------------|----------|------------|-----------|----------|----------|-----|-----------|
| Model | Ta | RH | 3 | 0 | 3 | 5 | 4 | 0 | 4 | 5 |
| | [°C] | % | Pt | Pe | Pt | Pe | Pt | Pe | Pt | Pe |
| | -10 | 95 | 161 | 45 | 158 | 49 | 157 | 54 | 156 | 61 |
| | -5 | 90 | 173 | 47 | 171 | 50 | 170 | 56 | 169 | 63 |
| 23.1 | 0 | 90 | 203 | 49 | 202 | 53 | 200 | 59 | 199 | 66 |
| 23.1 | 5 | 80 | 225 | 51 | 222 | 55 | 218 | 61 | 217 | 69 |
| | 7 | 70 | 238 | 52 | 234 | 56 | 231 | 62 | 229 | 70 |
| | 10 | 70 | 258 | 53 | 254 | 58 | 250 | 64 | 247 | 72 |
| | -10 | 95 | 153 | 44 | 151 | 47 | 151 | 53 | 155 | 64 |
| | -5 | 90 | 167 | 45 | 164 | 48 | 164 | 54 | 167 | 65 |
| | 0 | 90 | 195 | 47 | 191 | 51 | 190 | 57 | 192 | 67 |
| 23.2 | 5 | 80 | 217 | 49 | 213 | 53 | 211 | 59 | 212 | 69 |
| | 7 | 70 | 229 | 50 | 225 | 54 | 223 | 60 | 223 | 70 |
| | 10 | 70 | 248 | 52 | 243 | 56 | 240 | 62 | 239 | 72 |
| | -10 | 95 | 182 | 51 | 179 | 55 | 178 | 62 | 178 | 70 |
| | -5 | 90 | 199 | 53 | 197 | 57 | 195 | 63 | 194 | 72 |
| | 0 | 90 | 232 | 55 55 | 229 | 60 | 226 | 67 | 225 | 75 |
| 25.1 | 5 | 80 | 256 | 57 | 251 | 62 | 248 | 69 | 247 | 73 78 |
| | 7 | 70 | 269 | 57 58 | 266 | 63 | 263 | 70 | 261 | 76 79 |
| | 10 | 70 | 209 | 56 59 | 287 | 65 | 283 | 70 72 | 279 | 79 81 |
| | -10 | 70 95 | 178 | 59 51 | 176 | 56 | 176 | 63 | 181 | 76 |
| | -10 -5 | 90 | 176 | 53 | 192 | 50 57 | 192 | 64 | 196 | |
| | | 90 | | | | 57 60 | | | | 77 |
| 25.2 | 0 | | 222 | 55 F0 | 219 | | 218 | 67 | 221 | 79 |
| | 5 | 80 | 255 | 58 | 249 | 63 | 248 | 70 | 250 | 82 |
| | 7 | 70 | 262 | 59 | 259 | 64 | 257 | 71 | 259 | 83 |
| | 10 | 70 | 283 | 61 | 279 | 66 | 277 | 73 | 278 | 85 |
| | -10 | 95 | 205 | 57 | 203 | 61 | 201 | 68 | 199 | 77 |
| | -5 | 90 | 224 | 58 | 221 | 63 | 218 | 70 | 216 | 79 |
| 28.1 | 0 | 90 | 262 | 61 | 257 | 66 | 253 | 73 | 252 | 83 |
| | 5 | 80 | 285 | 63 | 281 | 68 | 279 | 76 | 277 | 85 |
| | 7 | 70 | 302 | 64 | 298 | 70 | 295 | 78 | 293 | 87 |
| | 10 | 70 | 320 | 66 | 317 | 72 | 311 | 79 | 310 | 90 |
| | -10 | 95 | 207 | 58 | 204 | 62 | 204 | 71 | 208 | 84 |
| | -5 | 90 | 226 | 59 | 222 | 64 | 221 | 72 | 224 | 85 |
| 28.2 | 0 | 90 | 263 | 63 | 259 | 67 | 256 | 75 | 258 | 88 |
| 20.2 | 5 | 80 | 287 | 65 | 283 | 70 | 282 | 78 | 284 | 91 |
| | 7 | 70 | 304 | 66 | 300 | 71 | 297 | 80 | 297 | 92 |
| | 10 | 70 | 321 | 68 | 317 | 73 | 315 | 81 | 315 | 94 |
| | -10 | 95 | 223 | 62 | 215 | 66 | 212 | 73 | 216 | 83 |
| | -5 | 90 | 240 | 63 | 239 | 69 | 233 | 76 | 234 | 86 |
| 31.1 | 0 | 90 | 279 | 66 | 276 | 72 | 272 | 79 | 270 | 89 |
| 31.1 | 5 | 80 | 307 | 68 | 304 | 74 | 301 | 82 | 299 | 93 |
| | 7 | 70 | 326 | 70 | 322 | 76 | 319 | 84 | 317 | 95 |
| | 10 | 70 | 350 | 72 | 347 | 78 | 341 | 86 | 338 | 97 |
| | -10 | 95 | 219 | 62 | 216 | 66 | 215 | 74 | 217 | 86 |
| | -5 | 90 | 240 | 64 | 236 | 68 | 234 | 76 | 236 | 88 |
| 24.0 | 0 | 90 | 279 | 67 | 274 | 72 | 273 | 80 | 273 | 92 |
| 31.2 | 5 | 80 | 305 | 69 | 301 | 75 | 299 | 83 | 300 | 95 |
| | 7 | 70 | 322 | 71 | 319 | 77 | 317 | 85 | 317 | 97 |
| | 10 | 70 | 344 | 72 | 341 | 79 | 337 | 87 | 336 | 99 |
| | -10 | 95 | 235 | 66 | 233 | 71 | 231 | 79 | 232 | 89 |
| | -5 | 90 | 254 | 68 | 252 | 73 | 251 | 73 81 | 252 | 92 |
| | 0 | 90 | 297 | 71 | 296 | 77 | 295 | 86 | 294 | 96 |
| 33.2 | 5 | 80 | 323 | 73 | 320 | 77 79 | 315 | 88 | 316 | 99 |
| | 7 | 70 | 340 | 73 74 | 336 | 79 81 | 333 | 89 | 332 | 99 101 |
| | 10 | 70 | 340 369 | 74 76 | 364 | 83 | 359 | 92 | 357 | 101 |

^(*) For HT version only

All data refers to the base versions
Pt: heat power [kW]
Pe: power absorbed by compressors [kW]
Ta: Dry bulb temperature of the evaporator inlet air [°C]
RH: relative humidity of the input air at the evaporator [%]



Kappa V Evo A /SLN - heating capacities

| | | | | | | | CONDENSE | | | _ |
|-------|-----------|----------|------------|-----|------------|-----|------------|------------|------------|-----|
| Model | Ta | RH | 3 | | | 5 | | 0 | | 5 |
| | [°C] | % | Pt | Pe | Pt | Pe | Pt | Pe | Pt | Pe |
| | -10 | 95 | 252 | 71 | 249 | 77 | 246 | 85 | 246 | 96 |
| | -5 | 90 | 277 | 73 | 272 | 79 | 270 | 88 | 268 | 99 |
| 35.2 | 0 | 90 | 322 | 77 | 318 | 84 | 315 | 93 | 312 | 105 |
| 00.2 | 5 | 80 | 356 | 80 | 351 | 87 | 347 | 96 | 345 | 108 |
| | 7 | 70 | 378 | 81 | 372 | 88 | 368 | 98 | 364 | 111 |
| | 10 | 70 | 408 | 83 | 402 | 91 | 395 | 101 | 391 | 113 |
| | -10 | 95 | 263 | 75 | 259 | 81 | 257 | 90 | 257 | 102 |
| | -5 | 90 | 288 | 77 | 284 | 84 | 281 | 93 | 281 | 105 |
| 37.2 | 0 | 90 | 337 | 82 | 333 | 89 | 330 | 98 | 328 | 111 |
| J7.2 | 5 | 80 | 372 | 84 | 365 | 91 | 361 | 101 | 359 | 114 |
| | 7 | 70 | 392 | 86 | 387 | 93 | 382 | 104 | 380 | 117 |
| | 10 | 70 | 424 | 88 | 418 | 96 | 413 | 106 | 408 | 120 |
| | -10 | 95 | 297 | 82 | 292 | 89 | 290 | 98 | 288 | 111 |
| | -5 | 90 | 325 | 85 | 320 | 91 | 317 | 101 | 315 | 114 |
| 40.2 | 0 | 90 | 378 | 89 | 373 | 96 | 368 | 107 | 365 | 120 |
| 4U.Z | 5 | 80 | 421 | 92 | 413 | 100 | 408 | 111 | 404 | 124 |
| | 7 | 70 | 444 | 94 | 437 | 102 | 432 | 113 | 427 | 127 |
| | 10 | 70 | 480 | 96 | 472 | 104 | 464 | 116 | 459 | 130 |
| | -10 | 95 | 306 | 86 | 301 | 93 | 299 | 102 | 298 | 115 |
| | -5 | 90 | 335 | 89 | 330 | 96 | 327 | 106 | 325 | 119 |
| 40.0 | 0 | 90 | 389 | 93 | 384 | 101 | 380 | 112 | 377 | 126 |
| 43.2 | 5 | 80 | 433 | 97 | 426 | 105 | 421 | 116 | 418 | 131 |
| | 7 | 70 | 456 | 99 | 450 | 107 | 445 | 119 | 441 | 133 |
| | 10 | 70 | 494 | 101 | 486 | 110 | 479 | 122 | 474 | 137 |
| | -10 | 95 | 343 | 96 | 339 | 104 | 330 | 114 | 330 | 129 |
| | -5 | 90 | 372 | 99 | 366 | 107 | 363 | 118 | 360 | 133 |
| | 0 | 90 | 432 | 104 | 426 | 113 | 422 | 125 | 419 | 141 |
| 47.2 | 5 | 80 | 474 | 108 | 465 | 117 | 462 | 130 | 460 | 146 |
| | 7 | 70 | 495 | 110 | 492 | 119 | 489 | 132 | 487 | 149 |
| | 10 | 70 | 524 | 112 | 525 | 122 | 522 | 135 | 515 | 152 |
| | -10 | 95 | 357 | 102 | 351 | 110 | 350 | 122 | 350 | 138 |
| | -5 | 90 | 382 | 104 | 379 | 113 | 378 | 125 | 377 | 141 |
| | 0 | 90 | 453 | 110 | 448 | 120 | 445 | 132 | 444 | 149 |
| 28.1 | 5 | 80 | 492 | 113 | 485 | 123 | 480 | 136 | 476 | 153 |
| | 7 | 70 | 518 | 115 | 511 | 125 | 506 | 139 | 503 | 156 |
| | 10 | 70 | 562 | 118 | 554 | 129 | 546 | 142 | 542 | 160 |
| | -10 | 95 | 388 | 111 | 381 | 120 | 378 | 133 | 377 | 150 |
| | -5 | 90 | 415 | 114 | 412 | 123 | 411 | 137 | 411 | 154 |
| | 0 | 90 | 486 | 120 | 482 | 130 | 480 | 144 | 480 | 162 |
| 51.2 | 5 | 80 | 524 | 123 | 512 | 133 | 514 | 144 | 509 | 166 |
| | 7 | 70 | 524 547 | 125 | 539 | 135 | 534 | 150 | 533 | 169 |
| | 10 | 70 | 547 591 | 128 | 584 | 139 | 534 579 | 155 | 575 | 174 |
| | -10 | 95 | 394 | 116 | 390 | 125 | 388 | 139 | 389 | 158 |
| | -10 -5 | 90 | 394 430 | 119 | | 125 | | 144 | 424 | |
| | -5 0 | | | | 425 | | 423 | | | 163 |
| 54.1 | | 90 | 498 EGO | 125 | 492 | 136 | 489 | 151 157 | 489 | 171 |
| | 5 7 | 80 70 | 560 E0E | 130 | 550 577 | 141 | 544 572 | 157 | 541 571 | 177 |
| | | 70 | 585 | 132 | 577 | 143 | 572 | 160 | 571 | 180 |
| | 10 | 70 | 633 | 135 | 625 | 148 | 620 | 164 | 615 | 185 |
| | -10 | 95 | 455 | 131 | 451 | 142 | 445 | 157 | 445 | 178 |
| | -5 | 90 | 498 | 134 | 491 | 146 | 487 | 162 | 486 | 183 |
| 61.2 | 0 | 90 | 589 | 142 | 581 | 154 | 576 | 172 | 574 | 194 |
| | 5 7 | 80 | 646 | 146 | 637 | 159 | 628 | 177 | 623 | 200 |
| | | 70 | 681 | 149 | 671 | 162 | 663 | 180 | 659 | 204 |

All data refers to the base versions

Pt: heat power [kW]
Pe: power absorbed by compressors [kW]
Ta: Dry bulb temperature of the evaporator inlet air [°C]
RH: relative humidity of the input air at the evaporator [%]



Kappa V Evo A /SLN - heating capacities

| | | | | INPUT W | ATER TEMP | ERATURE TO | CONDENSE | R [°C] | | |
|-------|------|----|-----|---------|-----------|------------|----------|--------|-----|-----|
| Model | Ta | RH | 3 | 0 | 3 | 5 | 4 | 0 | 4 | 5 |
| | [°C] | % | Pt | Pe | Pt | Pe | Pt | Pe | Pt | Pe |
| | -10 | 95 | 455 | 131 | 451 | 142 | 445 | 157 | 445 | 178 |
| | -5 | 90 | 498 | 134 | 491 | 146 | 487 | 162 | 486 | 183 |
| 70.2 | 0 | 90 | 589 | 142 | 581 | 154 | 576 | 172 | 574 | 194 |
| 70.2 | 5 | 80 | 646 | 146 | 637 | 159 | 628 | 177 | 623 | 200 |
| | 7 | 70 | 681 | 149 | 671 | 162 | 663 | 180 | 659 | 204 |
| | 10 | 70 | 739 | 153 | 728 | 167 | 718 | 185 | 710 | 209 |
| | -10 | 95 | 476 | 135 | 469 | 146 | 467 | 163 | 465 | 184 |
| | -5 | 90 | 516 | 139 | 510 | 150 | 507 | 167 | 507 | 190 |
| 72.2 | 0 | 90 | 610 | 146 | 603 | 159 | 599 | 177 | 597 | 201 |
| 73.2 | 5 | 80 | 671 | 151 | 662 | 165 | 654 | 183 | 649 | 207 |
| | 7 | 70 | 705 | 154 | 695 | 167 | 688 | 186 | 684 | 211 |
| | 10 | 70 | 764 | 158 | 754 | 172 | 745 | 192 | 739 | 217 |
| | -10 | 95 | 497 | 143 | 490 | 155 | 488 | 172 | 489 | 195 |
| | -5 | 90 | 540 | 147 | 534 | 159 | 531 | 177 | 532 | 201 |
| 80.2 | 0 | 90 | 627 | 154 | 618 | 167 | 614 | 186 | 613 | 210 |
| 00.2 | 5 | 80 | 701 | 160 | 691 | 174 | 684 | 193 | 682 | 218 |
| | 7 | 70 | 734 | 162 | 722 | 176 | 716 | 196 | 714 | 222 |
| | 10 | 70 | 790 | 166 | 781 | 181 | 775 | 202 | 772 | 228 |

