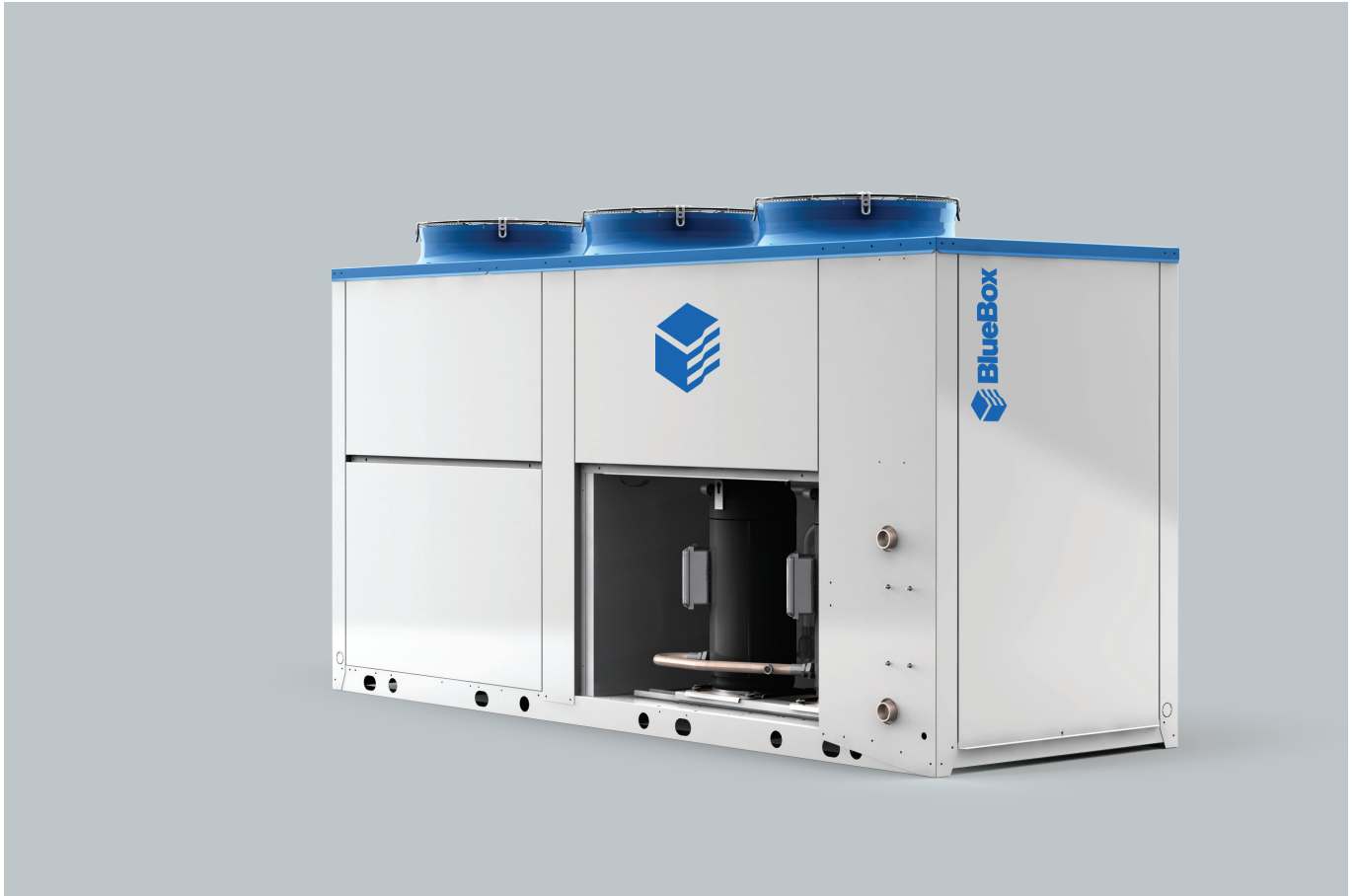


OMICRON S

Multifunctional unit 31÷211



General

Air/water unit with independent production of chilled water and hot water equipped with axial fans and hermetic scroll compressors. Production of hot water up to 65°.

Configurations

4T: 4-pipe circuit. 2T: 2-pipe circuit

LT: Low temperature unit for heat pump operation with low temperature systems

HT: High temperature unit for hot tap water

LN: Low sound level. SLN: Superlow sound level

Optional pump-/tank module

Quick facts

- ▶ A customized range
- ▶ Ideal for domestic water (65°C)
- ▶ Top efficiency
- ▶ Three sound levels
- ▶ Eco-friendly cooling
- ▶ Patented innovation
- ▶ Efficient energy performance

INDEX

Technical features	3
OMICRON S /LN - technical data	10
OMICRON S /HT - technical data	12
OMICRON S /SLN - technical data	14
OMICRON S /LT - technical data	16
OMICRON S HT /SLN - technical data	18
OMICRON S HT /LT - technical data	20
OMICRON S /LN -electrical data	22
OMICRON S /HT -electrical data	23
OMICRON S /SLN -electrical data	24
OMICRON S /LT -electrical data	25
OMICRON S HT /SLN -electrical data	26
OMICRON S HT /LT -electrical data	27
OMICRON S basic unit, /LN e /HT - cooling capacities	28
OMICRON S /LT - cooling capacities	31
OMICRON S /SLN - cooling capacities	34
OMICRON S basic and /LN – heating capacities hp (for 4t / ACS 2t unit)	36
OMICRON S /LT and /SLN – heating capacities hp (for 4t / ACS 2t unit)	38
OMICRON S /HT and HT /LN – heating capacities hp (for 4t / ACS 2t unit)	40
OMICRON S HT /SLN and HT /LT – heating capacities hp (for 4t / ACS 2t unit)	42
OMICRON S basic unit, /LN, /SLN and /LT – total recovery capacities	44
OMICRON S /HT, HT /LN, HT /SLN and HT /LT – total recovery capacities	46
OPERATING LIMITS CHILLER - OMICRON S	48
Operating limits heat pump operation (for 4t / ACS 2t unit, 2t except HT estension)	48
Operating limits RECOVERY - OMICRON S	49
Noise levels- OMICRON S	50
Noise levels- OMICRON S /LN	50
Noise levels- OMICRON S /SLN	51
Noise levels- OMICRON S /LT	51
Noise levels- OMICRON S	52
Dimensional drawing	53
Installations recommendations location	99

TECHNICAL FEATURES

OMICRON S multifunctional units

These innovative multifunctional units, available in 2-pipe and 4-pipe versions are designed to meet the distinctive needs of a large clientele. The units are fitted with scroll compressors and use R134 refrigerant fluid. The use of an ecological refrigerant fluid like the R134a and the outstanding energy efficiency provide the opportunity to choose units that allow considerable energy savings.

Below is illustrated the operating principle of the 2-pipe and 4-pipe units

OPERATION

OMICRON S 4T:

4-pipe unit

The 4-pipe multifunctional unit produces cold and hot water on two separate circuits, independently or at the same time, according to the diagrams shown on page 4.

OMICRON S 2T:

2-pipe unit

The two-pipe multifunction unit provides chilled water for summer cooling or hot water for winter heating on the same circuit; at the same time or independently domestic hot water production can be enabled. The operating modes are illustrated on page 5.

DEFROSTING

Defrosting is the system used to avoid the accumulation of frost on the evaporation coil and the removal of any that has formed. Blue Box Group uses a patented defrosting logic (Patent no. 1335232): this is done by reversing the cycle with the fans off, when external air temperature is less than 15°C; with external temperatures above 15°C defrosting is done by air with the compressors off. This way the number of defrosting cycles is reduced by up to 65% and the thermal performance is increased by up to 10%.

CONDENSATION AND EVAPORATION PRESSURE CONTROL

This function allows the machine to effectively satisfy the various demands of the system throughout the whole year, and is assured by the modulating adjustment (cut-off device) of the fan speed depending on the pressure measured by the transducers, to extend the operating limits.

HOT WATER FLOW AUTOMATIC COMPENSATION CONTROL

Fitted as standard on all machines: this function compensates the temperature of the hot water flow (automatically changing the set-point of the heat pump during operation) as the external air temperature drops (climate curve); ideal for very low external air temperatures where the production of hot water is in any case guaranteed.

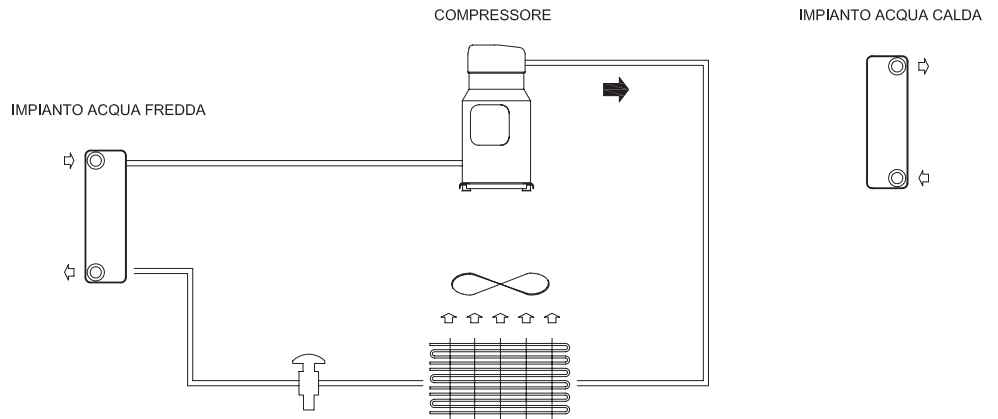
THERMOSTATIC VALVE WITH ELECTRONIC CONTROL

Energy saving, precision and comfort rigorously assured as standard, by means of electronic control thermostatic valve and the continuous adjustment of power distribution.

OMICRON S 4T

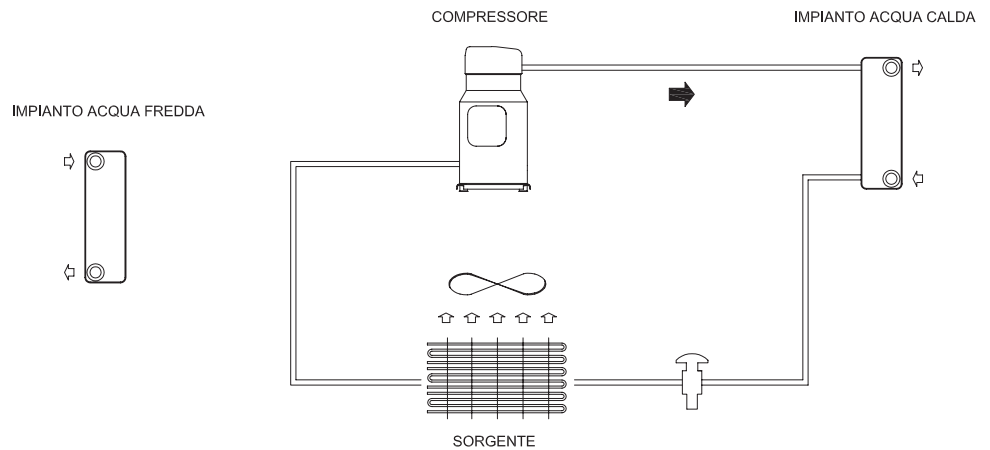
COOLING ONLY

Chilled water production: the evaporator produces chilled water while the finned coil conveys the condensation heat outside.



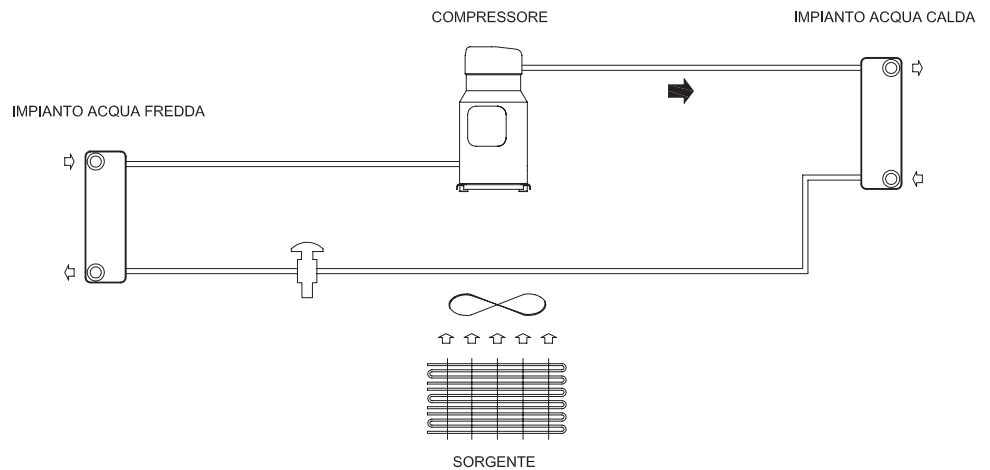
HEATING ONLY

Production of hot water for heating: the external coil works as an evaporator, while hot water is produced in the recovery heat exchanger.



COOLING / HEATING

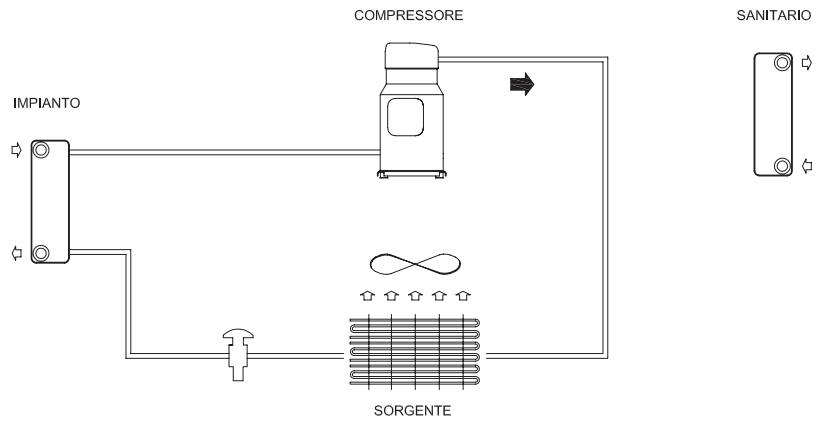
Production of chilled water for cooling and hot water for heating: the external coil is excluded from the refrigerating cycle; the evaporator provides chilled water while the recovery heat exchanger produces hot water.



OMICRON S 2T

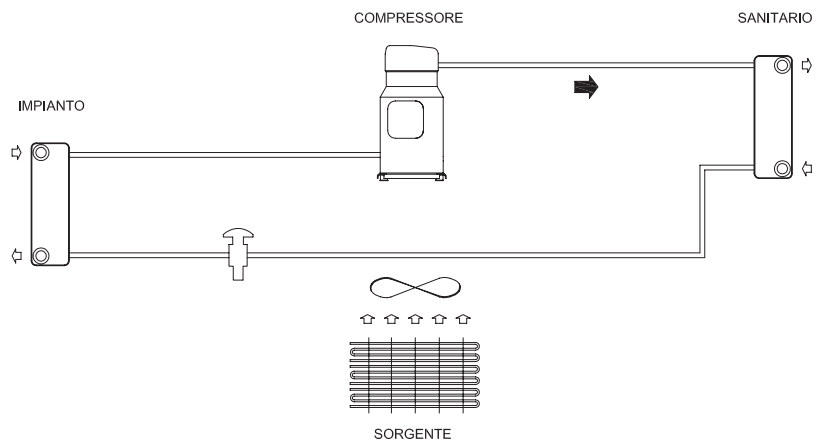
COOLING ONLY

Chilled water production: the evaporator produces chilled water while the finned coil conveys the condensation heat outside.



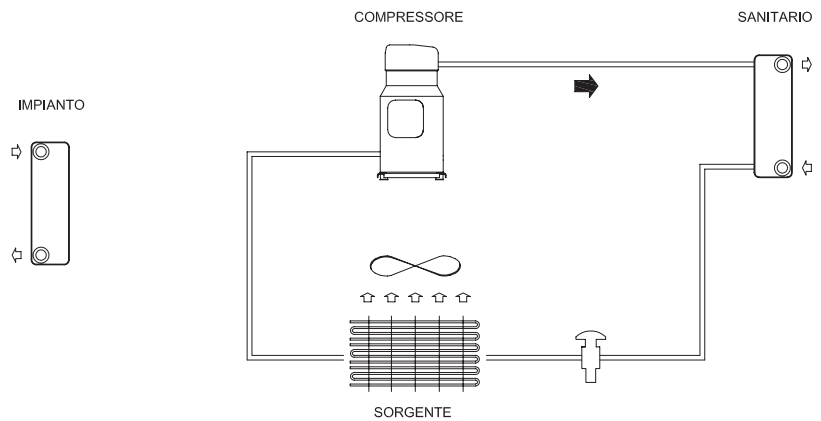
COOLING / DOMESTIC HOT WATER

Production of chilled water and domestic hot water: while the evaporator produces chilled water, the condensation heat is recovered by a special exchanger (recuperator) to obtain domestic hot water on a separate circuit.



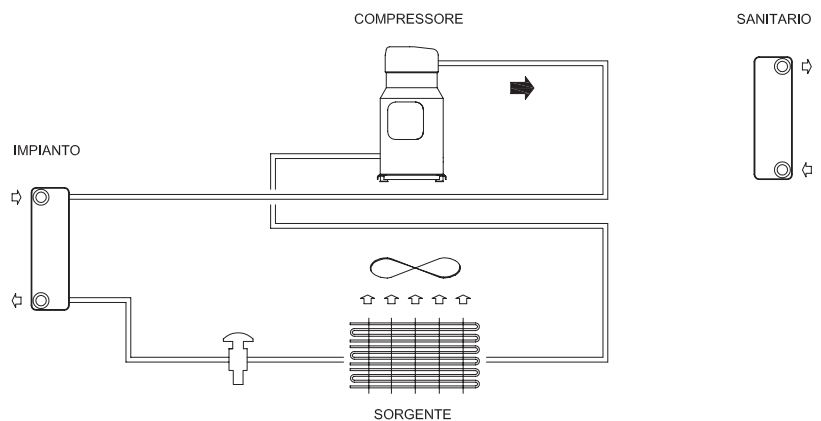
DOMESTIC HOT WATER

Production of domestic hot water: domestic hot water can be obtained independently, by the recovery exchanger; in this case the finned coil acts as an evaporator.



HEATING

Production of hot water for heating: the two-pipe system provides air-conditioning during the summer and heating during winter within the same circuit; the finned coil and the tube heat exchanger functions are inverted according to the season: the coil acts as evaporator and the latter as condenser.



STRUCTURE

Self supporting frame and removable panels lined with noise-absorbent expanded polyurethane matting in galvanised steel sheet painted in RAL 7035/5017 with polyester powder at 180°C, to offer high weather resistance. Stainless steel screws and bolts.

COMPRESSORS

Scroll hermetic type with orbiting scrolls, connected in parallel, and capacity steps: 50%, 100% of the capacity for single circuit, single compressor; 25%, 50%, 75%, 100% of the capacity for dual circuit, dual compressor. The compressors are fitted as standard with a crankcase heater, oil level sight glass and gauge, the units have two compressors fitted on each circuit.

Closed in the compartment and separated from the air flow, the compressors are accessible through a special panel for maintenance operations, even when the unit is on. The electric motor is thermally protected by internal Klixon breaker.

AIR-COOLED HEAT EXCHANGER

The heat exchanger is composed of an aluminium-finned copper-tube multi-row coil, of high efficiency.

ELECTRIC FANS

Axial fans driven directly by a 6-pole electric motor with integrated klixon thermal protection. Motor protection degree is IP 54. The fan is fitted with a protection grille in compliance with UNI EN 294.

WATER-COOLED HEAT EXCHANGER

Plate type heat exchanger in AISI 316 stainless steel covered with closed-cell foam.

When acting as evaporator the anti-freeze protection is provided by a temperature probe. Fitted with vane actuated flow switch, supplied as standard. Enhanced for use with R134a, reduces the refrigerant charge and volume and consequently improves the unit efficiency.

RECOVERY HEAT EXCHANGER

Plate type heat exchanger in AISI 316 stainless steel covered with closed-cell foam.

Fitted with vane actuated flow switch, supplied as standard. Enhanced for use with R134a, reduces the refrigerant charge and volume and consequently improves the unit efficiency.

COOLING CIRCUIT

Main components: fluid line shut off valve, fluid line solenoid valve, dryer filter with replaceable solid cartridge, fluid line sight glass with humidity indicator, electronic control thermostatic valve, high pressure safety valve, high and low pressure transducers, high pressure switch controllers, fluid receiver and separator, solenoid valves for circuit configuration, 4-way reversing valve, flow switch on both supply and recovery side.

Consenso ON/OFF per accensione caldaia ad integrazione nella fase di riscaldamento con basse temperature di aria esterna. The basic version has no defrosters fitted neither on

heat exchangers nor on hydronic segment. It is therefore mandatory that the pumps on both sides of the unit (cold side and hot side for 4 pipe version and supply and ACS side for 2 pipe version) operate continuously; if not, a defrosting device suited for the hydronic configuration selected, must be provided.

BOILER ON/OFF SWITCHES FITTED AS STANDARD

Below a certain value of the external air (adjustable parameter) the switch may activate an external plug (eg a boiler) to balance the inevitable differences in heating capacities due to compressor operating limits.

NOTE: The automatic compensation of the Set-Point modifies the set point of the machine, therefore when a Boiler is about to be plugged, the Multifunctional system will control the ON / OFF with re-defined Set.

The multifunctional system will be able to control only the boiler start or stop.

The tank-boiler circuit pump must be controlled separately or by the boiler itself.

The boiler must be dimensioned exclusively for INTEGRATION. This is necessary to avoid start/stop oscillations of the multifunctional system

ELECTRICAL PANEL

The panel consists of:

- Main disconnect switch;
- Fuses for main and auxiliary power circuit protection ;
- Compressor contactors ;
- Fan contactors ;
- Microprocessor to control the following functions:
 - Water temperature control with control of the water temperature on the plant return line.
 - Anti-freeze protection;
 - Compressor operation timers;
 - Automatic rotation of compressor start-up sequence;
 - Alarm signals;
 - Alarm reset;
 - Cumulative alarm contact for remote signaling;
 - Alarm log recording;
- Display of:
 - Ingoing and outgoing water temperature;
 - Currently set temperature and differential;
 - Alarm description;
 - Run hours and number of starts of the unit, compressors and pumps (where present);
 - High and low pressure and relative condensation and evaporation temperatures.
 - Black box function.

Power supply [V/f/Hz]: 400/3N~/50 ±5% dal 3.2 al 9.2; 400/3~/50 ±5% dall'11.2 al 21.4

CONTROL AND SAFETY DEVICES

- Manual reset high pressure controller;
- Automatic reset high pressure switch controller with limited trip;
- Automatic reset low pressure switch controller with limited trip;
- High pressure safety valve
- Anti-freeze probe on evaporator outtake;
- Cooled water temperature control probe (on evaporator intake);
- Compressor and fan thermal breakers;
- Vane actuated mechanical flow switch supplied in the kit for dual compressors type (3.2 – 11.2), already installed on the cool side and also fitted on the hot side for the version with four compressors (10.4 – 21.4);
- Temperature control probe for hot ingoing and outgoing water
- Forced capacity reduction at start-up

TESTING

The units are factory-tested and supplied complete with oil and refrigerant

MINIMUM WATER CONTENT

For a proper operation of the machine is necessary to respect the minimum idle time required by the unit between two successive restarts. The unit minimum water content (for both hot and cold side) can be calculated using the following formula:

- Wherein
- P_{tot} = Total cooling power [kW]
 - Δ τ = Time interval between two successive restarts of the compressor [s]
 - Δ T = Water minimum differential-temperature [°C]
 - CP = Water specific heat [kJ / (kg°C)]
 - ρ= Water density [kg / m³]
 - v= Water content of storage tank [l]
 - N= N Capacity steps

Grouping constant terms together we get:

Following is defined the term K for the most critical conditions to make sure that the minimum water content is supplied:

	OMICRON V EVO	OMICRON S
K [ls / J]	35.83	21.50
N	2 (1 Compressor)	2 (2 Compressor)
	4 (2 Compressor)	4 (4 Compressor)

VERSIONS

HYDRAULIC SYSTEM VERSION

OMICRON S /ST:

unit with pumps and tank

For the basic version are available the following configurations:

- ST 1P: with 1 pump both on supply and recovery side, for all sizes.
- ST 1PS: 1 pump and tank both on supply and recovery side, for all sizes.
- ST 2P: 2 pumps both on supply and recovery side, for sizes up to 11,4.
- ST 2PS+2P: 2 pumps with tank on supply side, 2 pumps without tank on recovery side, for sizes up to 11,4.
- ST 2P+1Pbp*: 2 pumps on supply side, 1 circulating pump on recovery side, for sizes between 11,4 and 21,4.
- ST 2PS+1Pbp*: 2 pumps with tank on supply side, 1 circulating pump on recovery side, for sizes between 11,4 and 21,4.

Automatic switching at set time or in case of failure for the version with two circulating pumps (one in stand-by, the other in operation, both dimensioned for 100% capacity).

* Low head pump

ACCESSORY VERSIONS

OMICRON S /LN:

low-noise unit

In addition to the components of the OMICRON S, this version has a fully soundproofed compressor compartment (using high acoustic impedance and sound-absorbent materials).

OMICRON S /SLN:

super low-noise unit

In addition to the components of the LN version, is fitted with oversized coils and reduced fan speed.

OMICRON S /LT:

Low temperature

This unit assures heat pump operation at lower evaporation temperatures thanks to the finned coil designed specifically to extend the machine's operating limits at lower external air temperatures. The extension of the operating limits compared to the standard version is illustrated in the special chapter

OMICRON S /HT:

high temperature unit

The unit reaches condensation temperatures which are higher than the basic version corresponding values, owing to the use of compressors with dedicated electric motors and specifically selected recovery exchangers. In this way hot water can be produced at a temperature of up to 65°C. The extension of the operating limits compared to the standard version will be illustrated in a special chapter. This option can be added to all previous versions.

ACCESSORIES

REFRIGERANT CIRCUIT ACCESSORIES

- Double set point; (high/low temperature) with a single electronic expansion valve fitted as standard. The evaporator is sized according to the high temperature operation. The set point can be changed from the keyboard or the digital input, in this case must be specified in the order.
- High and low pressure gauges available for all models (the suction and delivery pressures can be read on the control display also in the standard machine configuration). However, for units with 4 compressors the suction and discharge pressures are detected by transducers which enable the reading of relative values on the display control.
- Fluid receivers.
- Compressor suction and discharge valves.
- Low water temperature kit.
- Anti-legionella cycle management for HT version

(As described in the special section on the following page)

HYDRAULIC CIRCUIT ACCESSORIES

- Defroster for evaporator (in ST operation a defroster is also fitted on the tank and piping system) and recovery heat exchanger.
- Water side safety valve (ST version only).
- 3-way diverter valve (hot water 4-pipe circuit, ACS 2-pipe circuit) for hot outgoing water minimum level control, supplied in the kit.

(As described in the special section on the following page)

ELECTRICAL ACCESSORIES

- IRS485 serial interface supporting Carel, Modbus, Echelon and Bacnet protocols, can also be combined with Johnson and Trend supervision.
- Power factor correction $\cos \varphi \geq 0.9$ under nominal operating conditions (power supply connected by the installer directly on the main; the accessory is combined with dry contacts), supplied in the kit.
- Remote user terminal (in addition to the standard one).
- Variable set point with remote signal (0-1V, 0-10V, 0-20mA, 4-20mA).
- Dry contacts.
- Alarms management with three levels of gravity.
- SMS service for assistance management.
- Absorbed current limit control.
- EC Axial fans
- Automatic circuit breakers for compressors and fans
- Maximum and minimum voltage relay

MISCELLANEOUS ACCESSORIES

- Rubber or spring vibration dampers;
- Prepainted aluminium condensation coil;
- Condensation coil with passivated aluminium and polyurethane coating. The treatment consists of a double

layer, the first of which passivates the aluminium and acts as a primer and the second which is a polyurethane-based surface coating. The product has high anti-corrosive properties and virtually resists to all environmental conditions. For installation in marine and rural environments, industrial and urban areas;

- Packaging in wooden crates;
- Special pallet/skid for container shipment;
- Non-standard "RAL" paint colours
- Compressor delivery shut off valve

ANTI-LEGIONELLA CYCLE CONTROL (for HT only)

Enables control by means of a clock inside the control board: Time slot/Day/Week.

The hot water side set-point can be changed during the selected period to produce for example 60/65 [°C], proper for the neutralization of bacteria.

2-pipe accessory if fitted, provides the same result: Double Set-point on domestic water side digital input - 4-pipe: Double Set-point on hot water side

digital input; the set-point change is managed via an external supervision system.

3-WAY MODULATING VALVE or EXTERNAL DRIVE SIGNAL

The 3-way modulating valve (always supplied in the kit) on the recovery circuit

or the drive signal provided both for 4-pipe and 2-pipe versions enable the optimal control at start-up after long stops (when the water is very cold).

For the 4-pipe configuration the valve will be always open during defrosting in order to enable the proper operation of the unit.

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.

SOFT-STARTER

Blue Box units adopt all the required functioning set-ups and logics to minimise peak currents. The Soft-Starter acces-

sory allows a further 40% reduction of normal current peaks, through an electronic control of the electric motor start-up.

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.

OMICRON S /LN - TECHNICAL DATA

UNIT SIZE		3.2	4.2	5.2	6.2	7.2	8.2	9.2	11.2
Cooling (Gross values) (1)									
Nominal cooling capacity	kW	31,8	42,2	51,7	61,7	71,7	87,2	95,9	112,7
Total power input for cooling	kW	11,2	14,7	19,6	23,3	26,1	33,3	37,6	40,9
EER		2,83	2,87	2,64	2,65	2,75	2,62	2,55	2,75
Cooling (EN 14511 values) (1),(6)									
Nominal cooling capacity	kW	31,6	42,0	51,5	61,4	71,4	86,8	95,6	112,3
Total power input for cooling	kW	11,4	14,9	19,8	23,5	26,4	33,6	37,9	41,3
EER		2,77	2,81	2,60	2,61	2,71	2,58	2,52	2,72
Heating (Gross values) (2)									
Nominal heating capacity	kW	34,3	47,1	56,2	66,7	80,0	101,2	109,7	123,8
Total power input for heating	kW	11,1	14,1	17,8	21,5	24,6	30,0	32,6	38,5
COP		3,10	3,34	3,16	3,11	3,25	3,38	3,37	3,22
Heating (EN 14511 values) (2),(6)									
Nominal heating capacity	kW	34,5	47,3	56,4	66,9	80,3	101,5	110,1	124,2
Total power input for heating	kW	11,2	14,3	18,0	21,7	25,0	30,3	33,0	38,9
COP		3,07	3,30	3,13	3,08	3,22	3,35	3,34	3,19
Heating and cooling (Gross values) (3)									
Nominal cooling capacity	kW	32,5	42,9	54,7	63,9	73,2	89,2	100,2	113,7
Total power input	kW	9,8	12,9	16,9	20,1	23,3	30,0	32,9	35,1
Nominal heating capacity	kW	42,3	55,8	71,6	84,1	96,6	119,2	133,2	148,8
EER		3,31	3,33	3,24	3,18	3,14	2,97	3,05	3,24
COP		4,31	4,33	4,24	4,18	4,14	3,97	4,05	4,24
Heating and cooling (Gross values) (3),(6)									
Nominal cooling capacity	kW	32,3	42,7	54,5	63,6	72,9	88,8	99,9	113,3
Total power input	kW	10,3	13,4	17,5	20,9	24,1	30,9	33,9	36,1
Nominal heating capacity	kW	42,6	56,1	72,0	84,5	97,0	119,7	133,7	149,5
EER		3,14	3,18	3,10	3,05	3,02	2,88	2,95	3,14
COP		4,14	4,18	4,10	4,05	4,02	3,88	3,95	4,14
Compressors									
Type		Scroll							
Quantity/Cooling circuits	n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps	n°	50-100							
Total oil load	l	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans									
Type		Axial							
Quantity	n°	2	2	2	3	3	3	3	3
Air flow	m3/s	5.9	5.53	5.53	9.06	8.64	8.28	8.28	17.39
Evaporator									
Type		With plates							
Quantity		1	1	1	1	1	1	1	1
Water content	l	3	4	5	6	6	8	9	11
Hydraulic system - Cooled water circuit (chiller)									
Available static pressure ST 1P	kPa	187	163	141	197	187	169	171	183
Expansion vessel	l	18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)									
Available static pressure ST 1P	kPa	152	185	176	161	182	146	152	156
Expansion vessel	l	18	18	18	18	18	18	18	18
Noise levels									
Basic unit noise power level	(4) dB(A)	83	84	85	87	87	87	88	91
Basic unit noise pressure level	(5) dB(A)	51	52	53	55	55	55	56	59
LN version noise power level	(4) dB(A)	80	81	83	84	84	85	86	89
LN version noise pressure level	(5) dB(A)	48	49	51	52	52	53	54	57
Basic unit dimensions									
Length	mm	2.205	2.205	2.205	3.210	3.210	3.210	3.210	3.210
Height	mm	1.740	1.740	1.740	1.740	1.740	1.740	1.740	2.380
Depth	mm	1.003	1.003	1.003	1.104	1.104	1.104	1.104	1.104
Operating weight	kg	668	708	763	1.073	1.158	1.251	1.272	1.452

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 40-45 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 40-45 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S /LN - TECHNICAL DATA

UNIT SIZE		10.4	11.4	12.4	14.4	16.4	17.4	19.4	21.4
Cooling (Gross values)	(1)								
Nominal cooling capacity	kW	96,5	106,7	128,4	143,8	159,9	174,2	197,4	216,9
Total power input for cooling	kW	34,4	40,1	46,0	54,4	61,3	69,5	75,0	82,8
EER		2,80	2,66	2,79	2,64	2,61	2,51	2,63	2,62
Cooling (EN 14511 values)	(1),(6)								
Nominal cooling capacity	kW	96,1	106,3	128,0	143,4	159,3	173,7	196,9	216,3
Total power input for cooling	kW	34,8	40,5	46,5	54,9	61,8	70,0	75,5	83,4
EER		2,76	2,63	2,75	2,61	2,58	2,48	2,61	2,59
Heating (Gross values)	(2)								
Nominal heating capacity	kW	106,1	119,7	138,6	158,7	177,7	191,3	220,3	235,9
Total power input for heating	kW	33,8	38,2	44,2	50,3	57,2	62,3	68,0	73,2
COP		3,14	3,13	3,14	3,16	3,11	3,07	3,24	3,22
Heating (EN 14511 values)	(2),(6)								
Nominal heating capacity	kW	106,5	120,1	139,1	159,2	178,3	191,8	221,0	236,5
Total power input for heating	kW	34,2	38,6	44,6	50,7	57,7	62,8	68,7	73,9
COP		3,11	3,11	3,11	3,14	3,09	3,05	3,22	3,20
Heating and cooling (Gross values)	(3)								
Nominal cooling capacity	kW	98,4	106,6	129,8	148,7	161,6	179,4	201,9	225,9
Total power input	kW	29,2	34,9	40,0	46,4	53,3	59,3	65,3	70,5
Nominal heating capacity	kW	127,5	141,5	169,8	195,1	214,8	238,8	267,2	296,4
EER		3,37	3,06	3,25	3,21	3,03	3,02	3,09	3,20
COP		4,37	4,06	4,25	4,21	4,03	4,02	4,09	4,20
Heating and cooling (Gross values)	(3),(6)								
Nominal cooling capacity	kW	98,0	106,2	129,3	148,2	161,0	178,9	201,4	225,3
Total power input	kW	30,1	35,9	41,2	47,6	54,6	60,8	66,7	72,2
Nominal heating capacity	kW	128,1	142,1	170,5	195,8	215,6	239,6	268,1	297,5
EER		3,25	2,96	3,14	3,11	2,95	2,94	3,02	3,12
COP		4,25	3,96	4,14	4,11	3,95	3,94	4,02	4,12
Compressors									
Type						Scroll			
Quantity/Cooling circuits	n°/n°	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Capacity steps	n°					25-50-75-100			
Total oil load	l	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans									
Type						Axial			
Quantity	n°	3	3	3	3	4	4	4	4
Air flow	m3/s	17.39	17.39	16.33	16.33	23.31	23.31	21.92	21.92
Evaporator									
Type						With plates			
Quantity		2	2	2	2	2	2	1	1
Water content	l	8	10	11	13	14	16	20	23
Hydraulic system - Cooled water circuit (chiller)									
Available static pressure ST 1P	kPa	201	188	164	172	154	206	199	181
Expansion vessel	l	18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)									
Available static pressure ST 1P	kPa	154	155	128	160	139	145	147	130
Expansion vessel	l	18	18	18	18	18	18	18	18
Noise levels									
Basic unit noise power level	(4) dB(A)	90	90	90	91	92	93	93	94
Basic unit noise pressure level	(5) dB(A)	58	58	58	59	60	61	61	62
LN version noise power level	(4) dB(A)	87	87	88	89	89	90	91	91
LN version noise pressure level	(5) dB(A)	55	55	56	57	57	58	59	59
Basic unit dimensions									
Length	mm	3.210	3.210	4.204	4.204	4.204	4.204	4.204	4.204
Height	mm	2.380	2.380	2.380	2.380	2.380	2.380	2.380	2.380
Depth	mm	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104
Operating weight	kg	1.504	1.556	1.873	2.046	2.220	2.296	2.360	2.403

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 40-45 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 40-45 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S/HT - TECHNICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2	8.2	9.2	11.2
Cooling (Gross values)		(1)								
Nominal cooling capacity	kW		31,8	42,2	51,7	61,7	71,7	87,2	95,9	112,7
Total power input for cooling	kW		11,2	14,7	19,6	23,3	26,1	33,3	37,6	40,9
EER			2,83	2,87	2,64	2,65	2,75	2,62	2,55	2,75
Cooling (EN 14511 values)		(1),(6)								
Nominal cooling capacity	kW		31,6	42,0	51,5	61,4	71,4	86,8	95,6	112,3
Total power input for cooling	kW		11,4	14,9	19,8	23,5	26,4	33,6	37,9	41,3
EER			2,77	2,81	2,60	2,61	2,71	2,58	2,52	2,72
Heating (Gross values)		(2)								
Nominal heating capacity	kW		34,5	46,5	56,5	67,9	82,0	101,2	110,1	123,1
Total power input for heating	kW		15,5	20,0	24,9	29,6	33,6	41,4	45,0	52,0
COP			2,22	2,33	2,27	2,30	2,44	2,44	2,45	2,37
Heating (EN 14511 values)		(2),(6)								
Nominal heating capacity	kW		34,7	46,7	56,6	68,1	82,2	101,5	110,5	123,5
Total power input for heating	kW		15,7	20,1	25,1	29,8	33,8	41,7	45,3	52,3
COP			2,21	2,32	2,26	2,29	2,43	2,43	2,44	2,36
Heating and cooling (Gross values)		(3)								
Nominal cooling capacity	kW		25,1	33,8	43,2	51,3	59,6	73,8	83,0	93,3
Total power input	kW		14,3	18,6	24,0	28,1	32,1	40,3	44,2	47,9
Nominal heating capacity	kW		39,3	52,4	67,2	79,4	91,7	114,2	127,2	141,1
EER			1,75	1,81	1,80	1,82	1,85	1,83	1,88	1,95
COP			2,75	2,81	2,80	2,82	2,85	2,83	2,88	2,95
Heating and cooling (Gross values)		(3),(6)								
Nominal cooling capacity	kW		24,9	33,7	43,0	51,1	59,4	73,6	82,7	93,0
Total power input	kW		14,6	19,0	24,4	28,6	32,6	41,0	44,9	48,6
Nominal heating capacity	kW		39,5	52,6	67,4	79,7	92,0	114,5	127,6	141,6
EER			1,71	1,77	1,76	1,79	1,82	1,80	1,84	1,91
COP			2,71	2,77	2,76	2,79	2,82	2,80	2,84	2,91
Compressors										
Type							Scroll			
Quantity/Cooling circuits	n°/n°		2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps	n°						50-100			
Total oil load	l		6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans										
Type							Axial			
Quantity	n°		2	2	2	3	3	3	3	3
Air flow	m3/s		5,9	5,53	5,53	9,06	8,64	8,28	8,28	17,39
Evaporator										
Type							With plates			
Quantity			1	1	1	1	1	1	1	1
Water content	l		3	4	5	6	6	8	9	11
Hydraulic system - Cooled water circuit (chiller)										
Available static pressure ST 1P	kPa		187	163	141	197	187	169	171	183
Expansion vessel	l		18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)										
Available static pressure ST 1P	kPa		152	185	176	161	182	146	152	156
Expansion vessel	l		18	18	18	18	18	18	18	18
Noise levels										
Basic unit noise power level	(4) dB(A)		83	84	85	87	87	87	88	91
Basic unit noise pressure level	(5) dB(A)		51	52	53	55	55	55	56	59
LN version noise power level	(4) dB(A)		80	81	83	84	84	85	86	89
LN version noise pressure level	(5) dB(A)		48	49	51	52	52	53	54	57
Basic unit dimensions										
Length	mm		2.205	2.205	2.205	3.210	3.210	3.210	3.210	3.210
Height	mm		1.740	1.740	1.740	1.740	1.740	1.740	1.740	2.380
Depth	mm		1.003	1.003	1.003	1.104	1.104	1.104	1.104	1.104
Operating weight	kg		668	708	763	1.073	1.158	1.251	1.272	1.452

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 60-65 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 60-65 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S/HT - TECHNICAL DATA

UNIT SIZE		10.4	11.4	12.4	14.4	16.4	17.4	19.4	21.4
Cooling (Gross values)	(1)								
Nominal cooling capacity	kW	96,5	106,7	128,4	143,8	159,9	174,2	197,4	216,9
Total power input for cooling	kW	34,4	40,1	46,0	54,4	61,3	69,5	75,0	82,8
EER		2,80	2,66	2,79	2,64	2,61	2,51	2,63	2,62
Cooling (EN 14511 values)	(1),(6)								
Nominal cooling capacity	kW	96,1	106,3	128,0	143,4	159,3	173,7	196,9	216,3
Total power input for cooling	kW	34,8	40,5	46,5	54,9	61,8	70,0	75,5	83,4
EER		2,76	2,63	2,75	2,61	2,58	2,48	2,61	2,59
Heating (Gross values)	(2)								
Nominal heating capacity	kW	106,3	118,4	140,5	161,6	178,2	193,2	220,3	237,1
Total power input for heating	kW	46,3	52,5	60,4	68,4	77,5	84,9	92,8	99,9
COP		2,30	2,26	2,33	2,36	2,30	2,27	2,37	2,37
Heating (EN 14511 values)	(2),(6)								
Nominal heating capacity	kW	106,6	118,7	140,9	161,9	178,6	193,6	220,8	237,6
Total power input for heating	kW	46,5	52,7	60,8	68,8	77,9	85,4	93,3	100,4
COP		2,29	2,25	2,32	2,35	2,29	2,27	2,37	2,37
Heating and cooling (Gross values)	(3)								
Nominal cooling capacity	kW	77,3	85,7	103,6	122,0	132,8	147,6	167,3	186,2
Total power input	kW	41,6	48,0	56,3	63,2	72,4	80,7	88,2	96,0
Nominal heating capacity	kW	118,9	133,7	159,8	185,1	205,2	228,3	255,5	282,1
EER		1,86	1,79	1,84	1,93	1,83	1,83	1,90	1,94
COP		2,86	2,79	2,84	2,93	2,83	2,83	2,90	2,94
Heating and cooling (Gross values)	(3),(6)								
Nominal cooling capacity	kW	77,1	85,5	103,3	121,6	132,4	147,3	166,9	185,8
Total power input	kW	42,2	48,6	57,0	64,0	73,3	81,7	89,2	97,1
Nominal heating capacity	kW	119,3	134,1	160,3	185,6	205,8	228,9	256,1	282,9
EER		1,83	1,76	1,81	1,90	1,81	1,80	1,87	1,91
COP		2,83	2,76	2,81	2,90	2,81	2,80	2,87	2,91
Compressors									
Type						Scroll			
Quantity/Cooling circuits	n°/n°	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Capacity steps	n°					25-50-75-100			
Total oil load	l	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans									
Type						Axial			
Quantity	n°	3	3	3	3	4	4	4	4
Air flow	m3/s	17,39	17,39	16,33	16,33	23,31	23,31	21,92	21,92
Evaporator									
Type						With plates			
Quantity		2	2	2	2	2	2	1	1
Water content	l	8	10	11	13	14	16	20	23
Hydraulic system - Cooled water circuit (chiller)									
Available static pressure ST 1P	kPa	201	188	164	172	154	206	199	181
Expansion vessel	l	18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)									
Available static pressure ST 1P	kPa	154	155	128	160	139	145	147	130
Expansion vessel	l	18	18	18	18	18	18	18	18
Noise levels									
Basic unit noise power level	(4) dB(A)	90	90	90	91	92	93	93	94
Basic unit noise pressure level	(5) dB(A)	58	58	58	59	60	61	61	62
LN version noise power level	(4) dB(A)	87	87	88	89	89	90	91	91
LN version noise pressure level	(5) dB(A)	55	55	56	57	57	58	59	59
Basic unit dimensions									
Length	mm	3.210	3.210	4.204	4.204	4.204	4.204	4.204	4.204
Height	mm	2.380	2.380	2.380	2.380	2.380	2.380	2.380	2.380
Depth	mm	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104
Operating weight	kg	1.504	1.556	1.873	2.046	2.220	2.296	2.360	2.403

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 60-65 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 60-65 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S/SLN - TECHNICAL DATA

UNIT SIZE		3.2	4.2	5.2	6.2	7.2	8.2	9.2	11.2
Cooling (Gross values)	(1)								
Nominal cooling capacity	kW	33,0	41,1	54,4	62,2	70,2	86,6	95,1	109,5
Total power input for cooling	kW	10,5	14,9	18,3	22,6	26,4	35,2	39,6	41,1
EER		3,14	2,76	2,97	2,75	2,66	2,46	2,40	2,67
Cooling (EN 14511 values)	(1),(6)								
Nominal cooling capacity	kW	32,8	40,9	54,1	61,9	69,9	86,2	94,7	109,1
Total power input for cooling	kW	10,7	15,1	18,5	22,9	26,7	35,5	40,0	41,5
EER		3,06	2,71	2,92	2,71	2,62	2,43	2,37	2,63
Heating (Gross values)	(2)								
Nominal heating capacity	kW	37,6	49,9	61,0	70,7	85,3	101,3	112,2	126,0
Total power input for heating	kW	11,1	14,2	18,6	21,6	24,8	31,4	34,9	38,6
COP		3,38	3,52	3,28	3,27	3,44	3,23	3,21	3,27
Heating (EN 14511 values)	(2),(6)								
Nominal heating capacity	kW	37,8	50,2	61,3	71,0	85,7	101,7	112,6	126,4
Total power input for heating	kW	11,3	14,4	18,9	21,9	25,2	31,8	35,4	39,0
COP		3,33	3,48	3,24	3,24	3,40	3,20	3,19	3,24
Heating and cooling (Gross values)	(3)								
Nominal cooling capacity	kW	32,5	42,9	54,7	63,9	73,2	89,2	100,2	113,7
Total power input	kW	9,8	12,9	16,9	20,1	23,3	30,0	32,9	35,1
Nominal heating capacity	kW	42,3	55,8	71,6	84,1	96,6	119,2	133,2	148,8
EER		3,31	3,33	3,24	3,18	3,14	2,97	3,05	3,24
COP		4,31	4,33	4,24	4,18	4,14	3,97	4,05	4,24
Heating and cooling (Gross values)	(3),(6)								
Nominal cooling capacity	kW	32,3	42,7	54,5	63,6	72,9	88,8	99,9	113,3
Total power input	kW	10,3	13,4	17,5	20,9	24,1	30,9	33,9	36,1
Nominal heating capacity	kW	42,6	56,1	72,0	84,5	97,0	119,7	133,7	149,5
EER		3,14	3,18	3,10	3,05	3,02	2,88	2,95	3,14
COP		4,14	4,18	4,10	4,05	4,02	3,88	3,95	4,14
Compressors									
Type						Scroll			
Quantity/Cooling circuits	n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps	n°					50-100			
Total oil load	l	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans									
Type						Axial			
Quantity	n°	2	2	3	3	3	3	3	3
Air flow	m3/s	3,8	3,6	6,0	6,0	5,8	12,2	11,4	11,4
Evaporator									
Type						With plates			
Quantity		1	1	1	1	1	1	1	1
Water content	l	3	4	5	6	6	8	9	11
Hydraulic system - Cooled water circuit (chiller)									
Available static pressure ST 1P	kPa	187	163	141	197	187	169	171	183
Expansion vessel	l	18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)									
Available static pressure ST 1P	kPa	152	185	176	161	182	146	152	156
Expansion vessel	l	18	18	18	18	18	18	18	18
Noise levels									
Basic unit noise power level	(4) dB(A)	78	79	81	82	82	83	84	87
Basic unit noise pressure level	(5) dB(A)	46	47	49	50	50	51	52	55
Basic unit dimensions									
Length	mm	2.205	2.205	3.210	3.210	3.210	3.210	3.210	3.210
Height	mm	1.740	1.740	1.740	1.740	1.740	2.380	2.380	2.380
Depth	mm	1.003	1.003	1.104	1.104	1.104	1.104	1.104	1.104
Operating weight	kg	668	708	1.172	1.073	1.158	1.414	1.435	1.452

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 40-45 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 40-45 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S/SLN - TECHNICAL DATA

UNIT SIZE		10.4	11.4	12.4	14.4	16.4	17.4	19.4	21.4
Cooling (Gross values)	(1)								
Nominal cooling capacity	kW	95,2	103,7	124,2	138,7	152,7	179,1	198,0	217,3
Total power input for cooling	kW	33,9	40,2	46,8	55,2	63,5	65,5	73,6	81,6
EER		2,81	2,58	2,65	2,51	2,40	2,73	2,69	2,66
Cooling (EN 14511 values)	(1),(6)								
Nominal cooling capacity	kW	94,8	103,3	123,8	138,2	152,3	178,5	197,5	216,8
Total power input for cooling	kW	34,2	40,5	47,2	55,7	64,0	66,1	74,1	82,1
EER		2,77	2,55	2,62	2,48	2,38	2,70	2,66	2,64
Heating (Gross values)	(2)								
Nominal heating capacity	kW	110,4	121,7	143,1	159,3	187,7	209,3	227,8	244,7
Total power input for heating	kW	33,9	38,3	44,5	49,3	57,6	64,8	70,1	75,3
COP		3,25	3,18	3,21	3,23	3,26	3,23	3,25	3,25
Heating (EN 14511 values)	(2),(6)								
Nominal heating capacity	kW	110,8	122,2	143,6	159,8	188,3	210,0	228,5	245,4
Total power input for heating	kW	34,3	38,7	45,0	49,8	58,2	65,4	70,8	76,1
COP		3,23	3,16	3,19	3,21	3,24	3,21	3,23	3,23
Heating and cooling (Gross values)	(3)								
Nominal cooling capacity	kW	98,4	106,6	129,8	148,7	161,6	179,4	201,9	225,9
Total power input	kW	29,2	34,9	40,0	46,4	53,3	59,3	65,3	70,5
Nominal heating capacity	kW	127,5	141,5	169,8	195,1	214,8	238,8	267,2	296,4
EER		3,37	3,06	3,25	3,21	3,03	3,02	3,09	3,20
COP		4,37	4,06	4,25	4,21	4,03	4,02	4,09	4,20
Heating and cooling (Gross values)	(3),(6)								
Nominal cooling capacity	kW	98,0	106,2	129,3	148,2	161,0	178,9	201,4	225,3
Total power input	kW	30,1	35,9	41,2	47,6	54,6	60,8	66,7	72,2
Nominal heating capacity	kW	128,1	142,1	170,5	195,8	215,6	239,6	268,1	297,5
EER		3,25	2,96	3,14	3,11	2,95	2,94	3,02	3,12
COP		4,25	3,96	4,14	4,11	3,95	3,94	4,02	4,12
Compressors									
Type						Scroll			
Quantity/Cooling circuits	n°/n°	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Capacity steps	n°					25-50-75-100			
Total oil load	l	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans									
Type						Axial			
Quantity	n°	3	3	4	4	4	5	5	5
Air flow	m3/s	11,4	11,4	16,3	16,3	15,3	19,4	19,4	19,4
Evaporator									
Type						With plates			
Quantity		2	2	2	2	2	2	1	1
Water content	l	8	10	11	13	14	16	20	23
Hydraulic system - Cooled water circuit (chiller)									
Available static pressure ST 1P	kPa	201	188	164	172	154	206	199	181
Expansion vessel	l	18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)									
Available static pressure ST 1P	kPa	154	155	128	160	139	145	147	130
Expansion vessel	l	18	18	18	18	18	18	18	18
Noise levels									
Basic unit noise power level	(4) dB(A)	85	85	86	87	87	88	89	89
Basic unit noise pressure level	(5) dB(A)	53	53	54	55	55	56	57	57
Basic unit dimensions									
Length	mm	3210	3210	4204	4204	4204	5204	5204	5204
Height	mm	2380	2380	2380	2380	2380	2380	2380	2380
Depth	mm	1104	1104	1104	1104	1104	1104	1104	1104
Operating weight	kg	1504	1556	1913	2065	2220	2565	2607	2673

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 40-45 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 40-45 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S/LT - TECHNICAL DATA

UNIT SIZE		3.2	4.2	5.2	6.2	7.2	8.2	9.2	11.2
Cooling (Gross values) (1)									
Nominal cooling capacity	kW	32,7	43,0	55,7	63,9	73,1	91,4	103,8	114,9
Total power input for cooling	kW	10,7	14,3	18,2	22,0	25,3	33,9	36,4	39,7
EER		3,07	3,01	3,07	2,91	2,89	2,70	2,85	2,90
Cooling (EN 14511 values) (1),(6)									
Nominal cooling capacity	kW	32,5	42,7	55,5	63,6	72,8	91,1	103,3	114,5
Total power input for cooling	kW	10,8	14,5	18,4	22,3	25,6	34,3	36,8	40,1
EER		3,00	2,95	3,01	2,86	2,84	2,66	2,81	2,86
Heating (Gross values) (2)									
Nominal heating capacity	kW	37,6	49,9	61,0	70,7	85,3	101,3	112,2	126,0
Total power input for heating	kW	11,1	14,2	18,6	21,6	24,8	31,4	34,9	38,6
COP		3,38	3,52	3,28	3,27	3,44	3,23	3,21	3,27
Heating (EN 14511 values) (2),(6)									
Nominal heating capacity	kW	37,8	50,2	61,3	71,0	85,7	101,7	112,6	126,4
Total power input for heating	kW	11,3	14,4	18,9	21,9	25,2	31,8	35,4	39,0
COP		3,33	3,48	3,24	3,24	3,40	3,20	3,19	3,24
Heating and cooling (Gross values) (3)									
Nominal cooling capacity	kW	32,5	42,9	54,7	63,9	73,2	89,2	100,2	113,7
Total power input	kW	9,8	12,9	16,9	20,1	23,3	30,0	32,9	35,1
Nominal heating capacity	kW	42,3	55,8	71,6	84,1	96,6	119,2	133,2	148,8
EER		3,31	3,33	3,24	3,18	3,14	2,97	3,05	3,24
COP		4,31	4,33	4,24	4,18	4,14	3,97	4,05	4,24
Heating and cooling (Gross values) (3),(6)									
Nominal cooling capacity	kW	32,3	42,7	54,5	63,6	72,9	88,8	99,9	113,3
Total power input	kW	10,3	13,4	17,5	20,9	24,1	30,9	33,9	36,1
Nominal heating capacity	kW	42,6	56,1	72,0	84,5	97,0	119,7	133,7	149,5
EER		3,14	3,18	3,10	3,05	3,02	2,88	2,95	3,14
COP		4,14	4,18	4,10	4,05	4,02	3,88	3,95	4,14
Compressors									
Type		Scroll							
Quantity/Cooling circuits	n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps	n°	50-100							
Total oil load	l	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans									
Type		Axial							
Quantity	n°	2	2	3	3	3	3	3	3
Air flow	m3/s	5,5	5,2	8,6	8,6	8,3	17,4	16,3	16,3
Evaporator									
Type		With plates							
Quantity		1	1	1	1	1	1	1	1
Water content	l	3	4	5	6	6	8	9	11
Hydraulic system - Cooled water circuit (chiller)									
Available static pressure ST 1P	kPa	187	163	141	197	187	169	171	183
Expansion vessel	l	18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)									
Available static pressure ST 1P	kPa	152	185	176	161	182	146	152	156
Expansion vessel	l	18	18	18	18	18	18	18	18
Noise levels									
Basic unit noise power level	(4) dB(A)	83	84	87	87	87	87	86	89
Basic unit noise pressure level	(5) dB(A)	51	52	55	55	55	55	54	57
LN version noise power level	(4) dB(A)	80	81	85	84	85	85	85	86
LN version noise pressure level	(5) dB(A)	48	49	53	52	53	53	53	54
Basic unit dimensions									
Length	mm	2.205	2.205	3.210	3.210	3.210	3.210	3.210	3.210
Height	mm	1.740	1.740	1.740	1.740	1.740	2.380	2.380	2.380
Depth	mm	1.003	1.003	1.104	1.104	1.104	1.104	1.104	1.104
Operating weight	kg	668	708	1.172	1.073	1.158	1.414	1.435	1.452

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 40-45 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 40-45 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S/LT - TECHNICAL DATA

UNIT SIZE		10.4	11.4	12.4	14.4	16.4	17.4	19.4	21.4
Cooling (Gross values)	(1)								
Nominal cooling capacity	kW	101,2	109,5	131,3	147,9	163,3	185,6	206,0	227,0
Total power input for cooling	kW	32,9	38,5	45,3	52,8	59,2	64,5	71,6	78,6
EER		3,07	2,84	2,90	2,80	2,76	2,88	2,88	2,89
Cooling (EN 14511 values)	(1),(6)								
Nominal cooling capacity	kW	100,8	109,1	130,8	147,4	162,8	185,0	205,4	226,4
Total power input for cooling	kW	33,3	38,9	45,8	53,3	59,8	65,1	72,2	79,2
EER		3,02	2,80	2,86	2,77	2,72	2,84	2,85	2,86
Heating (Gross values)	(2)								
Nominal heating capacity	kW	110,4	121,7	143,1	159,3	187,7	209,3	227,8	244,7
Total power input for heating	kW	33,9	38,3	44,5	49,3	57,6	64,8	70,1	75,3
COP		3,25	3,18	3,21	3,23	3,26	3,23	3,25	3,25
Heating (EN 14511 values)	(2),(6)								
Nominal heating capacity	kW	110,8	122,2	143,6	159,8	188,3	210,0	228,5	245,4
Total power input for heating	kW	34,3	38,7	45,0	49,8	58,2	65,4	70,8	76,1
COP		3,23	3,16	3,19	3,21	3,24	3,21	3,23	3,23
Heating and cooling (Gross values)	(3)								
Nominal cooling capacity	kW	98,4	106,6	129,8	148,7	161,6	179,4	201,9	225,9
Total power input	kW	29,2	34,9	40,0	46,4	53,3	59,3	65,3	70,5
Nominal heating capacity	kW	127,5	141,5	169,8	195,1	214,8	238,8	267,2	296,4
EER		3,37	3,06	3,25	3,21	3,03	3,02	3,09	3,20
COP		4,37	4,06	4,25	4,21	4,03	4,02	4,09	4,20
Heating and cooling (Gross values)	(3),(6)								
Nominal cooling capacity	kW	98,0	106,2	129,3	148,2	161,0	178,9	201,4	225,3
Total power input	kW	30,1	35,9	41,2	47,6	54,6	60,8	66,7	72,2
Nominal heating capacity	kW	128,1	142,1	170,5	195,8	215,6	239,6	268,1	297,5
EER		3,25	2,96	3,14	3,11	2,95	2,94	3,02	3,12
COP		4,25	3,96	4,14	4,11	3,95	3,94	4,02	4,12
Compressors									
Type						Scroll			
Quantity/Cooling circuits	n°/n°	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Capacity steps	n°					25-50-75-100			
Total oil load	l	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans									
Type						Axial			
Quantity	n°	3	3	4	4	4	5	5	5
Air flow	m3/s	16,3	16,3	23,3	23,3	21,9	27,7	27,7	27,7
Evaporator									
Type						With plates			
Quantity		2	2	2	2	2	2	1	1
Water content	l	8	10	11	13	14	16	20	23
Hydraulic system - Cooled water circuit (chiller)									
Available static pressure ST 1P	kPa	201	188	164	172	154	206	199	181
Expansion vessel	l	18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)									
Available static pressure ST 1P	kPa	154	155	128	160	139	145	147	130
Expansion vessel	l	18	18	18	18	18	18	18	18
Noise levels									
Basic unit noise power level	(4) dB(A)	88	91	91	92	92	95	95	96
Basic unit noise pressure level	(5) dB(A)	56	59	59	60	60	63	63	64
LN version noise power level	(4) dB(A)	84	91	89	89	89	92	94	93
LN version noise pressure level	(5) dB(A)	52	59	57	57	57	60	62	61
Basic unit dimensions									
Length	mm	3.210	3.210	4.204	4.204	4.204	5.204	5.204	5.204
Height	mm	2.380	2.380	2.380	2.380	2.380	2.380	2.380	2.380
Depth	mm	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104
Operating weight	kg	1.504	1.556	1.913	2.065	2.220	2.565	2.607	2.673

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 40-45 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 40-45 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S HT/SLN - TECHNICAL DATA

UNIT SIZE		3.2	4.2	5.2	6.2	7.2	8.2	9.2	11.2
Cooling (Gross values)	(1)								
Nominal cooling capacity	kW	33,0	41,1	54,4	62,2	70,2	86,6	95,1	109,5
Total power input for cooling	kW	10,5	14,9	18,3	22,6	26,4	35,2	39,6	41,1
EER		3,14	2,76	2,97	2,75	2,66	2,46	2,40	2,67
Cooling (EN 14511 values)	(1),(6)								
Nominal cooling capacity	kW	32,8	40,9	54,1	61,9	69,9	86,2	94,7	109,1
Total power input for cooling	kW	10,7	15,1	18,5	22,9	26,7	35,5	40,0	41,5
EER		3,06	2,71	2,92	2,71	2,62	2,43	2,37	2,63
Heating (Gross values)	(2)								
Nominal heating capacity	kW	36,6	48,8	61,3	71,0	84,2	104,4	115,2	126,3
Total power input for heating	kW	16,7	21,1	27,2	31,1	35,1	43,7	47,5	51,2
COP		2,19	2,31	2,26	2,28	2,40	2,39	2,43	2,47
Heating (EN 14511 values)	(2),(6)								
Nominal heating capacity	kW	36,7	49,0	61,5	71,3	84,5	104,7	115,5	126,7
Total power input for heating	kW	16,8	21,3	27,4	31,3	35,4	44,0	47,8	51,5
COP		2,18	2,30	2,25	2,27	2,39	2,38	2,42	2,46
Heating and cooling (Gross values)	(3)								
Nominal cooling capacity	kW	25,1	33,8	43,2	51,3	59,6	73,8	83,0	93,3
Total power input	kW	14,3	18,6	24,0	28,1	32,1	40,3	44,2	47,9
Nominal heating capacity	kW	39,3	52,4	67,2	79,4	91,7	114,2	127,2	141,1
EER		1,75	1,81	1,80	1,82	1,85	1,83	1,88	1,95
COP		2,75	2,81	2,80	2,82	2,85	2,83	2,88	2,95
Heating and cooling (Gross values)	(3),(6)								
Nominal cooling capacity	kW	24,9	33,7	43,0	51,1	59,4	73,6	82,7	93,0
Total power input	kW	14,6	19,0	24,4	28,6	32,6	41,0	44,9	48,6
Nominal heating capacity	kW	39,5	52,6	67,4	79,7	92,0	114,5	127,6	141,6
EER		1,71	1,77	1,76	1,79	1,82	1,80	1,84	1,91
COP		2,71	2,77	2,76	2,79	2,82	2,80	2,84	2,91
Compressors									
Type						Scroll			
Quantity/Cooling circuits	n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps	n°					50-100			
Total oil load	l	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans									
Type						Axial			
Quantity	n°	2	2	3	3	3	3	3	3
Air flow	m3/s	3,8	3,6	6,0	6,0	5,8	12,2	11,4	11,4
Evaporator									
Type						With plates			
Quantity		1	1	1	1	1	1	1	1
Water content	l	3	4	5	6	6	8	9	11
Hydraulic system - Cooled water circuit (chiller)									
Available static pressure ST 1P	kPa	187	163	141	197	187	169	171	183
Expansion vessel	l	18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)									
Available static pressure ST 1P	kPa	152	185	176	161	182	146	152	156
Expansion vessel	l	18	18	18	18	18	18	18	18
Noise levels									
Basic unit noise power level	(4) dB(A)	78	79	81	82	82	83	84	87
Basic unit noise pressure level	(5) dB(A)	46	47	49	50	50	51	52	55
Basic unit dimensions									
Length	mm	2.205	2.205	3.210	3.210	3.210	3.210	3.210	3.210
Height	mm	1.740	1.740	1.740	1.740	1.740	2.380	2.380	2.380
Depth	mm	1.003	1.003	1.104	1.104	1.104	1.104	1.104	1.104
Operating weight	kg	668	708	1.172	1.073	1.158	1.414	1.435	1.452