(*) For HT version only

All data refers to the base versions

Pt: heat power [kW]

Te: Dry bulb temperature of the evaporator inlet air [°C]
RH: relative humidity of the input air at the evaporator [%]



Kappa V Evo A /DC - heating capacity in recovery

| | | | | | 0 U1 | PUT W | ATER TE | MPERA | TURE FF | ROM CO | NDENSE | R [°C] | | | | |
|-------|------|-----|----|-----|-------------|----------|---------|-------|----------|--------|--------|--------|-----|-----|-------------|-----|
| Model | То | | 35 | | | 40 | | | 45 | | | 50 | | | 55 * | |
| | [°C] | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr |
| | 6 | 279 | 57 | 335 | 261 | 62 | 323 | 243 | 68 | 311 | 224 | 76 | 300 | 204 | 85 | 289 |
| | 7 | 289 | 57 | 346 | 271 | 62 | 333 | 252 | 69 | 321 | 232 | 76 | 309 | 212 | 86 | 297 |
| 23.1 | 8 | 299 | 58 | 357 | 281 | 63 | 344 | 262 | 69 | 331 | 241 | 77 | 318 | 220 | 86 | 307 |
| | 9 | 310 | 58 | 368 | 291 | 63 | 354 | 271 | 70 | 341 | 250 | 78 | 328 | 229 | 87 | 316 |
| | 10 | 321 | 59 | 379 | 301 | 64 | 365 | 281 | 70 | 351 | 260 | 78 | 338 | 238 | 88 | 325 |
| | 6 | 267 | 55 | 322 | 250 | 59 | 310 | 233 | 66 | 299 | 214 | 75 | 289 | 195 | 88 | 283 |
| | 7 | 277 | 56 | 333 | 260 | 60 | 320 | 242 | 66 | 308 | 223 | 75 | 298 | 203 | 88 | 291 |
| 23.2 | 8 | 288 | 56 | 344 | 270 | 61 | 331 | 251 | 67 | 318 | 232 | 76 | 308 | 212 | 88 | 300 |
| | 9 | 298 | 56 | 355 | 280 | 61 | 341 | 261 | 67 | 328 | 241 | 76 | 317 | 220 | 89 | 30 |
| | 10 | 309 | 57 | 366 | 291 | 62 | 352 | 271 | 68 | 339 | 251 | 77 | 327 | 229 | 89 | 318 |
| | 6 | 327 | 62 | 389 | 307 | 68 | 375 | 286 | 75 | 360 | 263 | 84 | 347 | 239 | 95 | 33 |
| | 7 | 339 | 63 | 402 | 318 | 68 | 387 | 296 | 76 | 372 | 273 | 85 | 358 | 249 | 95 | 34 |
| 25.1 | 8 | 351 | 63 | 414 | 330 | 69 | 399 | 307 | 76 | 384 | 284 | 85 | 369 | 259 | 96 | 35! |
| 25.1 | 9 | 364 | 64 | 427 | 342 | 69 | 411 | 319 | 77 | 396 | 295 | 86 | 380 | 269 | 97 | 36 |
| | 10 | 377 | 64 | 441 | 354 | 70 | 424 | 330 | 77 | 408 | 306 | 87 | 392 | 280 | 97 | 37 |
| | 6 | 332 | 65 | 397 | 311 | 70 | 381 | 289 | 77 | 367 | 266 | 88 | 354 | 242 | 103 | 34 |
| | 7 | 344 | 66 | 410 | 323 | 71 | 394 | 301 | 77 78 | 379 | 277 | 89 | 366 | 252 | 103 | 35 |
| 25.2 | 8 | 357 | 66 | 423 | 335 | 71 | 407 | 312 | 70 79 | 391 | 288 | 89 | 377 | 263 | 104 | 36 |
| 23.2 | | | | | | | | | | | | | | | | |
| | 9 | 370 | 67 | 437 | 348 | 72 | 420 | 324 | 79 | 404 | 299 | 90 | 389 | 273 | 104 | 37 |
| | 10 | 384 | 67 | 451 | 361 | 73 | 434 | 336 | 80 | 417 | 311 | 90 | 401 | 284 | 105 | 38 |
| | 6 | 343 | 68 | 412 | 322 | 74 | 396 | 299 | 82 | 381 | 275 | 92 | 367 | 250 | 104 | 35 |
| 00.4 | 7 | 356 | 69 | 425 | 334 | 75 70 | 409 | 310 | 83 | 393 | 286 | 93 | 379 | 260 | 105 | 36 |
| 28.1 | 8 | 369 | 69 | 439 | 346 | 76 | 422 | 322 | 84 | 406 | 297 | 94 | 391 | 271 | 106 | 37 |
| | 9 | 383 | 70 | 453 | 359 | 76 | 436 | 335 | 84 | 419 | 309 | 94 | 403 | 282 | 106 | 38 |
| | 10 | 397 | 71 | 467 | 373 | 77 | 449 | 347 | 85 | 432 | 321 | 95 | 416 | 293 | 107 | 40 |
| | 6 | 347 | 71 | 418 | 325 | 76 | 402 | 302 | 84 | 387 | 278 | 96 | 374 | 253 | 113 | 36 |
| | 7 | 360 | 71 | 432 | 338 | 77 | 415 | 314 | 85 | 399 | 289 | 97 | 386 | 264 | 113 | 37 |
| 28.2 | 8 | 373 | 72 | 446 | 350 | 78 | 428 | 326 | 86 | 412 | 301 | 97 | 398 | 274 | 114 | 38 |
| | 9 | 387 | 73 | 460 | 364 | 78 | 442 | 339 | 86 | 425 | 313 | 98 | 411 | 285 | 114 | 40 |
| | 10 | 401 | 73 | 475 | 377 | 79 | 456 | 351 | 87 | 439 | 325 | 99 | 423 | 297 | 115 | 41 |
| | 6 | 375 | 74 | 450 | 352 | 81 | 433 | 327 | 90 | 416 | 301 | 100 | 401 | 273 | 113 | 38 |
| | 7 | 389 | 75 | 465 | 365 | 82 | 447 | 339 | 90 | 430 | 312 | 101 | 414 | 285 | 114 | 39 |
| 31.1 | 8 | 404 | 76 | 480 | 379 | 83 | 462 | 353 | 91 | 444 | 325 | 102 | 427 | 296 | 115 | 41 |
| | 9 | 419 | 76 | 496 | 394 | 83 | 477 | 366 | 92 | 458 | 338 | 103 | 441 | 308 | 116 | 42 |
| | 10 | 435 | 77 | 512 | 409 | 84 | 492 | 381 | 93 | 473 | 351 | 104 | 455 | 321 | 117 | 43 |
| | 6 | 379 | 76 | 455 | 355 | 82 | 437 | 330 | 91 | 421 | 303 | 102 | 406 | 276 | 118 | 39 |
| | 7 | 394 | 76 | 470 | 369 | 83 | 452 | 343 | 92 | 435 | 316 | 103 | 419 | 287 | 119 | 40 |
| 31.2 | 8 | 408 | 77 | 485 | 383 | 84 | 467 | 356 | 92 | 449 | 328 | 104 | 432 | 299 | 119 | 41 |
| | 9 | 424 | 78 | 501 | 397 | 84 | 482 | 370 | 93 | 463 | 341 | 105 | 446 | 311 | 120 | 43 |
| | 10 | 439 | 78 | 518 | 413 | 85 | 498 | 384 | 94 | 478 | 355 | 106 | 460 | 324 | 121 | 44 |
| | 6 | 402 | 81 | 483 | 377 | 89 | 465 | 350 | 98 | 448 | 322 | 110 | 432 | 293 | 124 | 41 |
| | 7 | 417 | 82 | 499 | 391 | 89 | 480 | 364 | 99 | 463 | 335 | 110 | 446 | 305 | 125 | 43 |
| 33.2 | 8 | 433 | 83 | 515 | 406 | 90 | 496 | 378 | 100 | 477 | 348 | 111 | 460 | 318 | 126 | 44 |
| | 9 | 449 | 83 | 532 | 421 | 91 | 512 | 392 | 100 | 493 | 362 | 112 | 474 | 331 | 127 | 45 |
| | 10 | 466 | 84 | 550 | 437 | 92 | 529 | 408 | 101 | 509 | 376 | 113 | 490 | 344 | 128 | 47 |
| | 6 | 438 | 87 | 525 | 411 | 95 | 506 | 382 | 105 | 487 | 352 | 118 | 469 | 320 | 133 | 45 |
| | 7 | 454 | 88 | 543 | 426 | 96 | 522 | 397 | 106 | 503 | 366 | 119 | 485 | 333 | 134 | 46 |
| 35.2 | 8 | 472 | 89 | 560 | 443 | 97 | 539 | 412 | 107 | 519 | 381 | 120 | 500 | 347 | 135 | 48 |
| 00.2 | 9 | 489 | 90 | 579 | 460 | 98 | 557 | 428 | 108 | 536 | 396 | 121 | 516 | 362 | 136 | 49 |
| | 10 | 507 | 90 | 598 | 477 | 98 | 575 | 445 | 109 | 553 | 411 | 122 | 533 | 376 | 137 | 51 |

^{*} For HT version only

All data refers to the base versions

All data felies to the basis formal.

Pf: cooling power [kW]

Pe: electric power absorbed by compressors [kW]

Pr: recovery condenser heat power [kW]

T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



Kappa V Evo A /DC - heating capacity in recovery

| | | | | | UU | | ATER TE | MPEKA | | KUM CUI | ADEM2E | K [°C] | | | | |
|-------|------|------|-----|------|-----|-----|---------|-------|-----|---------|--------|--------|------|-----|-------------|-----|
| Model | To | | 35 | | | 40 | | | 45 | | | 50 | | | 55 * | |
| | [°C] | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr |
| | 6 | 473 | 93 | 566 | 443 | 101 | 545 | 412 | 112 | 524 | 380 | 125 | 505 | 345 | 145 | 491 |
| | 7 | 491 | 94 | 585 | 460 | 102 | 563 | 428 | 113 | 541 | 395 | 127 | 522 | 360 | 146 | 506 |
| 37.2 | 8 | 509 | 95 | 604 | 478 | 103 | 581 | 445 | 114 | 559 | 411 | 128 | 538 | 374 | 147 | 521 |
| | 9 | 528 | 96 | 624 | 496 | 104 | 600 | 462 | 115 | 577 | 427 | 129 | 555 | 390 | 147 | 537 |
| | 10 | 548 | 96 | 644 | 515 | 105 | 620 | 480 | 116 | 596 | 444 | 130 | 573 | 405 | 148 | 550 |
| | 6 | 522 | 100 | 622 | 490 | 109 | 599 | 456 | 120 | 577 | 421 | 135 | 556 | 384 | 152 | 536 |
| | 7 | 540 | 101 | 641 | 508 | 110 | 617 | 473 | 121 | 595 | 437 | 136 | 573 | 399 | 153 | 55 |
| 40.2 | 8 | 559 | 101 | 660 | 525 | 111 | 636 | 490 | 122 | 612 | 453 | 137 | 590 | 414 | 154 | 56 |
| | 9 | 578 | 102 | 680 | 544 | 111 | 655 | 507 | 123 | 630 | 469 | 138 | 607 | 429 | 155 | 58 |
| | 10 | 598 | 103 | 701 | 562 | 112 | 675 | 525 | 124 | 649 | 486 | 139 | 625 | 445 | 156 | 60 |
| | 6 | 548 | 107 | 655 | 515 | 116 | 631 | 480 | 128 | 608 | 443 | 143 | 586 | 404 | 161 | 56 |
| | 7 | 568 | 108 | 676 | 534 | 117 | 651 | 498 | 129 | 627 | 460 | 144 | 604 | 420 | 162 | 58 |
| 43.2 | 8 | 588 | 109 | 696 | 552 | 118 | 671 | 515 | 130 | 646 | 476 | 146 | 622 | 436 | 163 | 59 |
| | 9 | 608 | 109 | 717 | 572 | 119 | 691 | 534 | 132 | 665 | 493 | 147 | 640 | 452 | 165 | 61 |
| | 10 | 629 | 110 | 739 | 592 | 120 | 712 | 553 | 133 | 685 | 511 | 148 | 659 | 468 | 166 | 63 |
| | 6 | 597 | 119 | 717 | 561 | 130 | 691 | 522 | 143 | 665 | 481 | 160 | 641 | 439 | 180 | 61 |
| | 7 | 617 | 120 | 738 | 580 | 131 | 711 | 541 | 145 | 685 | 499 | 161 | 660 | 456 | 181 | 63 |
| 47.2 | 8 | 639 | 121 | 760 | 600 | 132 | 732 | 560 | 146 | 706 | 517 | 163 | 680 | 473 | 183 | 65 |
| 47.2 | 9 | 661 | 122 | 783 | 621 | 133 | 754 | 580 | 147 | 727 | 536 | 164 | 700 | 491 | 184 | 67 |
| | 10 | 683 | 123 | 806 | 643 | 134 | 777 | | 147 | 748 | 555 | | 700 | 509 | | 69 |
| | | | | - | | | | 600 | | | | 165 | _ | | 185 | - |
| | 6 | 630 | 125 | 756 | 592 | 136 | 728 | 551 | 151 | 701 | 507 | 168 | 676 | 462 | 190 | 65 |
| E4.0 | 7 | 650 | 126 | 776 | 610 | 137 | 747 | 569 | 152 | 720 | 525 | 170 | 695 | 479 | 191 | 67 |
| 51.2 | 8 | 672 | 127 | 799 | 632 | 138 | 770 | 589 | 153 | 742 | 544 | 171 | 715 | 497 | 193 | 69 |
| | 9 | 695 | 128 | 823 | 653 | 139 | 792 | 609 | 154 | 763 | 564 | 172 | 736 | 516 | 194 | 71 |
| | 10 | 719 | 129 | 848 | 676 | 140 | 817 | 631 | 155 | 786 | 583 | 173 | 757 | 534 | 195 | 73 |
| | 6 | 694 | 137 | 831 | 650 | 149 | 799 | 603 | 165 | 768 | 554 | 185 | 739 | 503 | 209 | 71 |
| | 7 | 720 | 138 | 859 | 675 | 151 | 826 | 627 | 167 | 794 | 577 | 187 | 763 | 524 | 210 | 73 |
| 54.2 | 8 | 748 | 140 | 887 | 701 | 152 | 853 | 652 | 168 | 820 | 600 | 188 | 788 | 546 | 212 | 75 |
| | 9 | 776 | 141 | 917 | 728 | 153 | 881 | 677 | 170 | 847 | 625 | 190 | 814 | 569 | 214 | 78 |
| | 10 | 805 | 142 | 947 | 756 | 155 | 910 | 704 | 171 | 875 | 649 | 191 | 841 | 593 | 215 | 80 |
| | 6 | 740 | 141 | 881 | 693 | 154 | 846 | 643 | 170 | 813 | 591 | 190 | 781 | 536 | 214 | 75 |
| | 7 | 769 | 142 | 911 | 720 | 155 | 875 | 669 | 171 | 840 | 615 | 192 | 807 | 559 | 216 | 77 |
| 61.2 | 8 | 798 | 144 | 942 | 748 | 156 | 905 | 695 | 173 | 868 | 640 | 193 | 833 | 583 | 217 | 80 |
| | 9 | 829 | 145 | 973 | 777 | 158 | 935 | 723 | 174 | 897 | 666 | 195 | 861 | 607 | 219 | 82 |
| | 10 | 860 | 146 | 1006 | 806 | 159 | 966 | 751 | 176 | 927 | 692 | 196 | 889 | 632 | 221 | 85 |
| | 6 | 820 | 167 | 987 | 766 | 182 | 948 | 709 | 201 | 911 | 650 | 225 | 875 | 589 | 254 | 84 |
| | 7 | 849 | 169 | 1018 | 794 | 184 | 977 | 735 | 203 | 938 | 675 | 227 | 902 | 612 | 255 | 80 |
| 70.2 | 8 | 879 | 170 | 1049 | 822 | 185 | 1007 | 762 | 205 | 967 | 700 | 229 | 928 | 635 | 257 | 89 |
| | 9 | 910 | 171 | 1081 | 851 | 187 | 1037 | 789 | 206 | 995 | 725 | 230 | 955 | 659 | 259 | 9 |
| | 10 | 941 | 173 | 1114 | 880 | 188 | 1068 | 817 | 208 | 1024 | 751 | 232 | 983 | 683 | 261 | 94 |
| | 6 | 878 | 164 | 1042 | 822 | 179 | 1001 | 763 | 198 | 960 | 700 | 221 | 921 | 635 | 249 | 88 |
| | 7 | 912 | 166 | 1078 | 854 | 180 | 1035 | 793 | 199 | 993 | 729 | 223 | 952 | 663 | 251 | 9 |
| 73.2 | 8 | 947 | 167 | 1114 | 887 | 182 | 1069 | 824 | 201 | 1025 | 759 | 225 | 984 | 691 | 253 | 94 |
| 70.2 | 9 | 982 | 168 | 1151 | 921 | 183 | 1104 | 856 | 203 | 1059 | 788 | 227 | 1015 | 718 | 255 | 97 |
| | 10 | 1018 | 170 | 1188 | 955 | 185 | 1140 | 888 | 203 | 1092 | 818 | 228 | 1013 | 746 | 257 | 10 |
| | 6 | 943 | 188 | | 883 | 205 | 1087 | 819 | 226 | 1092 | 752 | 253 | 1047 | 682 | 285 | 90 |
| | 7 | 980 | | 1131 | | | | | | | | | | | | |
| 00.2 | | | 190 | 1169 | 918 | 207 | 1124 | 851 | 228 | 1080 | 782 | 255 | 1037 | 710 | 287 | 99 |
| 80.2 | 8 | 1016 | 191 | 1208 | 951 | 208 | 1160 | 883 | 230 | 1113 | 812 | 257 | 1069 | 738 | 289 | 10 |
| | u u | 1053 | 193 | 1245 | 985 | 210 | 1195 | 915 | 232 | 1147 | 842 | 259 | 1101 | 766 | 292 | 10 |

^{*} For HT version only

Pf: cooling power [kW]
Pe: electric power absorbed by compressors [kW]
Pr: recovery condenser heat power [kW]
T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



Kappa V Evo A /DC - heating capacity in recovery

| | | | | | OUT | PUT W | ATER TE | MPERA | TURE FF | ROM CO | NDENSE | R [°C] | | | | |
|-------------|------|------|-----|------|------|-------|---------|--------------|---------|--------|--------|--------|------|------|-----|------|
| Model | To | | 35 | | | 40 | | | 45 | | | 50 | | | 55* | |
| | [°C] | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr | Pf | Pe | Pr |
| | 6 | 961 | 188 | 1149 | 902 | 203 | 1106 | 839 | 224 | 1063 | 772 | 250 | 1022 | 701 | 282 | 982 |
| | 7 | 996 | 190 | 1185 | 935 | 206 | 1141 | 871 | 227 | 1097 | 801 | 253 | 1054 | 728 | 285 | 1013 |
| 82.2 | 8 | 1031 | 192 | 1223 | 969 | 209 | 1177 | 902 | 230 | 1132 | 831 | 257 | 1087 | 756 | 289 | 1045 |
| | 9 | 1067 | 194 | 1261 | 1003 | 211 | 1214 | 934 | 233 | 1167 | 861 | 260 | 1121 | 784 | 293 | 1076 |
| | 10 | 1104 | 197 | 1301 | 1038 | 214 | 1252 | 967 | 236 | 1203 | 892 | 263 | 1155 | 812 | 296 | 1109 |
| | 6 | 1021 | 196 | 1218 | 958 | 213 | 1171 | 891 | 235 | 1126 | 819 | 262 | 1081 | 743 | 295 | 1038 |
| | 7 | 1058 | 199 | 1257 | 993 | 216 | 1209 | 924 | 238 | 1162 | 849 | 265 | 1115 | 771 | 299 | 1070 |
| 85.2 | 8 | 1095 | 201 | 1296 | 1028 | 218 | 1247 | 956 | 241 | 1197 | 880 | 269 | 1148 | 799 | 303 | 1102 |
| | 9 | 1133 | 203 | 1336 | 1063 | 221 | 1284 | 989 | 244 | 1233 | 910 | 272 | 1182 | 827 | 307 | 1134 |
| | 10 | 1170 | 206 | 1376 | 1098 | 224 | 1322 | 1022 | 247 | 1269 | 941 | 276 | 1217 | 856 | 310 | 1166 |
| | 6 | 1101 | 214 | 1315 | 1032 | 232 | 1264 | 959 | 256 | 1214 | 880 | 286 | 1165 | 797 | 322 | 1119 |
| | 7 | 1140 | 216 | 1356 | 1068 | 235 | 1303 | 992 | 259 | 1250 | 910 | 289 | 1199 | 825 | 326 | 1151 |
| 90.2 | 8 | 1178 | 219 | 1397 | 1103 | 238 | 1341 | 1025 | 262 | 1287 | 941 | 293 | 1234 | 853 | 330 | 1183 |
| 50.E | 9 | 1216 | 221 | 1437 | 1139 | 241 | 1380 | 1058 | 265 | 1323 | 972 | 296 | 1268 | 882 | 334 | 1216 |
| | 10 | 1255 | 224 | 1478 | 1175 | 244 | 1419 | 1092 | 269 | 1361 | 1004 | 300 | 1303 | 911 | 338 | 1249 |
| | 6 | 1163 | 229 | 1392 | 1089 | 249 | 1338 | 1009 | 274 | 1283 | 925 | 306 | 1232 | 837 | 345 | 1183 |
| | 7 | 1202 | 232 | 1434 | 1126 | 251 | 1377 | 1043 | 278 | 1320 | 957 | 310 | 1267 | 866 | 349 | 1216 |
| 95.2 | 8 | 1241 | 234 | 1476 | 1162 | 254 | 1417 | 1043 | 281 | 1358 | 988 | 314 | 1302 | 896 | 354 | 1249 |
| 33.2 | 9 | 1281 | 237 | 1518 | 1200 | 257 | 1457 | 1112 | 285 | 1396 | 1021 | 318 | 1338 | 926 | 358 | 1284 |
| | 10 | 1322 | 237 | 1561 | 1238 | 260 | 1498 | 1147 | 288 | 1435 | 1054 | 322 | 1375 | 956 | 362 | 1318 |
| | 6 | 1250 | 259 | 1501 | 1174 | 271 | | 1096 | 298 | 1393 | 1007 | 333 | 1340 | 916 | 375 | 1291 |
| | | | | | | | 1446 | | | | | | | | | |
| 400.4 | 7 | 1296 | 253 | 1550 | 1218 | 274 | 1493 | 1137 | 301 | 1438 | 1046 | 337 | 1383 | 953 | 379 | 1332 |
| 100.1 | 8 | 1344 | 256 | 1600 | 1262 | 277 | 1539 | 1180 | 304 | 1484 | 1086 | 340 | 1427 | 991 | 383 | 1373 |
| | 9 | 1390 | 259 | 1649 | 1308 | 280 | 1588 | 1221 | 308 | 1529 | 1127 | 344 | 1471 | 1029 | 387 | 1416 |
| | 10 | 1440 | 261 | 1701 | 1355 | 283 | 1638 | 1265 | 312 | 1576 | 1169 | 347 | 1516 | 1068 | 391 | 1459 |
| | 6 | 1314 | 258 | 1571 | 1239 | 278 | 1517 | 1157 | 306 | 1464 | 1071 | 341 | 1412 | 976 | 386 | 1362 |
| 405.0 | 7 | 1356 | 260 | 1616 | 1279 | 281 | 1560 | 1196 | 309 | 1505 | 1107 | 345 | 1452 | 1009 | 390 | 1399 |
| 105.2 | 8 | 1403 | 262 | 1665 | 1323 | 284 | 1607 | 1238 | 312 | 1550 | 1144 | 349 | 1493 | 1047 | 393 | 1440 |
| | 9 | 1450 | 265 | 1715 | 1368 | 287 | 1654 | 1278 | 316 | 1595 | 1184 | 353 | 1537 | 1085 | 397 | 1482 |
| | 10 | 1495 | 268 | 1763 | 1411 | 290 | 1701 | 1324 | 319 | 1642 | 1226 | 356 | 1582 | 1124 | 401 | 1525 |
| | 6 | 1462 | 284 | 1746 | 1377 | 308 | 1685 | 1287 | 339 | 1625 | 1189 | 378 | 1567 | 1086 | 425 | 1512 |
| | 7 | 1508 | 287 | 1795 | 1421 | 311 | 1732 | 1328 | 342 | 1671 | 1229 | 382 | 1610 | 1123 | 430 | 1553 |
| 115.1 | 8 | 1558 | 290 | 1848 | 1469 | 314 | 1783 | 1374 | 346 | 1720 | 1271 | 386 | 1657 | 1163 | 435 | 1598 |
| | 9 | 1609 | 293 | 1902 | 1518 | 318 | 1835 | 1420 | 350 | 1770 | 1315 | 390 | 1705 | 1204 | 439 | 1643 |
| | 10 | 1661 | 296 | 1957 | 1567 | 321 | 1888 | 1467 | 354 | 1820 | 1359 | 395 | 1754 | 1245 | 444 | 1689 |
| | 6 | 1525 | 333 | 1858 | 1464 | 370 | 1833 | 1395 | 411 | 1806 | 1322 | 457 | 1779 | 1243 | 508 | 1751 |
| | 7 | 1570 | 335 | 1905 | 1504 | 374 | 1878 | 1436 | 414 | 1850 | 1362 | 459 | 1821 | 1281 | 511 | 1792 |
| 120.2 | 8 | 1616 | 339 | 1955 | 1551 | 376 | 1927 | 1482 | 416 | 1898 | 1405 | 462 | 1867 | 1322 | 514 | 1836 |
| | 9 | 1665 | 342 | 2007 | 1598 | 379 | 1977 | 1527 | 419 | 1946 | 1448 | 465 | 1914 | 1364 | 517 | 1881 |
| | 10 | 1716 | 344 | 2060 | 1647 | 382 | 2028 | 1574 | 422 | 1996 | 1493 | 468 | 1961 | 1406 | 520 | 1926 |
| | 6 | 1561 | 305 | 1866 | 1501 | 338 | 1838 | 1433 | 375 | 1808 | 1358 | 417 | 1776 | 1279 | 464 | 1743 |
| | 7 | 1607 | 307 | 1914 | 1543 | 341 | 1884 | 1474 | 378 | 1852 | 1398 | 420 | 1818 | 1317 | 467 | 1784 |
| 130.2 | 8 | 1657 | 309 | 1966 | 1590 | 344 | 1934 | 1520 | 381 | 1900 | 1442 | 423 | 1865 | 1359 | 469 | 1828 |
| | 9 | 1707 | 311 | 2018 | 1639 | 346 | 1985 | 1566 | 383 | 1950 | 1487 | 425 | 1912 | 1402 | 472 | 1874 |
| | 10 | 1756 | 315 | 2071 | 1688 | 349 | 2037 | 1614 | 386 | 2000 | 1532 | 428 | 1960 | 1445 | 475 | 1920 |
| | 6 | 1603 | 323 | 1926 | 1543 | 358 | 1900 | 1475 | 396 | 1872 | 1399 | 442 | 1841 | 1320 | 491 | 1811 |
| | 7 | 1651 | 325 | 1975 | 1588 | 360 | 1948 | 1516 | 400 | 1916 | 1440 | 444 | 1884 | 1358 | 494 | 1852 |
| 140.2 | 8 | 1702 | 327 | 2029 | 1635 | 364 | 1998 | 1563 | 403 | 1966 | 1485 | 447 | 1932 | 1401 | 496 | 1898 |
| | 9 | 1754 | 329 | 2083 | 1684 | 366 | 2051 | 1611 | 406 | 2017 | 1531 | 450 | 1981 | 1445 | 499 | 1944 |
| | 10 | 1804 | 333 | 2137 | 1735 | 369 | 2104 | 1660 | 409 | 2068 | 1577 | 453 | 2030 | 1489 | 502 | 1991 |

n.a. not available

* For HT version only
All data refers to the base versions

Pf: cooling power [kW]

Pe: electric power absorbed by compressors [kW]

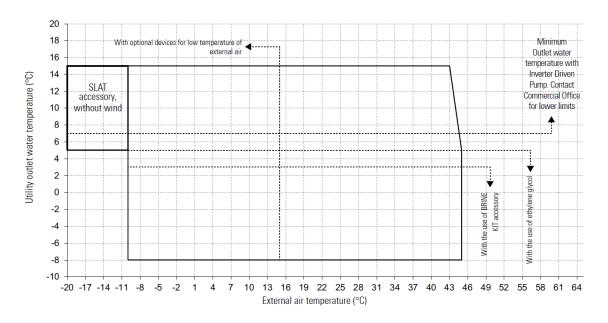
Pr: recovery condenser heat power [kW]