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 60-65 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 60-65 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S HT/SLN - TECHNICAL DATA

UNIT SIZE		10.4	11.4	12.4	14.4	16.4	17.4	19.4	21.4
Cooling (Gross values)	(1)								
Nominal cooling capacity	kW	95,2	103,7	124,2	138,7	152,7	179,1	198,0	217,3
Total power input for cooling	kW	33,9	40,2	46,8	55,2	63,5	65,5	73,6	81,6
EER		2,81	2,58	2,65	2,51	2,40	2,73	2,69	2,66
Cooling (EN 14511 values)	(1),(6)								
Nominal cooling capacity	kW	94,8	103,3	123,8	138,2	152,3	178,5	197,5	216,8
Total power input for cooling	kW	34,2	40,5	47,2	55,7	64,0	66,1	74,1	82,1
EER		2,77	2,55	2,62	2,48	2,38	2,70	2,66	2,64
Heating (Gross values)	(2)								
Nominal heating capacity	kW	107,8	119,8	144,5	162,2	185,9	209,9	228,7	247,8
Total power input for heating	kW	45,3	51,5	60,6	69,4	76,2	85,3	92,6	99,8
COP		2,38	2,33	2,39	2,34	2,44	2,46	2,47	2,48
Heating (EN 14511 values)	(2),(6)								
Nominal heating capacity	kW	108,1	120,1	144,9	162,6	186,4	210,4	229,2	248,4
Total power input for heating	kW	45,6	51,8	60,9	69,7	76,6	85,8	93,1	100,4
COP		2,37	2,32	2,38	2,33	2,43	2,45	2,46	2,47
Heating and cooling (Gross values)	(3)								
Nominal cooling capacity	kW	77,3	85,7	103,6	122,0	132,8	147,6	167,3	186,2
Total power input	kW	41,6	48,0	56,3	63,2	72,4	80,7	88,2	96,0
Nominal heating capacity	kW	118,9	133,7	159,8	185,1	205,2	228,3	255,5	282,1
EER		1,86	1,79	1,84	1,93	1,83	1,83	1,90	1,94
COP		2,86	2,79	2,84	2,93	2,83	2,83	2,90	2,94
Heating and cooling (Gross values)	(3),(6)								
Nominal cooling capacity	kW	77,1	85,5	103,3	121,6	132,4	147,3	166,9	185,8
Total power input	kW	42,2	48,6	57,0	64,0	73,3	81,7	89,2	97,1
Nominal heating capacity	kW	119,3	134,1	160,3	185,6	205,8	228,9	256,1	282,9
EER		1,83	1,76	1,81	1,90	1,81	1,80	1,87	1,91
COP		2,83	2,76	2,81	2,90	2,81	2,80	2,87	2,91
Compressors									
Type						Scroll			
Quantity/Cooling circuits	n°/n°	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Capacity steps	n°					25-50-75-100			
Total oil load	l	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans									
Type						Axial			
Quantity	n°	3	3	4	4	4	5	5	5
Air flow	m3/s	11,4	11,4	16,3	16,3	15,3	19,4	19,4	19,4
Evaporator									
Type						With plates			
Quantity		2	2	2	2	2	2	1	1
Water content	l	8	10	11	13	14	16	20	23
Hydraulic system - Cooled water circuit (chiller)									
Available static pressure ST 1P	kPa	201	188	164	172	154	206	199	181
Expansion vessel	l	18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)									
Available static pressure ST 1P	kPa	154	155	128	160	139	145	147	130
Expansion vessel	l	18	18	18	18	18	18	18	18
Noise levels									
Basic unit noise power level	(4) dB(A)	85	85	86	87	87	88	89	89
Basic unit noise pressure level	(5) dB(A)	53	53	54	55	55	56	57	57
Basic unit dimensions									
Length	mm	3.210	3.210	4.204	4.204	4.204	5.204	5.204	5.204
Height	mm	2.380	2.380	2.380	2.380	2.380	2.380	2.380	2.380
Depth	mm	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104
Operating weight	kg	1.504	1.556	1.913	2.065	2.220	2.565	2.607	2.673

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 60-65 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 60-65 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S HT/LT - TECHNICAL DATA

UNIT SIZE		3.2	4.2	5.2	6.2	7.2	8.2	9.2	11.2
Cooling (Gross values) (1)									
Nominal cooling capacity	kW	32,7	43,0	55,7	63,9	73,1	91,4	103,8	114,9
Total power input for cooling	kW	10,7	14,3	18,2	22,0	25,3	33,9	36,4	39,7
EER		3,07	3,01	3,07	2,91	2,89	2,70	2,85	2,90
Cooling (EN 14511 values) (1),(6)									
Nominal cooling capacity	kW	32,5	42,7	55,5	63,6	72,8	91,1	103,3	114,5
Total power input for cooling	kW	10,8	14,5	18,4	22,3	25,6	34,3	36,8	40,1
EER		3,00	2,95	3,01	2,86	2,84	2,66	2,81	2,86
Heating (Gross values) (2)									
Nominal heating capacity	kW	36,6	48,8	61,3	71,0	84,2	104,4	115,2	126,3
Total power input for heating	kW	16,7	21,1	27,2	31,1	35,1	43,7	47,5	51,2
COP		2,19	2,31	2,26	2,28	2,40	2,39	2,43	2,47
Heating (EN 14511 values) (2),(6)									
Nominal heating capacity	kW	36,7	49,0	61,5	71,3	84,5	104,7	115,5	126,7
Total power input for heating	kW	16,8	21,3	27,4	31,3	35,4	44,0	47,8	51,5
COP		2,18	2,30	2,25	2,27	2,39	2,38	2,42	2,46
Heating and cooling (Gross values) (3)									
Nominal cooling capacity	kW	25,1	33,8	43,2	51,3	59,6	73,8	83,0	93,3
Total power input	kW	14,3	18,6	24,0	28,1	32,1	40,3	44,2	47,9
Nominal heating capacity	kW	39,3	52,4	67,2	79,4	91,7	114,2	127,2	141,1
EER		1,75	1,81	1,80	1,82	1,85	1,83	1,88	1,95
COP		2,75	2,81	2,80	2,82	2,85	2,83	2,88	2,95
Heating and cooling (Gross values) (3),(6)									
Nominal cooling capacity	kW	24,9	33,7	43,0	51,1	59,4	73,6	82,7	93,0
Total power input	kW	14,6	19,0	24,4	28,6	32,6	41,0	44,9	48,6
Nominal heating capacity	kW	39,5	52,6	67,4	79,7	92,0	114,5	127,6	141,6
EER		1,71	1,77	1,76	1,79	1,82	1,80	1,84	1,91
COP		2,71	2,77	2,76	2,79	2,82	2,80	2,84	2,91
Compressors									
Type		Scroll							
Quantity/Cooling circuits	n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps	n°	50-100							
Total oil load	l	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans									
Type		Axial							
Quantity	n°	2	2	3	3	3	3	3	3
Air flow	m3/s	5,5	5,2	8,6	8,6	8,3	17,4	16,3	16,3
Evaporator									
Type		With plates							
Quantity		1	1	1	1	1	1	1	1
Water content	l	3	4	5	6	6	8	9	11
Hydraulic system - Cooled water circuit (chiller)									
Available static pressure ST 1P	kPa	187	163	141	197	187	169	171	183
Expansion vessel	l	18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)									
Available static pressure ST 1P	kPa	152	185	176	161	182	146	152	156
Expansion vessel	l	18	18	18	18	18	18	18	18
Noise levels									
Basic unit noise power level	(4) dB(A)	83	84	87	87	87	87	86	89
Basic unit noise pressure level	(5) dB(A)	51	52	55	55	55	55	54	57
LN version noise power level	(4) dB(A)	80	81	85	84	85	85	85	86
LN version noise pressure level	(5) dB(A)	48	49	53	52	53	53	53	54
Basic unit dimensions									
Length	mm	2.205	2.205	3.210	3.210	3.210	3.210	3.210	3.210
Height	mm	1.740	1.740	1.740	1.740	1.740	2.380	2.380	2.380
Depth	mm	1.003	1.003	1.104	1.104	1.104	1.104	1.104	1.104
Operating weight	kg	668	708	1.172	1.073	1.158	1.414	1.435	1.452

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 60-65 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 60-65 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S HT/LT - TECHNICAL DATA

UNIT SIZE		10.4	11.4	12.4	14.4	16.4	17.4	19.4	21.4
Cooling (Gross values)	(1)								
Nominal cooling capacity	kW	101,2	109,5	131,3	147,9	163,3	185,6	206,0	227,0
Total power input for cooling	kW	32,9	38,5	45,3	52,8	59,2	64,5	71,6	78,6
EER		3,07	2,84	2,90	2,80	2,76	2,88	2,88	2,89
Cooling (EN 14511 values)	(1),(6)								
Nominal cooling capacity	kW	100,8	109,1	130,8	147,4	162,8	185,0	205,4	226,4
Total power input for cooling	kW	33,3	38,9	45,8	53,3	59,8	65,1	72,2	79,2
EER		3,02	2,80	2,86	2,77	2,72	2,84	2,85	2,86
Heating (Gross values)	(2)								
Nominal heating capacity	kW	107,8	119,8	144,5	162,2	185,9	209,9	228,7	247,8
Total power input for heating	kW	45,3	51,5	60,6	69,4	76,2	85,3	92,6	99,8
COP		2,38	2,33	2,39	2,34	2,44	2,46	2,47	2,48
Heating (EN 14511 values)	(2),(6)								
Nominal heating capacity	kW	108,1	120,1	144,9	162,6	186,4	210,4	229,2	248,4
Total power input for heating	kW	45,6	51,8	60,9	69,7	76,6	85,8	93,1	100,4
COP		2,37	2,32	2,38	2,33	2,43	2,45	2,46	2,47
Heating and cooling (Gross values)	(3)								
Nominal cooling capacity	kW	77,3	85,7	103,6	122,0	132,8	147,6	167,3	186,2
Total power input	kW	41,6	48,0	56,3	63,2	72,4	80,7	88,2	96,0
Nominal heating capacity	kW	118,9	133,7	159,8	185,1	205,2	228,3	255,5	282,1
EER		1,86	1,79	1,84	1,93	1,83	1,83	1,90	1,94
COP		2,86	2,79	2,84	2,93	2,83	2,83	2,90	2,94
Heating and cooling (Gross values)	(3),(6)								
Nominal cooling capacity	kW	77,1	85,5	103,3	121,6	132,4	147,3	166,9	185,8
Total power input	kW	42,2	48,6	57,0	64,0	73,3	81,7	89,2	97,1
Nominal heating capacity	kW	119,3	134,1	160,3	185,6	205,8	228,9	256,1	282,9
EER		1,83	1,76	1,81	1,90	1,81	1,80	1,87	1,91
COP		2,83	2,76	2,81	2,90	2,81	2,80	2,87	2,91
Compressors									
Type						Scroll			
Quantity/Cooling circuits	n°/n°	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Capacity steps	n°					25-50-75-100			
Total oil load	l	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Fans									
Type						Axial			
Quantity	n°	3	3	4	4	4	5	5	5
Air flow	m3/s	16,3	16,3	23,3	23,3	21,9	27,7	27,7	27,7
Evaporator									
Type						With plates			
Quantity		2	2	2	2	2	2	1	1
Water content	l	8	10	11	13	14	16	20	23
Hydraulic system - Cooled water circuit (chiller)									
Available static pressure ST 1P	kPa	201	188	164	172	154	206	199	181
Expansion vessel	l	18	18	18	18	18	18	18	18
Hydraulic system - Hot water circuit (total recovery)									
Available static pressure ST 1P	kPa	154	155	128	160	139	145	147	130
Expansion vessel	l	18	18	18	18	18	18	18	18
Noise levels									
Basic unit noise power level	(4) dB(A)	88	91	91	92	92	95	95	96
Basic unit noise pressure level	(5) dB(A)	56	59	59	60	60	63	63	64
LN version noise power level	(4) dB(A)	84	91	89	89	89	92	94	93
LN version noise pressure level	(5) dB(A)	52	59	57	57	57	60	62	61
Basic unit dimensions									
Length	mm	3.210	3.210	4.204	4.204	4.204	5.204	5.204	5.204
Height	mm	2.380	2.380	2.380	2.380	2.380	2.380	2.380	2.380
Depth	mm	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104
Operating weight	kg	1.504	1.556	1.913	2.065	2.220	2.565	2.607	2.673

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)External air temperature 7°C BS, 87% UR; condenser ingoing-outgoing water temperature 60-65 °C

(3)Evaporator ingoing-outgoing water temperature 12-7°C; condenser ingoing-outgoing water temperature 60-65 °C

(4)Lw: sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

(5)Lp: sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)Values according to EN 14511-3:2011

OMICRON S /LN -ELECTRICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2	8.2
Maximum absorbed power	(1),(4)	kW	16 (18,3)	21 (23,5)	27 (29,2)	32 (35,1)	37 (40,1)	45 (48,7)
Maximum absorbed current	(2),(4)	A	34 (39,3)	40 (46,5)	52 (57,8)	61 (68,3)	68 (73,9)	85 (93,5)
Maximum input current	(3),(4)	A	150 (155,4)	171 (177,3)	204 (210,1)	247 (254,1)	254 (259,6)	317 (325,7)
Fan nominal power		n° x kW	2 x 0,8	2 x 0,8	2 x 0,8	3 x 0,8	3 x 0,8	3 x 0,8
Fan nominal current		n° x A	2 x 3,35	2 x 3,35	2 x 3,35	3 x 3,35	3 x 3,35	3 x 3,35
Pump motor nominal power								
Cooled water circuit		kW	0,9	0,9	0,9	1,5	1,5	1,5
Hot water circuit		kW	0,9	1,5	1,5	1,5	1,9	1,9
Pump motor nominal current								
Cooled water circuit		A	2,6	2,6	2,6	3,5	3,5	3,5
Hot water circuit		A	2,6	3,5	3,5	3,5	2,5	5,0
Main power supply		V/ph/Hz	400/3N~/50					
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			9.2	11.2	10.4	11.4	12.4	14.4
Maximum absorbed power	(1),(4)	kW	49 (53,2)	57 (60,7)	49 (53,4)	56 (60,2)	65 (69,7)	75 (79,7)
Maximum absorbed current	(2),(4)	A	89 (97,6)	95 (105,1)	88 (97,7)	102 (111,9)	115 (124,8)	128 (139,4)
Maximum input current	(3),(4)	A	367 (375,5)	373 (383,0)	219 (228,5)	254 (264,2)	301 (310,5)	314 (325,1)
Fan nominal power		n° x kW	3 x 0,8	3 x 2,0	3 x 2,0	3 x 2,0	3 x 2,0	3 x 2,0
Fan nominal current		n° x A	3 x 3,35	3 x 4,3	3 x 4,3	3 x 4,3	3 x 4,3	3 x 4,3
Pump motor nominal power								
Cooled water circuit		kW	1,5	1,9	1,9	1,9	2,2	2,2
Hot water circuit		kW	2,2	2,2	2,2	2,2	2,2	3,0
Pump motor nominal current								
Cooled water circuit		A	3,5	5,0	5,0	5,0	4,8	4,8
Hot water circuit		A	4,8	4,8	4,8	4,8	4,8	6,4
Main power supply		V/ph/Hz	400/3N~/50			400/3~/50		
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			16.4	17.4	19.4	21.4
Maximum absorbed power	(1),(4)	kW	85 (90,1)	94 (100,6)	102 (108,7)	110 (116,9)
Maximum absorbed current	(2),(4)	A	149 (160,3)	166 (181,1)	175 (189,6)	183 (198,1)
Maximum input current	(3),(4)	A	381 (392,4)	398 (413,2)	453 (467,5)	461 (476,0)
Fan nominal power		n° x kW	4 x 2,0	4 x 2,0	4 x 2,0	4 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
Pump motor nominal power						
Cooled water circuit		kW	2,2	3,0	3,0	3,0
Hot water circuit		kW	3,0	4,0	4,0	4,0
Pump motor nominal current						
Cooled water circuit		A	4,8	6,4	6,4	6,4
Hot water circuit		A	6,4	8,4	8,4	8,4
Main power supply		V/ph/Hz	400/3~/50			
Auxiliary power supply		V/ph/Hz	230/1~/50			

(1) Electrical power that must be supplied by the mains to power the unit.

(2) Internal breakers tripping current. This value is never exceeded and must be used to size the line and its protections.

(3) Maximum input current calculated considering the power of the compressor with max. power and the max. current absorbed by all other devices.

(4) The values in brackets refer to the ST version unit (with storage tank and pumps or units with pumps only)

OMICRON S /HT -ELECTRICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2	8.2
Maximum absorbed power	(1),(4)	kW	16	21	27	32	37	45
			(18,3)	(23,5)	(29,2)	(35,1)	(40,1)	(48,7)
Maximum absorbed current	(2),(4)	A	34	40	52	61	68	85
			(39,3)	(46,5)	(57,8)	(68,3)	(73,9)	(93,5)
Maximum input current	(3),(4)	A	150	171	204	247	254	317
			(155,4)	(177,3)	(210,1)	(254,1)	(259,6)	(325,7)
Fan nominal power		n° x kW	2 x 0,8	2 x 0,8	2 x 0,8	3 x 0,8	3 x 0,8	3 x 0,8
Fan nominal current		n° x A	2 x 3,35	2 x 3,35	2 x 3,35	3 x 3,35	3 x 3,35	3 x 4,3
Pump motor nominal power								
Cooled water circuit		kW	0,9	0,9	0,9	1,5	1,5	1,5
Hot water circuit		kW	0,9	1,5	1,5	1,5	1,9	1,9
Pump motor nominal current								
Cooled water circuit		A	2,6	2,6	2,6	3,5	3,5	3,5
Hot water circuit		A	2,6	3,5	3,5	3,5	2,5	5,0
Main power supply		V/ph/Hz	400/3N~/50					
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			9.2	11.2	10.4	11.4	12.4	14.4
Maximum absorbed power	(1),(4)	kW	49	57	49	56	65	75
			(53,2)	(60,7)	(53,4)	(60,2)	(69,7)	(79,7)
Maximum absorbed current	(2),(4)	A	89	95	88	102	115	128
			(97,6)	(105,1)	(97,7)	(111,9)	(124,8)	(139,4)
Maximum input current	(3),(4)	A	367	373	219	254	301	314
			(375,5)	(383,0)	(228,5)	(264,2)	(310,5)	(325,1)
Fan nominal power		n° x kW	3 x 0,8	3 x 2,0	3 x 2,0	3 x 2,0	3 x 2,0	3 x 2,0
Fan nominal current		n° x A	3 x 4,3	3 x 4,3	3 x 4,3	3 x 4,3	3 x 4,3	3 x 4,3
Pump motor nominal power								
Cooled water circuit		kW	1,5	1,9	1,9	1,9	2,2	2,2
Hot water circuit		kW	2,2	2,2	2,2	2,2	2,2	3,0
Pump motor nominal current								
Cooled water circuit		A	3,5	5,0	5,0	5,0	4,8	4,8
Hot water circuit		A	4,8	4,8	4,8	4,8	4,8	6,4
Main power supply		V/ph/Hz	400/3N~/50			400/3~/50		
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			16.4	17.4	19.4	21.4
Maximum absorbed power	(1),(4)	kW	85	94	102	110
			(90,1)	(100,6)	(108,7)	(116,9)
Maximum absorbed current	(2),(4)	A	149	166	175	183
			(160,3)	(181,1)	(189,6)	(198,1)
Maximum input current	(3),(4)	A	381	398	453	461
			(392,4)	(413,2)	(467,5)	(476,0)
Fan nominal power		n° x kW	4 x 2,0	4 x 2,0	4 x 2,0	4 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
Pump motor nominal power						
Cooled water circuit		kW	2,2	3,0	3,0	3,0
Hot water circuit		kW	3,0	4,0	4,0	4,0
Pump motor nominal current						
Cooled water circuit		A	4,8	6,4	6,4	6,4
Hot water circuit		A	6,4	8,4	8,4	8,4
Main power supply		V/ph/Hz	400/3~/50			
Auxiliary power supply		V/ph/Hz	230/1~/50			

(1) Electrical power that must be supplied by the mains to power the unit.

(2) Internal breakers tripping current. This value is never exceeded and must be used to size the line and its protections.

(3) Maximum input current calculated considering the power of the compressor with max. power and the max. current absorbed by all other devices.

(4) The values in brackets refer to the ST version unit (with storage tank and pumps or units with pumps only)

OMICRON S /SLN -ELECTRICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2	8.2
Maximum absorbed power	(1),(4)	kW	16 (17,8)	21 (23,1)	27 (29,3)	32 (34,5)	36 (39,5)	47 (50,2)
Maximum absorbed current	(2),(4)	A	32 (37,4)	39 (44,7)	52 (58,2)	59 (65,5)	65 (71,1)	83 (91,7)
Maximum input current	(3),(4)	A	148 (153,5)	169 (175,5)	204 (210,4)	244 (251,3)	251 (256,8)	315 (323,9)
Fan nominal power		n° x kW	2 x 0,8	2 x 0,8	3 x 0,8	3 x 0,8	3 x 0,8	3 x 2,0
Fan nominal current		n° x A	2 x 3,35	2 x 3,35	3 x 3,35	3 x 3,35	3 x 3,35	3 x 4,3
Pump motor nominal power								
Cooled water circuit		kW	0,9	0,9	0,9	1,5	1,5	1,5
Hot water circuit		kW	0,9	1,5	1,5	1,5	1,9	1,9
Pump motor nominal current								
Cooled water circuit		A	2,6	2,6	2,6	3,5	3,5	3,5
Hot water circuit		A	2,6	3,5	3,5	3,5	2,5	5,0
Main power supply		V/ph/Hz	400/3N~/50					
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			9.2	11.2	10.4	11.4	12.4	14.4
Maximum absorbed power	(1),(4)	kW	51 (54,7)	55 (59,1)	48 (51,8)	54 (58,5)	65 (69,3)	74 (79,3)
Maximum absorbed current	(2),(4)	A	88 (95,8)	92 (101,5)	84 (94,1)	99 (108,3)	114 (123,7)	127 (138,3)
Maximum input current	(3),(4)	A	365 (373,7)	370 (379,4)	215 (224,9)	251 (260,6)	300 (309,4)	313 (324,0)
Fan nominal power		n° x kW	3 x 2,0	3 x 2,0	3 x 2,0	3 x 2,0	4 x 2,0	4 x 2,0
Fan nominal current		n° x A	3 x 4,3	3 x 4,3	3 x 4,3	3 x 4,3	4 x 4,3	4 x 4,3
Pump motor nominal power								
Cooled water circuit		kW	1,5	1,9	1,9	1,9	2,2	2,2
Hot water circuit		kW	2,2	2,2	2,2	2,2	2,2	3,0
Pump motor nominal current								
Cooled water circuit		A	3,5	5,0	5,0	5,0	4,8	4,8
Hot water circuit		A	4,8	4,8	4,8	4,8	4,8	6,4
Main power supply		V/ph/Hz	400/3N~/50		400/3~/50			
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			16.4	17.4	19.4	21.4
Maximum absorbed power	(1),(4)	kW	83 (87,9)	93 (99,6)	101 (107,7)	109 (115,9)
Maximum absorbed current	(2),(4)	A	144 (155,5)	164 (178,8)	173 (187,3)	181 (195,8)
Maximum input current	(3),(4)	A	376 (387,6)	396 (410,9)	450 (465,2)	459 (473,7)
Fan nominal power		n° x kW	4 x 2,0	5 x 2,0	5 x 2,0	5 x 2,0
Fan nominal current		n° x A	4 x 4,3	5 x 4,3	5 x 4,3	5 x 4,3
Pump motor nominal power						
Cooled water circuit		kW	2,2	3,0	3,0	3,0
Hot water circuit		kW	3,0	4,0	4,0	4,0
Pump motor nominal current						
Cooled water circuit		A	4,8	6,4	6,4	6,4
Hot water circuit		A	6,4	8,4	8,4	8,4
Main power supply		V/ph/Hz	400/3~/50			
Auxiliary power supply		V/ph/Hz	230/1~/50			

(1) Electrical power that must be supplied by the mains to power the unit.

(2) Internal breakers tripping current. This value is never exceeded and must be used to size the line and its protections.

(3) Maximum input current calculated considering the power of the compressor with max. power and the max. current absorbed by all other devices.

(4) The values in brackets refer to the ST version unit (with storage tank and pumps or units with pumps only)

OMICRON S /LT -ELECTRICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2	8.2
Maximum absorbed power	(1),(4)	kW	16 (18,3)	21 (23,5)	28 (29,9)	32 (35,1)	37 (40,1)	49 (51,9)
Maximum absorbed current	(2),(4)	A	34 (39,3)	40 (46,5)	55 (60,9)	61 (68,3)	68 (73,9)	87 (95,3)
Maximum input current	(3),(4)	A	150 (155,4)	171 (177,3)	207 (213,2)	247 (254,1)	254 (259,6)	319 (327,5)
Fan nominal power		n° x kW	2 x 0,8	2 x 0,8	3 x 0,8	3 x 0,8	3 x 0,8	3 x 2,0
Fan nominal current		n° x A	2 x 3,35	2 x 3,35	3 x 3,35	3 x 3,35	3 x 3,35	3 x 4,3
Pump motor nominal power								
Cooled water circuit		kW	0,9	0,9	0,9	1,5	1,5	1,5
Hot water circuit		kW	0,9	1,5	1,5	1,5	1,9	1,9
Pump motor nominal current								
Cooled water circuit		A	2,6	2,6	2,6	3,5	3,5	3,5
Hot water circuit		A	2,6	3,5	3,5	3,5	2,5	5,0
Main power supply		V/ph/Hz	400/3N~/50					
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			9.2	11.2	10.4	11.4	12.4	14.4
Maximum absorbed power	(1),(4)	kW	53 (56,3)	57 (60,7)	49 (53,4)	56 (60,2)	67 (71,5)	76 (81,5)
Maximum absorbed current	(2),(4)	A	91 (99,4)	95 (105,1)	88 (97,7)	102 (111,9)	119 (128,5)	132 (143,1)
Maximum input current	(3),(4)	A	369 (377,3)	373 (383,0)	219 (228,5)	254 (264,2)	305 (314,2)	318 (328,8)
Fan nominal power		n° x kW	3 x 2,0	3 x 2,0	3 x 2,0	3 x 2,0	4 x 2,0	4 x 2,0
Fan nominal current		n° x A	3 x 4,3	3 x 4,3	3 x 4,3	3 x 4,3	4 x 4,3	4 x 4,3
Pump motor nominal power								
Cooled water circuit		kW	1,5	1,9	1,9	1,9	2,2	2,2
Hot water circuit		kW	2,2	2,2	2,2	2,2	2,2	3,0
Pump motor nominal current								
Cooled water circuit		A	3,5	5,0	5,0	5,0	4,8	4,8
Hot water circuit		A	4,8	4,8	4,8	4,8	4,8	6,4
Main power supply		V/ph/Hz	400/3~/50					
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			16.4	17.4	19.4	21.4
Maximum absorbed power	(1),(4)	kW	85 (90,1)	95 (102,3)	103 (110,5)	112 (118,6)
Maximum absorbed current	(2),(4)	A	149 (160,3)	170 (184,8)	179 (193,3)	187 (201,8)
Maximum input current	(3),(4)	A	381 (392,4)	402 (416,9)	456 (471,2)	465 (479,7)
Fan nominal power		n° x kW	4 x 2,0	5 x 2,0	5 x 2,0	5 x 2,0
Fan nominal current		n° x A	4 x 4,3	5 x 4,3	5 x 4,3	5 x 4,3
Pump motor nominal power						
Cooled water circuit		kW	2,2	3,0	3,0	3,0
Hot water circuit		kW	3,0	4,0	4,0	4,0
Pump motor nominal current						
Cooled water circuit		A	4,8	6,4	6,4	6,4
Hot water circuit		A	6,4	8,4	8,4	8,4
Main power supply		V/ph/Hz	400/3~/50			
Auxiliary power supply		V/ph/Hz	230/1~/50			

(1) Electrical power that must be supplied by the mains to power the unit.

(2) Internal breakers tripping current. This value is never exceeded and must be used to size the line and its protections.

(3) Maximum input current calculated considering the power of the compressor with max. power and the max. current absorbed by all other devices.

(4) The values in brackets refer to the ST version unit (with storage tank and pumps or units with pumps only)

OMICRON S HT/SLN - ELECTRICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2	8.2
Maximum absorbed power	(1),(4)	kW	16 (17,8)	21 (23,1)	27 (29,3)	32 (34,5)	36 (39,5)	47 (50,2)
Maximum absorbed current	(2),(4)	A	32 (37,4)	39 (44,7)	52 (58,2)	59 (65,5)	65 (71,1)	83 (91,7)
Maximum input current	(3),(4)	A	148 (153,5)	169 (175,5)	204 (210,4)	244 (251,3)	251 (256,8)	315 (323,9)
Fan nominal power		n° x kW	2 x 0,8	2 x 0,8	3 x 0,8	3 x 0,8	3 x 0,8	3 x 2,0
Fan nominal current		n° x A	2 x 3,35	2 x 3,35	3 x 3,35	3 x 3,35	3 x 3,35	3 x 4,3
Pump motor nominal power								
Cooled water circuit		kW	0,9	0,9	0,9	1,5	1,5	1,5
Hot water circuit		kW	0,9	1,5	1,5	1,5	1,9	1,9
Pump motor nominal current								
Cooled water circuit		A	2,6	2,6	2,6	3,5	3,5	3,5
Hot water circuit		A	2,6	3,5	3,5	3,5	2,5	5,0
Main power supply		V/ph/Hz	400/3N~/50					
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			9.2	11.2	10.4	11.4	12.4	14.4
Maximum absorbed power	(1),(4)	kW	51 (54,7)	55 (59,1)	48 (51,8)	54 (58,5)	65 (69,3)	74 (79,3)
Maximum absorbed current	(2),(4)	A	88 (95,8)	92 (101,5)	84 (94,1)	99 (108,3)	114 (123,7)	127 (138,3)
Maximum input current	(3),(4)	A	365 (373,7)	370 (379,4)	215 (224,9)	251 (260,6)	300 (309,4)	313 (324,0)
Fan nominal power		n° x kW	3 x 2,0	3 x 2,0	3 x 2,0	3 x 2,0	4 x 2,0	4 x 2,0
Fan nominal current		n° x A	3 x 4,3	3 x 4,3	3 x 4,3	3 x 4,3	4 x 4,3	4 x 4,3
Pump motor nominal power								
Cooled water circuit		kW	1,5	1,9	1,9	1,9	2,2	2,2
Hot water circuit		kW	2,2	2,2	2,2	2,2	2,2	3,0
Pump motor nominal current								
Cooled water circuit		A	3,5	5,0	5,0	5,0	4,8	4,8
Hot water circuit		A	4,8	4,8	4,8	4,8	4,8	6,4
Main power supply		V/ph/Hz	400/3N~/50			400/3~/50		
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			16.4	17.4	19.4	21.4
Maximum absorbed power	(1),(4)	kW	83 (87,9)	93 (99,6)	101 (107,7)	109 (115,9)
Maximum absorbed current	(2),(4)	A	144 (155,5)	164 (178,8)	173 (187,3)	181 (195,8)
Maximum input current	(3),(4)	A	376 (387,6)	396 (410,9)	450 (465,2)	459 (473,7)
Fan nominal power		n° x kW	4 x 2,0	5 x 2,0	5 x 2,0	5 x 2,0
Fan nominal current		n° x A	4 x 4,3	5 x 4,3	5 x 4,3	5 x 4,3
Pump motor nominal power						
Cooled water circuit		kW	2,2	3,0	3,0	3,0
Hot water circuit		kW	3,0	4,0	4,0	4,0
Pump motor nominal current						
Cooled water circuit		A	4,8	6,4	6,4	6,4
Hot water circuit		A	6,4	8,4	8,4	8,4
Main power supply		V/ph/Hz	400/3~/50			
Auxiliary power supply		V/ph/Hz	230/1~/50			

(1) Electrical power that must be supplied by the mains to power the unit.