T0: evaporator outlet water temperature [°C] Evaporator thermal gap = 5°C



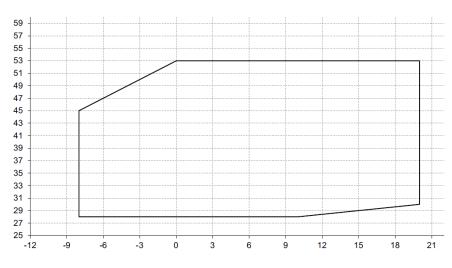
Kappa V Evo - functioning limits

COOLING



HEATING





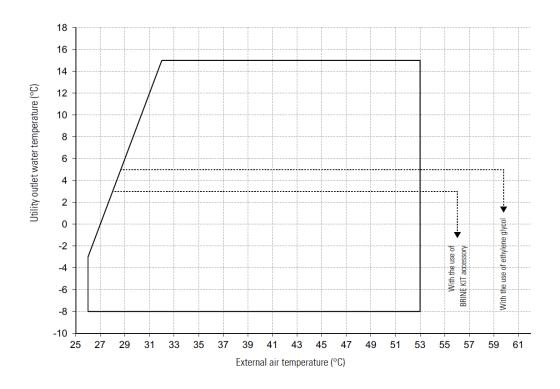
External air temperature (°C)

The heat drop of the water for all versions must be between 4°C e 7°C; 5°C with Inverter Driven Pump



Kappa V Evo - functioning limits

RECOVERY

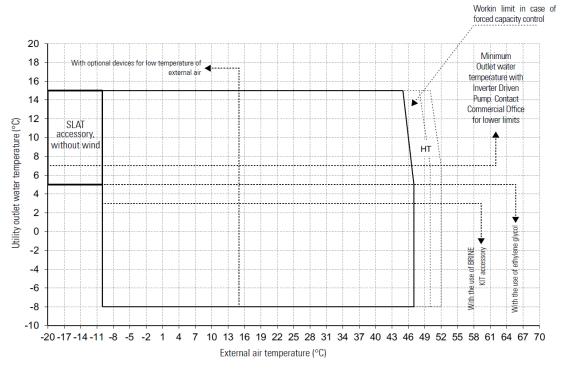


The heat drop of the water for all versions must be between 4°C e 7°C ; 5°C with Inverter Driven Pump

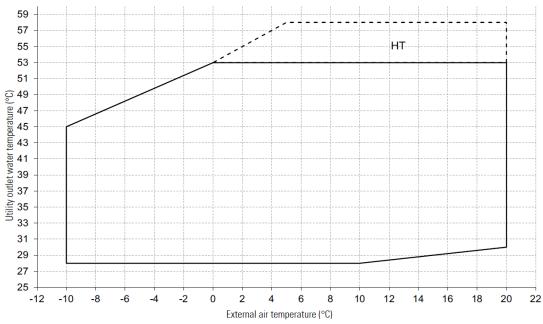


Kappa V Evo A - functioning limits

COOLING



HEATING

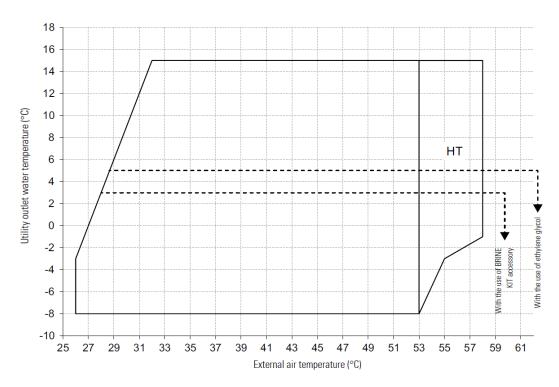


The heat drop of the water for all versions must be between 4°C e 7°C; 5°C with Inverter Driven Pump



Kappa V Evo A - functioning limits

RECOVERY



The heat drop of the water for all versions must be between 4°C e 7°C; 5°C with Inverter Driven Pump



Kappa V Evo - sound levels

STANDARD UNIT

| | | | | | | OCT | AVE-B | AND A | \T 10m | [dB] | | | | | | | TOTAL | [dB(A)] |
|-------|----|----|-----|----|-----|------|-------|-------|---------------|------|------|------|------|------|------|------|-------|---------|
| Model | 63 | Hz | 125 | Hz | 250 |) Hz | 500 |) Hz | 1,00 | 0 Hz | 2,00 | 0 Hz | 4,00 | 0 Hz | 8,00 | 0 Hz | Lon | |
| | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp |
| 23.1 | 77 | 45 | 76 | 44 | 81 | 49 | 81 | 49 | 89 | 57 | 88 | 56 | 83 | 51 | 75 | 43 | 93 | 61 |
| 25.1 | 78 | 46 | 76 | 44 | 81 | 49 | 81 | 49 | 89 | 57 | 87 | 55 | 83 | 51 | 75 | 43 | 93 | 61 |
| 28.1 | 78 | 46 | 76 | 44 | 81 | 49 | 80 | 48 | 90 | 58 | 87 | 55 | 83 | 51 | 74 | 42 | 93 | 61 |
| 31.1 | 79 | 47 | 77 | 45 | 82 | 50 | 81 | 49 | 91 | 59 | 88 | 56 | 83 | 51 | 75 | 43 | 94 | 62 |
| 33.2 | 78 | 46 | 77 | 45 | 82 | 50 | 82 | 50 | 90 | 58 | 89 | 57 | 85 | 53 | 77 | 45 | 94 | 62 |
| 35.2 | 79 | 47 | 78 | 46 | 83 | 51 | 83 | 51 | 91 | 59 | 90 | 58 | 85 | 53 | 78 | 46 | 95 | 63 |
| 37.2 | 79 | 47 | 78 | 46 | 83 | 51 | 83 | 51 | 91 | 59 | 90 | 58 | 85 | 53 | 78 | 46 | 95 | 63 |
| 40.2 | 80 | 48 | 79 | 47 | 84 | 52 | 84 | 52 | 92 | 60 | 91 | 59 | 86 | 54 | 78 | 46 | 96 | 64 |
| 43.2 | 80 | 48 | 79 | 47 | 84 | 52 | 84 | 52 | 92 | 60 | 91 | 59 | 86 | 54 | 79 | 47 | 96 | 64 |
| 47.2 | 81 | 49 | 80 | 48 | 85 | 53 | 85 | 53 | 93 | 61 | 92 | 60 | 87 | 55 | 79 | 47 | 97 | 65 |
| 51.2 | 81 | 49 | 80 | 48 | 85 | 53 | 85 | 53 | 93 | 61 | 91 | 59 | 87 | 55 | 78 | 46 | 97 | 65 |
| 54.2 | 83 | 51 | 81 | 49 | 86 | 54 | 85 | 53 | 95 | 63 | 92 | 60 | 87 | 55 | 79 | 47 | 98 | 66 |
| 58.2 | 82 | 49 | 81 | 48 | 86 | 53 | 85 | 52 | 95 | 62 | 93 | 60 | 88 | 55 | 79 | 46 | 98 | 65 |
| 61.2 | 83 | 50 | 82 | 49 | 87 | 54 | 86 | 53 | 96 | 63 | 94 | 61 | 89 | 56 | 80 | 47 | 99 | 66 |
| 67.2 | 83 | 50 | 82 | 49 | 87 | 54 | 86 | 53 | 96 | 63 | 93 | 60 | 89 | 56 | 80 | 47 | 99 | 66 |
| 70.2 | 83 | 50 | 82 | 49 | 87 | 54 | 86 | 53 | 96 | 63 | 93 | 60 | 88 | 55 | 80 | 47 | 99 | 66 |
| 73.2 | 84 | 51 | 83 | 50 | 88 | 55 | 87 | 54 | 97 | 64 | 94 | 61 | 89 | 56 | 80 | 47 | 100 | 67 |
| 80.2 | 84 | 51 | 83 | 50 | 88 | 55 | 87 | 54 | 97 | 64 | 94 | 61 | 89 | 56 | 80 | 47 | 100 | 67 |
| 82.2 | 84 | 51 | 83 | 50 | 88 | 55 | 87 | 54 | 97 | 64 | 94 | 61 | 89 | 56 | 80 | 47 | 100 | 67 |
| 85.2 | 84 | 51 | 83 | 50 | 88 | 55 | 87 | 54 | 97 | 64 | 94 | 61 | 89 | 56 | 81 | 48 | 100 | 67 |
| 90.2 | 84 | 51 | 83 | 50 | 88 | 55 | 87 | 54 | 97 | 64 | 94 | 61 | 89 | 56 | 81 | 48 | 100 | 67 |
| 95.2 | 85 | 52 | 83 | 50 | 89 | 56 | 88 | 55 | 98 | 65 | 95 | 62 | 90 | 57 | 81 | 48 | 101 | 68 |
| 100.2 | 85 | 52 | 83 | 50 | 89 | 56 | 88 | 55 | 98 | 65 | 95 | 62 | 90 | 57 | 81 | 48 | 101 | 68 |
| 105.2 | 86 | 53 | 84 | 51 | 90 | 57 | 89 | 56 | 99 | 66 | 96 | 63 | 91 | 58 | 82 | 49 | 102 | 69 |
| 110.2 | 86 | 53 | 84 | 51 | 90 | 57 | 89 | 56 | 99 | 66 | 96 | 63 | 91 | 58 | 82 | 49 | 102 | 69 |
| 115.2 | 86 | 53 | 84 | 51 | 90 | 57 | 89 | 56 | 99 | 66 | 96 | 63 | 91 | 58 | 82 | 49 | 102 | 69 |
| 120.2 | 86 | 53 | 84 | 51 | 90 | 57 | 89 | 56 | 99 | 66 | 96 | 63 | 91 | 58 | 82 | 49 | 102 | 69 |
| 130.2 | 87 | 54 | 85 | 52 | 91 | 58 | 90 | 57 | 100 | 67 | 97 | 64 | 92 | 59 | 83 | 50 | 103 | 70 |
| 140.2 | 87 | 54 | 85 | 52 | 91 | 58 | 90 | 57 | 100 | 67 | 97 | 64 | 92 | 59 | 82 | 49 | 103 | 70 |
| 150.4 | 87 | 54 | 86 | 53 | 91 | 58 | 90 | 57 | 100 | 67 | 97 | 64 | 92 | 59 | 83 | 50 | 103 | 70 |
| 160.4 | 87 | 54 | 86 | 53 | 91 | 58 | 90 | 57 | 100 | 67 | 97 | 64 | 92 | 59 | 83 | 50 | 103 | 70 |
| 180.4 | 88 | 55 | 87 | 54 | 92 | 59 | 91 | 58 | 101 | 68 | 98 | 65 | 93 | 60 | 84 | 51 | 104 | 71 |



Kappa V Evo - sound levels

LOW NOISE UNIT

| | | | | | | OCT | AVE-B | AND A | \T 10m | [dB] | | | | | | | TOTAL | [dB(A)] |
|-------|----|----|-----|------|-----|------|-------|-------|--------|------|------|------|------|------|------|------|-------|---------|
| Model | 63 | Hz | 125 | i Hz | 250 |) Hz | 500 |) Hz | 1,00 | 0 Hz | 2,00 | 0 Hz | 4,00 | 0 Hz | 8,00 | 0 Hz | | |
| | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lр | Lw | Lp |
| 23.1 | 72 | 40 | 71 | 39 | 76 | 44 | 75 | 43 | 83 | 51 | 81 | 49 | 77 | 45 | 70 | 38 | 87 | 55 |
| 25.1 | 72 | 40 | 71 | 39 | 76 | 44 | 75 | 43 | 83 | 51 | 81 | 49 | 77 | 45 | 70 | 38 | 87 | 55 |
| 28.1 | 73 | 41 | 71 | 39 | 76 | 44 | 75 | 43 | 83 | 51 | 81 | 49 | 77 | 45 | 69 | 37 | 87 | 55 |
| 31.1 | 74 | 42 | 72 | 40 | 77 | 45 | 76 | 44 | 84 | 52 | 82 | 50 | 78 | 46 | 70 | 38 | 88 | 56 |
| 33.2 | 74 | 42 | 73 | 41 | 77 | 45 | 78 | 46 | 85 | 53 | 84 | 52 | 80 | 48 | 73 | 41 | 89 | 57 |
| 35.2 | 74 | 42 | 73 | 41 | 77 | 45 | 78 | 46 | 85 | 53 | 84 | 52 | 80 | 48 | 73 | 41 | 89 | 57 |
| 37.2 | 74 | 42 | 73 | 41 | 77 | 45 | 78 | 46 | 85 | 53 | 84 | 52 | 80 | 48 | 73 | 41 | 89 | 57 |
| 40.2 | 75 | 43 | 74 | 42 | 78 | 46 | 78 | 46 | 86 | 54 | 84 | 52 | 80 | 48 | 73 | 41 | 90 | 58 |
| 43.2 | 75 | 43 | 74 | 42 | 78 | 46 | 79 | 47 | 86 | 54 | 84 | 52 | 80 | 48 | 74 | 42 | 90 | 58 |
| 47.2 | 76 | 44 | 75 | 43 | 80 | 48 | 79 | 47 | 87 | 55 | 85 | 53 | 81 | 49 | 74 | 42 | 91 | 59 |
| 51.2 | 76 | 44 | 75 | 43 | 80 | 48 | 79 | 47 | 87 | 55 | 85 | 53 | 81 | 49 | 74 | 42 | 91 | 59 |
| 54.2 | 77 | 45 | 76 | 44 | 81 | 49 | 80 | 48 | 88 | 56 | 86 | 54 | 82 | 50 | 74 | 42 | 92 | 60 |
| 58.2 | 77 | 44 | 76 | 43 | 80 | 47 | 80 | 47 | 88 | 55 | 86 | 53 | 82 | 49 | 74 | 41 | 92 | 59 |
| 61.2 | 77 | 44 | 76 | 43 | 80 | 47 | 80 | 47 | 88 | 55 | 86 | 53 | 82 | 49 | 75 | 42 | 92 | 59 |
| 67.2 | 78 | 45 | 77 | 44 | 81 | 48 | 81 | 48 | 89 | 56 | 87 | 54 | 83 | 50 | 75 | 42 | 93 | 60 |
| 70.2 | 78 | 45 | 77 | 44 | 81 | 48 | 81 | 48 | 89 | 56 | 87 | 54 | 83 | 50 | 75 | 42 | 93 | 60 |
| 73.2 | 79 | 46 | 78 | 45 | 82 | 49 | 82 | 49 | 90 | 57 | 88 | 55 | 84 | 51 | 76 | 43 | 94 | 61 |
| 80.2 | 79 | 46 | 78 | 45 | 82 | 49 | 82 | 49 | 90 | 57 | 88 | 55 | 84 | 51 | 75 | 42 | 94 | 61 |
| 82.2 | 79 | 46 | 78 | 45 | 82 | 49 | 82 | 49 | 90 | 57 | 88 | 55 | 84 | 51 | 75 | 42 | 94 | 61 |
| 85.2 | 79 | 46 | 78 | 45 | 82 | 49 | 82 | 49 | 90 | 57 | 88 | 55 | 84 | 51 | 76 | 43 | 94 | 61 |
| 90.2 | 80 | 47 | 78 | 45 | 83 | 50 | 83 | 50 | 91 | 58 | 89 | 56 | 85 | 52 | 77 | 44 | 95 | 62 |
| 95.2 | 80 | 47 | 78 | 45 | 83 | 50 | 83 | 50 | 91 | 58 | 89 | 56 | 85 | 52 | 77 | 44 | 95 | 62 |
| 100.2 | 80 | 47 | 78 | 45 | 83 | 50 | 83 | 50 | 91 | 58 | 89 | 56 | 85 | 52 | 76 | 43 | 95 | 62 |
| 105.2 | 81 | 48 | 79 | 46 | 84 | 51 | 83 | 50 | 93 | 60 | 90 | 57 | 86 | 53 | 77 | 44 | 96 | 63 |
| 110.2 | 81 | 48 | 79 | 46 | 84 | 51 | 83 | 50 | 93 | 60 | 90 | 57 | 86 | 53 | 77 | 44 | 96 | 63 |
| 115.2 | 81 | 48 | 79 | 46 | 84 | 51 | 83 | 50 | 93 | 60 | 90 | 57 | 86 | 53 | 77 | 44 | 96 | 63 |
| 120.2 | 82 | 49 | 80 | 47 | 85 | 52 | 84 | 51 | 94 | 61 | 91 | 58 | 87 | 54 | 78 | 45 | 97 | 64 |
| 130.2 | 82 | 49 | 80 | 47 | 85 | 52 | 84 | 51 | 94 | 61 | 91 | 58 | 86 | 53 | 78 | 45 | 97 | 64 |
| 140.2 | 82 | 49 | 80 | 47 | 85 | 52 | 84 | 51 | 94 | 61 | 91 | 58 | 86 | 53 | 77 | 44 | 97 | 64 |
| 150.4 | 82 | 49 | 81 | 48 | 85 | 52 | 85 | 52 | 93 | 60 | 91 | 58 | 87 | 54 | 78 | 45 | 97 | 64 |
| 160.4 | 82 | 49 | 81 | 48 | 85 | 52 | 85 | 52 | 93 | 60 | 91 | 58 | 87 | 54 | 78 | 45 | 97 | 64 |
| 180.4 | 83 | 50 | 81 | 48 | 86 | 53 | 85 | 52 | 95 | 62 | 92 | 59 | 88 | 55 | 79 | 46 | 98 | 65 |