(2) Internal breakers tripping current. This value is never exceeded and must be used to size the line and its protections.

(3) Maximum input current calculated considering the power of the compressor with max. power and the max. current absorbed by all other devices.

(4) The values in brackets refer to the ST version unit (with storage tank and pumps or units with pumps only)

OMICRON S HT/LT -ELECTRICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2	8.2
Maximum absorbed power	(1),(4)	kW	16 (18,3)	21 (23,5)	28 (29,9)	32 (35,1)	37 (40,1)	49 (51,9)
Maximum absorbed current	(2),(4)	A	34 (39,3)	40 (46,5)	55 (60,9)	61 (68,3)	68 (73,9)	87 (95,3)
Maximum input current	(3),(4)	A	150 (155,4)	171 (177,3)	207 (213,2)	247 (254,1)	254 (259,6)	319 (327,5)
Fan nominal power		n° x kW	2 x 0,8	2 x 0,8	3 x 0,8	3 x 0,8	3 x 0,8	3 x 2,0
Fan nominal current		n° x A	2 x 3,35	2 x 3,35	3 x 3,35	3 x 3,35	3 x 3,35	3 x 4,3
Pump motor nominal power								
Cooled water circuit		kW	0,9	0,9	0,9	1,5	1,5	1,5
Hot water circuit		kW	0,9	1,5	1,5	1,5	1,9	1,9
Pump motor nominal current								
Cooled water circuit		A	2,6	2,6	2,6	3,5	3,5	3,5
Hot water circuit		A	2,6	3,5	3,5	3,5	2,5	5,0
Main power supply		V/ph/Hz	400/3N~/50					
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			9.2	11.2	10.4	11.4	12.4	14.4
Maximum absorbed power	(1),(4)	kW	53 (56,3)	57 (60,7)	49 (53,4)	56 (60,2)	67 (71,5)	76 (81,5)
Maximum absorbed current	(2),(4)	A	91 (99,4)	95 (105,1)	88 (97,7)	102 (111,9)	119 (128,5)	132 (143,1)
Maximum input current	(3),(4)	A	369 (377,3)	373 (383,0)	219 (228,5)	254 (264,2)	305 (314,2)	318 (328,8)
Fan nominal power		n° x kW	3 x 2,0	3 x 2,0	3 x 2,0	3 x 2,0	4 x 2,0	4 x 2,0
Fan nominal current		n° x A	3 x 4,3	3 x 4,3	3 x 4,3	3 x 4,3	4 x 4,3	4 x 4,3
Pump motor nominal power								
Cooled water circuit		kW	1,5	1,9	1,9	1,9	2,2	2,2
Hot water circuit		kW	2,2	2,2	2,2	2,2	2,2	3,0
Pump motor nominal current								
Cooled water circuit		A	3,5	5,0	5,0	5,0	4,8	4,8
Hot water circuit		A	4,8	4,8	4,8	4,8	4,8	6,4
Main power supply		V/ph/Hz	400/3N~/50			400/3~/50		
Auxiliary power supply		V/ph/Hz	230/1~/50					

UNIT SIZE			16.4	17.4	19.4	21.4
Maximum absorbed power	(1),(4)	kW	85 (90,1)	95 (102,3)	103 (110,5)	112 (118,6)
Maximum absorbed current	(2),(4)	A	149 (160,3)	170 (184,8)	179 (193,3)	187 (201,8)
Maximum input current	(3),(4)	A	381 (392,4)	402 (416,9)	456 (471,2)	465 (479,7)
Fan nominal power		n° x kW	4 x 2,0	5 x 2,0	5 x 2,0	5 x 2,0
Fan nominal current		n° x A	4 x 4,3	5 x 4,3	5 x 4,3	5 x 4,3
Pump motor nominal power						
Cooled water circuit		kW	2,2	3,0	3,0	3,0
Hot water circuit		kW	3,0	4,0	4,0	4,0
Pump motor nominal current						
Cooled water circuit		A	4,8	6,4	6,4	6,4
Hot water circuit		A	6,4	8,4	8,4	8,4
Main power supply		V/ph/Hz	400/3~/50			
Auxiliary power supply		V/ph/Hz	230/1~/50			

(1) Electrical power that must be supplied by the mains to power the unit.

(2) Internal breakers tripping current. This value is never exceeded and must be used to size the line and its protections.

(3) Maximum input current calculated considering the power of the compressor with max. power and the max. current absorbed by all other devices.

(4) The values in brackets refer to the ST version unit (with storage tank and pumps or units with pumps only)

OMICRON S BASIC UNIT, /LN E /HT - COOLING CAPACITIES

Model	To	EXTERNAL AIR TEMPERATURE [°C]									
	[°C]	25		30		35		40		43	
		Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe
3.2	5	33	8	31	9	30	10	28	11	27	11
	6	34	8	32	9	31	10	29	11	28	12
	7	35	8	33	9	32	10	30	11	29	12
	8	36	8	34	9	33	10	31	11	30	12
	9	37	8	35	9	34	10	32	11	31	12
4.2	5	44	11	42	12	40	13	37	15	36	15
	6	45	11	43	12	41	13	39	15	37	16
	7	47	11	44	12	42	13	40	15	38	16
	8	48	11	46	12	43	13	41	15	39	16
	9	49	11	47	12	45	14	42	15	41	16
5.2	5	54	15	51	16	49	18	46	20	44	21
	6	56	15	53	16	50	18	47	20	45	21
	7	57	15	55	17	52	18	49	20	47	21
	8	59	15	56	17	53	18	50	20	48	21
	9	61	15	58	17	55	19	52	20	50	22
6.2	5	64	17	61	19	58	21	55	23	53	24
	6	66	17	63	19	60	21	56	23	54	24
	7	68	18	65	19	62	21	58	23	56	25
	8	70	18	67	19	64	21	60	23	58	25
	9	72	18	69	20	66	22	62	24	60	25
7.2	5	74	20	71	22	67	24	64	26	62	27
	6	76	20	73	22	70	24	66	26	64	28
	7	79	20	75	22	72	24	68	26	66	28
	8	81	20	78	22	74	24	70	27	68	28
	9	84	20	80	22	76	24	72	27	70	28
8.2	5	86	21	82	23	79	25	74	27	72	29
	6	91	25	86	28	82	31	77	34	75	36
	7	93	26	89	28	85	31	80	34	77	36
	8	96	26	92	28	87	31	82	34	79	36
	9	99	26	95	29	90	32	85	35	82	37
9.2	5	102	26	97	29	92	32	87	35	84	37
	6	105	27	100	29	95	32	90	35	87	38
	7	100	29	95	32	90	35	85	38	82	40
	8	103	29	98	32	93	35	88	39	85	41
	9	106	30	101	32	96	35	91	39	87	41
10.4	5	109	30	104	33	99	36	93	39	90	42
	6	112	30	107	33	102	36	96	40	92	42
	7	116	31	110	34	105	37	99	40	95	43
	8	99	24	95	26	90	29	85	32	82	34
	9	103	24	98	26	93	29	88	32	85	34
10.4	5	106	24	101	27	96	29	91	32	88	34
	6	109	24	105	27	100	29	94	32	91	34
	7	113	25	108	27	103	30	97	33	94	35
	8	116	25	111	27	106	30	100	33	96	35

Pf: cooling capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 To: evaporator outgoing water temperature [°C]

OMICRON S BASIC UNIT, /LN E /HT - COOLING CAPACITIES

Model	To	EXTERNAL AIR TEMPERATURE [°C]									
	[°C]	25		30		35		40		43	
		Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe
11.2	5	116	29	111	32	106	35	100	38	97	41
	6	120	30	115	32	109	35	104	39	100	41
	7	124	30	118	33	113	36	107	39	103	41
	8	127	30	122	33	116	36	110	39	106	42
	9	131	30	125	33	120	36	113	40	110	42
11.4	10	135	31	129	34	123	37	117	40	113	42
	5	111	28	105	31	100	34	94	38	91	40
	6	114	29	109	31	103	35	97	38	94	40
	7	118	29	112	32	107	35	101	38	97	41
	8	121	29	116	32	110	35	104	39	100	41
12.4	9	125	29	119	32	113	35	107	39	103	41
	10	129	30	123	32	117	36	110	39	106	42
	5	133	33	127	36	120	40	114	44	110	47
	6	137	34	131	37	124	40	118	44	114	47
	7	141	34	135	37	128	41	122	45	117	47
14.4	8	146	34	139	38	132	41	125	45	121	48
	9	150	35	143	38	136	42	129	46	125	48
	10	155	35	148	38	141	42	133	46	128	49
	5	149	40	142	44	135	48	128	53	123	56
	6	154	41	147	44	139	49	132	53	127	56
16.4	7	158	41	151	45	144	49	136	54	131	57
	8	163	42	156	45	148	50	140	54	135	57
	9	168	42	161	46	153	50	145	55	139	58
	10	173	42	165	46	157	51	149	56	144	59
	5	165	44	158	49	150	53	142	58	137	62
17.4	6	170	45	163	49	155	54	147	59	142	62
	7	176	45	168	50	160	54	151	60	146	63
	8	181	46	173	50	165	55	156	60	151	64
	9	187	46	178	51	170	55	161	61	155	64
	10	192	47	184	51	175	56	166	61	160	65
19.4	5	181	51	172	56	164	61	155	67	149	71
	6	186	51	178	56	169	62	160	68	154	72
	7	192	52	183	57	174	62	165	69	159	73
	8	198	53	189	58	179	63	170	69	164	73
	9	204	53	195	58	185	64	175	70	169	74
21.4	10	210	54	200	59	190	65	180	71	174	75
	5	204	55	195	61	186	67	176	73	170	77
	6	211	56	201	61	192	67	181	74	175	78
	7	217	57	207	62	197	68	187	75	180	79
	8	224	57	214	63	203	69	193	75	186	80
21.4	9	230	58	220	63	209	69	198	76	191	81
	10	237	59	226	64	215	70	204	77	197	81
	5	225	62	215	68	204	74	193	81	186	86
	6	232	63	221	68	211	75	199	82	192	87
	7	239	63	228	69	217	76	205	83	198	88
21.4	8	246	64	235	70	223	77	211	84	204	89
	9	253	65	241	71	230	78	217	85	210	90
	10	260	66	248	72	236	78	223	86	215	91

Pf: cooling capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 To: evaporator outgoing water temperature [°C]

OMICRON S BASIC UNIT, /LN E /HT - COOLING CAPACITIES

Model	To	EXTERNAL AIR TEMPERATURE [°C]									
	[°C]	25		30		35		40		43	
		Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe
3.2	5	33	8	31	9	30	10	28	11	27	11
	6	34	8	32	9	31	10	29	11	28	12
	7	35	8	33	9	32	10	30	11	29	12
	8	36	8	34	9	33	10	31	11	30	12
	9	37	8	35	9	34	10	32	11	31	12
4.2	5	44	11	42	12	40	13	37	15	36	15
	6	45	11	43	12	41	13	39	15	37	16
	7	47	11	44	12	42	13	40	15	38	16
	8	48	11	46	12	43	13	41	15	39	16
	9	49	11	47	12	45	14	42	15	41	16
5.2	5	54	15	51	16	49	18	46	20	44	21
	6	56	15	53	16	50	18	47	20	45	21
	7	57	15	55	17	52	18	49	20	47	21
	8	59	15	56	17	53	18	50	20	48	21
	9	61	15	58	17	55	19	52	20	50	22
6.2	5	64	17	61	19	58	21	55	23	53	24
	6	66	17	63	19	60	21	56	23	54	24
	7	68	18	65	19	62	21	58	23	56	25
	8	70	18	67	19	64	21	60	23	58	25
	9	72	18	69	20	66	22	62	24	60	25
7.2	5	74	20	71	22	67	24	64	26	62	27
	6	76	20	73	22	70	24	66	26	64	28
	7	79	20	75	22	72	24	68	26	66	28
	8	81	20	78	22	74	24	70	27	68	28
	9	84	20	80	22	76	24	72	27	70	28
8.2	5	86	21	82	23	79	25	74	27	72	29
	6	91	25	86	28	82	31	77	34	75	36
	7	93	26	89	28	85	31	80	34	77	36
	8	96	26	92	28	87	31	82	34	79	36
	9	99	26	95	29	90	32	85	35	82	37
9.2	5	102	26	97	29	92	32	87	35	84	37
	6	105	27	100	29	95	32	90	35	87	38
	7	100	29	95	32	90	35	85	38	82	40
	8	103	29	98	32	93	35	88	39	85	41
	9	106	30	101	32	96	35	91	39	87	41
10.4	5	109	30	104	33	99	36	93	39	90	42
	6	112	30	107	33	102	36	96	40	92	42
	7	116	31	110	34	105	37	99	40	95	43
	8	99	24	95	26	90	29	85	32	82	34
	9	103	24	98	26	93	29	88	32	85	34
10.4	5	106	24	101	27	96	29	91	32	88	34
	6	109	24	105	27	100	29	94	32	91	34
	7	113	25	108	27	103	30	97	33	94	35
	8	116	25	111	27	106	30	100	33	96	35

Pf: cooling capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 To: evaporator outgoing water temperature [°C]

OMICRON S /LT - COOLING CAPACITIES

Model	To	EXTERNAL AIR TEMPERATURE [°C]									
	[°C]	25		30		35		40		43	
		Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe
3.2	5	34	7	32	8	31	9	29	10	28	11
	6	35	7	33	8	32	9	30	10	29	11
	7	36	7	34	8	33	9	31	10	30	11
	8	37	8	35	8	34	9	32	10	31	11
	9	38	8	37	8	35	9	33	10	32	11
4.2	5	44	10	42	11	40	13	38	14	37	15
	6	46	10	44	12	42	13	39	14	38	15
	7	47	10	45	12	43	13	41	14	39	15
	8	49	11	47	12	44	13	42	14	40	15
	9	50	11	48	12	46	13	43	14	42	15
5.2	5	57	13	55	14	52	16	49	17	48	19
	6	59	13	57	14	54	16	51	18	49	19
	7	61	13	58	15	56	16	53	18	51	19
	8	63	13	60	15	58	16	55	18	53	19
	9	65	13	62	15	59	16	56	18	54	19
6.2	5	67	14	64	15	61	16	58	18	56	19
	6	66	16	63	18	60	20	57	21	55	23
	7	68	16	65	18	62	20	59	22	57	23
	8	70	17	67	18	64	20	61	22	58	23
	9	72	17	69	18	66	20	62	22	60	23
7.2	5	75	17	71	18	68	20	64	22	62	24
	6	77	17	73	19	70	20	66	22	64	24
	7	75	19	72	21	69	23	65	25	63	26
	8	78	19	74	21	71	23	67	25	65	27
	9	80	19	77	21	73	23	69	25	67	27
8.2	5	83	19	79	21	75	23	72	26	69	27
	6	85	20	82	22	78	24	74	26	71	27
	7	88	20	84	22	80	24	76	26	74	28
	8	94	23	90	26	86	28	81	31	79	33
	9	97	24	93	26	89	28	84	31	81	33
9.2	5	100	24	96	26	91	29	87	31	84	33
	6	103	24	99	26	94	29	90	32	87	34
	7	107	24	102	27	97	29	92	32	89	34
	8	110	24	105	27	100	29	95	32	92	34
	9	110	25	102	28	97	31	92	34	89	36
10.4	5	110	26	105	28	101	31	95	34	92	36
	6	114	26	109	28	104	31	99	34	95	36
	7	117	26	112	29	107	31	102	34	98	36
	8	121	26	116	29	110	32	105	35	101	37
	9	124	27	119	29	114	32	108	35	104	37

Pf: cooling capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 To: evaporator outgoing water temperature [°C]

OMICRON S /LT - COOLING CAPACITIES

Model	To	EXTERNAL AIR TEMPERATURE [°C]									
	[°C]	25		30		35		40		43	
		Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe
11.2	5	118	28	113	31	108	34	102	37	99	39
	6	122	29	117	31	111	34	106	37	102	39
	7	126	29	120	31	115	34	109	38	106	40
	8	130	29	124	32	118	35	113	38	109	40
	9	133	29	128	32	122	35	116	38	112	41
11.4	5	113	27	108	30	103	33	97	36	93	38
	6	117	27	111	30	106	33	100	36	97	39
	7	120	27	115	30	109	33	104	37	100	39
	8	124	28	119	30	113	34	107	37	103	39
	9	128	28	122	31	116	34	110	37	106	40
12.4	5	135	31	129	34	123	38	117	42	113	44
	6	139	32	133	35	127	38	121	42	117	44
	7	144	32	138	35	131	38	125	42	121	45
	8	149	32	142	35	136	39	129	42	124	45
	9	153	32	147	35	140	39	133	43	128	45
14.4	5	152	38	145	41	139	45	132	49	127	52
	6	157	38	150	41	143	45	136	50	132	53
	7	162	38	155	42	148	46	140	50	136	53
	8	167	39	160	42	153	46	145	51	140	54
	9	173	39	165	43	157	47	149	51	145	54
16.4	5	178	39	170	43	162	47	154	51	149	54
	6	168	43	161	47	153	51	145	56	140	60
	7	174	43	166	47	158	52	150	57	145	60
	8	179	43	171	48	163	52	155	57	150	61
	9	185	44	177	48	168	53	160	58	154	61
17.4	5	191	44	182	49	174	53	165	58	159	62
	6	196	45	188	49	179	54	170	59	164	62
	7	190	45	182	50	174	55	165	60	160	64
	8	197	46	188	50	180	55	171	61	165	64
	9	203	46	195	51	186	56	176	61	171	65
19.4	5	210	47	201	51	192	56	182	62	176	65
	6	216	47	207	52	198	57	188	62	182	66
	7	223	47	213	52	204	57	194	63	187	66
	8	211	51	203	56	193	62	184	68	178	72
	9	218	52	209	57	200	62	190	68	184	72
21.4	5	225	52	216	57	206	63	196	69	190	73
	6	232	53	222	58	212	63	202	70	195	74
	7	239	53	229	58	219	64	208	70	201	74
	8	246	54	236	59	225	65	214	71	207	75
	9	233	57	224	63	213	69	203	75	196	79
21.4	5	241	58	231	63	220	69	209	76	202	80
	6	248	58	238	64	227	70	216	77	209	81
	7	256	59	245	64	234	71	222	77	215	82
	8	263	60	252	65	241	71	229	78	221	82
	9	271	60	259	66	248	72	236	79	228	83

Pf: cooling capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 To: evaporator outgoing water temperature [°C]

OMICRON S /LT - COOLING CAPACITIES

Model	To	EXTERNAL AIR TEMPERATURE [°C]									
	[°C]	25		30		35		40		43	
		Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe
3.2	5	34	8	33	8	31	9	29	10	28	11
	6	35	8	34	9	32	9	30	11	29	11
	7	36	8	35	9	33	10	31	11	30	11
	8	37	8	36	9	34	10	32	11	31	11
	9	39	8	37	9	35	10	33	11	32	11
4.2	5	43	11	41	12	39	14	36	15	35	16
	6	44	11	42	12	40	14	37	15	36	16
	7	46	11	43	13	41	14	39	15	37	16
	8	47	11	45	13	42	14	40	16	38	17
	9	48	12	46	13	44	14	41	16	39	17
5.2	5	56	14	54	15	51	17	48	18	46	19
	6	58	14	55	15	53	17	50	18	48	20
	7	60	14	57	15	54	17	51	19	49	20
	8	62	14	59	15	56	17	53	19	51	20
	9	64	14	61	16	58	17	55	19	53	20
6.2	5	66	14	63	16	60	17	56	19	54	20
	6	64	17	61	19	58	21	55	23	53	24
	7	67	17	63	19	60	21	57	23	55	24
	8	69	18	65	19	62	21	59	23	57	25
	9	71	18	68	19	64	21	61	23	58	25
7.2	5	73	18	70	20	66	22	62	24	60	25
	6	75	18	72	20	68	22	64	24	62	25
	7	73	20	69	22	66	24	62	27	60	28
	8	75	21	72	22	68	25	64	27	62	29
	9	78	21	74	23	70	25	66	27	64	29
8.2	5	80	21	76	23	72	25	68	28	66	29
	6	82	21	78	23	74	25	70	28	68	30
	7	85	21	81	23	77	26	72	28	70	30
	8	90	26	86	28	81	31	77	34	74	36
	9	93	26	88	28	84	31	79	34	76	36
9.2	5	96	26	91	29	87	32	82	35	79	37
	6	99	27	94	29	89	32	84	35	81	37
	7	101	27	97	29	92	32	87	35	84	38
	8	104	27	100	30	94	33	89	36	86	38
	9	109	29	104	32	99	35	94	39	91	41
10.4	5	102	30	97	32	92	36	87	39	84	41
	6	105	30	100	33	95	36	90	40	86	42
	7	108	30	103	33	98	36	92	40	89	42
	8	111	31	106	34	101	37	95	41	91	43
	9	115	31	109	34	103	37	98	41	94	43
10.4	5	99	24	94	27	89	30	84	33	81	35
	6	102	25	97	27	92	30	87	33	83	35
	7	105	25	100	27	95	30	90	33	86	35
	8	109	25	104	28	98	31	92	34	89	36
	9	112	25	107	28	101	31	95	34	92	36
10	115	26	110	28	104	31	98	34	94	36	

Pf: cooling capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 To: evaporator outgoing water temperature [°C]

OMICRON S /SLN - COOLING CAPACITIES

Model	To	EXTERNAL AIR TEMPERATURE [°C]									
	[°C]	25		30		35		40		43	
		Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe
3.2	5	34	8	33	8	31	9	29	10	28	11
	6	35	8	34	9	32	9	30	11	29	11
	7	36	8	35	9	33	10	31	11	30	11
	8	37	8	36	9	34	10	32	11	31	11
	9	39	8	37	9	35	10	33	11	32	11
4.2	5	43	11	41	12	39	14	36	15	35	16
	6	44	11	42	12	40	14	37	15	36	16
	7	46	11	43	13	41	14	39	15	37	16
	8	47	11	45	13	42	14	40	16	38	17
	9	48	12	46	13	44	14	41	16	39	17
5.2	5	56	14	54	15	51	17	48	18	46	19
	6	58	14	55	15	53	17	50	18	48	20
	7	60	14	57	15	54	17	51	19	49	20
	8	62	14	59	15	56	17	53	19	51	20
	9	64	14	61	16	58	17	55	19	53	20
6.2	5	66	14	63	16	60	17	56	19	54	20
	6	64	17	61	19	58	21	55	23	53	24
	7	67	17	63	19	60	21	57	23	55	24
	8	69	18	65	19	62	21	59	23	57	25
	9	71	18	68	19	64	21	61	23	58	25
7.2	5	73	18	70	20	66	22	62	24	60	25
	6	75	18	72	20	68	22	64	24	62	25
	7	73	20	69	22	66	24	62	27	60	28
	8	75	21	72	22	68	25	64	27	62	29
	9	78	21	74	23	70	25	66	27	64	29
8.2	5	80	21	76	23	72	25	68	28	66	29
	6	82	21	78	23	74	25	70	28	68	30
	7	85	21	81	23	77	26	72	28	70	30
	8	90	26	86	28	81	31	77	34	74	36
	9	93	26	88	28	84	31	79	34	76	36
9.2	5	96	26	91	29	87	32	82	35	79	37
	6	99	27	94	29	89	32	84	35	81	37
	7	101	27	97	29	92	32	87	35	84	38
	8	104	27	100	30	94	33	89	36	86	38
	9	109	29	94	32	90	35	84	39	81	41
10.4	5	102	30	97	32	92	36	87	39	84	41
	6	105	30	100	33	95	36	90	40	86	42
	7	108	30	103	33	98	36	92	40	89	42
	8	111	31	106	34	101	37	95	41	91	43
	9	115	31	109	34	103	37	98	41	94	43
10.4	5	99	24	94	27	89	30	84	33	81	35
	6	102	25	97	27	92	30	87	33	83	35
	7	105	25	100	27	95	30	90	33	86	35
	8	109	25	104	28	98	31	92	34	89	36
	9	112	25	107	28	101	31	95	34	92	36
10	115	26	110	28	104	31	98	34	94	36	

Pf: cooling capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 To: evaporator outgoing water temperature [°C]

OMICRON S /SLN - COOLING CAPACITIES

Model	To	EXTERNAL AIR TEMPERATURE [°C]									
	[°C]	25		30		35		40		43	
		Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe
11.2	5	114	31	108	33	103	37	97	40	94	43
	6	117	31	112	34	106	37	100	41	97	43
	7	121	31	115	34	110	37	104	41	100	43
	8	124	32	119	35	113	38	107	42	103	44
	9	128	32	122	35	116	38	110	42	106	44
11.4	5	108	29	103	32	97	36	91	40	88	42
	6	112	30	106	33	100	36	94	40	91	42
	7	115	30	110	33	104	37	97	40	93	43
	8	119	30	113	34	107	37	100	41	96	43
	9	122	31	116	34	110	37	103	41	99	44
12.4	5	129	34	123	37	117	41	110	45	106	48
	6	133	34	127	38	120	42	114	46	109	48
	7	137	35	131	38	124	42	117	46	113	49
	8	141	35	135	39	128	42	121	47	117	49
	9	146	36	139	39	132	43	125	47	120	50
14.4	5	150	36	143	39	136	43	128	48	124	50
	6	144	41	137	45	130	49	123	54	119	57
	7	148	42	142	46	134	50	127	55	122	58
	8	153	42	146	46	139	50	131	55	126	59
	9	158	42	150	47	143	51	135	56	130	59
16.4	5	163	43	155	47	147	52	139	56	134	60
	6	167	43	160	48	152	52	143	57	138	60
	7	174	48	152	52	144	57	135	63	130	67
	8	164	48	156	53	148	58	140	64	134	67
	9	169	49	161	54	153	59	144	64	139	68
17.4	5	174	49	166	54	157	59	148	65	143	69
	6	179	50	171	55	162	60	153	66	147	70
	7	185	51	176	56	167	61	157	67	151	71
	8	185	48	177	53	168	58	159	64	154	68
	9	191	49	183	54	174	59	164	65	159	69
19.4	5	197	49	188	54	179	60	170	65	164	69
	6	203	50	194	55	185	60	175	66	*	*
	7	209	50	200	55	190	61	180	67	174	71
	8	216	51	206	56	196	61	186	67	179	71
	9	205	55	196	60	186	66	176	73	170	77
21.4	5	211	56	202	61	192	67	182	73	175	78
	6	218	56	208	62	198	68	187	74	181	79
	7	224	57	214	62	204	68	193	75	186	79
	8	231	57	221	63	210	69	199	76	192	80
	9	237	58	227	64	216	70	204	77	197	81
21.4	5	226	62	215	67	205	74	194	81	187	86
	6	232	62	222	68	211	75	200	82	192	87
	7	239	63	229	69	217	76	206	83	198	88
	8	246	64	235	70	224	76	211	84	204	89
	9	253	64	242	70	230	77	217	85	210	90
	10	261	65	249	71	236	78	224	86	216	91

Pf: cooling capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 To: evaporator outgoing water temperature [°C]

OMICRON S BASIC AND /LN – HEATING CAPACITIES HP (FOR 4T / ACS 2T UNIT)

Model	CONDENSER WATER TEMPERATURE [°C]									
	Ta [°C]	RH %	25/30		30/35		40/45		50/55	
			Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
3.2	-5	95	25,6	6,8	25,8	7,6	26,2	9,5	*	*
	0	90	28,8	6,9	29,2	7,7	29,7	9,6	*	*
	5	90	32,8	7,0	32,7	7,8	32,9	9,6	33,1	11,9
	7	87	34,6	7,0	34,5	7,8	34,3	9,7	34,5	12,0
	10	87	37,5	7,0	37,3	7,8	36,9	9,7	36,9	12,0
4.2	15	87	42,7	7,1	42,5	7,9	41,8	9,8	41,2	12,1
	-5	95	34,5	9,1	34,4	10,1	34,5	12,4	*	*
	0	90	39,7	9,2	39,5	10,2	39,4	12,5	*	*
	5	90	45,5	9,3	45,2	10,3	44,8	12,7	44,6	15,6
	7	87	48,0	9,4	47,6	10,3	47,1	12,7	46,7	15,6
5.2	10	87	51,9	9,4	51,5	10,4	50,8	12,8	50,3	15,7
	15	87	59,4	9,5	58,8	10,5	57,8	12,9	56,8	15,9
	-5	95	*	*	*	*	41,8	15,8	*	*
	0	90	47,0	12,0	46,9	13,2	47,1	16,0	*	*
	5	90	53,6	12,1	53,5	13,4	53,4	16,3	53,6	19,9
6.2	7	87	56,6	12,2	56,4	13,4	56,2	16,4	56,3	20,0
	10	87	61,4	12,3	61,1	13,6	60,4	16,5	60,2	20,2
	15	87	70,1	12,5	69,6	13,7	68,7	16,7	67,7	20,5
	-5	95	*	*	50,2	15,5	50,9	18,7	*	*
	0	90	55,9	14,3	55,9	15,7	56,3	19,0	*	*
7.2	5	90	63,8	14,5	63,6	15,9	63,5	19,2	64,1	23,4
	7	87	67,4	14,6	67,1	16,0	66,7	19,4	66,8	23,5
	10	87	73,1	14,7	72,4	16,2	71,7	19,6	71,5	23,7
	15	87	83,5	14,9	82,9	16,4	81,5	19,9	80,4	24,1
	-5	95	60,1	16,5	60,5	18,0	61,2	21,7	*	*
8.2	0	90	68,3	16,7	68,5	18,3	69,2	22,1	*	*
	5	90	75,0	16,9	75,3	18,6	77,0	22,4	78,6	27,1
	7	87	79,2	17,0	79,2	18,7	80,0	22,5	81,5	27,2
	10	87	85,8	17,2	85,0	18,8	85,3	22,7	86,8	27,5
	15	87	98,3	17,4	97,3	19,2	95,8	23,1	96,9	27,9
9.2	-5	95	74,3	20,0	74,5	22,0	75,1	26,6	*	*
	0	90	85,3	20,4	85,2	22,5	85,4	27,2	*	*
	5	90	97,1	20,7	96,8	22,9	96,3	27,7	96,3	33,4
	7	87	102,5	20,9	102,0	23,0	101,2	27,9	100,8	33,7
	10	87	110,6	21,1	109,9	23,3	108,8	28,2	108,1	34,1
10.4	15	87	127,3	21,5	126,0	23,7	123,6	28,8	122,2	34,8
	-5	95	*	*	81,0	24,1	81,7	29,0	*	*
	0	90	92,1	22,3	92,0	24,6	92,3	29,6	*	*
	5	90	105,0	22,8	104,7	25,1	104,4	30,3	104,7	36,6
	7	87	110,8	23,0	110,4	25,3	109,7	30,5	109,6	36,8
10.4	10	87	119,9	23,2	119,3	25,6	117,7	30,8	117,3	37,3
	15	87	137,5	23,7	136,1	26,1	134,2	31,5	132,1	38,0
	-5	95	78,9	20,6	78,9	22,6	79,2	27,6	*	*
	0	90	91,1	20,9	90,9	23,0	90,4	28,0	*	*
	5	90	100,9	21,2	101,0	23,3	101,7	28,4	101,9	34,8
10.4	7	87	106,7	21,3	105,6	23,4	106,1	28,6	105,5	34,9
	10	87	115,4	21,5	114,3	23,6	113,8	28,8	114,2	35,3
	15	87	132,0	21,8	130,6	23,9	128,2	29,1	128,3	35,7