Kappa V Evo - sound levels

SUPER LOW NOISE UNIT

| | | | | | | OCT | AVE-B | AND A | T 10m | [dB] | | | | | | | TOTAL | [dB(A)] |
|-------|----|----|-----|------|-----|------|-------|-------|-------|------|------|------|------|------|------|------|-------|---------|
| Model | 63 | Hz | 125 | i Hz | 250 |) Hz | 500 |) Hz | 1,00 | 0 Hz | 2,00 | 0 Hz | 4,00 | 0 Hz | 8,00 | 0 Hz | | |
| | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp |
| 23.1 | 68 | 36 | 67 | 35 | 71 | 39 | 71 | 39 | 78 | 46 | 76 | 44 | 73 | 41 | 66 | 34 | 82 | 50 |
| 25.1 | 68 | 36 | 67 | 35 | 71 | 39 | 71 | 39 | 78 | 46 | 76 | 44 | 72 | 40 | 66 | 34 | 82 | 50 |
| 28.1 | 69 | 37 | 68 | 36 | 72 | 40 | 71 | 39 | 79 | 47 | 77 | 45 | 73 | 41 | 66 | 34 | 83 | 51 |
| 31.1 | 69 | 37 | 68 | 36 | 72 | 40 | 71 | 39 | 79 | 47 | 77 | 45 | 73 | 41 | 66 | 34 | 83 | 51 |
| 33.2 | 69 | 37 | 68 | 36 | 72 | 40 | 72 | 40 | 78 | 46 | 77 | 45 | 74 | 42 | 68 | 36 | 83 | 51 |
| 35.2 | 70 | 38 | 69 | 37 | 73 | 41 | 73 | 41 | 79 | 47 | 78 | 46 | 75 | 43 | 69 | 37 | 84 | 52 |
| 37.2 | 70 | 38 | 69 | 37 | 73 | 41 | 73 | 41 | 79 | 47 | 78 | 46 | 75 | 43 | 69 | 37 | 84 | 52 |
| 40.2 | 71 | 39 | 70 | 38 | 74 | 42 | 74 | 42 | 81 | 49 | 79 | 47 | 76 | 44 | 69 | 37 | 85 | 53 |
| 43.2 | 71 | 39 | 70 | 38 | 74 | 42 | 74 | 42 | 81 | 49 | 79 | 47 | 76 | 44 | 69 | 37 | 85 | 53 |
| 47.2 | 71 | 39 | 70 | 38 | 74 | 42 | 74 | 42 | 81 | 49 | 79 | 47 | 75 | 43 | 69 | 37 | 85 | 53 |
| 51.2 | 71 | 39 | 70 | 38 | 74 | 42 | 74 | 42 | 81 | 49 | 79 | 47 | 75 | 43 | 69 | 37 | 85 | 53 |
| 54.2 | 72 | 40 | 71 | 39 | 75 | 43 | 74 | 42 | 82 | 50 | 80 | 48 | 76 | 44 | 69 | 37 | 86 | 54 |
| 58.2 | 72 | 39 | 71 | 38 | 75 | 42 | 75 | 42 | 82 | 49 | 80 | 47 | 76 | 43 | 70 | 37 | 86 | 53 |
| 61.2 | 72 | 39 | 71 | 38 | 75 | 42 | 75 | 42 | 82 | 49 | 80 | 47 | 76 | 43 | 70 | 37 | 86 | 53 |
| 67.2 | 73 | 40 | 72 | 39 | 76 | 43 | 75 | 42 | 83 | 50 | 81 | 48 | 77 | 44 | 70 | 37 | 87 | 54 |
| 70.2 | 73 | 40 | 72 | 39 | 76 | 43 | 75 | 42 | 83 | 50 | 81 | 48 | 77 | 44 | 70 | 37 | 87 | 54 |
| 73.2 | 74 | 41 | 73 | 40 | 77 | 44 | 76 | 43 | 84 | 51 | 82 | 49 | 78 | 45 | 71 | 38 | 88 | 55 |
| 80.2 | 74 | 41 | 73 | 40 | 77 | 44 | 76 | 43 | 84 | 51 | 82 | 49 | 78 | 45 | 71 | 38 | 88 | 55 |
| 82.2 | 74 | 41 | 73 | 40 | 77 | 44 | 76 | 43 | 84 | 51 | 82 | 49 | 78 | 45 | 71 | 38 | 88 | 55 |
| 85.2 | 75 | 42 | 73 | 40 | 78 | 45 | 77 | 44 | 85 | 52 | 83 | 50 | 79 | 46 | 72 | 39 | 89 | 56 |
| 90.2 | 76 | 43 | 74 | 41 | 79 | 46 | 78 | 45 | 86 | 53 | 84 | 51 | 80 | 47 | 73 | 40 | 90 | 57 |
| 95.2 | 76 | 43 | 74 | 41 | 79 | 46 | 78 | 45 | 86 | 53 | 84 | 51 | 80 | 47 | 73 | 40 | 90 | 57 |
| 100.2 | 76 | 43 | 74 | 41 | 79 | 46 | 78 | 45 | 86 | 53 | 84 | 51 | 80 | 47 | 72 | 39 | 90 | 57 |
| 105.2 | 77 | 44 | 75 | 42 | 80 | 47 | 79 | 46 | 87 | 54 | 85 | 52 | 81 | 48 | 73 | 40 | 91 | 58 |
| 110.2 | 77 | 44 | 75 | 42 | 80 | 47 | 79 | 46 | 87 | 54 | 85 | 52 | 81 | 48 | 73 | 40 | 91 | 58 |
| 115.2 | 77 | 44 | 75 | 42 | 80 | 47 | 79 | 46 | 87 | 54 | 85 | 52 | 81 | 48 | 73 | 40 | 91 | 58 |
| 120.2 | 77 | 44 | 76 | 43 | 81 | 48 | 80 | 47 | 88 | 55 | 86 | 53 | 82 | 49 | 74 | 41 | 92 | 59 |
| 130.2 | 78 | 45 | 76 | 43 | 81 | 48 | 80 | 47 | 88 | 55 | 86 | 53 | 82 | 49 | 74 | 41 | 92 | 59 |
| 140.2 | 78 | 45 | 76 | 43 | 81 | 48 | 80 | 47 | 88 | 55 | 86 | 53 | 82 | 49 | 74 | 41 | 92 | 59 |
| 150.4 | 78 | 45 | 76 | 43 | 81 | 48 | 80 | 47 | 88 | 55 | 86 | 53 | 82 | 49 | 74 | 41 | 92 | 59 |
| 160.4 | 78 | 45 | 76 | 43 | 81 | 48 | 80 | 47 | 88 | 55 | 86 | 53 | 82 | 49 | 74 | 41 | 92 | 59 |
| 180.4 | 79 | 46 | 77 | 44 | 82 | 49 | 81 | 48 | 89 | 56 | 87 | 54 | 83 | 50 | 75 | 42 | 93 | 60 |



Kappa V Evo A - sound levels

STANDARD UNIT

| | | | | | | OCT | AVE-B | AND A | AT 10m | [dB] | | | | | | | TOTAL | [dB(A)] |
|-------|----|----|-----|----|-----|------|-------|-------|---------------|------|------|------|------|------|------|------|-------|---------|
| Model | 63 | Hz | 125 | Hz | 250 |) Hz | 500 |) Hz | 1,00 | 0 Hz | 2,00 | 0 Hz | 4,00 | 0 Hz | 8,00 | 0 Hz | Luc | La |
| | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp |
| 23.1 | 76 | 44 | 76 | 44 | 80 | 48 | 81 | 49 | 88 | 56 | 88 | 56 | 82 | 50 | 75 | 43 | 92 | 60 |
| 23.2 | 75 | 43 | 76 | 43 | 81 | 49 | 81 | 49 | 87 | 55 | 88 | 56 | 82 | 50 | 74 | 42 | 92 | 60 |
| 25.1 | 77 | 45 | 76 | 44 | 80 | 48 | 81 | 49 | 88 | 56 | 87 | 55 | 82 | 50 | 75 | 43 | 92 | 60 |
| 25.2 | 76 | 44 | 76 | 43 | 81 | 49 | 81 | 49 | 88 | 56 | 88 | 56 | 83 | 51 | 74 | 42 | 92 | 60 |
| 28.1 | 78 | 46 | 76 | 44 | 81 | 49 | 81 | 49 | 90 | 58 | 88 | 56 | 84 | 52 | 75 | 43 | 93 | 61 |
| 28.2 | 78 | 46 | 76 | 44 | 81 | 49 | 80 | 48 | 90 | 58 | 87 | 55 | 83 | 51 | 74 | 42 | 93 | 61 |
| 31.1 | 78 | 46 | 77 | 45 | 82 | 50 | 81 | 49 | 90 | 58 | 88 | 56 | 84 | 52 | 76 | 44 | 94 | 62 |
| 31.2 | 77 | 45 | 78 | 46 | 82 | 50 | 81 | 49 | 91 | 59 | 89 | 57 | 84 | 52 | 76 | 44 | 94 | 62 |
| 33.2 | 78 | 46 | 77 | 45 | 82 | 50 | 82 | 50 | 90 | 58 | 89 | 57 | 84 | 52 | 77 | 45 | 94 | 62 |
| 35.2 | 79 | 47 | 78 | 46 | 83 | 51 | 84 | 52 | 91 | 59 | 90 | 58 | 85 | 53 | 79 | 47 | 95 | 63 |
| 37.2 | 80 | 48 | 78 | 46 | 84 | 52 | 83 | 51 | 92 | 60 | 91 | 59 | 85 | 53 | 79 | 47 | 96 | 64 |
| 40.2 | 80 | 48 | 79 | 47 | 84 | 52 | 84 | 52 | 92 | 60 | 91 | 59 | 86 | 54 | 78 | 46 | 96 | 64 |
| 43.2 | 79 | 47 | 79 | 47 | 84 | 52 | 84 | 52 | 92 | 60 | 91 | 59 | 86 | 54 | 79 | 46 | 96 | 64 |
| 47.2 | 82 | 50 | 81 | 49 | 85 | 53 | 85 | 53 | 94 | 62 | 93 | 61 | 87 | 55 | 79 | 47 | 98 | 66 |
| 51.2 | 82 | 50 | 81 | 49 | 85 | 53 | 85 | 53 | 94 | 62 | 92 | 60 | 87 | 55 | 79 | 47 | 97 | 65 |
| 54.2 | 83 | 51 | 81 | 49 | 86 | 54 | 85 | 53 | 95 | 63 | 93 | 61 | 88 | 56 | 79 | 47 | 98 | 66 |
| 61.2 | 83 | 50 | 82 | 49 | 87 | 54 | 86 | 53 | 96 | 63 | 94 | 61 | 89 | 56 | 80 | 47 | 99 | 66 |
| 70.2 | 83 | 51 | 83 | 51 | 87 | 55 | 86 | 54 | 97 | 65 | 94 | 62 | 89 | 57 | 80 | 48 | 100 | 68 |
| 73.2 | 84 | 52 | 83 | 51 | 88 | 56 | 86 | 54 | 96 | 64 | 94 | 62 | 90 | 58 | 80 | 48 | 100 | 68 |
| 80.2 | 84 | 52 | 83 | 51 | 89 | 57 | 87 | 55 | 97 | 65 | 95 | 63 | 89 | 57 | 80 | 48 | 100 | 68 |
| 82.2 | 83 | 50 | 83 | 50 | 88 | 55 | 87 | 54 | 97 | 64 | 94 | 61 | 89 | 56 | 80 | 47 | 100 | 67 |
| 85.2 | 84 | 51 | 83 | 50 | 88 | 55 | 87 | 54 | 97 | 64 | 94 | 61 | 89 | 56 | 81 | 48 | 100 | 67 |
| 90.2 | 85 | 53 | 83 | 51 | 89 | 57 | 88 | 56 | 98 | 66 | 95 | 63 | 90 | 58 | 82 | 50 | 101 | 69 |
| 95.2 | 85 | 53 | 84 | 52 | 89 | 57 | 88 | 56 | 98 | 66 | 95 | 63 | 91 | 59 | 81 | 49 | 101 | 69 |
| 100.2 | 86 | 54 | 84 | 52 | 89 | 57 | 88 | 56 | 98 | 66 | 96 | 64 | 90 | 58 | 81 | 49 | 101 | 69 |
| 105.2 | 86 | 54 | 84 | 52 | 90 | 58 | 89 | 57 | 99 | 67 | 96 | 64 | 91 | 59 | 82 | 50 | 102 | 70 |
| 115.2 | 87 | 55 | 84 | 52 | 91 | 59 | 89 | 57 | 100 | 68 | 96 | 64 | 92 | 60 | 82 | 50 | 103 | 71 |
| 120.2 | 87 | 55 | 85 | 53 | 91 | 59 | 89 | 57 | 100 | 68 | 96 | 64 | 92 | 60 | 82 | 50 | 103 | 71 |
| 130.2 | 87 | 55 | 86 | 54 | 91 | 59 | 90 | 58 | 101 | 69 | 97 | 65 | 92 | 60 | 83 | 51 | 104 | 72 |
| 140.2 | 87 | 55 | 86 | 54 | 92 | 60 | 90 | 58 | 101 | 69 | 97 | 65 | 93 | 61 | 82 | 50 | 104 | 72 |
| 150.4 | 88 | 56 | 86 | 54 | 92 | 60 | 90 | 58 | 101 | 69 | 97 | 65 | 93 | 61 | 83 | 51 | 104 | 72 |

Lw: sound power values in free field calculated in compliance with ISO 3744.