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

OMICRON S BASIC AND /LN – HEATING CAPACITIES HP (FOR 4T / ACS 2T UNIT)

Model	CONDENSER WATER TEMPERATURE [°C]									
	Ta [°C]	RH %	25/30		30/35		40/45		50/55	
			Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
11.2	-5	95	91,6	23,9	91,5	26,2	91,8	31,5	*	*
	0	90	104,6	24,4	104,3	26,8	104,0	32,3	*	*
	5	90	119,5	25,0	118,8	27,4	117,9	32,9	117,7	39,8
	7	87	126,3	25,2	125,3	27,6	123,8	33,2	123,1	40,1
	10	87	136,2	25,5	135,1	27,9	133,3	33,6	132,1	40,6
11.4	-5	95	87,9	23,7	87,6	26,1	87,8	31,8	*	*
	0	90	100,9	24,1	100,5	26,5	100,1	32,3	*	*
	5	90	115,6	24,5	115,0	26,9	114,0	32,8	113,6	40,1
	7	87	121,9	24,6	121,1	27,1	119,7	33,0	118,8	40,3
	10	87	132,0	24,8	131,0	27,3	129,2	33,2	127,8	40,7
12.4	-5	95	103,6	28,3	104,3	31,1	105,3	37,6	*	*
	0	90	118,4	28,7	118,9	31,6	119,7	38,2	*	*
	5	90	131,6	29,1	131,0	31,9	132,3	38,7	134,8	47,1
	7	87	139,0	29,3	138,2	32,1	138,6	38,9	140,0	47,3
	10	87	150,5	29,5	149,1	32,4	147,6	39,2	149,4	47,7
14.4	-5	95	118,3	32,8	119,1	36,0	119,7	43,3	*	*
	0	90	133,6	33,3	134,4	36,6	136,2	44,1	*	*
	5	90	147,1	33,7	148,3	37,0	152,0	44,7	154,6	54,1
	7	87	154,2	33,9	155,7	37,3	158,7	45,0	160,7	54,4
	10	87	166,2	34,2	167,0	37,6	168,1	45,4	171,2	54,9
16.4	-5	95	131,4	36,3	131,6	39,9	133,5	48,1	*	*
	0	90	149,5	36,9	149,5	40,6	149,8	49,0	*	*
	5	90	170,6	37,5	170,0	41,3	169,4	49,9	169,8	60,2
	7	87	180,2	37,8	179,3	41,6	177,7	50,2	177,4	60,6
	10	87	194,3	38,1	193,1	42,0	191,3	50,7	190,3	61,3
17.4	-5	95	162,3	43,8	162,7	48,2	163,9	58,1	*	*
	0	90	185,1	44,7	184,9	49,2	185,2	59,3	*	*
	5	90	211,1	45,6	210,4	50,2	209,5	60,5	209,9	73,1
	7	87	223,0	46,0	221,9	50,6	220,3	61,0	219,9	73,7
	10	87	241,1	46,5	238,9	51,1	236,5	61,7	235,2	74,6
21.4	-5	95	275,9	47,4	273,6	52,2	268,3	62,9	264,8	76,1
	0	90	318,2	48,6	318,0	53,3	318,5	64,2	*	*
	5	90	357,6	49,7	357,9	54,5	357,3	65,6	357,1	79,2
	7	87	398,0	50,1	397,0	54,9	395,9	66,2	396,0	79,9
	10	87	439,8	50,7	438,2	55,6	436,8	67,0	435,2	80,8

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

OMICRON S /LT AND /SLN – HEATING CAPACITIES HP (FOR 4T / ACS 2T UNIT)

Model	CONDENSER WATER TEMPERATURE [°C]									
	Ta [°C]	RH %	25/30		30/35		40/45		50/55	
			Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
3.2	-5	95	27,5	6,9	27,4	7,6	27,5	9,5	*	*
	0	90	31,8	7,0	31,7	7,7	31,5	9,6	*	*
	5	90	36,6	7,0	36,3	7,8	35,8	9,7	35,4	12,0
	7	87	38,4	7,0	38,1	7,8	37,6	9,7	37,0	12,0
	10	87	41,9	7,1	41,5	7,9	40,8	9,8	39,8	12,1
4.2	-5	95	36,5	9,2	36,4	10,1	36,1	12,4	*	*
	0	90	42,3	9,3	42,0	10,2	41,6	12,6	*	*
	5	90	48,7	9,4	48,3	10,4	47,6	12,7	47,0	15,7
	7	87	51,4	9,4	50,8	10,4	49,9	12,8	49,2	15,7
	10	87	55,6	9,5	55,1	10,5	54,1	12,9	53,1	15,8
5.2	-5	95	44,6	11,9	44,5	13,1	44,5	15,9	*	*
	0	90	51,6	12,1	51,3	13,3	51,3	16,2	*	*
	5	90	59,1	12,3	58,7	13,5	58,0	16,4	57,6	20,1
	7	87	62,4	12,3	61,9	13,6	61,0	16,5	60,4	20,2
	10	87	67,6	12,5	67,0	13,7	65,9	16,7	65,0	20,4
6.2	-5	95	52,1	14,1	52,4	15,5	53,1	18,8	*	*
	0	90	60,9	14,4	60,8	15,8	60,9	19,2	*	*
	5	90	68,4	14,6	68,0	16,0	67,4	19,4	68,1	23,6
	7	87	72,3	14,7	71,7	16,1	70,7	19,5	70,8	23,7
	10	87	78,2	14,8	77,5	16,3	76,3	19,7	75,8	23,9
7.2	-5	95	63,0	16,6	62,9	18,1	63,1	21,8	*	*
	0	90	72,3	16,8	72,1	18,5	71,8	22,2	*	*
	5	90	82,8	17,1	82,3	18,8	81,4	22,6	80,9	27,2
	7	87	87,2	17,2	86,5	18,9	85,3	22,7	84,5	27,4
	10	87	94,7	17,4	93,8	19,1	92,3	23,0	91,1	27,7
8.2	-5	95	74,5	18,7	74,6	20,7	75,2	25,0	*	*
	0	90	85,4	19,1	85,3	21,1	85,4	25,5	*	*
	5	90	97,3	19,4	97,0	21,4	96,5	26,0	96,6	31,4
	7	87	102,7	19,6	102,2	21,6	101,3	26,1	101,0	31,6
	10	87	110,8	19,8	110,2	21,8	109,0	26,4	108,4	32,0
9.2	-5	95	82,6	21,3	82,6	23,4	83,0	28,2	*	*
	0	90	94,8	21,8	95,0	24,0	95,0	28,9	*	*
	5	90	107,9	22,2	107,4	24,4	106,7	29,5	106,7	35,6
	7	87	114,0	22,4	113,3	24,6	112,2	29,7	111,7	35,9
	10	87	123,5	22,6	122,3	24,9	120,7	30,0	119,7	36,3
10.4	-5	95	81,0	20,6	80,5	22,7	80,1	27,7	*	*
	0	90	94,5	21,0	93,9	23,1	92,7	28,1	*	*
	5	90	108,0	21,3	107,0	23,4	105,1	28,5	103,8	34,9
	7	87	113,9	21,4	112,7	23,6	110,4	28,7	108,7	35,1
	10	87	123,8	21,6	122,4	23,8	119,8	28,9	117,5	35,4
	15	87	142,1	21,9	140,4	24,1	136,9	29,3	133,4	35,9

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

OMICRON S /LT AND /SLN – HEATING CAPACITIES HP (FOR 4T / ACS 2T UNIT)

Model	CONDENSER WATER TEMPERATURE [°C]									
	Ta [°C]	RH %	25/30		30/35		40/45		50/55	
			Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
11.2	-5	95	93,2	24,0	93,7	26,3	94,7	31,7	*	*
	0	90	106,5	24,5	107,8	26,9	108,4	32,5	*	*
	5	90	122,0	25,0	121,1	27,4	119,8	33,0	120,7	39,9
	7	87	128,9	25,3	127,8	27,7	126,0	33,3	125,5	40,2
	10	87	139,3	25,6	138,0	28,0	135,7	33,7	134,2	40,7
11.4	-5	95	89,3	23,8	89,0	26,1	88,9	31,9	*	*
	0	90	102,8	24,1	103,9	26,6	103,5	32,4	*	*
	5	90	118,2	24,5	117,3	27,0	115,8	32,8	115,0	40,2
	7	87	124,9	24,7	123,8	27,1	121,7	33,0	120,4	40,4
	10	87	135,2	24,9	133,9	27,4	131,6	33,3	129,8	40,7
12.4	-5	95	105,3	27,2	105,3	29,8	105,5	36,1	*	*
	0	90	121,0	27,6	120,8	30,3	120,6	36,7	*	*
	5	90	138,2	28,1	137,5	30,8	136,4	37,3	135,9	45,2
	7	87	145,7	28,2	144,5	31,0	143,1	37,5	142,1	45,5
	10	87	157,6	28,5	156,4	31,3	154,4	37,9	153,0	45,9
14.4	-5	95	117,5	30,8	117,7	33,8	118,8	40,6	*	*
	0	90	133,7	31,3	133,6	34,3	134,1	41,3	*	*
	5	90	152,3	31,8	151,9	34,9	151,5	42,0	152,0	50,6
	7	87	160,9	32,0	160,2	35,1	159,3	42,3	158,7	51,0
	10	87	173,5	32,3	172,4	35,4	170,9	42,7	170,2	51,5
16.4	-5	95	138,5	36,5	138,4	40,2	138,8	48,4	*	*
	0	90	159,2	37,2	158,8	40,9	157,6	49,3	*	*
	5	90	181,6	37,8	180,6	41,6	178,9	50,2	178,2	60,7
	7	87	191,1	38,0	189,8	41,9	187,7	50,6	185,9	61,1
	10	87	207,1	38,4	205,5	42,3	202,6	51,1	200,5	61,8
17.4	-5	95	154,0	40,1	154,0	44,3	154,3	53,5	*	*
	0	90	177,7	40,9	176,0	45,1	175,3	54,5	*	*
	5	90	202,8	41,6	201,5	46,0	199,3	55,6	198,3	67,2
	7	87	213,8	41,9	212,0	46,3	209,3	56,0	207,2	67,7
	10	87	231,5	42,4	229,6	46,8	226,1	56,7	223,5	68,6
19.4	-5	95	167,9	44,0	167,8	48,4	168,4	58,3	*	*
	0	90	192,1	45,0	191,4	49,4	190,8	59,6	*	*
	5	90	219,7	45,9	218,6	50,5	216,8	60,9	216,0	73,5
	7	87	232,1	46,2	230,5	50,8	227,8	61,4	226,0	74,1
	10	87	250,6	46,8	248,7	51,4	245,2	62,1	242,8	75,0
21.4	-5	95	180,7	47,9	180,5	52,5	182,8	63,2	*	*
	0	90	206,0	49,0	205,4	53,7	205,2	64,6	*	*
	5	90	235,4	50,0	234,2	54,8	232,6	66,0	232,4	79,7
	7	87	248,6	50,4	247,1	55,3	244,7	66,6	243,5	80,4
	10	87	269,4	51,1	266,7	56,0	262,9	67,4	260,8	81,3
	15	87	308,3	52,2	305,3	57,2	299,2	68,7	294,0	82,9

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

OMICRON S /HT AND HT /LN – HEATING CAPACITIES HP (FOR 4T / ACS 2T UNIT)

Model	CONDENSER WATER TEMPERATURE [°C]											
	Ta [°C]	RH %	25/30		30/35		40/45		50/55		60/65	
			Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
3.2	-5	95	25,6	6,7	25,7	7,5	26,2	9,3	*	*	*	*
	0	90	28,7	6,8	29,2	7,6	29,6	9,4	*	*	*	*
	5	90	32,8	6,9	32,7	7,6	32,9	9,5	33,1	11,8	*	*
	7	87	34,6	6,9	34,5	7,7	34,3	9,5	34,5	11,8	34,5	14,1
	10	87	37,5	6,9	37,3	7,7	36,9	9,6	36,9	11,8	36,8	14,2
	15	87	42,8	7,0	42,5	7,8	41,8	9,6	41,2	11,9	41,2	14,3
4.2	-5	95	34,5	9,0	34,4	10,0	34,5	12,3	*	*	*	*
	0	90	39,7	9,2	39,5	10,1	39,4	12,4	*	*	*	*
	5	90	45,5	9,3	45,3	10,2	44,9	12,6	44,6	15,5	*	*
	7	87	48,0	9,3	47,6	10,3	47,1	12,6	46,7	15,5	46,5	18,6
	10	87	52,0	9,3	51,6	10,3	50,9	12,7	50,3	15,6	49,9	18,7
	15	87	59,4	9,4	58,9	10,4	57,8	12,8	56,8	15,8	56,1	18,9
5.2	-5	95	*	*	*	*	41,8	15,6	*	*	*	*
	0	90	47,0	11,8	46,9	13,0	47,1	15,8	*	*	*	*
	5	90	53,7	11,9	53,5	13,1	53,4	16,0	53,6	19,6	*	*
	7	87	56,7	12,0	56,5	13,2	56,2	16,1	56,2	19,7	56,5	23,5
	10	87	61,5	12,1	61,1	13,3	60,4	16,2	60,2	19,8	60,3	23,6
	15	87	70,2	12,3	69,7	13,5	68,8	16,4	67,8	20,1	67,4	23,9
6.2	-5	95	*	*	50,2	15,3	50,8	18,5	*	*	*	*
	0	90	56,0	14,1	55,9	15,5	56,2	18,7	*	*	*	*
	5	90	63,9	14,3	63,7	15,7	63,5	19,0	64,0	23,0	*	*
	7	87	67,5	14,4	67,2	15,8	66,7	19,1	66,7	23,2	67,9	27,5
	10	87	73,2	14,5	72,5	15,9	71,8	19,2	71,5	23,4	72,1	27,7
	15	87	83,6	14,7	83,0	16,1	81,7	19,5	80,4	23,7	80,1	28,1
7.2	-5	95	60,0	16,2	60,4	17,8	61,2	21,4	*	*	*	*
	0	90	68,3	16,4	68,5	18,0	69,2	21,7	*	*	*	*
	5	90	75,0	16,6	75,2	18,2	76,8	22,0	78,6	26,6	*	*
	7	87	79,2	16,7	79,1	18,3	80,1	22,1	81,2	26,7	82,0	31,5
	10	87	85,9	16,8	85,1	18,5	85,1	22,3	86,6	27,0	87,5	31,8
	15	87	98,6	17,1	97,5	18,8	96,0	22,6	96,7	27,4	97,9	32,3
8.2	-5	95	74,3	19,7	74,5	21,8	75,0	26,3	*	*	*	*
	0	90	85,3	20,1	85,2	22,2	85,3	26,8	*	*	*	*
	5	90	97,1	20,4	96,8	22,5	96,3	27,3	96,3	33,0	*	*
	7	87	102,6	20,5	102,1	22,7	101,2	27,5	100,8	33,2	101,2	39,3
	10	87	110,6	20,7	110,0	22,9	108,9	27,8	108,2	33,6	108,2	39,8
	15	87	127,5	21,1	126,2	23,3	123,8	28,3	122,3	34,3	121,5	40,6
9.2	-5	95	*	*	81,0	23,8	81,6	28,7	*	*	*	*
	0	90	92,1	22,1	92,0	24,3	92,3	29,3	*	*	*	*
	5	90	105,0	22,5	104,7	24,7	104,4	29,9	104,6	36,1	*	*
	7	87	110,9	22,7	110,4	24,9	109,8	30,1	109,6	36,4	110,1	42,9
	10	87	120,0	22,9	119,3	25,2	117,8	30,4	117,3	36,8	117,4	43,4
	15	87	137,7	23,3	136,3	25,7	134,3	31,0	132,1	37,5	131,5	44,3
10.4	-5	95	78,8	20,3	78,9	22,3	79,2	27,2	*	*	*	*
	0	90	91,1	20,6	90,9	22,7	90,4	27,6	*	*	*	*
	5	90	101,0	20,9	100,9	22,9	101,7	28,0	101,9	34,3	*	*
	7	87	106,8	21,0	105,8	23,0	106,1	28,1	105,5	34,4	106,3	41,0
	10	87	115,6	21,1	114,4	23,2	113,8	28,3	114,2	34,7	114,0	41,3
	15	87	132,4	21,4	130,9	23,5	128,3	28,6	128,3	35,0	128,2	41,8

Recovery side only

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

OMICRON S /HT AND HT /LN – HEATING CAPACITIES HP (FOR 4T / ACS 2T UNIT)

Model	CONDENSER WATER TEMPERATURE [°C]											
	Ta [°C]	RH %	25/30		30/35		40/45		50/55		60/65	
			Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
11.2	-5	95	91,6	23,7	91,5	26,0	91,8	31,3	*	*	*	*
	0	90	104,6	24,2	104,3	26,6	104,0	32,0	*	*	*	*
	5	90	119,5	24,7	118,9	27,1	118,0	32,7	117,7	39,4	*	*
	7	87	126,4	24,9	125,4	27,3	123,8	32,9	123,1	39,7	123,1	46,8
	10	87	136,3	25,2	135,2	27,6	133,4	33,3	132,2	40,2	131,7	47,3
	15	87	156,2	25,8	153,9	28,2	151,3	33,9	149,1	40,9	147,6	48,2
11.4	-5	95	87,9	23,4	87,6	25,7	87,7	31,3	*	*	*	*
	0	90	101,0	23,7	100,5	26,1	100,1	31,8	*	*	*	*
	5	90	115,8	24,1	115,1	26,5	114,1	32,2	113,6	39,4	*	*
	7	87	122,1	24,2	121,2	26,6	119,8	32,4	118,9	39,6	118,4	47,2
	10	87	132,2	24,4	131,2	26,8	129,3	32,6	127,9	39,9	127,2	47,6
	15	87	151,0	24,7	149,7	27,2	147,0	33,0	144,6	40,4	142,8	48,1
12.4	-5	95	103,5	27,9	104,2	30,7	105,3	37,1	*	*	*	*
	0	90	118,1	28,3	118,9	31,1	119,6	37,7	*	*	*	*
	5	90	131,7	28,7	131,0	31,5	132,1	38,1	134,5	46,4	*	*
	7	87	139,2	28,8	138,3	31,7	138,5	38,3	139,9	46,6	140,5	55,2
	10	87	150,8	29,1	149,3	31,9	147,5	38,6	149,2	47,0	150,8	55,7
	15	87	173,0	29,5	171,2	32,4	167,8	39,2	166,6	47,6	168,3	56,5
14.4	-5	95	118,2	32,5	119,0	35,6	119,9	42,8	*	*	*	*
	0	90	133,5	32,9	134,3	36,1	136,1	43,5	*	*	*	*
	5	90	146,3	33,3	148,0	36,5	151,7	44,1	154,5	53,3	*	*
	7	87	154,0	33,4	155,5	36,7	158,5	44,4	160,4	53,6	161,6	63,2
	10	87	166,0	33,7	166,8	37,0	167,9	44,7	171,0	54,1	172,8	63,8
	15	87	189,6	34,2	188,0	37,5	191,2	45,4	190,5	54,9	192,7	64,8
16.4	-5	95	131,3	35,8	131,6	39,4	133,4	47,5	*	*	*	*
	0	90	149,6	36,4	149,5	40,1	149,8	48,3	*	*	*	*
	5	90	170,6	37,0	170,1	40,7	169,4	49,1	169,7	59,3	*	*
	7	87	180,3	37,2	179,5	41,0	177,8	49,5	177,5	59,7	178,2	70,5
	10	87	194,5	37,5	193,3	41,3	191,4	49,9	190,3	60,4	190,4	71,2
	15	87	223,8	38,1	220,9	42,0	216,9	50,8	214,5	61,4	213,2	72,6
17.4	-5	95	*	*	*	*	145,5	52,3	*	*	*	*
	0	90	160,0	39,8	160,2	44,0	161,0	53,2	*	*	*	*
	5	90	182,3	40,5	182,0	44,7	181,8	54,1	182,8	65,4	*	*
	7	87	192,4	40,7	191,9	45,0	191,3	54,5	191,3	65,9	193,2	77,9
	10	87	208,5	41,1	207,5	45,5	205,2	55,1	204,7	66,6	205,7	78,8
	15	87	237,9	41,8	236,7	46,2	233,8	56,1	230,2	67,9	229,8	80,4
19.4	-5	95	162,6	43,3	162,7	47,7	163,8	57,4	*	*	*	*
	0	90	185,2	44,2	184,9	48,6	185,2	58,6	*	*	*	*
	5	90	211,3	45,0	210,5	49,5	209,5	59,8	209,8	72,2	*	*
	7	87	223,1	45,4	222,1	49,9	220,4	60,2	219,9	72,8	220,3	85,8
	10	87	241,4	45,9	239,2	50,4	236,6	60,9	235,2	73,6	235,3	86,9
	15	87	276,3	46,7	274,0	51,4	268,8	62,0	265,0	75,0	263,3	88,6
21.4	-5	95	*	*	*	*	177,8	62,2	*	*	*	*
	0	90	198,2	48,1	198,0	52,7	198,4	63,4	*	*	*	*
	5	90	227,0	49,1	225,0	53,8	224,3	64,8	225,1	78,2	*	*
	7	87	238,2	49,4	237,2	54,2	235,9	65,3	236,0	78,8	237,1	92,9
	10	87	258,0	50,0	256,4	54,8	254,1	66,1	252,2	79,7	252,5	93,9
	15	87	295,0	51,0	291,7	55,9	288,0	67,3	285,0	81,3	281,9	95,7

Recovery side only

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

OMICRON S HT /SLN AND HT /LT – HEATING CAPACITIES HP (FOR 4T / ACS 2T UNIT)

Model	CONDENSER WATER TEMPERATURE [°C]											
	Ta [°C]	RH %	25/30		30/35		40/45		50/55		60/65	
			Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
3.2	-5	95	27,5	6,8	27,4	7,5	27,4	9,4	*	*	*	*
	0	90	31,8	6,8	31,7	7,6	31,5	9,5	*	*	*	*
	5	90	36,6	6,9	36,3	7,7	35,8	9,5	35,4	11,8	*	*
	7	87	38,4	6,9	38,2	7,7	37,6	9,6	37,1	11,8	36,6	14,2
	10	87	42,0	7,0	41,6	7,8	40,8	9,6	39,9	11,9	39,1	14,3
	15	87	48,2	7,0	47,7	7,8	46,6	9,7	45,3	12,0	43,9	14,4
4.2	-5	95	36,5	9,1	36,4	10,0	36,1	12,3	*	*	*	*
	0	90	42,3	9,2	42,0	10,2	41,6	12,5	*	*	*	*
	5	90	48,7	9,3	48,3	10,3	47,7	12,6	47,0	15,5	*	*
	7	87	51,4	9,3	50,8	10,3	49,9	12,7	49,2	15,6	48,8	18,7
	10	87	55,7	9,4	55,2	10,4	54,1	12,7	53,2	15,7	52,4	18,8
	15	87	63,8	9,5	63,2	10,5	61,8	12,9	60,3	15,8	59,1	19,0
5.2	-5	95	44,7	11,7	44,5	12,9	44,5	15,7	*	*	*	*
	0	90	51,7	11,9	51,4	13,1	51,3	15,9	*	*	*	*
	5	90	59,2	12,1	58,8	13,3	58,1	16,1	57,6	19,7	*	*
	7	87	62,5	12,1	62,0	13,3	61,1	16,2	60,4	19,8	60,1	23,6
	10	87	67,7	12,2	67,1	13,4	66,0	16,4	65,1	20,0	64,5	23,8
	15	87	77,6	12,4	76,9	13,6	75,3	16,6	73,8	20,2	72,7	24,1
6.2	-5	95	52,1	14,0	52,4	15,3	53,1	18,6	*	*	*	*
	0	90	60,3	14,2	60,8	15,6	60,9	18,9	*	*	*	*
	5	90	68,5	14,4	68,1	15,8	67,4	19,1	68,0	23,2	*	*
	7	87	72,4	14,5	71,8	15,9	70,8	19,2	70,8	23,3	71,0	27,6
	10	87	78,3	14,6	77,6	16,0	76,4	19,4	75,7	23,5	76,2	27,9
	15	87	89,8	14,8	88,9	16,3	87,0	19,7	85,5	23,9	85,3	28,3
7.2	-5	95	63,0	16,3	62,9	17,9	63,0	21,5	*	*	*	*
	0	90	72,4	16,5	72,1	18,1	71,8	21,8	*	*	*	*
	5	90	83,0	16,8	82,4	18,4	81,5	22,2	80,9	26,7	*	*
	7	87	87,4	16,9	86,7	18,5	85,5	22,3	84,6	26,9	84,2	31,6
	10	87	94,9	17,0	94,0	18,7	92,5	22,5	91,2	27,1	90,4	32,0
	15	87	109,3	17,3	107,9	19,0	105,6	22,9	103,6	27,6	101,9	32,5
8.2	-5	95	74,5	18,5	74,6	20,4	75,2	24,7	*	*	*	*
	0	90	85,4	18,8	85,3	20,8	85,3	25,2	*	*	*	*
	5	90	97,3	19,1	97,0	21,1	96,6	25,6	96,6	31,0	*	*
	7	87	102,8	19,3	102,3	21,3	101,4	25,8	101,0	31,2	101,4	36,9
	10	87	110,9	19,4	110,2	21,5	109,1	26,1	108,5	31,5	108,5	37,3
	15	87	127,8	19,8	126,2	21,9	124,1	26,5	122,6	32,2	121,9	38,1
9.2	-5	95	82,6	21,7	82,6	23,9	83,0	28,8	*	*	*	*
	0	90	94,8	22,2	95,1	24,4	95,0	29,4	*	*	*	*
	5	90	108,0	22,6	107,5	24,8	106,8	30,0	106,6	36,2	*	*
	7	87	114,1	22,8	113,4	25,0	112,2	30,2	111,7	36,5	111,9	43,0
	10	87	123,6	23,0	122,5	25,3	120,8	30,5	119,8	36,9	119,5	43,6
	15	87	141,9	23,4	140,5	25,8	137,8	31,1	135,4	37,6	134,2	44,4
10.4	-5	95	81,0	20,4	80,6	22,4	80,1	27,3	*	*	*	*
	0	90	94,6	20,7	94,0	22,8	92,8	27,7	*	*	*	*
	5	90	108,2	21,0	107,1	23,1	105,3	28,1	103,9	34,3	*	*
	7	87	114,1	21,1	112,9	23,2	110,6	28,2	108,8	34,5	107,8	41,1
	10	87	124,0	21,3	122,7	23,4	120,1	28,4	117,6	34,8	115,9	41,4
	15	87	142,5	21,5	140,7	23,7	137,2	28,8	133,7	35,2	130,8	41,9

Recovery side only

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

OMICRON S HT /SLN AND HT /LT – HEATING CAPACITIES HP (FOR 4T / ACS 2T UNIT)

Model	CONDENSER WATER TEMPERATURE [°C]											
	Ta [°C]	RH %	25/30		30/35		40/45		50/55		60/65	
			Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
11.2	-5	95	93,1	23,8	93,7	26,1	94,6	31,5	*	*	*	*
	0	90	106,5	24,3	107,5	26,7	108,3	32,2	*	*	*	*
	5	90	122,1	24,8	121,2	27,2	119,8	32,7	120,7	39,6	*	*
	7	87	129,0	25,0	127,9	27,4	126,1	33,0	125,5	39,8	126,3	47,0
	10	87	139,5	25,3	138,1	27,7	135,8	33,4	134,2	40,3	135,2	47,5
	15	87	159,8	25,8	157,9	28,3	154,5	34,0	151,5	41,0	150,8	48,4
11.4	-5	95	89,3	23,4	89,0	25,8	88,9	31,4	*	*	*	*
	0	90	102,9	23,8	104,0	26,2	103,5	31,9	*	*	*	*
	5	90	118,4	24,1	117,5	26,5	116,0	32,3	115,0	39,5	*	*
	7	87	125,1	24,3	124,0	26,7	121,9	32,4	120,5	39,7	119,8	47,3
	10	87	135,4	24,5	134,1	26,9	131,8	32,7	129,9	40,0	128,7	47,6
	15	87	155,2	24,7	153,5	27,2	150,2	33,1	147,1	40,5	144,8	48,2
12.4	-5	95	105,3	26,8	105,3	29,5	105,4	35,6	*	*	*	*
	0	90	121,1	27,2	120,8	29,9	120,6	36,2	*	*	*	*
	5	90	138,3	27,6	137,6	30,4	136,5	36,7	135,9	44,5	*	*
	7	87	145,9	27,8	144,7	30,5	143,2	36,9	142,2	44,8	141,7	53,0
	10	87	157,9	28,0	156,6	30,8	154,5	37,2	153,1	45,2	152,1	53,5
	15	87	180,9	28,4	179,1	31,2	175,9	37,8	173,1	45,9	171,1	54,3
14.4	-5	95	117,5	32,8	117,7	36,0	118,8	43,2	*	*	*	*
	0	90	133,7	33,3	133,6	36,6	134,1	44,0	*	*	*	*
	5	90	152,3	33,9	151,9	37,2	151,5	44,7	152,0	53,9	*	*
	7	87	160,9	34,1	160,2	37,4	159,3	45,0	158,7	54,3	159,2	64,0
	10	87	173,5	34,4	172,4	37,7	170,9	45,5	170,2	54,8	170,1	64,6
	15	87	199,7	35,0	198,0	38,4	193,7	46,2	191,8	55,8	190,5	65,8
16.4	-5	95	138,5	36,0	138,4	39,7	138,7	47,8	*	*	*	*
	0	90	159,3	36,7	158,8	40,4	157,6	48,7	*	*	*	*
	5	90	181,8	37,2	180,8	41,0	179,0	49,5	178,2	59,8	*	*
	7	87	191,4	37,4	190,0	41,2	187,9	49,8	186,0	60,1	185,9	71,0
	10	87	207,4	37,8	205,8	41,6	202,8	50,3	200,7	60,8	199,6	71,8
	15	87	237,7	38,4	235,3	42,3	230,9	51,2	227,2	62,0	224,5	73,2
17.4	-5	95	154,0	39,6	154,0	43,7	154,2	52,8	*	*	*	*
	0	90	177,8	40,4	176,1	44,5	175,3	53,8	*	*	*	*
	5	90	202,9	41,0	201,7	45,3	199,5	54,8	198,3	66,3	*	*
	7	87	214,1	41,3	212,3	45,6	209,5	55,2	207,4	66,8	207,3	78,9
	10	87	231,8	41,7	229,9	46,1	226,4	55,8	223,7	67,6	222,5	79,9
	15	87	265,9	42,4	263,3	46,9	258,2	56,9	253,8	69,0	250,7	81,7
19.4	-5	95	167,9	43,5	167,8	47,9	168,3	57,7	*	*	*	*
	0	90	192,2	44,4	191,5	48,9	190,8	58,9	*	*	*	*
	5	90	219,9	45,3	218,7	49,8	216,9	60,1	216,0	72,6	*	*
	7	87	232,3	45,6	230,7	50,2	228,0	60,6	226,0	73,1	226,1	86,2
	10	87	251,0	46,1	248,9	50,7	245,4	61,2	243,0	74,0	242,1	87,3
	15	87	288,3	47,0	284,3	51,7	279,2	62,4	274,7	75,4	271,8	89,1
21.4	-5	95	180,7	47,3	180,5	51,9	182,5	62,5	*	*	*	*
	0	90	206,1	48,4	205,5	53,0	205,2	63,8	*	*	*	*
	5	90	235,6	49,4	234,4	54,1	232,7	65,2	232,4	78,6	*	*
	7	87	248,8	49,8	247,3	54,5	244,8	65,7	243,6	79,3	243,7	93,3
	10	87	269,7	50,4	267,1	55,2	263,2	66,4	260,9	80,2	260,2	94,4
	15	87	308,8	51,4	305,8	56,3	299,8	67,7	294,3	81,6	291,6	96,2

Recovery side only

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

OMICRON S BASIC UNIT, /LN, /SLN AND /LT – TOTAL RECOVERY CAPACITIES

Model	To	CONDENSER WATER TEMPERATURE [°C]											
	[°C]	25/30			30/35			40/45			50/55		
		Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr
3.2	5	35,0	7,1	42,0	33,5	7,9	41,4	30,3	9,8	40,1	26,6	12,1	38,7
	6	36,2	7,1	43,3	34,7	7,9	42,6	31,4	9,8	41,2	27,6	12,1	39,7
	7	37,4	7,1	44,5	35,9	7,9	43,8	32,5	9,8	42,3	28,5	12,1	40,7
	8	38,6	7,1	45,7	37,1	7,9	45,0	33,6	9,8	43,4	29,5	12,2	41,7
	9	39,9	7,1	47,0	38,3	7,9	46,2	34,7	9,9	44,6	30,6	12,2	42,8
4.2	5	46,0	9,5	55,5	44,2	10,5	54,6	40,0	12,8	52,9	35,4	15,8	51,1
	6	47,6	9,5	57,1	45,7	10,5	56,2	41,5	12,9	54,3	36,7	15,8	52,5
	7	49,2	9,5	58,7	47,3	10,5	57,8	42,9	12,9	55,8	38,0	15,9	53,9
	8	50,9	9,5	60,4	48,9	10,5	59,4	44,4	12,9	57,3	39,4	15,9	55,3
	9	52,5	9,5	62,1	50,5	10,5	61,0	45,9	12,9	58,8	40,7	15,9	56,7
5.2	5	58,7	12,6	71,3	56,3	13,8	70,1	51,0	16,8	67,8	45,0	20,5	65,5
	6	60,8	12,6	73,4	58,3	13,8	72,2	52,8	16,8	69,7	46,7	20,6	67,2
	7	62,9	12,6	75,5	60,4	13,9	74,2	54,7	16,9	71,6	48,4	20,6	69,0
	8	65,0	12,7	77,7	62,4	13,9	76,3	56,6	16,9	73,5	50,1	20,7	70,8
	9	67,2	12,7	79,9	64,5	14,0	78,4	58,5	17,0	75,5	51,9	20,7	72,6
6.2	5	69,3	12,7	82,1	66,6	14,0	80,6	60,5	17,0	77,5	53,7	20,8	74,5
	6	68,5	15,1	83,6	65,7	16,5	82,2	59,6	20,0	79,6	53,0	24,2	77,2
	7	71,0	15,1	86,1	68,0	16,6	84,6	61,7	20,1	81,8	54,9	24,3	79,2
	8	73,5	15,2	88,6	70,4	16,7	87,0	63,9	20,1	84,1	56,9	24,4	81,3
	9	76,0	15,2	91,2	72,8	16,7	89,5	66,1	20,2	86,3	58,9	24,5	83,4
7.2	5	78,5	15,3	93,8	75,2	16,8	92,0	68,4	20,3	88,6	61,0	24,5	85,5
	6	81,1	15,3	96,4	77,7	16,8	94,6	70,7	20,3	91,0	63,1	24,6	87,7
	7	84,1	17,6	98,8	80,5	19,2	97,1	73,2	23,2	94,0	65,6	28,1	93,6
	8	87,0	17,7	101,8	83,3	19,4	99,9	75,8	23,3	96,6	67,8	28,2	96,0
	9	89,9	17,8	104,7	86,1	19,5	102,8	78,3	23,4	99,2	70,2	28,3	98,5
8.2	5	93,0	17,9	110,8	89,0	19,6	108,6	81,0	23,6	104,6	72,6	28,4	101,0
	6	81,2	17,6	98,8	77,8	19,3	97,1	70,7	23,2	94,0	63,3	28,0	91,3
	7	84,1	17,7	101,8	80,5	19,4	99,9	73,2	23,3	96,6	65,6	28,1	93,6
	8	87,0	17,7	104,7	83,3	19,5	102,8	75,8	23,4	99,2	67,8	28,2	96,0
	9	89,9	17,8	107,7	86,1	19,5	105,6	78,3	23,5	101,8	70,2	28,3	98,5
9.2	5	95,8	22,3	118,1	91,7	24,6	116,3	83,2	29,7	112,9	74,1	35,9	110,0
	6	99,2	22,4	121,6	95,0	24,7	119,7	86,2	29,9	116,0	76,8	36,1	112,8
	7	102,5	22,5	125,1	98,2	24,8	123,1	89,2	30,0	119,2	79,5	36,3	115,7
	8	106,0	22,6	128,6	101,6	25,0	126,5	92,2	30,2	122,4	82,2	36,4	118,7
	9	109,5	22,8	132,2	104,9	25,1	130,0	95,3	30,3	125,6	85,0	36,6	121,6
10.4	5	113,0	22,9	135,9	108,3	25,2	133,5	98,5	30,5	128,9	87,9	36,8	124,7
	6	107,5	24,7	132,2	103,0	27,1	130,1	93,6	32,6	126,2	83,5	39,3	122,8
	7	111,3	24,8	136,1	106,6	27,2	133,8	96,9	32,8	129,6	86,5	39,5	125,9
	8	115,0	24,9	140,0	110,3	27,3	137,6	100,2	32,9	133,1	89,5	39,7	129,2
	9	118,9	25,0	143,9	114,0	27,5	141,4	103,6	33,1	136,7	92,5	39,9	132,4
10.4	5	122,7	25,2	147,9	117,7	27,6	145,3	107,0	33,2	140,3	95,6	40,1	135,7
	6	126,7	25,3	151,9	121,5	27,7	149,2	110,6	33,4	143,9	98,8	40,2	139,1
	7	105,6	21,7	127,3	101,3	23,9	125,1	91,6	29,0	120,6	80,8	35,4	116,3
	8	109,3	21,8	131,1	104,9	23,9	128,8	95,0	29,1	124,0	83,9	35,5	119,4
	9	113,1	21,8	134,9	108,5	24,0	132,5	98,4	29,2	127,5	87,0	35,6	122,6
10.4	8	116,9	21,9	138,8	112,2	24,1	136,2	101,7	29,3	131,0	90,1	35,7	125,8
	9	120,7	21,9	142,7	115,9	24,1	140,0	105,2	29,3	134,5	93,2	35,8	129,0
10.4	10	124,7	22,0	146,6	119,7	24,2	143,9	108,8	29,4	138,2	96,5	35,9	132,4

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

OMICRON S BASIC UNIT, /LN, /SLN AND /LT – TOTAL RECOVERY CAPACITIES

Model	To	CONDENSER WATER TEMPERATURE [°C]											
	[°C]	25/30			30/35			40/45			50/55		
		Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr
11.2	5	121,7	26,5	148,1	116,7	28,9	145,6	106,2	34,8	141,0	95,0	41,8	136,9
	6	125,9	26,6	152,5	120,8	29,1	149,8	110,0	34,9	144,9	98,4	42,0	140,4
	7	130,1	26,7	156,8	124,8	29,2	154,1	113,7	35,1	148,8	101,8	42,2	144,0
	8	134,4	26,8	161,3	129,0	29,3	158,4	117,6	35,2	152,8	105,3	42,4	147,6
	9	138,8	27,0	165,8	133,2	29,5	162,7	121,4	35,4	156,8	108,8	42,5	151,3
10	143,2	27,1	170,3	137,5	29,6	167,1	125,4	35,5	160,9	112,4	42,7	155,1	
11.4	5	115,0	25,9	140,9	110,1	28,5	138,6	99,3	34,6	134,0	87,3	42,3	129,6
	6	119,0	26,0	145,0	114,0	28,6	142,6	103,0	34,8	137,7	90,6	42,4	133,0
	7	123,1	26,1	149,2	118,0	28,7	146,6	106,6	34,9	141,5	93,9	42,6	136,5
	8	127,3	26,2	153,4	122,0	28,8	150,7	110,3	35,0	145,3	97,3	42,7	140,0
	9	131,4	26,2	157,7	126,0	28,9	154,8	114,0	35,1	149,1	100,7	42,8	143,5
10	135,6	26,3	162,0	130,1	29,0	159,0	117,9	35,2	153,1	104,2	43,0	147,1	
12.4	5	139,2	30,0	169,1	133,3	32,9	166,2	121,0	39,7	160,7	107,6	48,1	155,7
	6	144,1	30,1	174,2	138,1	33,0	171,1	125,3	39,9	165,2	111,6	48,3	159,8
	7	149,2	30,1	179,3	142,9	33,1	176,0	129,8	40,0	169,8	115,6	48,5	164,0
	8	154,3	30,2	184,5	147,8	33,2	181,0	134,3	40,1	174,4	119,6	48,6	168,2
	9	159,5	30,3	189,8	152,8	33,3	186,1	138,8	40,3	179,1	123,8	48,8	172,6
10	164,7	30,4	195,2	157,9	33,4	191,3	143,6	40,4	183,9	128,1	48,9	177,1	
14.4	5	159,3	34,9	194,1	152,5	38,3	190,7	138,6	46,0	184,6	124,0	55,4	179,4
	6	165,0	35,0	200,0	157,9	38,4	196,3	143,6	46,2	189,8	128,5	55,6	184,1
	7	170,8	35,1	206,0	163,5	38,5	202,1	148,7	46,4	195,1	133,1	55,8	188,9
	8	176,8	35,3	212,0	169,2	38,7	207,8	153,8	46,5	200,3	137,7	56,0	193,7
	9	182,7	35,4	218,1	174,9	38,8	213,7	159,0	46,7	205,8	142,5	56,3	198,7
10	188,9	35,5	224,4	180,8	38,9	219,8	164,5	46,9	211,3	147,4	56,5	203,9	
16.4	5	173,2	39,8	213,0	165,9	43,8	209,7	150,7	52,8	203,5	134,5	63,7	198,2
	6	179,3	40,0	219,3	171,8	44,0	215,8	156,1	53,0	209,1	139,4	64,0	203,4
	7	185,6	40,2	225,7	177,8	44,2	221,9	161,6	53,3	214,9	144,4	64,3	208,6
	8	191,9	40,3	232,2	183,8	44,4	228,2	167,1	53,5	220,6	149,3	64,6	213,9
	9	198,3	40,5	238,7	189,9	44,6	234,5	172,7	53,7	226,5	154,4	64,8	219,3
10	204,7	40,7	245,4	196,2	44,7	240,9	178,5	54,0	232,5	159,7	65,1	224,8	
17.4	5	192,5	44,1	236,7	184,4	48,7	233,1	167,4	58,8	226,2	149,3	71,0	220,3
	6	199,3	44,3	243,6	190,9	48,9	239,8	173,4	59,1	232,4	154,7	71,3	226,0
	7	206,1	44,5	250,7	197,5	49,1	246,6	179,4	59,3	238,8	160,2	71,7	231,8
	8	213,1	44,7	257,8	204,2	49,3	253,5	185,6	59,6	245,2	165,7	72,0	237,7
	9	220,1	44,9	265,0	210,9	49,5	260,5	191,8	59,9	251,7	171,3	72,4	243,7
10	227,2	45,1	272,3	217,8	49,8	267,6	198,2	60,2	258,3	177,2	72,8	249,9	
19.4	5	216,0	48,9	264,9	207,2	53,7	260,9	188,7	64,7	253,4	168,8	78,0	246,8
	6	223,4	49,1	272,6	214,4	53,9	268,3	195,2	65,0	260,2	174,7	78,4	253,1
	7	230,9	49,4	280,2	221,6	54,2	275,8	201,9	65,3	267,2	180,8	78,7	259,5
	8	238,5	49,6	288,1	228,9	54,4	283,3	208,7	65,6	274,2	186,8	79,1	265,9
	9	246,1	49,8	295,9	236,2	54,7	290,9	215,4	65,8	281,3	193,0	79,4	272,5
10	253,8	50,1	303,8	243,7	54,9	298,6	222,4	66,1	288,5	199,4	79,8	279,2	
21.4	5	241,3	53,2	294,5	231,6	58,2	289,8	211,2	69,9	281,1	189,2	84,2	273,4
	6	249,5	53,4	302,9	239,5	58,5	298,0	218,5	70,2	288,7	195,9	84,5	280,4
	7	257,7	53,7	311,4	247,5	58,7	306,2	225,9	70,5	296,4	202,6	84,9	287,5
	8	266,2	53,9	320,1	255,6	59,0	314,6	233,4	70,8	304,2	209,3	85,2	294,6
	9	274,6	54,2	328,8	263,8	59,3	323,0	240,9	71,1	312,0	216,2	85,6	301,8
10	283,2	54,5	337,6	272,1	59,5	331,6	248,6	71,4	320,0	223,3	85,9	309,2	

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

OMICRON S /HT, HT /LN, HT /SLN AND HT /LT – TOTAL RECOVERY CAPACITIES

Model	To	CONDENSER WATER TEMPERATURE [°C]														
	[°C]	25/30			30/35			40/45			50/55			60/65		
		Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr
3.2	5	35,2	7,0	42,1	33,8	7,8	41,5	30,6	9,6	40,2	26,9	11,9	38,8	23,3	14,3	37,5
	6	36,4	7,0	43,4	35,0	7,8	42,7	31,7	9,6	41,3	27,9	11,9	39,8	24,2	14,3	38,4
	7	37,6	7,0	44,6	36,2	7,8	43,9	32,8	9,6	42,5	28,9	11,9	40,8	25,1	14,3	39,3
	8	38,9	7,0	45,9	37,4	7,8	45,2	33,9	9,7	43,6	29,9	12,0	41,9	*	*	*
	9	40,1	7,0	47,1	38,6	7,8	46,4	35,1	9,7	44,7	31,0	12,0	42,9	*	*	*
10	41,4	7,0	48,4	39,8	7,8	47,6	36,2	9,7	45,9	32,0	12,0	44,0	*	*	*	
4.2	5	46,4	9,3	55,6	44,5	10,3	54,8	40,4	12,6	53,0	35,8	15,5	51,3	31,4	18,5	49,9
	6	48,0	9,3	57,3	46,1	10,3	56,4	41,9	12,6	54,5	37,1	15,5	52,7	32,6	18,6	51,2
	7	49,6	9,3	58,9	47,7	10,3	58,0	43,4	12,6	56,0	38,5	15,6	54,1	33,8	18,6	52,4
	8	51,3	9,3	60,6	49,3	10,3	59,6	44,9	12,7	57,5	39,9	15,6	55,4	*	*	*
	9	52,9	9,3	62,3	50,9	10,3	61,2	46,4	12,7	59,1	41,3	15,6	56,9	*	*	*
10	54,6	9,4	64,0	52,5	10,3	62,9	47,9	12,7	60,6	42,7	15,6	58,3	*	*	*	
5.2	5	59,3	12,3	71,6	56,9	13,5	70,4	51,6	16,4	68,0	45,6	20,1	65,7	40,0	23,9	63,9
	6	61,4	12,3	73,7	58,9	13,6	72,5	53,5	16,5	69,9	47,4	20,1	67,5	41,6	23,9	65,5
	7	63,5	12,4	75,8	61,0	13,6	74,5	55,4	16,5	71,9	49,1	20,2	69,3	43,2	24,0	67,1
	8	65,6	12,4	78,0	63,0	13,6	76,7	57,3	16,6	73,9	50,9	20,2	71,1	*	*	*
	9	67,8	12,4	80,2	65,1	13,6	78,8	59,2	16,6	75,8	52,7	20,3	72,9	*	*	*
10	70,0	12,4	82,4	67,3	13,7	80,9	61,2	16,6	77,9	54,5	20,3	74,8	*	*	*	
6.2	5	69,3	14,7	84,0	66,4	16,2	82,6	60,4	19,5	79,9	53,8	23,6	77,5	47,6	27,9	75,6
	6	71,8	14,8	86,5	68,8	16,2	85,0	62,6	19,6	82,1	55,8	23,7	79,5	49,4	28,0	77,5
	7	74,3	14,8	89,1	71,2	16,2	87,5	64,8	19,6	84,4	57,9	23,8	81,6	51,3	28,1	79,4
	8	76,8	14,8	91,7	73,7	16,3	90,0	67,0	19,7	86,7	59,9	23,9	83,7	*	*	*
	9	79,4	14,9	94,3	76,2	16,3	92,5	69,3	19,8	89,1	62,0	23,9	85,9	*	*	*
10	82,0	14,9	96,9	78,7	16,4	95,1	71,7	19,8	91,5	64,1	24,0	88,1	*	*	*	
7.2	5	79,4	17,1	96,5	76,1	18,7	94,8	69,3	22,5	91,8	62,1	27,1	89,3	55,4	31,9	87,3
	6	82,3	17,1	99,4	78,8	18,8	97,6	71,8	22,6	94,4	64,4	27,2	91,6	57,5	32,0	89,5
	7	85,2	17,2	102,4	81,6	18,8	100,5	74,4	22,7	97,0	66,7	27,3	94,1	59,6	32,1	91,7
	8	88,2	17,2	105,4	84,5	18,9	103,4	76,9	22,8	99,7	69,1	27,4	96,5	*	*	*
	9	91,2	17,3	108,5	87,3	19,0	106,3	79,6	22,8	102,4	71,4	27,5	98,9	*	*	*
10	94,3	17,3	111,6	90,3	19,0	109,3	82,3	22,9	105,2	73,9	27,6	101,5	*	*	*	
8.2	5	98,3	20,9	119,3	94,3	23,1	117,5	85,9	28,0	113,9	76,9	33,9	110,8	68,7	40,0	108,7
	6	101,8	21,0	122,8	97,7	23,2	120,9	89,0	28,1	117,1	79,7	34,0	113,7	71,2	40,2	111,4
	7	105,3	21,1	126,4	101,1	23,3	124,4	92,1	28,3	120,4	82,6	34,2	116,7	73,8	40,3	114,2
	8	108,9	21,2	130,1	104,5	23,4	127,9	95,3	28,4	123,7	85,5	34,3	119,8	*	*	*
	9	112,5	21,2	133,7	108,0	23,5	131,5	98,5	28,5	127,0	88,4	34,4	122,8	*	*	*
10	116,2	21,3	137,5	111,6	23,6	135,1	101,8	28,6	130,4	91,5	34,6	126,0	*	*	*	
9.2	5	110,5	23,3	133,8	105,8	25,6	131,4	96,5	30,9	127,3	86,5	37,2	123,7	77,3	43,9	121,1
	6	114,1	23,4	137,5	109,5	25,7	135,2	99,9	31,0	130,9	89,6	37,4	127,0	80,1	44,0	124,1
	7	118,0	23,5	141,5	113,3	25,8	139,1	103,4	31,1	134,5	92,8	37,5	130,3	83,0	44,2	127,2
	8	122,0	23,6	145,5	117,1	25,9	143,0	106,9	31,2	138,1	96,0	37,7	133,6	*	*	*
	9	126,0	23,7	149,6	121,0	26,0	147,0	110,5	31,3	141,8	99,2	37,8	137,0	*	*	*
10	130,0	23,8	153,8	124,9	26,1	151,0	114,1	31,5	145,6	102,6	38,0	140,5	*	*	*	
10.4	5	106,4	21,3	127,7	102,1	23,4	125,5	92,5	28,5	121,0	81,8	34,8	116,6	71,7	41,4	113,1
	6	110,1	21,4	131,5	105,7	23,5	129,2	95,9	28,6	124,5	84,9	34,9	119,8	74,5	41,5	116,0
	7	113,9	21,5	135,4	109,4	23,6	133,0	99,3	28,6	128,0	88,0	35,0	123,0	77,3	41,6	118,9
	8	117,8	21,5	139,3	113,1	23,6	136,7	102,7	28,7	131,5	91,2	35,1	126,2	*	*	*
	9	121,6	21,5	143,2	116,8	23,7	140,5	106,3	28,8	135,0	94,4	35,2	129,5	*	*	*
10	125,6	21,6	147,2	120,7	23,7	144,4	109,9	28,9	138,7	97,7	35,2	132,9	*	*	*	

Recovery side only

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

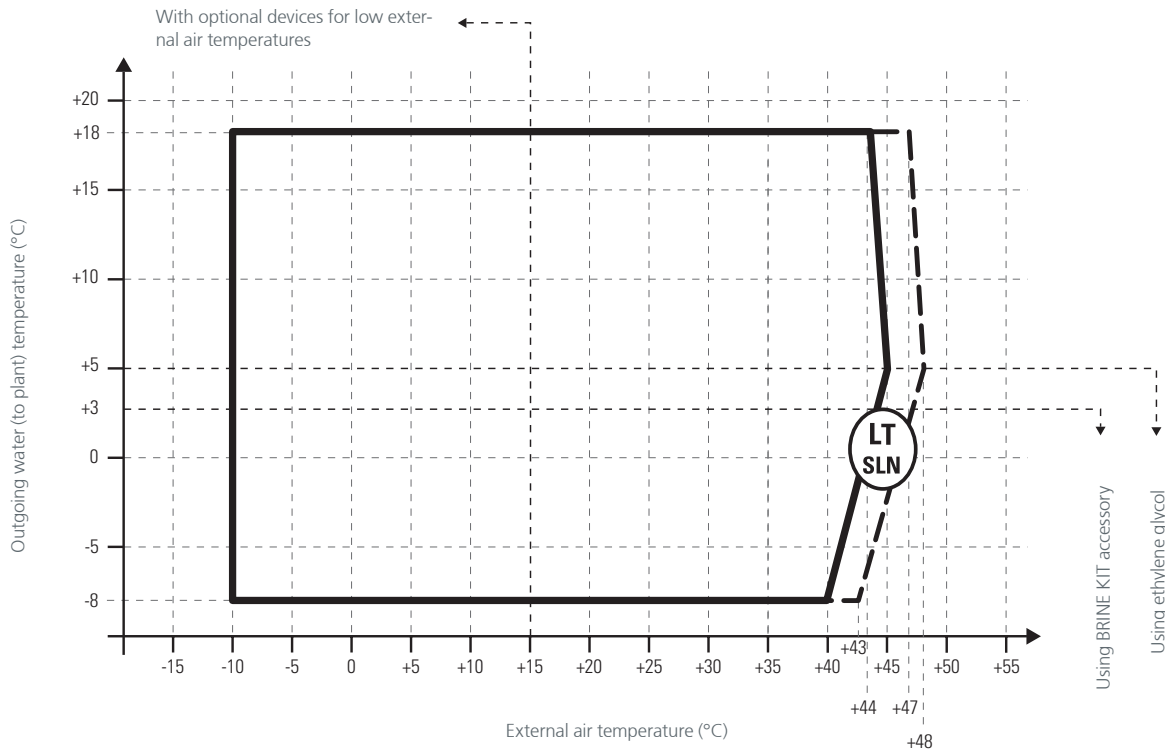
OMICRON S /HT, HT /LN, HT /SLN AND HT /LT – TOTAL RECOVERY CAPACITIES

Model	To	CONDENSER WATER TEMPERATURE [°C]														
	[°C]	25/30			30/35			40/45			50/55			60/65		
		Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr
11.2	5	123,6	25,5	149,1	118,7	27,9	146,6	108,3	33,5	141,9	97,2	40,4	137,6	86,9	47,5	134,4
	6	127,9	25,6	153,6	122,8	28,0	150,9	112,1	33,7	145,8	100,7	40,6	141,2	90,1	47,7	137,7
	7	132,3	25,8	158,0	127,0	28,2	155,2	116,0	33,8	149,8	104,2	40,7	144,9	93,3	47,9	141,1
	8	136,7	25,9	162,5	131,3	28,3	159,6	119,9	33,9	153,9	107,8	40,9	148,6	*	*	*
	9	141,1	26,0	167,1	135,6	28,4	164,0	123,9	34,1	157,9	111,4	41,0	152,4	*	*	*
11.4	5	117,6	24,6	142,2	112,8	27,0	139,9	102,4	32,8	135,2	90,6	40,1	130,7	79,5	47,7	127,2
	6	121,7	24,7	146,4	116,9	27,1	144,0	106,1	32,9	139,0	94,1	40,2	134,3	82,6	47,8	130,4
	7	125,9	24,7	150,7	121,0	27,2	148,1	109,9	33,0	142,9	97,5	40,3	137,8	85,7	48,0	133,7
	8	130,2	24,8	155,0	125,1	27,2	152,3	113,8	33,1	146,8	101,0	40,4	141,4	*	*	*
	9	134,5	24,8	159,3	129,2	27,3	156,5	117,6	33,2	150,8	104,6	40,5	145,1	*	*	*
12.4	5	140,3	29,4	163,7	134,4	32,3	166,7	122,1	39,1	161,2	108,8	47,3	156,1	96,2	55,9	152,1
	6	145,3	29,5	174,8	139,2	32,4	171,7	126,5	39,2	165,7	112,8	47,5	160,3	99,9	56,1	156,0
	7	150,4	29,6	180,0	144,1	32,5	176,7	131,1	39,3	170,4	116,9	47,6	164,5	103,6	56,3	159,8
	8	155,6	29,7	185,2	149,1	32,6	181,7	135,6	39,4	175,0	121,0	47,8	168,8	*	*	*
	9	160,8	29,8	190,5	154,1	32,7	186,8	140,2	39,5	179,7	125,3	47,9	173,2	*	*	*
14.4	5	160,4	34,3	194,8	153,6	37,7	191,3	139,8	45,3	185,1	125,2	54,6	179,8	111,4	64,2	175,6
	6	166,2	34,4	200,7	159,2	37,8	197,0	144,8	45,5	190,3	129,8	54,8	184,6	115,6	64,4	180,0
	7	172,1	34,6	206,7	164,8	37,9	202,7	150,0	45,7	195,6	134,4	55,0	189,4	119,8	64,7	184,5
	8	178,1	34,7	212,8	170,5	38,0	208,6	155,2	45,8	201,0	139,1	55,2	194,3	*	*	*
	9	184,2	34,8	218,9	176,3	38,2	214,5	160,5	46,0	206,4	143,9	55,4	199,3	*	*	*
16.4	5	176,9	38,0	214,9	169,5	41,8	211,3	154,4	50,5	204,9	138,4	61,0	199,4	123,5	71,9	195,4
	6	183,1	38,1	221,2	175,5	42,0	217,5	160,0	50,7	210,7	143,4	61,2	204,7	128,1	72,1	200,3
	7	189,5	38,2	227,7	181,7	42,1	223,8	165,6	50,9	216,5	148,6	61,4	210,0	132,8	72,4	205,2
	8	196,0	38,3	234,3	188,0	42,3	230,2	171,4	51,1	222,4	153,8	61,7	215,4	*	*	*
	9	202,6	38,5	241,0	194,3	42,4	236,7	177,1	51,3	228,4	159,1	61,9	221,0	*	*	*
17.4	5	196,7	41,9	238,6	188,7	46,3	234,9	171,8	56,1	227,8	153,9	67,7	221,6	137,4	80,0	217,4
	6	203,6	42,0	245,7	195,4	46,5	241,8	178,0	56,3	234,2	159,5	68,0	227,5	142,5	80,3	222,8
	7	210,7	42,2	252,8	202,2	46,6	248,8	184,3	56,5	240,7	165,2	68,3	233,5	147,6	80,7	228,3
	8	217,8	42,3	260,1	209,1	46,8	255,9	190,6	56,7	247,3	170,9	68,6	239,5	*	*	*
	9	225,0	42,5	267,5	216,0	47,0	263,0	197,0	56,9	254,0	176,8	68,9	245,7	*	*	*
19.4	5	221,5	46,4	267,9	212,1	51,0	263,1	193,8	61,5	255,3	174,2	74,2	248,4	156,0	87,5	243,4
	6	228,4	46,6	275,0	219,5	51,2	270,7	200,6	61,8	262,4	180,4	74,5	254,9	161,6	87,8	249,4
	7	236,1	46,8	282,8	226,9	51,4	278,3	207,5	62,0	269,5	186,7	74,8	261,5	167,3	88,2	255,5
	8	243,9	46,9	290,8	234,4	51,6	286,0	214,5	62,2	276,7	193,0	75,1	268,1	*	*	*
	9	251,8	47,1	298,9	242,0	51,8	293,8	221,5	62,5	284,0	199,5	75,4	274,8	*	*	*
21.4	5	246,2	51,2	297,4	235,8	56,0	291,8	215,6	67,2	282,8	193,9	81,0	274,9	173,6	95,3	268,9
	6	253,8	51,4	305,1	243,9	56,2	300,1	223,1	67,5	290,6	200,7	81,3	282,0	179,9	95,6	275,5
	7	262,2	51,6	313,8	252,1	56,4	308,5	230,7	67,8	298,5	207,7	81,6	289,3	186,2	96,0	282,2
	8	270,8	51,8	322,6	260,4	56,7	317,1	238,4	68,0	306,4	214,7	81,9	296,6	*	*	*
	9	279,5	52,0	331,5	268,8	56,9	325,7	246,1	68,3	314,4	221,8	82,2	303,9	*	*	*
10	288,2	52,2	340,5	277,3	57,1	334,4	254,0	68,5	322,5	229,1	82,5	311,5	*	*	*	

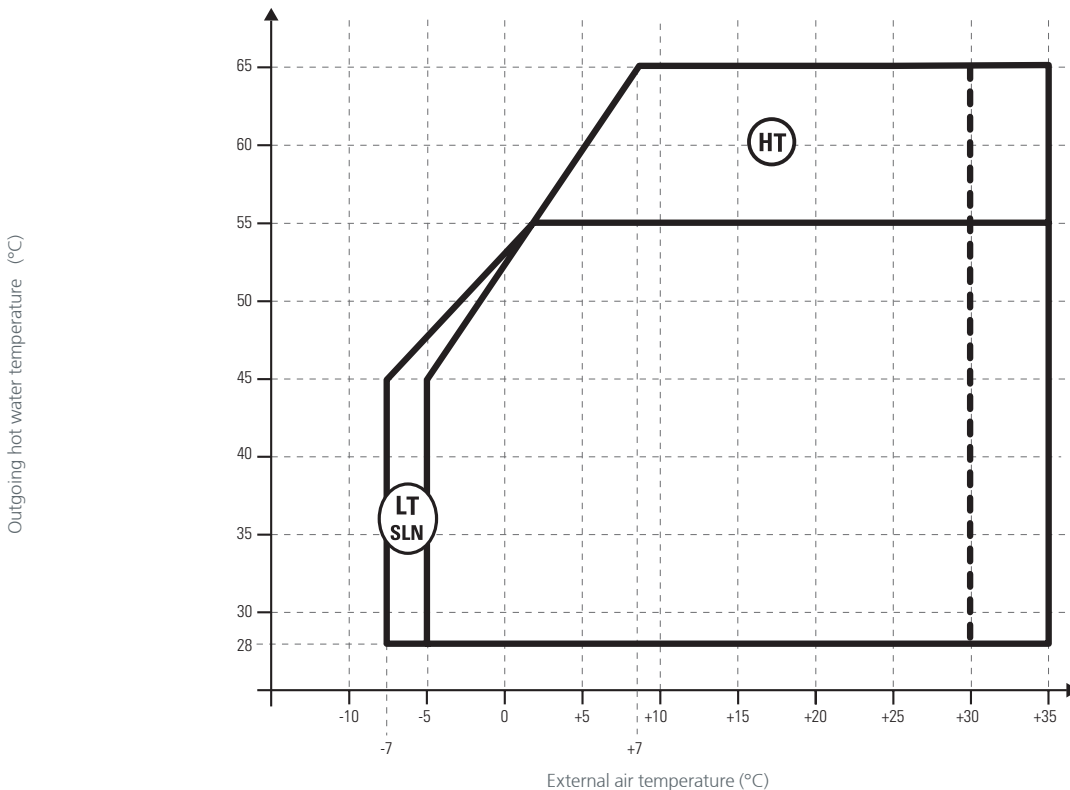
Recovery side only

Pt: heating capacity [kW]
 Pe: electrical power absorbed by the compressors [kW]
 Ta: ambient temperature [°C]
 RH: evaporator inflow air relative humidity [%]

OPERATING LIMITS CHILLER - OMICRON S



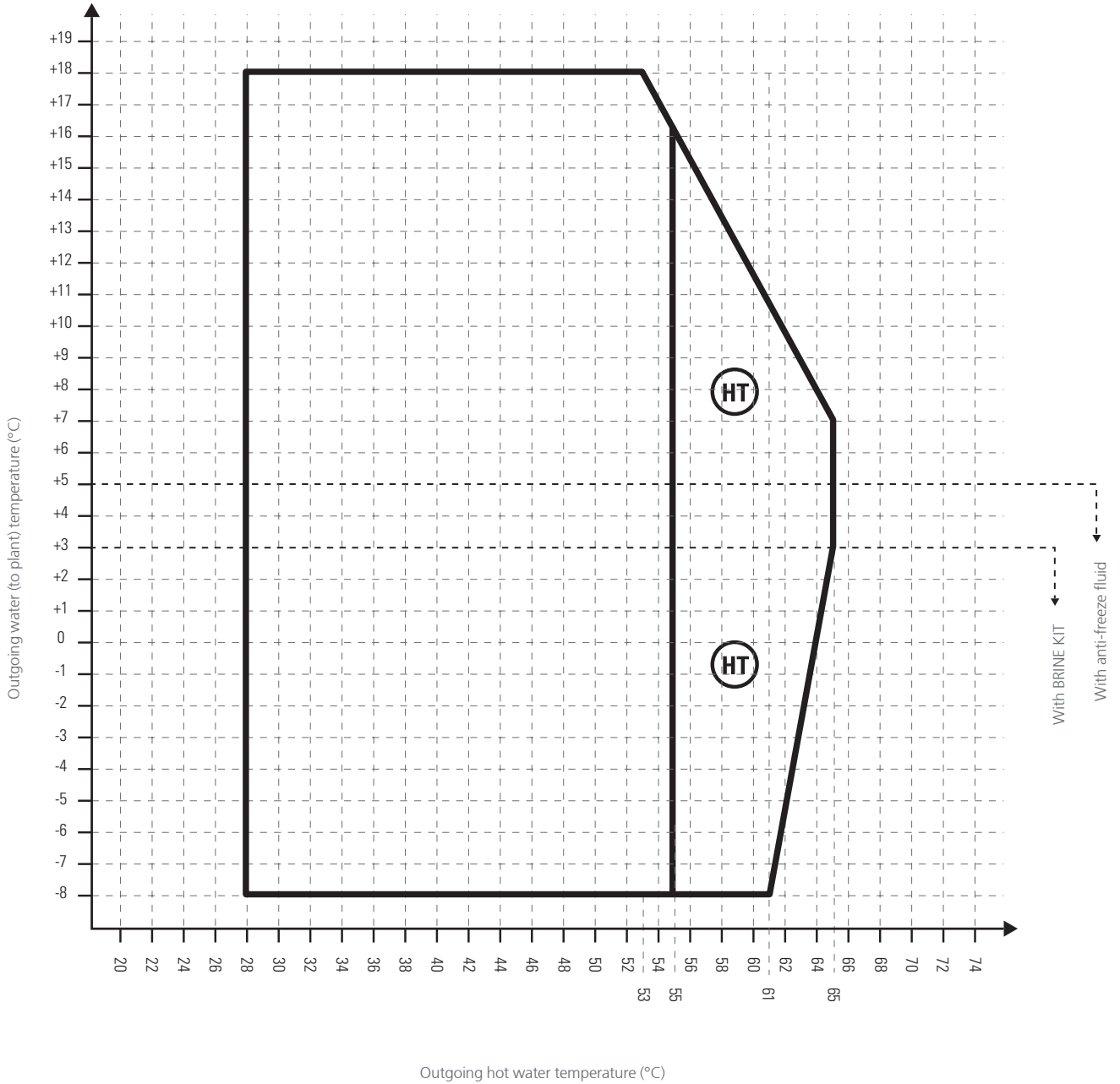
OPERATING LIMITS HEAT PUMP OPERATION (FOR 4T / ACS 2T UNIT, 2T except HT extension)



The temperature limit for the hot water produced refers to a perfectly efficient machine and system under nominal conditions. As in practice this is influenced by how clean the exchangers are, the flow rate and mass of water in the system, as well as by manoeuvres carried out by utilities and other factors that cannot be controlled, in order to ensure service continuity it is suggested not to set the value to produce hot water at temperatures exceeding 63°C for HT unit models and 53°C for the other ones, except for short periods of time.