Lp: sound pressure levels refer to 10 meters from unit in free field at nominal working conditions, compliant to ISO 3744.



Kappa V Evo A - sound levels

LOW NOISE UNIT

| | | | | | | OCT | AVE-B | AND A | \T 10m | [dB] | | | | | | | TOTAL | [dB(A)] |
|-------|----|----|-----|------|-----|-----|-------|-------|--------|------|------|------|------|------|------|------|-------|---------|
| Model | 63 | Hz | 125 | i Hz | 250 | Hz | 500 |) Hz | 1,00 | 0 Hz | 2,00 | 0 Hz | 4,00 | 0 Hz | 8,00 | 0 Hz | I | La |
| | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp |
| 23.1 | 72 | 40 | 70 | 38 | 74 | 42 | 75 | 43 | 83 | 51 | 81 | 49 | 77 | 45 | 70 | 38 | 87 | 55 |
| 23.2 | 71 | 39 | 71 | 39 | 75 | 43 | 75 | 42 | 82 | 50 | 81 | 49 | 77 | 45 | 69 | 37 | 86 | 54 |
| 25.1 | 72 | 40 | 71 | 39 | 76 | 44 | 77 | 45 | 83 | 51 | 81 | 49 | 77 | 45 | 70 | 38 | 87 | 55 |
| 25.2 | 72 | 40 | 71 | 39 | 75 | 43 | 75 | 43 | 82 | 50 | 81 | 49 | 77 | 45 | 70 | 38 | 87 | 55 |
| 28.1 | 72 | 40 | 71 | 39 | 75 | 43 | 76 | 44 | 83 | 51 | 81 | 49 | 77 | 45 | 69 | 37 | 87 | 55 |
| 28.2 | 73 | 41 | 72 | 40 | 76 | 44 | 76 | 44 | 83 | 51 | 82 | 50 | 77 | 45 | 70 | 38 | 87 | 55 |
| 31.1 | 74 | 42 | 72 | 40 | 77 | 45 | 75 | 43 | 84 | 52 | 82 | 50 | 78 | 46 | 70 | 38 | 88 | 56 |
| 31.2 | 73 | 41 | 73 | 41 | 77 | 45 | 77 | 45 | 85 | 53 | 73 | 41 | 80 | 48 | 72 | 40 | 88 | 56 |
| 33.2 | 74 | 42 | 73 | 41 | 77 | 45 | 78 | 46 | 85 | 53 | 84 | 52 | 80 | 48 | 73 | 41 | 89 | 57 |
| 35.2 | 75 | 43 | 74 | 42 | 78 | 46 | 78 | 46 | 85 | 53 | 84 | 52 | 80 | 48 | 73 | 41 | 89 | 57 |
| 37.2 | 74 | 42 | 73 | 41 | 77 | 45 | 78 | 46 | 85 | 53 | 84 | 52 | 80 | 48 | 73 | 41 | 89 | 57 |
| 40.2 | 74 | 42 | 74 | 42 | 78 | 46 | 78 | 46 | 86 | 54 | 84 | 52 | 80 | 48 | 73 | 41 | 90 | 58 |
| 43.2 | 76 | 44 | 74 | 42 | 79 | 47 | 79 | 47 | 86 | 54 | 84 | 52 | 80 | 48 | 74 | 42 | 90 | 58 |
| 47.2 | 77 | 45 | 75 | 43 | 80 | 48 | 79 | 47 | 87 | 55 | 85 | 53 | 81 | 49 | 74 | 42 | 91 | 59 |
| 51.2 | 76 | 44 | 75 | 43 | 80 | 48 | 80 | 48 | 87 | 55 | 85 | 53 | 81 | 49 | 74 | 42 | 91 | 59 |
| 54.2 | 77 | 45 | 76 | 44 | 81 | 49 | 80 | 48 | 88 | 56 | 86 | 54 | 82 | 50 | 74 | 42 | 92 | 60 |
| 61.2 | 77 | 45 | 76 | 44 | 82 | 50 | 81 | 49 | 88 | 56 | 86 | 54 | 82 | 50 | 75 | 42 | 92 | 60 |
| 70.2 | 78 | 46 | 77 | 45 | 81 | 49 | 81 | 49 | 89 | 57 | 87 | 55 | 83 | 51 | 75 | 42 | 93 | 61 |
| 73.2 | 79 | 47 | 79 | 47 | 82 | 50 | 82 | 50 | 90 | 58 | 88 | 56 | 84 | 52 | 76 | 43 | 94 | 62 |
| 80.2 | 78 | 46 | 78 | 46 | 82 | 50 | 82 | 50 | 90 | 58 | 88 | 56 | 84 | 52 | 75 | 42 | 94 | 62 |
| 82.2 | 79 | 47 | 78 | 46 | 82 | 50 | 82 | 50 | 90 | 58 | 88 | 56 | 84 | 52 | 75 | 42 | 94 | 62 |
| 85.2 | 80 | 48 | 79 | 47 | 84 | 52 | 82 | 50 | 90 | 58 | 88 | 56 | 84 | 52 | 76 | 43 | 94 | 62 |
| 90.2 | 80 | 48 | 78 | 46 | 83 | 51 | 83 | 51 | 91 | 59 | 89 | 57 | 85 | 53 | 77 | 44 | 95 | 63 |
| 95.2 | 81 | 49 | 78 | 46 | 83 | 51 | 83 | 51 | 91 | 59 | 89 | 57 | 85 | 53 | 77 | 44 | 95 | 63 |
| 100.2 | 80 | 48 | 78 | 46 | 83 | 51 | 83 | 51 | 91 | 59 | 89 | 57 | 85 | 53 | 76 | 43 | 95 | 63 |
| 105.2 | 82 | 50 | 80 | 48 | 85 | 53 | 84 | 52 | 93 | 61 | 90 | 58 | 86 | 54 | 77 | 44 | 96 | 64 |
| 115.2 | 82 | 50 | 81 | 49 | 86 | 54 | 84 | 52 | 93 | 61 | 90 | 58 | 86 | 54 | 77 | 44 | 96 | 64 |
| 120.2 | 82 | 50 | 80 | 48 | 86 | 54 | 84 | 52 | 94 | 62 | 91 | 59 | 87 | 55 | 78 | 45 | 97 | 65 |
| 130.2 | 82 | 50 | 81 | 49 | 86 | 54 | 85 | 53 | 94 | 62 | 91 | 59 | 86 | 54 | 78 | 45 | 97 | 65 |
| 140.2 | 83 | 51 | 81 | 49 | 87 | 55 | 85 | 53 | 94 | 62 | 91 | 59 | 86 | 54 | 77 | 44 | 97 | 65 |
| 150.4 | 82 | 50 | 81 | 49 | 85 | 53 | 85 | 53 | 93 | 61 | 91 | 59 | 87 | 55 | 78 | 45 | 97 | 65 |



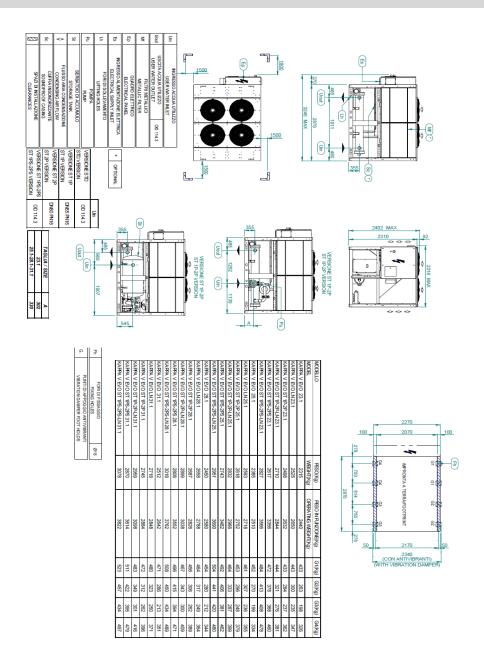
Kappa V Evo A - sound levels

SUPER LOW NOISE UNIT

| | | | | | | OCT | AVE-B | AND A | \T 10m | [dB] | | | | | | | TOTAL | [dB(A)] |
|-------|----|----|-----|------|-----|------|-------|-------|--------|------|------|------|------|------|------|------|-------|---------|
| Model | 63 | Hz | 125 | i Hz | 250 |) Hz | 500 |) Hz | 1,00 | 0 Hz | 2,00 | 0 Hz | 4,00 | 0 Hz | 8,00 | 0 Hz | Lon | La |
| | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp | Lw | Lp |
| 23.1 | 67 | 35 | 67 | 35 | 70 | 38 | 71 | 39 | 77 | 45 | 76 | 44 | 72 | 40 | 66 | 34 | 82 | 50 |
| 23.2 | 68 | 36 | 66 | 34 | 71 | 39 | 70 | 38 | 78 | 46 | 75 | 43 | 73 | 41 | 66 | 34 | 82 | 50 |
| 25.1 | 67 | 35 | 67 | 35 | 71 | 39 | 70 | 38 | 78 | 46 | 76 | 44 | 72 | 40 | 65 | 33 | 82 | 50 |
| 25.2 | 68 | 36 | 67 | 35 | 70 | 38 | 71 | 39 | 77 | 45 | 76 | 44 | 72 | 40 | 66 | 34 | 82 | 50 |
| 28.1 | 69 | 37 | 68 | 36 | 72 | 40 | 71 | 39 | 79 | 47 | 77 | 45 | 73 | 41 | 66 | 34 | 83 | 51 |
| 28.2 | 68 | 36 | 68 | 36 | 71 | 39 | 71 | 39 | 78 | 46 | 77 | 45 | 72 | 40 | 66 | 34 | 82 | 50 |
| 31.1 | 69 | 37 | 68 | 36 | 72 | 40 | 71 | 39 | 79 | 47 | 77 | 45 | 73 | 41 | 66 | 34 | 83 | 51 |
| 31.2 | 68 | 36 | 68 | 36 | 72 | 40 | 71 | 39 | 79 | 47 | 76 | 44 | 73 | 41 | 66 | 34 | 83 | 51 |
| 33.2 | 69 | 37 | 68 | 36 | 72 | 40 | 72 | 40 | 78 | 46 | 77 | 45 | 74 | 42 | 68 | 36 | 83 | 51 |
| 35.2 | 70 | 38 | 69 | 37 | 72 | 40 | 73 | 41 | 78 | 46 | 78 | 46 | 75 | 43 | 69 | 37 | 83 | 51 |
| 37.2 | 70 | 38 | 69 | 37 | 73 | 41 | 73 | 41 | 79 | 47 | 78 | 46 | 75 | 43 | 69 | 37 | 84 | 52 |
| 40.2 | 71 | 39 | 69 | 37 | 74 | 42 | 73 | 41 | 81 | 49 | 79 | 47 | 76 | 44 | 68 | 36 | 85 | 53 |
| 43.2 | 71 | 39 | 70 | 38 | 74 | 42 | 74 | 42 | 81 | 49 | 79 | 47 | 76 | 44 | 69 | 37 | 85 | 53 |
| 47.2 | 71 | 39 | 70 | 38 | 74 | 42 | 74 | 42 | 82 | 50 | 79 | 47 | 75 | 43 | 70 | 38 | 86 | 54 |
| 51.2 | 71 | 39 | 70 | 38 | 74 | 42 | 74 | 42 | 81 | 49 | 79 | 47 | 75 | 43 | 69 | 37 | 85 | 53 |
| 54.2 | 71 | 39 | 71 | 39 | 75 | 43 | 74 | 42 | 81 | 49 | 80 | 48 | 76 | 44 | 69 | 37 | 86 | 54 |
| 61.2 | 72 | 40 | 71 | 39 | 75 | 43 | 75 | 43 | 82 | 50 | 80 | 48 | 76 | 44 | 70 | 38 | 86 | 54 |
| 70.2 | 73 | 41 | 72 | 40 | 76 | 44 | 75 | 43 | 83 | 51 | 81 | 49 | 77 | 45 | 70 | 38 | 87 | 55 |
| 73.2 | 73 | 41 | 73 | 41 | 76 | 44 | 76 | 44 | 84 | 52 | 81 | 49 | 78 | 46 | 71 | 39 | 88 | 56 |
| 80.2 | 74 | 42 | 73 | 41 | 77 | 45 | 76 | 44 | 84 | 52 | 82 | 50 | 78 | 46 | 71 | 39 | 88 | 56 |
| 85.2 | 75 | 43 | 73 | 41 | 78 | 46 | 77 | 45 | 85 | 53 | 83 | 51 | 79 | 47 | 72 | 40 | 89 | 57 |
| 90.2 | 75 | 43 | 74 | 42 | 79 | 47 | 77 | 45 | 86 | 54 | 84 | 52 | 80 | 48 | 73 | 41 | 90 | 58 |
| 95.2 | 76 | 44 | 74 | 42 | 79 | 47 | 78 | 46 | 86 | 54 | 84 | 52 | 80 | 48 | 73 | 41 | 90 | 58 |
| 100.2 | 76 | 44 | 74 | 42 | 79 | 47 | 78 | 46 | 86 | 54 | 84 | 52 | 80 | 48 | 72 | 40 | 90 | 58 |
| 105.2 | 76 | 44 | 75 | 43 | 79 | 47 | 79 | 47 | 87 | 55 | 84 | 52 | 81 | 49 | 73 | 41 | 91 | 59 |
| 115.2 | 77 | 45 | 75 | 43 | 80 | 48 | 79 | 47 | 87 | 55 | 85 | 53 | 81 | 49 | 73 | 41 | 91 | 59 |
| 120.2 | 77 | 45 | 76 | 44 | 81 | 49 | 80 | 48 | 88 | 56 | 86 | 54 | 82 | 50 | 74 | 42 | 92 | 60 |
| 130.2 | 77 | 45 | 76 | 44 | 80 | 48 | 80 | 48 | 88 | 56 | 86 | 54 | 81 | 49 | 74 | 42 | 92 | 60 |
| 140.2 | 78 | 46 | 76 | 44 | 81 | 49 | 80 | 48 | 88 | 55 | 86 | 54 | 81 | 49 | 74 | 42 | 92 | 59 |



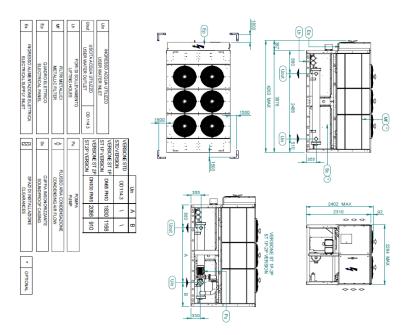
KAPPA V EVO 23.1-31.1



A4B498B

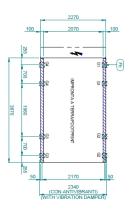


KAPPA V EVO 33.2-40.2



| PUNTI DI APPOGGIO ANTIVIBR |
|----------------------------|
| FIXING HOLES |
| FORI DI FISSAGGIO |

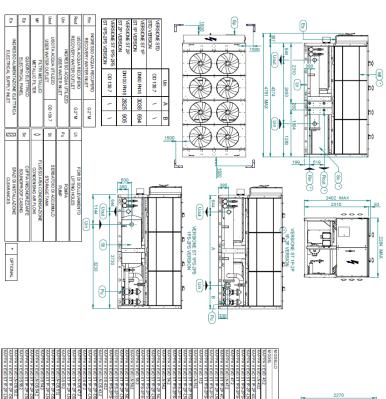
| MODELLO | PESO(Kg) | PESO IN FUNZIONE(Kg) | G1(Kg) | 92(Kg) | G1(Kg) G2(Kg) G3(Kg) G4(Kg) | G4(Kg) |
|------------------------------|------------|----------------------|--------|--------|-----------------------------|--------|
| MODEL | WEIGHT(Kg) | OPERATING WEIGHT(Kg) | | | | |
| KAPPA V EVO 33.2 | 3345 | 3458 | 552 | 460 | 326 | 391 |
| KAPPA V EVO LN 33.2 | 3793 | 3906 | 640 | 545 | 353 | 415 |
| KAPPA V EVOST 1P-2P 33.2 | 3565 | 3688 | 542 | 495 | 385 | 422 |
| (APPA V EVO ST 1P-2P-LN 33.2 | 4013 | 4136 | 629 | 580 | 412 | 447 |
| (APPA V EVO 35.2 | 3303 | 3416 | 544 | 453 | 323 | 888 |
| KAPPA V EVO LN 35.2 | 3753 | 3886 | 632 | 537 | 351 | 413 |
| KAPPA V EVO ST 1P-2P 35.2 | 3521 | 3644 | 534 | 487 | 382 | 419 |
| VARPA V EVO ST 1P-2P-LN 35.2 | 3969 | 4092 | 621 | 572 | 409 | 444 |
| VARPA V EVO 37.2 | 3365 | 3478 | 556 | 464 | 327 | 392 |
| KARPA V EVO LN 37.2 | 3813 | 3926 | 644 | 549 | 354 | 416 |
| (APPA V EVOST 1P-2P 37.2 | 3583 | 3706 | 546 | 498 | 386 | 423 |
| KAPPA V EVOST 1P-2P-LN 37.2 | 4033 | 4156 | 633 | 584 | 413 | 448 |
| KAPPA V EVO 40.2 | 3396 | 3506 | 561 | 469 | 329 | 394 |
| KARPA V EVO LN 40.2 | 3846 | 3956 | 649 | 554 | 357 | 418 |
| (APPA V EVO ST 1P-2P 40.2 | 3614 | 3734 | 551 | 503 | 388 | 425 |
| KAPPA V EVO ST 1P-2P-LN 40.2 | 4064 | 4184 | 638 | 589 | 415 | 450 |
| | | | | | | |

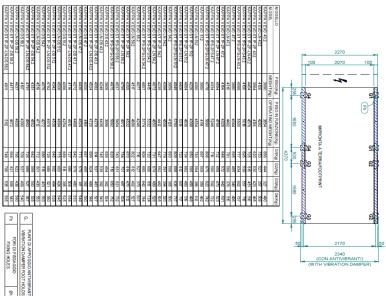


A4B174C



KAPPA V EVO 43.2-58.2

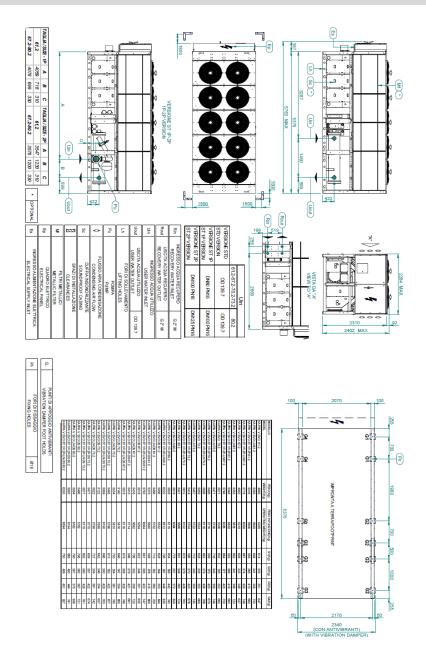




A4B440B



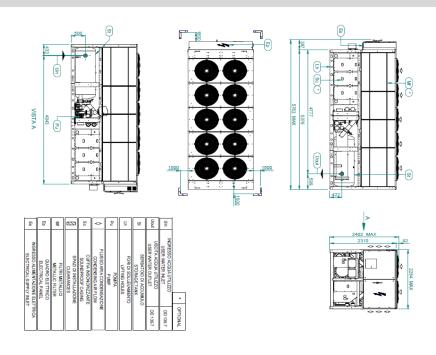
KAPPA V EVO 61.2-80.2



A4B490C

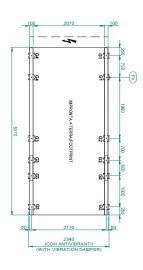


KAPPA V EVO 1PS / 2PS 61.2-80.2



| Fb | G. PU | |
|-----------------------------------|---|--|
| FORI DI FISSAGGIO FIXING HOLES | PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS | |
| Ø18 | | |

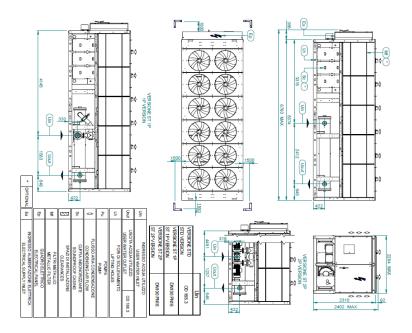
| MODELLO | PESO(Kg) | PESO IN FUNZIONE(Kg) | G1(Kg) | G2(Kg) | G3(Kg) | G4(Kg) |
|--------------------------------|----------|----------------------|--------|--------|--------|--------|
| MODELLO | PESO(Kg) | PESO IN FUNZIONE(Kg) | G1(Kg) | G2(Kg) | G3(Kg) | G4(Kg) |
| KAPPA V EVO ST 1PS-2PS 61.2 | 5480 | 6510 | 701 | 533 | 449 | 590 |
| KAPPA V EVO ST 1PS-2PS-LN 61.2 | 5878 | 6908 | 789 | 539 | 458 | 671 |
| KAPPA V EVO ST 1PS-2PS 67.2 | 5508 | 6538 | 706 | 537 | 449 | 591 |
| KAPPA V EVO ST 1PS-2PS-LN 67.2 | 5906 | 6936 | 794 | 542 | 459 | 672 |
| KAPPA V EVO ST 1PS-2PS 70.2 | 5590 | 6620 | 724 | 539 | 451 | 909 |
| KAPPA V EVO ST 1PS-2PS-LN 70.2 | 5990 | 7020 | 813 | 545 | 460 | 687 |
| KAPPA V EVO ST 1PS-2PS 73.2 | 5574 | 6604 | 721 | 538 | 451 | 603 |
| KAPPA V EVO ST 1PS-2PS-LN 73.2 | 5972 | 7002 | 809 | 544 | 460 | 684 |
| KAPPA V EVO ST 1PS-2PS 80.2 | 5986 | 7016 | 795 | 556 | 467 | 667 |
| KAPPA V EVO ST 1PS-2PS-LN 80.2 | 6384 | 7414 | 883 | 562 | 476 | 748 |



A4B491B

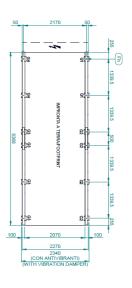


KAPPA V EVO 82.2-90.2



| FORI DI FISSAGGIO | PUNTI DI APPOGGIO ANTIVIBRANT |
|-------------------|-------------------------------|
| FIXING HOLES | VIBRATION DAMPER FOOT HOLDS |
| Ø18 | VIBRANTI T HOLDS |

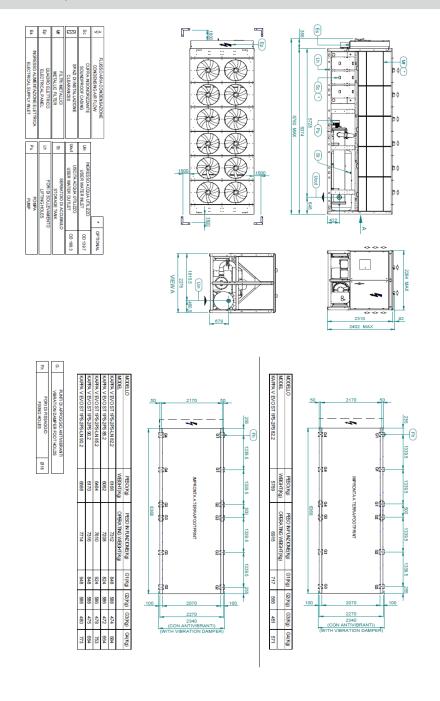
| OTEGOW | PESO(Kg) | PESO IN FUNZIONE(Kg) | G1(Kg) | G2(Kg) | G3(Kg) | 94(Kg) |
|------------------------------|-----------|-----------------------|--------|--------|--------|--------|
| THOOM | WBGHT(Kg) | OPERA TING WEIGHT(Kg) | | | | |
| KAFFA V EVO 82.2 | 5226 | 5474 | 692 | 336 | 338 | 697 |
| KAFPA V EVO LN 82.2 | 5630 | 5878 | 787 | 339 | 341 | 792 |
| KAPPA V EVOST 1P-2P 82.2 | 5580 | 5858 | 677 | 366 | 395 | 730 |
| KAFFA V EVOST 1P-2P-LN82.2 | 5982 | 6260 | 770 | 370 | 397 | 826 |
| KARPA V EVO 85.2 | 5524 | 5772 | 763 | 336 | 340 | 771 |
| KAPPA V EVO LN 85.2 | 5922 | 6170 | 857 | 339 | 342 | 866 |
| KA FPA V EVO ST 1P-2P 85.2 | 5876 | 6154 | 746 | 367 | 396 | 805 |
| KARPA V EVOST 1P-2P-LN 85.2 | 6274 | 6552 | 839 | 370 | 398 | 901 |
| KAPPA V EVO 90.2 | 5628 | 5876 | 786 | 339 | 341 | 792 |
| KAFFA V EVO LN 90.2 | 6026 | 6274 | 880 | 341 | 344 | 887 |
| KA FPA V EVOST 1P-2P 90.2 | 5980 | 6258 | 769 | 370 | 397 | 826 |
| KAPPA V EVO ST 1P-2P-LN 90.2 | 6378 | 6656 | 862 | 373 | 399 | 922 |



A4B492B



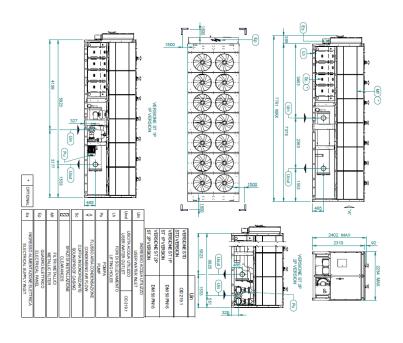
KAPPA V EVO 1PS / 2PS KAPPA V EVO 82.2-90.2

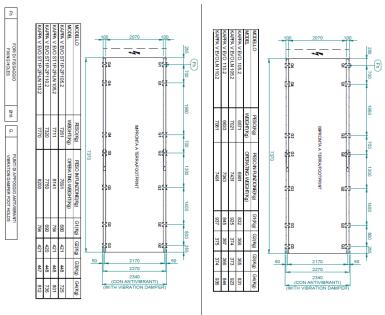


A4B493B



KAPPA V EVO 105.2-110.2



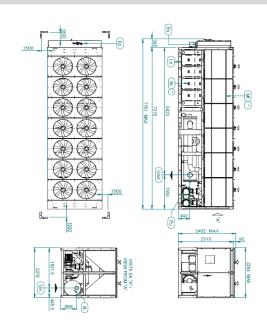


A4B496C



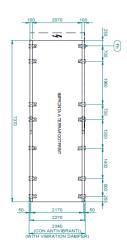
KAPPA V EVO 1PS / 2PS 105.2-110.2

| | | | | | | _ |
|--------|---|--|--|---------------------------------------|---|--|
| | Es | £. | * | 두 | Uout | 듥 |
| | INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET | QUADRO ELETTRICO ELECTRICAL PANEL | FILTRI METALLICI METALLIC FILTER | FORI DI SOLLEVAMENTO LIFTING HOLES | USCITA ACQUA UTILIZZO USER WATER OUTLET | INGRESSO ACQUA UTILIZZO USER WATER INLET |
| | TTRICA | | | | OD 219.1 | OD 168.3 |
| | | 8 | 0 | 2 | 92 | |
| / 3/25 | SPAZI DI INSTALLAZIONE CLEARANCES | CUFFIA INSONORIZZANTE SOUNDPROOF CASING | FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW | POMPA PUMP | SERBATOIO DI ACCUMULO STORAGE TANK | |
| | | | | | | |
| | 0 | | | | | |
| | OPTIONAL | | | | | |



| FF | <u>6</u> |
|-----------------------------------|---|
| FORI DI FISSAGGIO FIXING HOLES | VINTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS |
| 810 | |

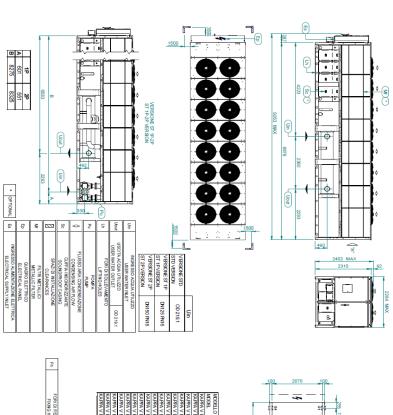
| MODELLO | PESO(Kg) | PESO IN FUNZIONE(Kg) G1(Kg) G2(Kg) G3(Kg) G4(Kg) | G1(Kg) | 92(Kg) | G3(Kg) | G4(Kg) |
|---------------------------------|------------|--|--------|--------|--------|--------|
| MODEL | WEIGHT(Kg) | OPERATING WEIGHT(Kg) | | | | |
| KAPPA V EVO ST 1PS-2PS 105.2 | 7431 | 8729 | 714 | 597 | 554 | 661 |
| KAPPA V EVO ST 1PS-2PS-LN 105.2 | 7882 | 9180 | 790 | 597 | 555 | 734 |
| KAPPA V EVO ST 1PS-2PS 110.2 | 7487 | 8785 | 724 | 597 | 553 | 671 |
| KAPPAVEVOST 1PS-2PS-LN 110.2 | 7941 | 9239 | 800 | 596 | 555 | 745 |
| | | | | | | |