THE THERMAL GRADIENT OF THE WATER FOR ALL VERSIONS MUST BE BETWEEN: min:4 °C max: 7°C

OPERATING LIMITS RECOVERY - OMICRON S



The temperature limit for the hot water produced refers to a perfectly efficient machine and system under nominal conditions. As in practice this is influenced by how clean the exchangers are, the flow rate and mass of water in the system, as well as by manoeuvres carried out by utilities and other factors that cannot be controlled, in order to ensure service continuity it is suggested not to set the value to product hot water at temperatures exceeding 63°C for HT unit models and 53°C for the other ones, except for short periods of time.

THE THERMAL GRADIENT OF THE WATER FOR ALL VERSIONS MUST BE BETWEEN: min:4°C max: 7°C

NOISE LEVELS- OMICRON S

Model	OCTAVE BAND [dB]																Total [dB(A)]	
	63 Hz		125 Hz		250 Hz		500 Hz		1000 Hz		2000 Hz		4000 Hz		8000 Hz		Lw	Lp
	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp		
3.2	96	64	87	55	81	49	80	48	79	47	73	41	70	38	61	29	83	51
4.2	97	65	89	57	82	50	81	49	80	48	74	42	71	39	62	30	84	52
5.2	98	66	89	57	83	51	82	50	81	49	75	43	72	40	63	31	85	53
6.2	100	68	91	59	85	53	83	51	82	50	77	45	73	41	64	32	87	55
7.2	100	68	91	59	85	53	83	51	82	50	77	45	73	41	64	32	87	55
8.2	100	68	91	59	85	53	84	52	82	50	77	45	74	42	65	33	87	55
9.2	101	69	92	60	86	54	84	52	83	51	78	46	75	43	65	33	88	56
11.2	105	73	96	64	90	58	88	56	87	55	82	50	78	46	69	37	91	59
10.4	104	72	95	63	89	57	87	55	86	54	81	49	77	45	68	36	90	58
11.4	101	69	92	60	86	54	85	53	84	52	78	46	75	43	86	54	90	58
12.4	104	72	95	63	89	57	87	55	86	54	81	49	77	45	68	36	90	58
14.4	105	73	96	64	90	58	88	56	87	55	82	50	78	46	69	37	91	59
16.4	105	73	96	64	90	58	89	57	88	56	82	50	79	47	70	38	92	60
17.4	106	74	97	65	91	59	90	58	89	57	83	51	80	48	71	39	93	61
19.4	106	74	97	65	91	59	90	58	89	57	83	51	80	48	71	39	93	61
21.4	107	75	98	66	92	60	91	59	90	58	84	52	81	49	72	40	94	62

NOISE LEVELS- OMICRON S /LN

Model	OCTAVE BAND [dB]																Total [dB(A)]	
	63 Hz		125 Hz		250 Hz		500 Hz		1000 Hz		2000 Hz		4000 Hz		8000 Hz		Lw	Lp
	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp		
3.2	93	61	85	53	78	46	77	45	76	44	70	38	67	35	58	26	80	48
4.2	94	62	85	53	79	47	77	45	76	44	71	39	67	35	58	26	81	49
5.2	95	63	88	56	81	49	80	48	79	47	73	41	70	38	60	28	83	51
6.2	97	65	89	57	82	50	81	49	80	48	74	42	71	39	62	30	84	52
7.2	98	66	89	57	83	51	81	49	80	48	75	43	71	39	62	30	84	52
8.2	98	66	89	57	83	51	82	50	81	49	75	43	72	40	63	31	85	53
9.2	99	67	90	58	84	52	83	51	82	50	77	45	73	41	64	32	86	54
11.2	102	70	93	61	87	55	85	53	84	52	79	47	75	43	66	34	89	57
10.4	100	68	91	59	85	53	84	52	83	51	77	45	74	42	65	33	87	55
11.4	100	68	92	60	85	53	84	52	83	51	77	45	74	42	65	33	87	55
12.4	101	69	92	60	86	54	85	53	83	51	78	46	74	42	65	33	88	56
14.4	102	70	93	61	87	55	85	53	84	52	79	47	75	43	66	34	89	57
16.4	103	71	94	62	88	56	86	54	85	53	80	48	76	44	67	35	89	57
17.4	104	72	95	63	89	57	87	55	86	54	81	49	77	45	68	36	90	58
19.4	105	73	96	64	90	58	88	56	87	55	82	50	78	46	69	37	91	59
21.4	104	72	95	63	89	57	88	56	87	55	81	49	78	46	69	37	91	59

Lw:sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

Lp:sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

NOISE LEVELS- OMICRON S /SLN

Model	OCTAVE BAND [dB]																Total [dB(A)]	
	63 Hz		125 Hz		250 Hz		500 Hz		1000 Hz		2000 Hz		4000 Hz		8000 Hz		Lw	Lp
	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp		
3.2	91	59	82	50	76	44	75	43	74	42	68	36	65	33	56	24	78	46
4.2	92	60	83	51	77	45	75	43	74	42	69	37	66	34	56	24	79	47
5.2	95	63	86	54	79	47	77	45	77	45	72	40	69	37	59	27	81	49
6.2	95	63	86	54	80	48	78	46	77	45	72	40	69	37	59	27	82	50
7.2	95	63	86	54	80	48	79	47	78	46	72	40	69	37	60	28	82	50
8.2	95	63	88	56	81	49	80	48	79	47	73	41	70	38	60	28	83	51
9.2	97	65	89	57	82	50	81	49	80	48	74	42	71	39	62	30	84	52
11.2	100	68	91	59	85	53	84	52	83	51	77	45	74	42	65	33	87	55
10.4	98	66	89	57	83	51	82	50	81	49	75	43	72	40	63	31	85	53
11.4	98	66	89	57	83	51	82	50	81	49	75	43	72	40	63	31	85	53
12.4	99	67	92	60	84	52	83	51	82	50	76	44	74	42	64	32	86	54
14.4	100	68	91	59	85	53	84	52	83	51	77	45	74	42	65	33	87	55
16.4	100	68	91	59	85	53	84	52	83	51	77	45	74	42	65	33	87	55
17.4	101	69	92	60	86	54	85	53	83	51	78	46	74	42	65	33	88	56
19.4	102	70	93	61	87	55	85	53	84	52	79	47	75	43	66	34	89	57
21.4	102	70	93	61	87	55	85	53	85	53	79	47	75	43	66	34	89	57

NOISE LEVELS- OMICRON S /LT

Model	OCTAVE BAND [dB]																Total [dB(A)]	
	63 Hz		125 Hz		250 Hz		500 Hz		1000 Hz		2000 Hz		4000 Hz		8000 Hz		Lw	Lp
	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp		
3.2	95	63	88	56	81	49	80	48	79	47	73	41	70	38	60	28	83	51
4.2	97	65	89	57	82	50	81	49	80	48	74	42	71	39	62	30	84	52
5.2	100	68	91	59	85	53	84	52	83	51	77	45	74	42	65	33	87	55
6.2	100	68	91	59	85	53	84	52	83	51	77	45	74	42	65	33	87	55
7.2	100	68	91	59	85	53	84	52	83	51	77	45	74	42	65	33	87	55
8.2	100	68	92	60	85	53	84	52	83	51	77	45	74	42	65	33	87	55
9.2	99	67	90	58	84	52	83	51	82	50	77	45	73	41	64	32	86	54
11.2	102	70	93	61	87	55	85	53	84	52	79	47	75	43	66	34	89	57
10.4	101	69	92	60	86	54	85	53	83	51	78	46	74	42	65	33	88	56
11.4	105	73	96	64	90	58	88	56	87	55	82	50	78	46	69	37	91	59
12.4	105	73	96	64	90	58	88	56	87	55	82	50	78	46	69	37	91	59
14.4	105	73	96	64	90	58	89	57	88	56	82	50	79	47	70	38	92	60
16.4	105	73	96	64	90	58	89	57	88	56	82	50	79	47	70	38	92	60
17.4	107	75	99	67	92	60	91	59	91	59	85	53	82	50	72	40	95	63
19.4	107	75	99	67	93	61	92	60	91	59	85	53	82	50	72	40	95	63
21.4	108	76	100	68	94	62	92	60	92	60	87	55	83	51	72	40	96	64

Lw:sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

Lp:sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744

NOISE LEVELS- OMICRON S

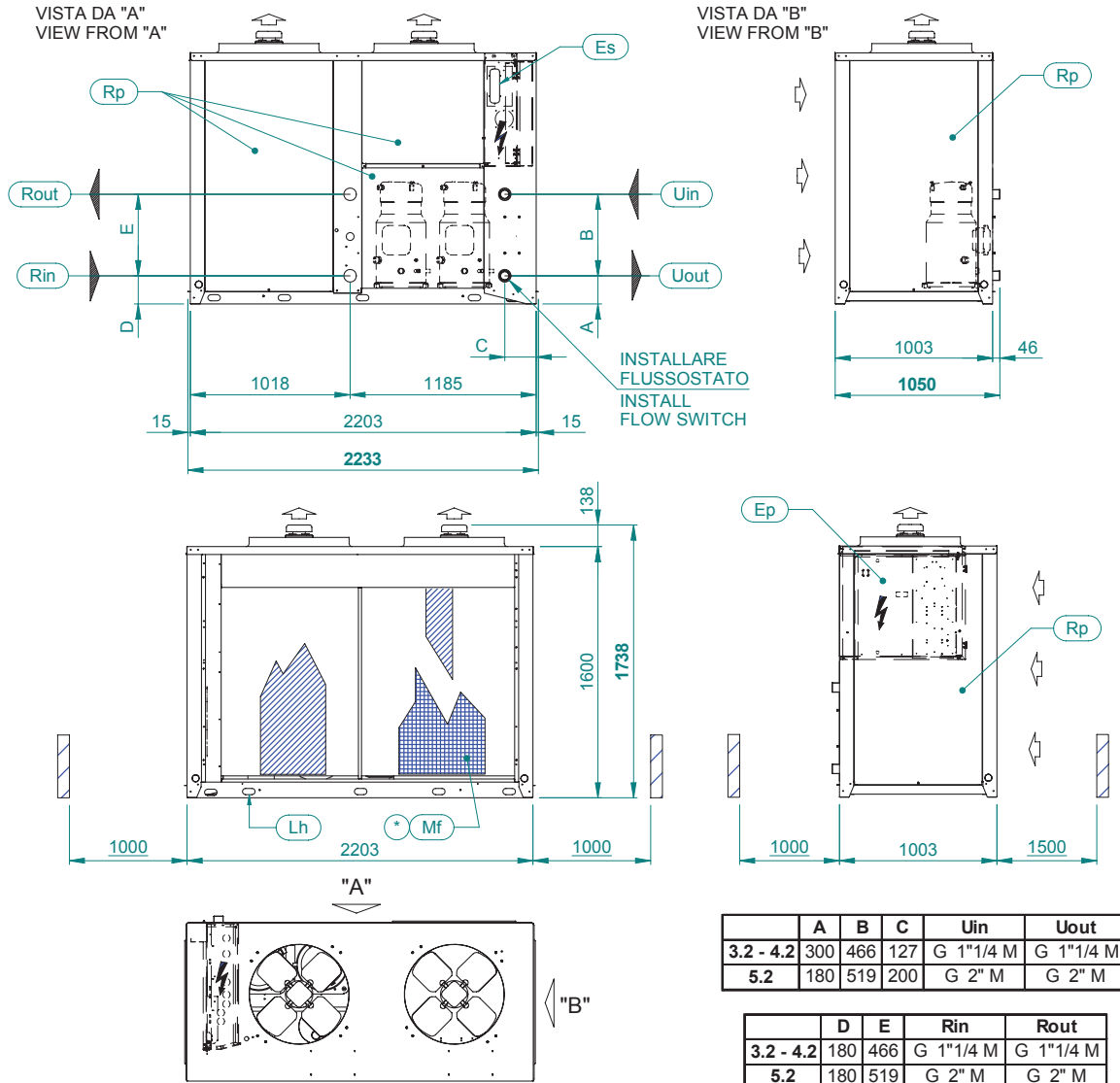
Model	OCTAVE BAND [dB]																Total [dB(A)]	
	63 Hz		125 Hz		250 Hz		500 Hz		1000 Hz		2000 Hz		4000 Hz		8000 Hz		Lw	Lp
	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp		
3.2	92	60	85	53	78	46	77	45	76	44	70	38	67	35	57	25	80	48
4.2	94	62	85	53	79	47	77	45	76	44	71	39	67	35	58	26	81	49
5.2	97	65	90	58	83	51	82	50	81	49	75	43	72	40	62	30	85	53
6.2	98	66	89	57	83	51	81	49	80	48	75	43	71	39	62	30	84	52
7.2	98	66	89	57	83	51	81	49	80	48	75	43	71	39	62	30	85	53
8.2	98	66	90	58	84	52	82	50	81	49	76	44	72	40	63	31	85	53
9.2	97	65	88	56	82	50	83	51	81	49	76	44	72	40	64	32	85	53
11.2	99	67	90	58	84	52	83	51	82	50	76	44	73	41	64	32	86	54
10.4	98	66	88	56	83	51	82	50	79	47	75	43	70	38	61	29	84	52
11.4	104	72	95	63	89	57	87	55	86	54	81	49	77	45	48	16	91	59
12.4	102	70	92	60	87	55	86	54	84	52	79	47	75	43	66	34	89	57
14.4	103	71	94	62	88	56	86	54	85	53	80	48	76	44	67	35	89	57
16.4	103	71	94	62	88	56	86	54	85	53	80	48	76	44	67	35	89	57
17.4	105	73	97	65	90	58	88	56	88	56	83	51	79	47	69	37	92	60
19.4	105	73	97	65	91	59	90	58	89	57	83	51	80	48	70	38	94	62
21.4	105	73	97	65	91	59	89	57	89	57	84	52	80	48	69	37	93	61

Lw:sound power levels measured in free field calculated according to standard ISO 3744; under nominal operating conditions.

Lp:sound pressure levels measured at 10 meters from the unit in free field under nominal operating conditions, according to ISO 3744.

DIMENSIONAL DRAWING

OMICRON S 3.2-5.2 , OMICRON S /SLN - OMICRON S /LT 3.2-4.2



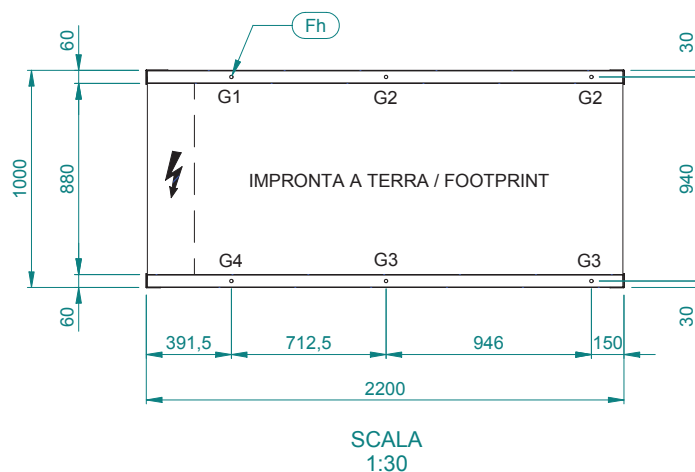
Ep	QUADRO ELETTRICO ELECTRICAL PANEL		
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES

* OPTIONAL

A4B981-B

DIMENSIONAL DRAWING

OMICRON S 3.2-5.2 , OMICRON S /SLN - OMICRON S /LT 3.2-4.2

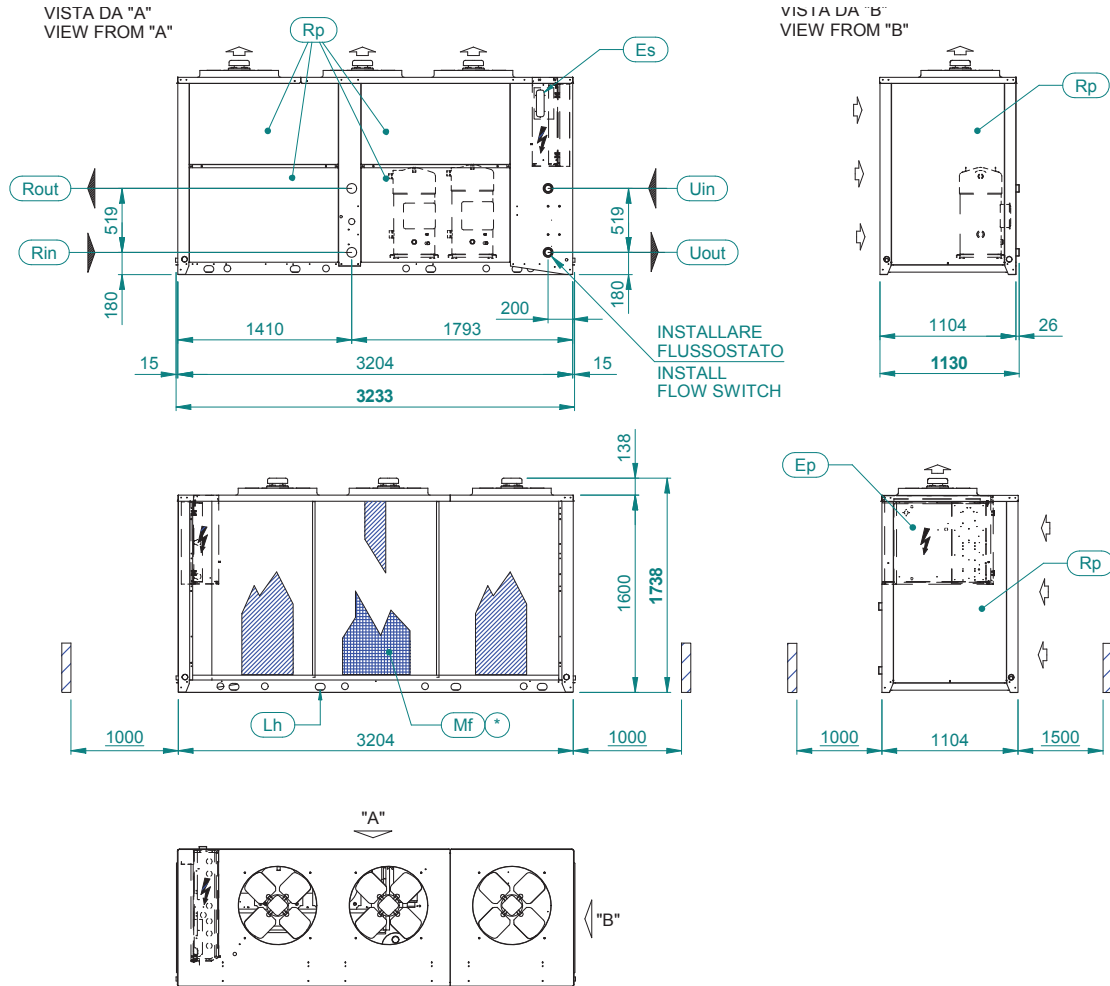


MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
OMICRON S EVO 3.2	661	668	243	64	51	195
OMICRON S EVO 4.2	699	708	266	67	52	204
OMICRON S EVO 5.2	751	763	296	74	53	213
OMICRON S EVO SLN 3.2	661	668	243	64	51	195
OMICRON S EVO SLN 4.2	699	708	266	67	52	204
OMICRON S EVO LT 3.2	661	668	243	64	51	195
OMICRON S EVO LT 4.2	699	708	266	67	52	204

Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

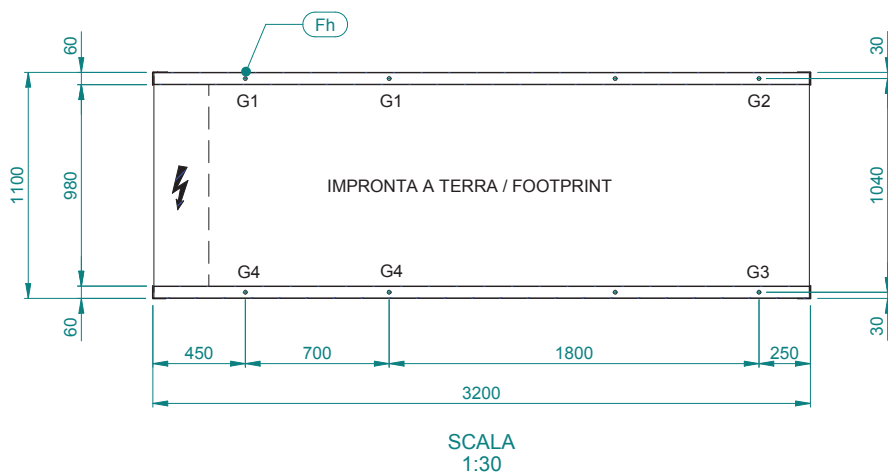
OMICRON S 6.2-9.2 , OMICRON S /SLN - OMICRON S /LT 5.2-7.2



Ep	QUADRO ELETTRICO ELECTRICAL PANEL		
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET G 2" M
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET G 2" M
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET G 2" M
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET G 2" M
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES
		*	OPTIONAL

DIMENSIONAL DRAWING

OMICRON S 6.2-9.2 , OMICRON S /SLN - OMICRON S /LT 5.2-7.2

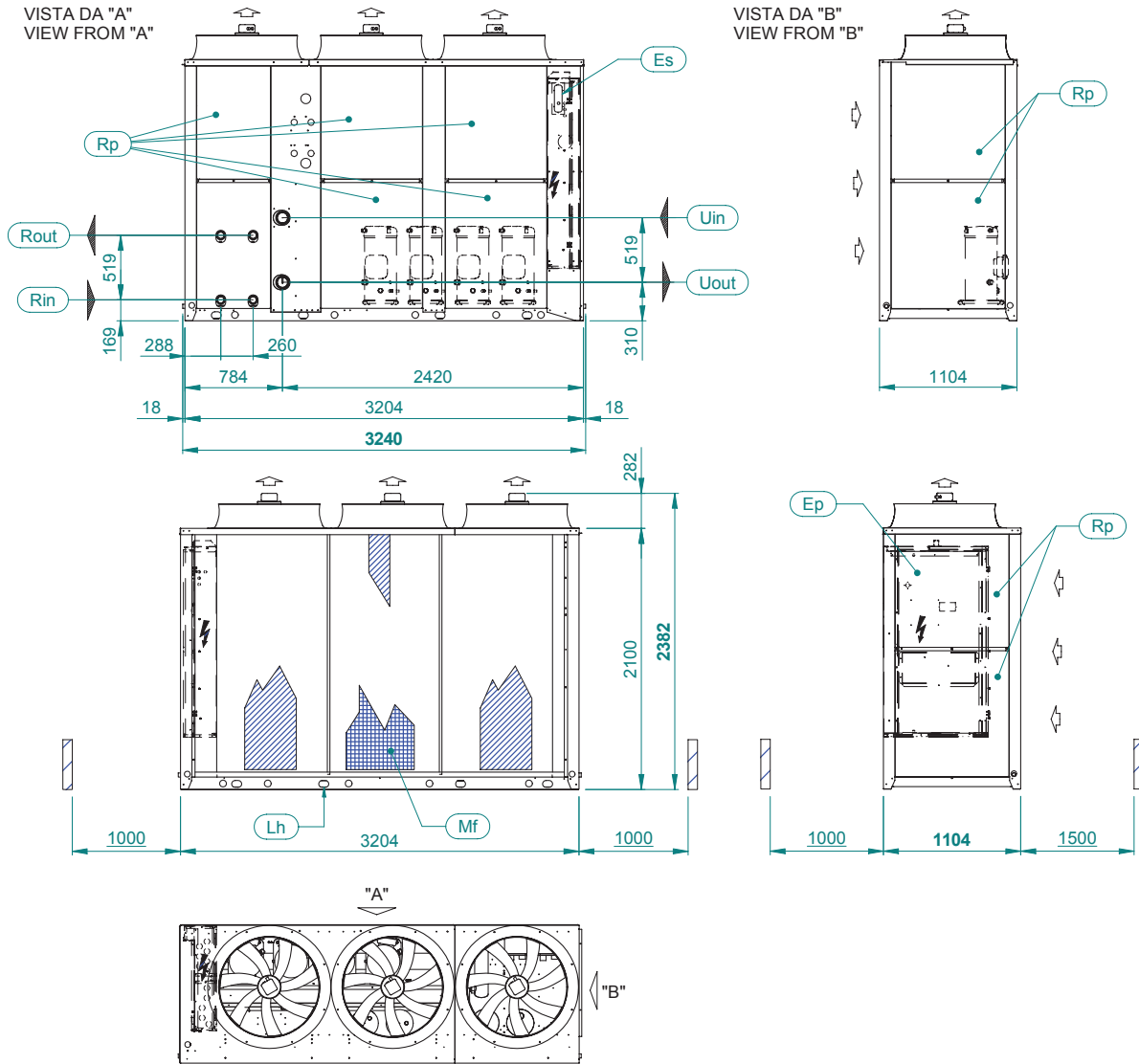


MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
OMICRON S EVO 4T 6.2	1060	1073	237	127	100	186
OMICRON S EVO 4T 7.2	1143	1158	262	141	105	194
OMICRON S EVO 4T 8.2	1231	1251	289	152	109	206
OMICRON S EVO 4T 9.2	1249	1272	297	154	108	208

Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G.	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S 10.4-11.4 , OMICRON S /SLN - OMICRON S /LT 10.4-11.4

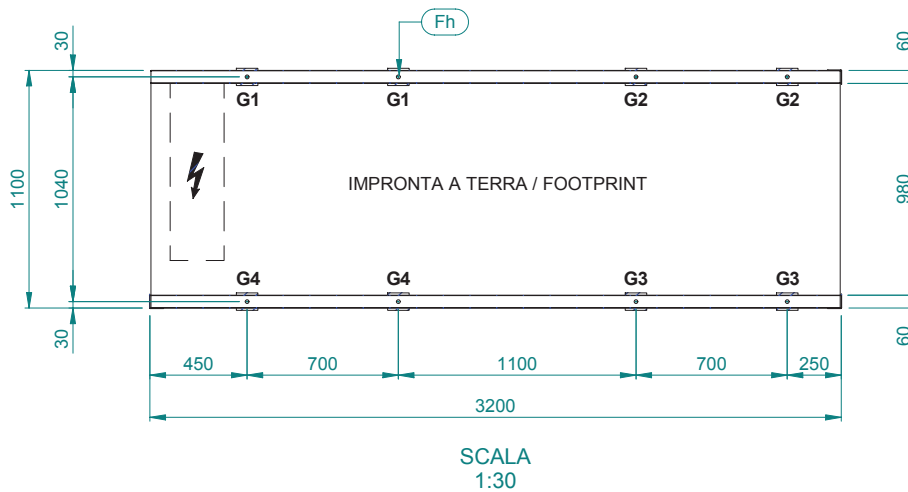


Ep	QUADRO ELETTRICO ELECTRICAL PANEL			
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	G 2" M
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 3" F
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 3" F
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES	* OPTIONAL