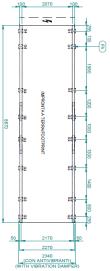
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KAPPA V EVO 1PS / 2PS 61.2-67.2



| 337 335 446 444 | 336 432 | 885 964 832 910 | 9678 9127 9483 9919 | 8294 8743 8999 9455 | KAPPA V EVO 1402 KAPPA V EVO 1402 KAPPA V EVO UN 140.2 KAPPA V EVO ST 19-29 140.2 KAPPA V EVO ST 19-29-UN 140.2 |
|---------------------------------|---------------------------------|---------------------------------|--|--------------------------------------|--|
| 333 331 442 | 336 | 874 953 821 | 8568 9017 9350 | 8176 8625 8878 | KAPPA V EVO 130.2 KAPPA V EVO LN 130.2 KAPPA V EVO ST 19-2P 130.2 KARPA V EVO ST 19-2P IN 130.2 |
| 433 319 317 428 425 | 417 321 318 414 412 | 775 848 926 795 873 | 8993 8276 8719 9058 | 8503 7884 8327 8586 9032 | KAPPA V EVO ST IP-2P-LN 1152 KAPPA V EVO 120.2 KAPPA V EVO LN 120.2 KAPPA V EVO ST IP-2P 120.2 KAPPA V EVO ST IP-2P-LN 120.2 |
| 326 324 436 | 326 323 419 | 749 828 697 | 7757 8206 8544 | 7347 7796 8054 | KAPPA V EVO 1152 KAPPA V EVOLN 115.2 KAPPA V EVOST 1P-2P 115.2 |
| G3(Kg | G2(Kg) G3(Kg) G4(Kg) | G1(Kg) | (6X)EHOGIN SNILVABACO (6X)EHOGIN SNILVABACO | HESO(Kg) | MDDETTO CONTROLL |



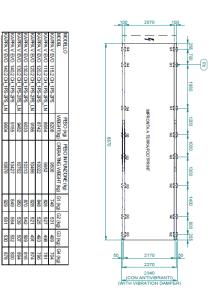
A4B497D



KAPPA V EVO 1PS / 2PS 115.2-140.2

| 2 | 5 | 0 | Uout | <u>C</u> in | St | | | | |
|---|---------------------------------------|--|--------------------------------------|--|---------------------------------------|---|----------|--------------|------------------|
| POMPA PUMP | FORI DI SOLLEVAMENTO LIFTING HOLES | FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW | USER WATER OUTLET | USER WATER INLET | SERBATOIO DI ACCUMULO STORAGE TANK | 1500 | | (h) (sc) | 0 0 |
| | | Ř | OD 219.1 | OD 168.3 | | 33 | 9263 MAX | 6583 | |
| Es | ů. | M | 223 | 8 | | | | _ | |
| INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET | QUADRO ELETTRICO ELECTRICAL PANEL | FILTRI METALLICI METALLIC FILTER | SPAZI DI INSTALLAZIONE CLEARANCES | CUFFIA INSONORIZZANTE SOUNDPROOF CASING | | | | 2293 2293 | |
| OPTIONAL | | | | | | VISTA DA "A" VIBN PROM "A" ISSU 5 ZZT6 | | Pu | 2402 MAX 2310 |

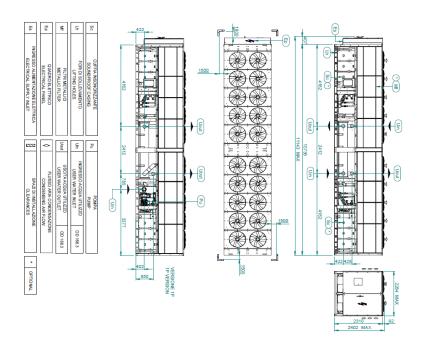
| 3 | |
|--|--|
| FORI DI FISSAGGIO FIXING HOLES | |
| Ø18 | |
| ဓ | |
| PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS | |



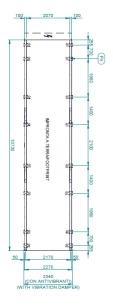
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KAPPA V EVO 150.2-180.4



| OTBOOM | PESO(Kg) | PESO IN FUNZIONE(Kg) | G1(Kg) | G1(Kg) G2(Kg) G3(Kg) G4(Kg) | G3(Kg) | G4(Kg) |
|---------------------------|------------|----------------------|--------|-----------------------------|--------|--------|
| MODEL | WEIGHT(Kg) | OPERATING WEIGHT(Kg) | | | | |
| CAPPA V EVO 150.4 | 10073 | 10584 | 693 | 630 | 630 | 693 |
| CAPPA V EVOLN 150.4 | 10873 | 11384 | 743 | 089 | 089 | 743 |
| (APPA V EVOST 1P150.4 | 10619 | 11240 | 755 | 568 | 638 | 849 |
| (APPA V EVOST 1P-LN 150.4 | 11415 | 12036 | 805 | 617 | 689 | 868 |
| (APPA V EVO 160.4 | 10669 | 11180 | 744 | 858 | 654 | 66.2 |
| (APPA V EVOLN 160.4 | 11469 | 11980 | 794 | 807 | 704 | 687 |
| APPA V EVOST 1P160.4 | 11219 | 11840 | 806 | 597 | 662 | 895 |
| CAPPA V EVOST 1P-LN 160.4 | 12015 | 98321 | 856 | 646 | 713 | 944 |
| (APPA V EVO 180.4 | 11112 | 11612 | 771 | 685 | 681 | 766 |
| CAPPA V EVOLN 180.4 | 11912 | 12412 | 821 | 735 | 731 | 816 |
| (APPA V EVOST 1P180.4 | 11658 | 12268 | 833 | 623 | 689 | 922 |
| APPA V EVOST 1P-LN 180.4 | 12462 | 13072 | 884 | 673 | 740 | 971 |

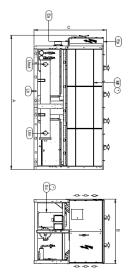


AB367C



KAPPA V EVO A

| * | 8 | þ | 5 | 庶 | m | š | Uout | Un | |
|----------|--|--|-------------------------------------|--|--------------------------------------|----------------------------------|---|--|--|
| OPTIONAL | CUFFIA INSONORIZZANTE SOUNDPROOF CASING | FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW | FORIDI SOLLEVAMENTO LIFTINGHOLES | INGRESSO ALMENTAZIONE BLETTRICA BLECTRICAL SUPPLY INLET | QUADRO ELETTRICO ELECTRICAL PANEL | FLTRIMETALLICI METALLIC FLTER | USCITA ACQUA UTILIZZO USER WATER OUTLET | INGRESSO ACQUA UTILIZZO USER WATER INLET | |



| | | | | | | 10710 | 2402 | 2284 | 11143 2284 2402 | 150.4 | KAPPA V EVO A |
|-------------------|------|-----------|-----------------|-------|-------------------|------------------|------|-----------|-----------------|-------|---------------|
| | | | | | | 10150 | 2402 | 2284 | 11143 2284 2402 | 140.2 | KAPPA V EVO A |
| 10650 | 2402 | 2284 | 11143 | 140.2 | KAPPA V EVO A SLN | 9690 | 2402 | 2284 | 11143 | 130.2 | KAPPA V EVO A |
| 10500 | 2402 | 2284 | 11143 | 130.2 | KAPPA V EVO A SLN | 9610 | 2402 | 2284 | 11143 | 120.2 | KAPPA V EVO A |
| 10360 | 2402 | 2284 | 11143 2284 2402 | 120.2 | KAPPA V EVO A SLN | 7750 | 2402 | 2284 2402 | 9263 | 115.2 | KAPPA V EVO A |
| 8380 | 2402 | 2284 | 9263 2284 2402 | 115.2 | KAPPA V EVO A SLN | 7650 | 2402 | 2284 | 9263 | 105.2 | KAFPA V EVO A |
| 8280 | 2402 | 2284 2402 | 9263 | 105.2 | KAPPA V EVO A SLN | 7190 | 2402 | 2284 2402 | 7761 | 100.2 | KAFPA V EVO A |
| 8150 | 2402 | 2284 2402 | 9263 | 100.2 | KAPPA V EVO A SLN | 7120 | 2402 | 2284 2402 | 7761 | 95.2 | KAFPA V EVO A |
| 7620 | 2402 | 2284 | 7761 | 95.2 | KAPPA V EVO A SLN | 7010 | 2402 | 2284 | 7761 | 90.2 | KAIPA V EVO A |
| 7510 | 2402 | 2284 | 7761 | 90.2 | KAFPA V EVO A SLN | 6250 | 2402 | 2284 | 6760 | 85.2 | KAFPA V EVO A |
| 7320 | 2402 | 2284 | 7761 | 85.2 | KAPPA V EVO A SLN | 6050 | 2402 | 2284 | 6760 | 82.2 | KAPPA V EVO A |
| 6120 | 2402 | 2284 2402 | 6760 | 80.2 | KAPPA V EVO A SLN | 5470 | 2402 | 2284 2402 | 6760 | 80.2 | KAPPA V EVO A |
| 5830 | 2402 | 2284 2402 | 6760 | 73.2 | KAPPA V EVO A SLN | 5380 | 2402 | 2284 2402 | 6760 | 73.2 | KAPPA V EVO A |
| 5850 | 2402 | 2284 2402 | 6760 | 70.2 | KAPPA V EVO A SLN | 5400 | 2402 | 2284 2402 | 6760 | 70.2 | KAPPA V EVO A |
| 5670 | 2402 | 2284 2402 | 5763 | 61.2 | KAPPA V EVO A SLN | 5220 | 2402 | 2284 2402 | 5763 | 61.2 | KAPPA V EVO A |
| 4970 | 2402 | 2284 | | 54.2 | KAPPA V EVO A SLN | 4520 | 2402 | 2284 | 5763 | 54.2 | KAPPA V EVO A |
| 5040 | 2402 | 2284 2402 | 5763 | 51.2 | KAPPA V EVO A SLN | 4590 | 2402 | 2284 | 5763 | 51.2 | KAPPA V EVO A |
| 4870 | 2402 | 2284 2402 | 5763 | 47.2 | KAPPA V EVO A SLN | 4420 | 2402 | 2284 2402 | 5763 | 47.2 | KAFPA V EVO A |
| 4500 | 2402 | 2284 2402 | 4761 | 43.2 | KAPPA V EVO A SLN | 4050 | 2402 | 2284 2402 | 4761 | 43.2 | KAFPA V EVO A |
| 4500 | 2402 | 2284 2402 | 4761 | 40.2 | KAPPA V EVO A SLN | 3900 | 2402 | 2284 2402 | 4761 | 40.2 | KAFPA V EVO A |
| 4310 | 2402 | 2284 2402 | 4761 | 37.2 | KAFPA V EVO A SLN | 3860 | 2402 | 2284 | 4761 | 37.2 | KAFPA V EVO A |
| 4240 | 2402 | 2284 | 4761 | 35.2 | KAPPA V EVO A SLN | 3790 | 2402 | 2284 | 4761 | 35.2 | KAFPA V EVO A |
| 4060 | 2402 | 2284 | 4263 | 33.2 | KAPPA V EVO A SLN | 3610 | 2402 | 2284 | 4263 | 33.2 | KAPPA V EVO A |
| 3850 | 2402 | 2284 2402 | 4263 | 31.2 | KAPPA V EVO A SLN | 3400 | 2402 | 2284 | 4263 | 31.2 | KAFPA V EVO A |
| 3280 | 2402 | 2284 2402 | 4263 | 31.1 | KAPPA V EVO A SLN | 3050 | 2402 | 2284 2402 | 4263 | 31.1 | KAFPA V EVO A |
| 3800 | 2402 | 2284 2402 | 4263 | 28.2 | KAPPA V EVO A SLN | 3190 | 2402 | 2284 2402 | 4263 | 28.2 | KAFPA V EVO A |
| 3090 | 2402 | 2284 2402 | | 28.1 | KAPPA V EVO A SLN | 2860 | 2402 | 2284 2402 | 4263 | 28.1 | KAFPA V EVO A |
| 3510 | 2402 | 2315 2402 | 3246 | 25.2 | KARPA V EVO A SLN | 2960 | 2402 | 2315 | 3246 | 25.2 | KAFPA V EVO A |
| 2970 | 2402 | 2315 | 3246 | 25.1 | KAPPA V EVO A SLN | 2640 | 2402 | 2315 | 3246 | 25.1 | KAPPA V EVO A |
| 3160 | 2402 | 2315 | 3246 | 23.2 | KARPA V EVO A SLN | 2710 | 2402 | 2315 | 3246 | 23.2 | KAPPA V EVO A |
| 2810 | 2402 | 2315 | 3246 | 23.1 | KAPPA V EVO A SLN | 2580 | 2402 | 2315 | 3246 | 23.1 | KAPPA V EVO A |
| (Kg) | | | | | | (Kg) | | | | | |
| OPERA TING WEIGHT | ဂ | œ | A | | MODEL LOWODEL | OPERATING WEIGHT | ဂ | œ | Þ | | MODELLOMODEL |
| PESOIN FUNZIONE | | | | | | PESOIN FUNZIONE | | 1 | | | |

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PRACTICAL RECOMMENDATIONS FOR INSTALLATION

Positioning

- Verify that there are no obstructions of the louvered coil and on the fans flow.
- Position the unit in order to reduce to a minimum environmental impact (sound emission, integration with present structures, etc.).

Electrical connections

- Always consult the attached electric layout, where all necessary instructions to carry out the electric connections are reported.
- Apply voltage to the unit (closing the isolating device) at least 12 hours before start-up to allow power supply of the sump resistances. Do not remove the voltage to the resistances during the unit brief standstill periods.
- Before opening the isolating device, stop the unit by acting on the appropriate start switches, or absence, on the remote control.
- Before accessing the internal parts of the unit, disconnect by opening the main isolating device.
- The power supply line must be protected in compliance with that provided in the regulations in force.
- Electric connections to be carried out: three polar power cable + earth, or three polar power cable + neutral + earth; external consent; remote alarm report.

Hydraulic connections

- Accurately remove the hydraulic plant, with pumps switched off, by acting on the small vent valves.
 This procedure is particularly important in that, even the smallest air bubbles can cause the evaporator to freeze.
- Discharge the water plant during the winter breaks or use appropriate anti-freezing mix. In case of brief period of time of unit stop, the installation of the anti-freeze resistance on the evaporator and on the hydraulic circuit is recommended.
- Realise the hydraulic circuit including the components indicated in the recommended layouts (expansion tank, flow switch, storage tank, vent valves, shut-off valves, anti-vibration joints, etc). See use installation and maintenance manual.
- Connect the flow switch in the units for which it is supplied, carefully following the instructions attached to the same unit.

Start-up and maintenance

Carefully keep to that indicated in the use and maintenance manual.
 Such operations must be carried out by qualified staff.



KAPPA V EVO - 122012

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