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DIMENSIONAL DRAWING

OMICRON S 10.4-11.4 , OMICRON S /SLN - OMICRON S /LT 10.4-11.4

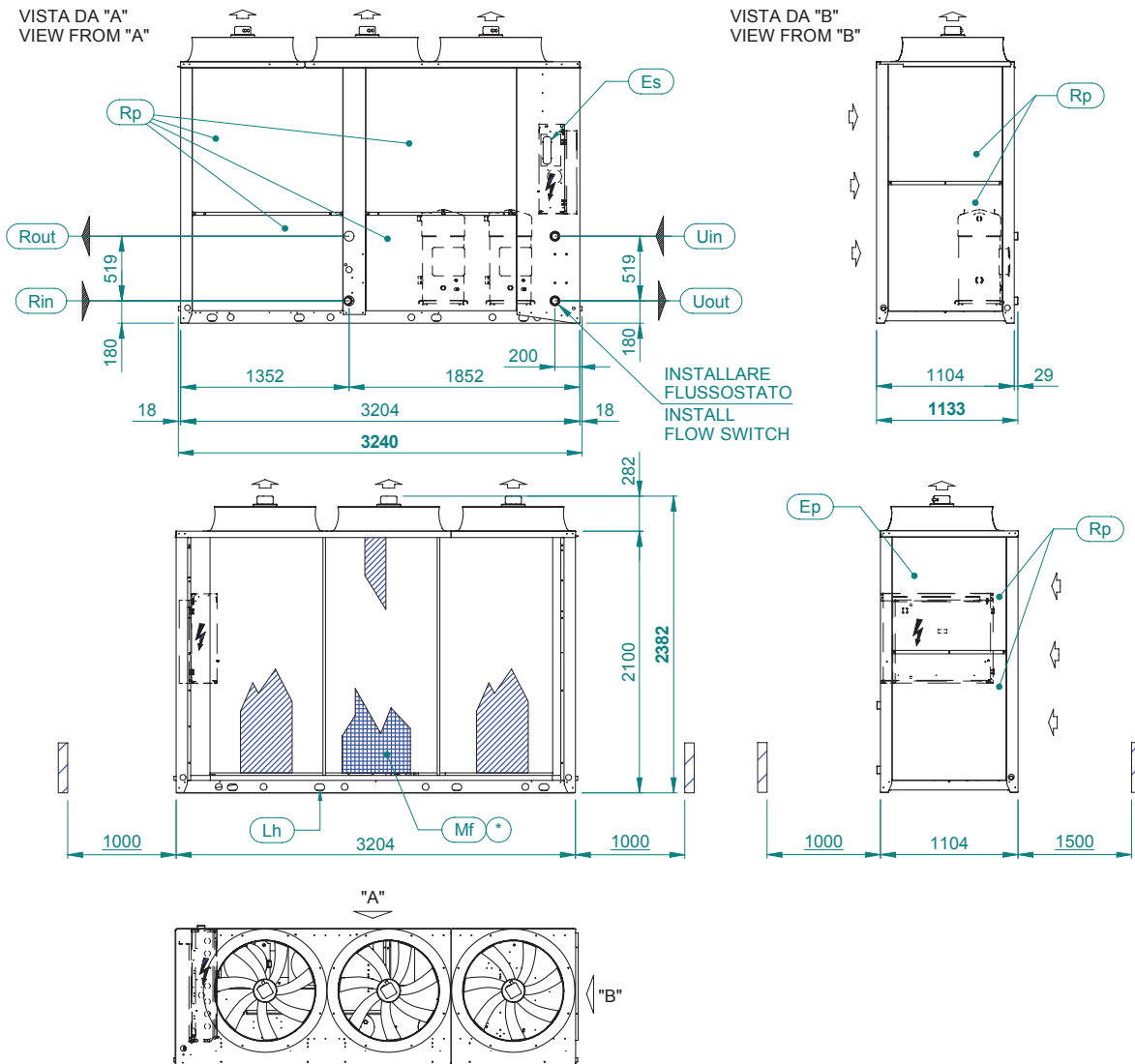


MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
OMICRON S EVO 10.4	1484	1504	254	161	131	206
OMICRON S EVO 11.4	1532	1556	266	169	133	210
OMICRON S EVO SLN 10.4	1484	1504	254	161	131	206
OMICRON S EVO SLN 11.4	1532	1556	266	169	133	210
OMICRON S EVO LT 10.4	1484	1504	254	161	131	206
OMICRON S EVO LT 11.4	1532	1556	266	169	133	210

Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S 11.2 , OMICRON S /SLN - OMICRON S /LT 8.2-11.2

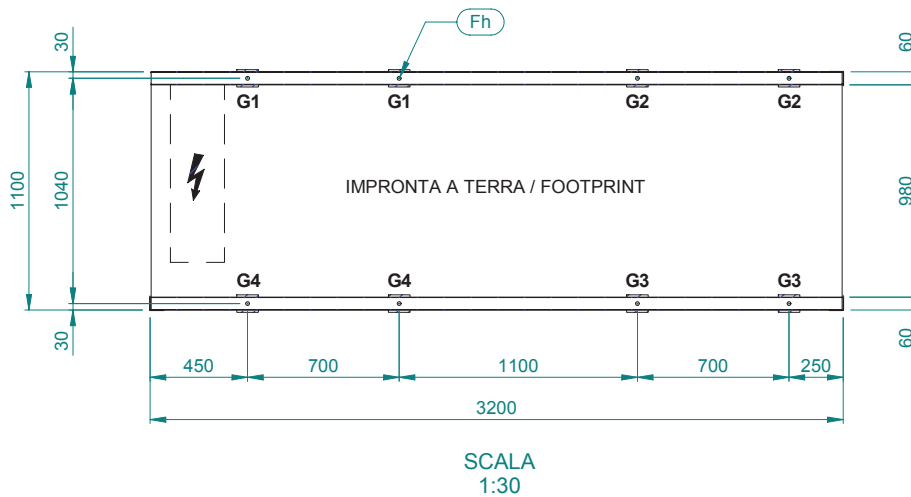


Ep	QUADRO ELETTRICO ELECTRICAL PANEL		
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET G 2" M
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET G 2" M
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET G 2" M
↕	FLUSSO ARIA CONDENSANZA CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET G 2" M
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL	↖	SPAZI DI INSTALLAZIONE CLEARANCES
		*	OPTIONAL

A4B995-B

DIMENSIONAL DRAWING

OMICRON S 11.2 , OMICRON S /SLN - OMICRON S /LT 8.2-11.2

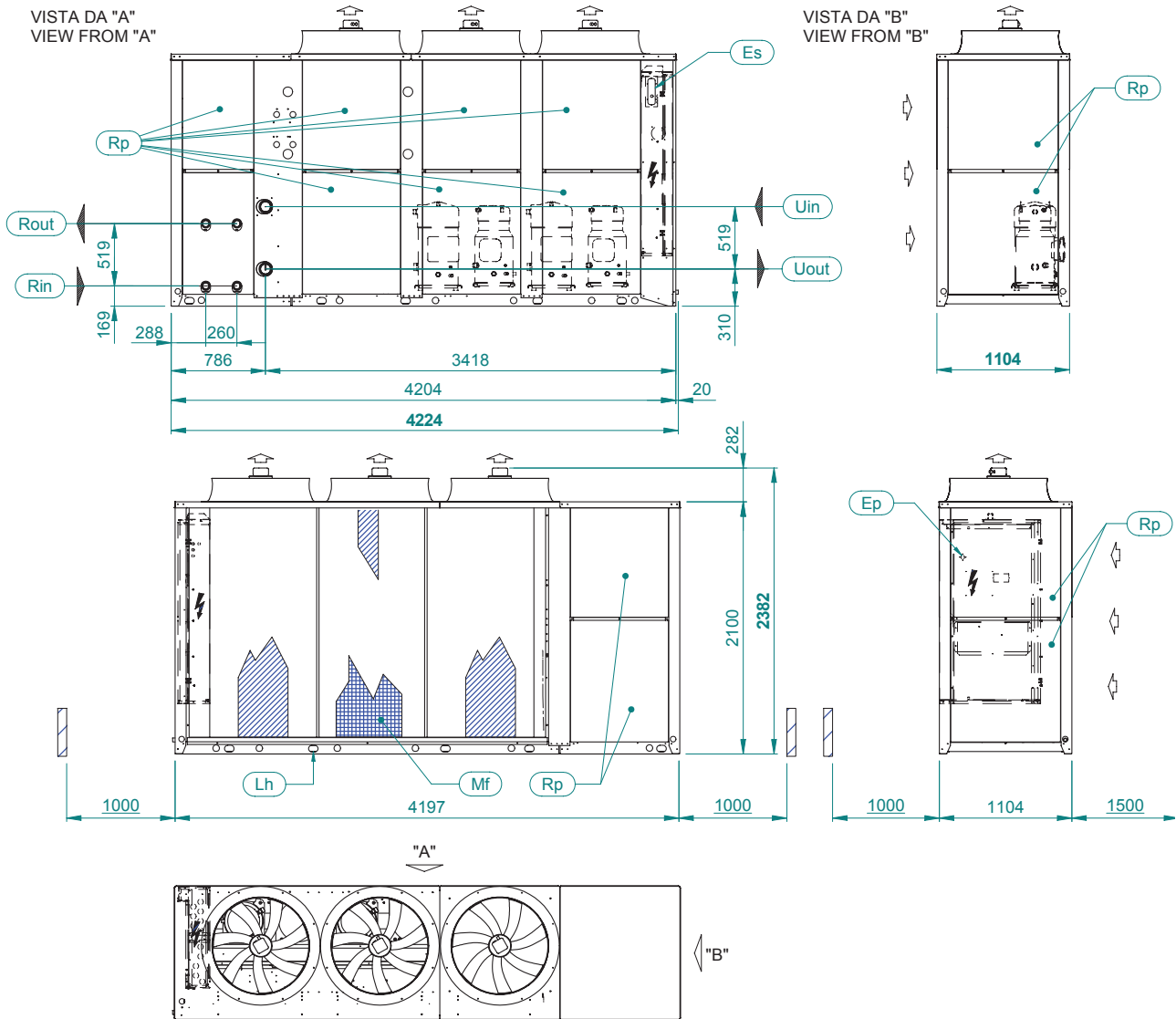


MODELLO	PESO(Kg)	PESO IN FUNZIONE(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
MODEL	WEIGHT(Kg)	OPERATING WEIGHT(Kg)				
OMICRON S EVO 11.2	1426	1452	304	91	76	255
OMICRON S EVO SLN 8.2	1388	1414	293	90	74	235
OMICRON S EVO SLN 9.2	1409	1435	298	90	75	245
OMICRON S EVO SLN 11.2	1426	1452	304	91	76	255
OMICRON S EVO LT 8.2	1388	1414	293	90	74	235
OMICRON S EVO LT 9.2	1409	1435	298	90	75	245
OMICRON S EVO LT 11.2	1426	1452	304	91	76	255

Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G.	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S 12.4-14.4

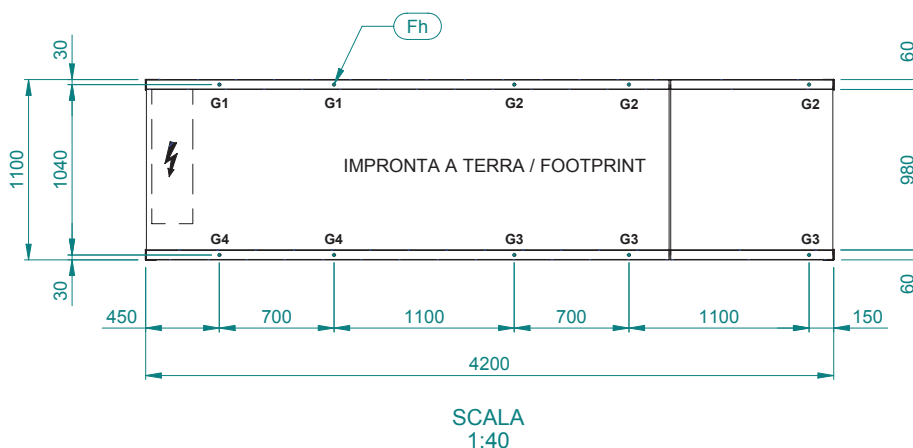


Ep	QUADRO ELETTRICO ELECTRICAL PANEL		
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET G 2" M
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET G 2" M
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET G 3" F
↕	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET G 3" F
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES
		*	OPTIONAL

A4C007-B

DIMENSIONAL DRAWING

OMICRON S 12.4-14.4



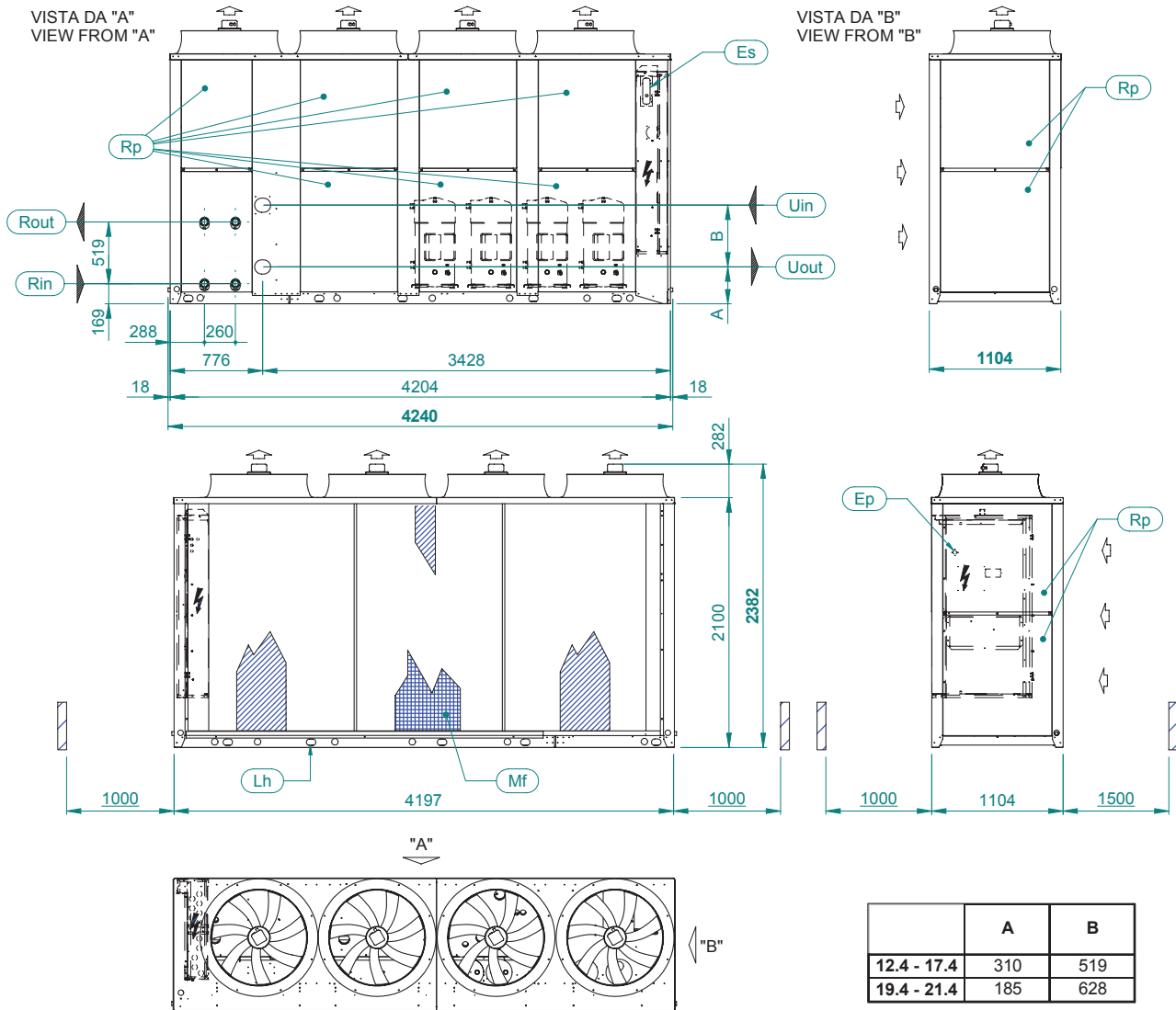
MODELLO	PESO(Kg)	PESO IN FUNZIONE(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
MODEL	WEIGHT(Kg)	OPERATING WEIGHT(Kg)				
OMICRON S EVO 12.4	1847	1873	302	158	117	222
OMICRON S EVO 14.4	2016	2046	349	170	118	242

Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

A4C007-B

DIMENSIONAL DRAWING

OMICRON S 16.4-21.4 , OMICRON S /SLN - OMICRON S /LT 12.4-16.4

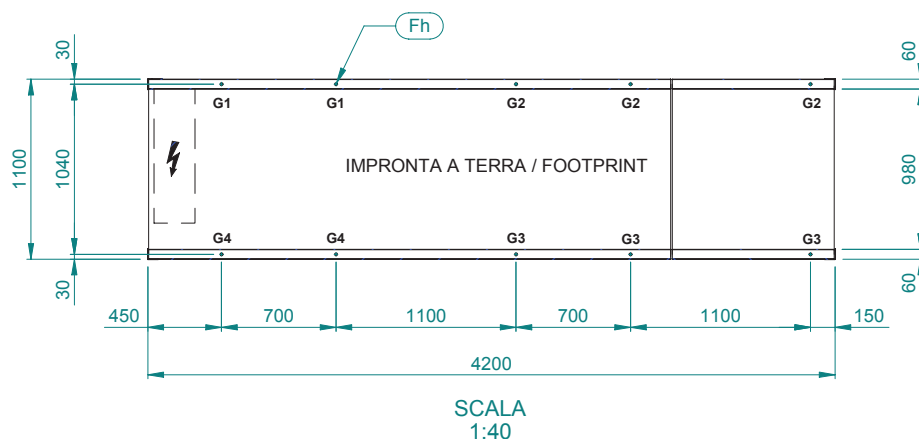


Ep	QUADRO ELETTRICO ELECTRICAL PANEL		
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET G 2" M
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET G 2" M
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET G 3" F
↕	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET G 3" F
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL	⏏	SPAZI DI INSTALLAZIONE CLEARANCES * OPTIONAL

A4C009-B

DIMENSIONAL DRAWING

OMICRON S 16.4-21.4 , OMICRON S /SLN - OMICRON S /LT 12.4-16.4

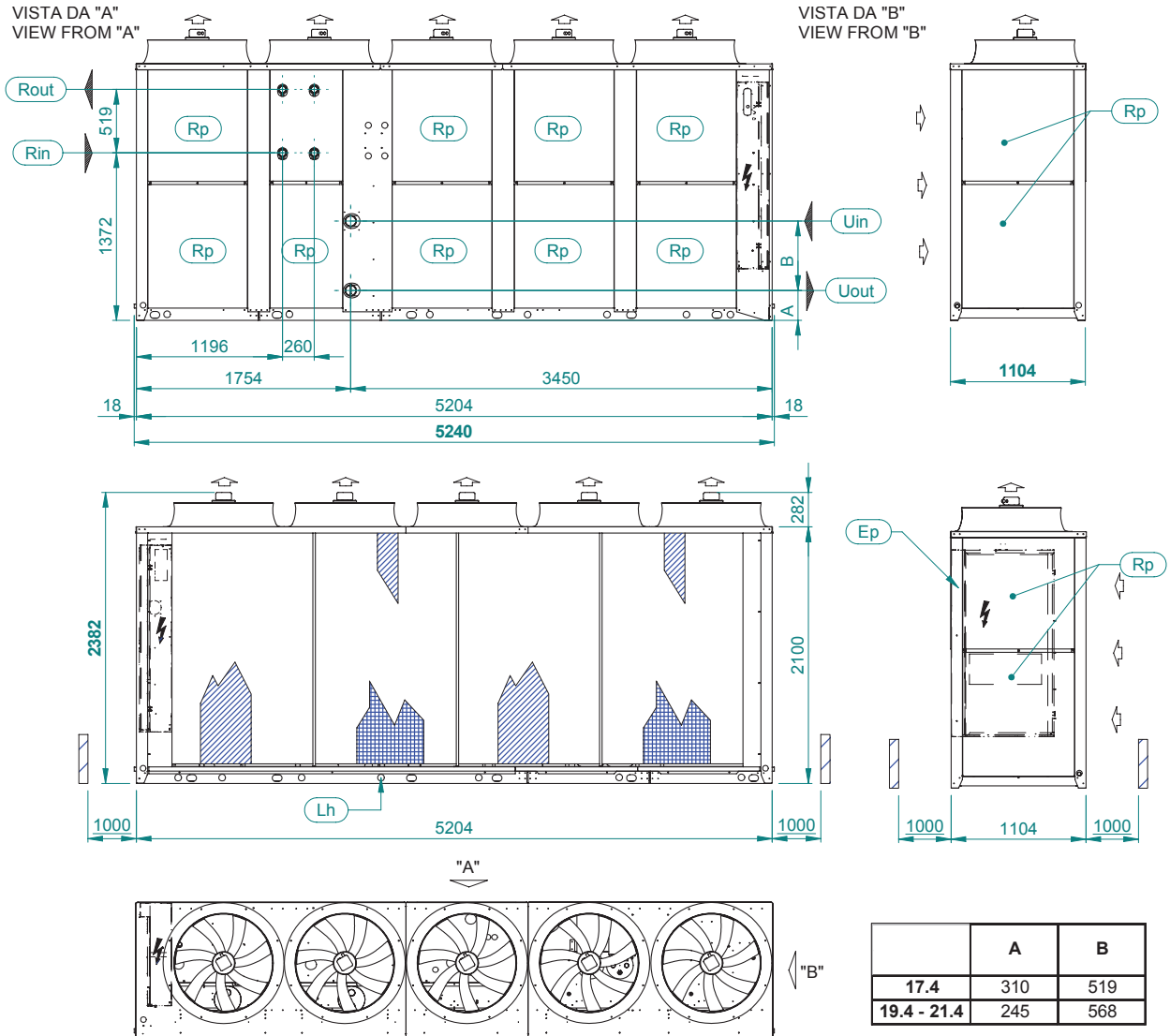


MODELLO	PESO(Kg)	PESO IN FUNZIONE(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
MODEL	WEIGHT(Kg)	OPERATING WEIGHT(Kg)				
OMICRON S EVO 16.4	2184	2220	356	195	139	253
OMICRON S EVO 17.4	2256	2296	371	204	142	258
OMICRON S EVO 19.4	2314	2360	379	213	147	261
OMICRON S EVO 21.4	2352	2403	384	221	150	261
OMICRON S EVO SLN 12.4	1877	1913	320	185	126	243
OMICRON S EVO SLN 14.4	2051	2065	335	190	132	248
OMICRON S EVO SLN 16.4	2184	2220	356	195	139	253
OMICRON S EVO LT 12.4	1877	1913	320	185	126	243
OMICRON S EVO LT 14.4	2051	2065	335	190	132	248
OMICRON S EVO LT 16.4	2184	2220	356	195	139	253

Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S SLN 17.4-21.4 , OMICRON S LT 17.4-21.4

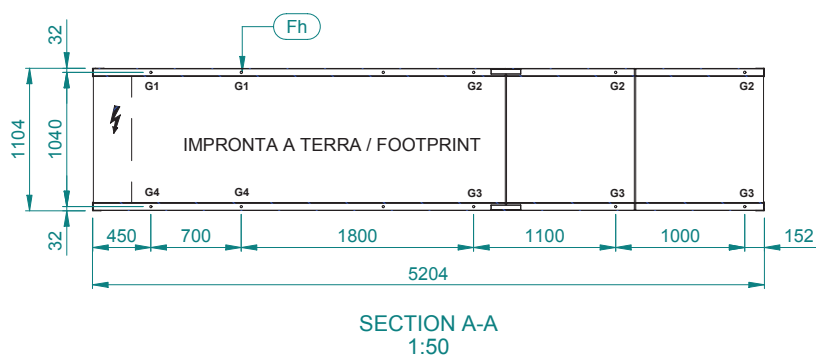


Ep	QUADRO ELETTRICO ELECTRICAL PANEL	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	G 2" M
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 3" F
↕	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 3" F
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES	* OPTIONAL

A4C593-A

DIMENSIONAL DRAWING

OMICRON S SLN 17.4-21.4 , OMICRON S LT 17.4-21.4

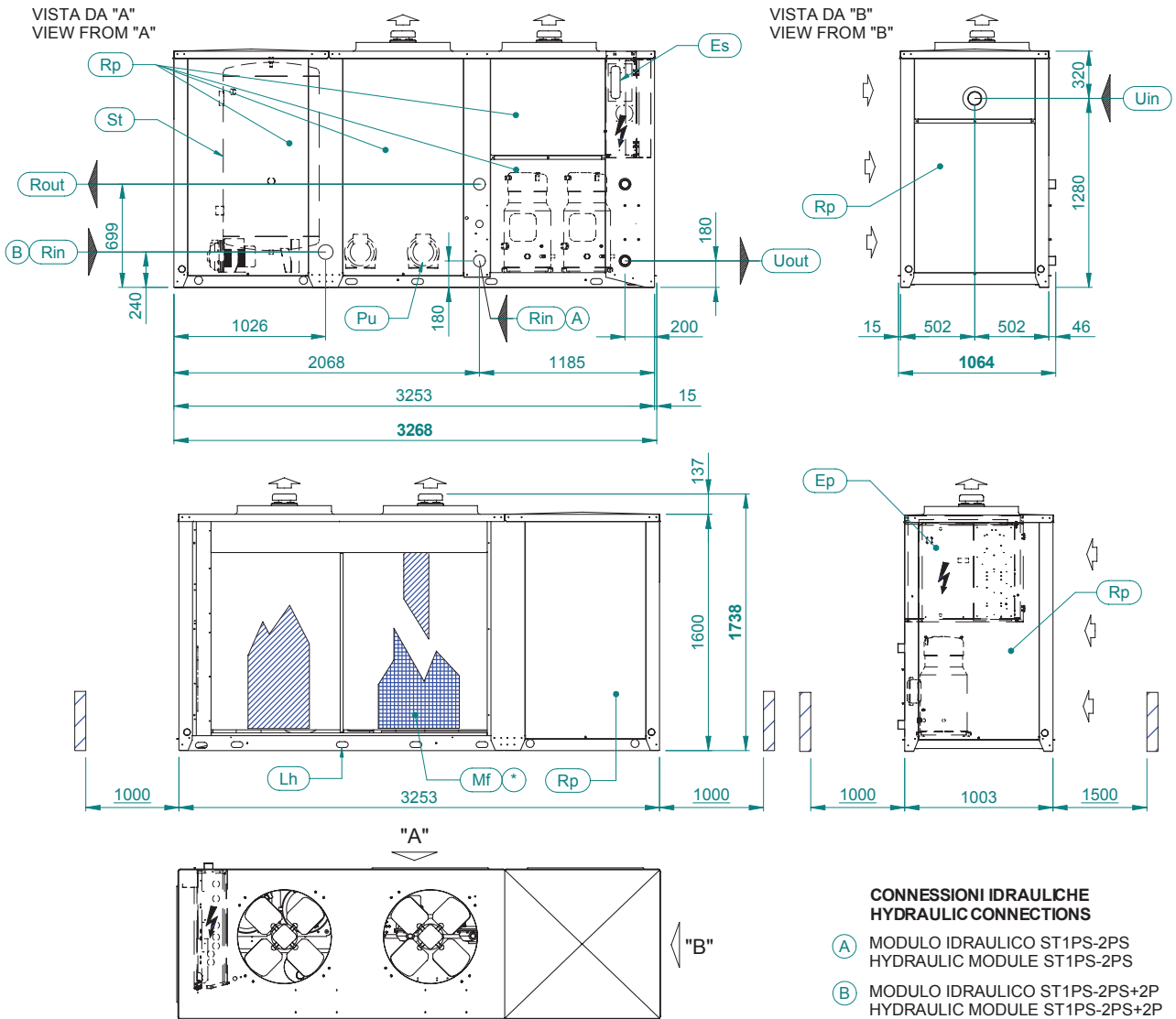


MODELLO MODEL	PESO (kg) WEIGHT(kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
OMICRON S EVO SLN 17.4 (ST)	2204	2253	417	201	114	237
OMICRON S EVO SLN 19.4 (ST)	2236	2289	430	206	113	236
OMICRON S EVO SLN 21.4 (ST)	2281	2341	439	213	116	238
OMICRON S EVO LT 17.4 (ST)	2204	2253	417	201	114	237
OMICRON S EVO LT 19.4 (ST)	2236	2289	430	206	113	236
OMICRON S EVO LT 21.4 (ST)	2281	2341	439	213	116	238

Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST 1PS-2PS 5.2



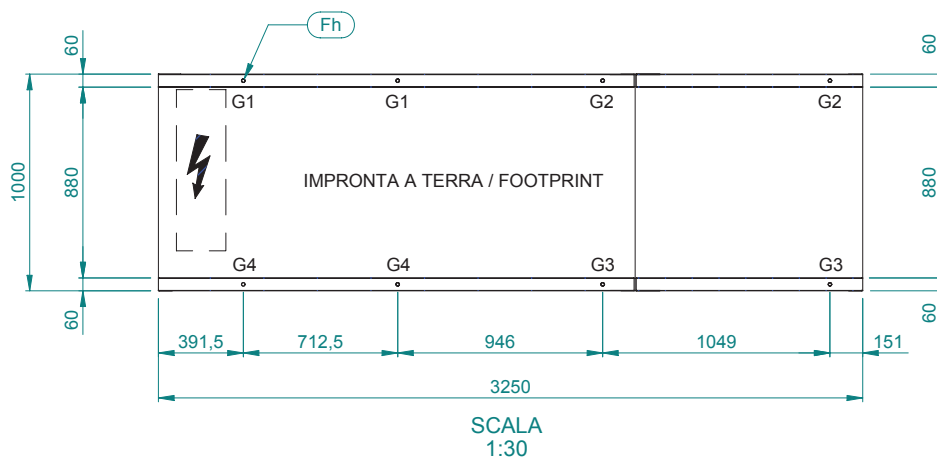
Ep	QUADRO ELETTRICO ELECTRICAL PANEL	St	SERBATOIO DI ACCUMULO STORAGE TANK	
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 3" F
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 2" M
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES	
		*	OPTIONAL	

Rin		
	A	B
5.2	G 2" M	G 2 F

A4C018-B

DIMENSIONAL DRAWING

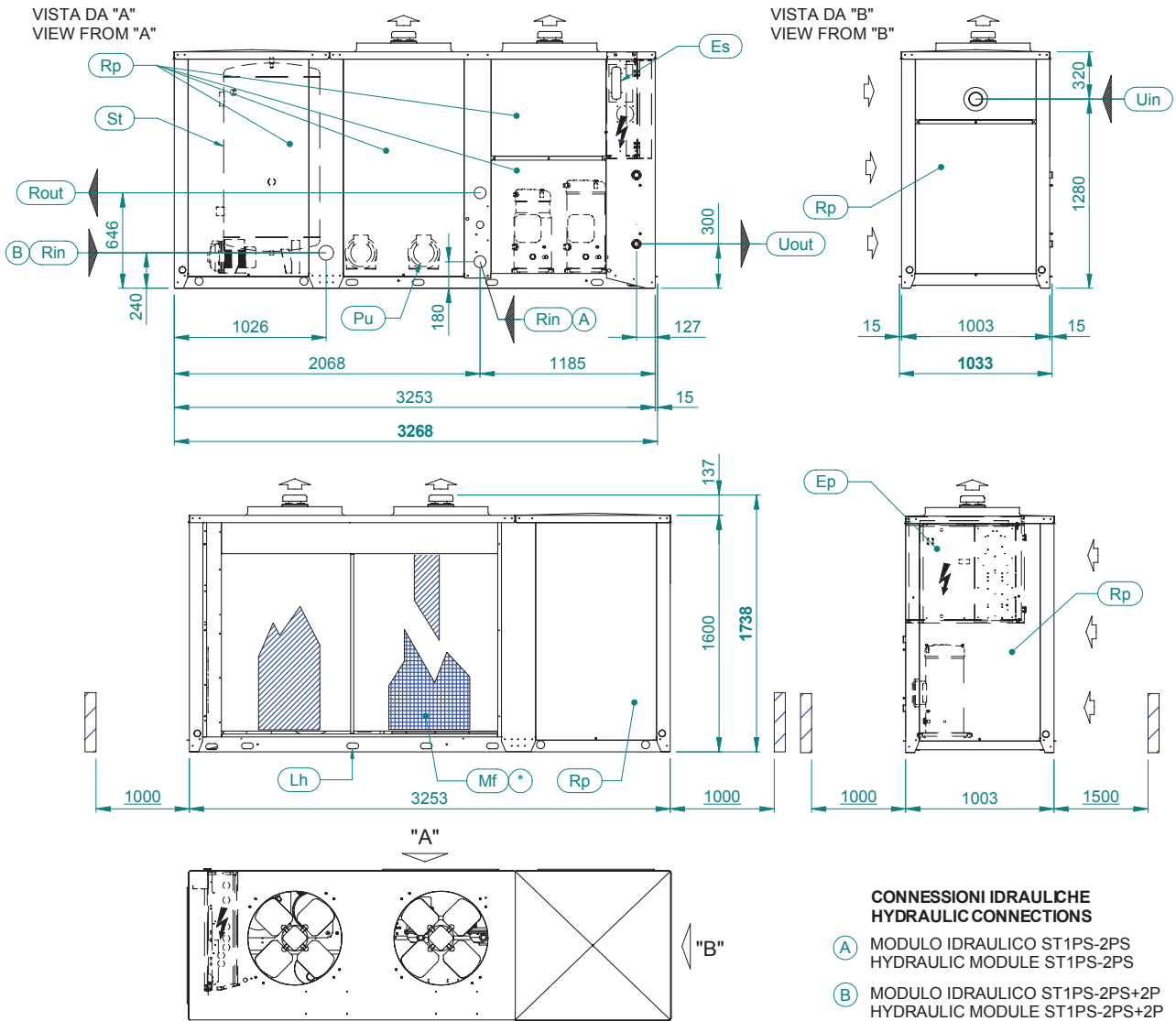
OMICRON S ST 1PS-2PS 5.2



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST 1PS-2PS 3.2-4.2



**CONNESSIONI IDRAULICHE
HYDRAULIC CONNECTIONS**

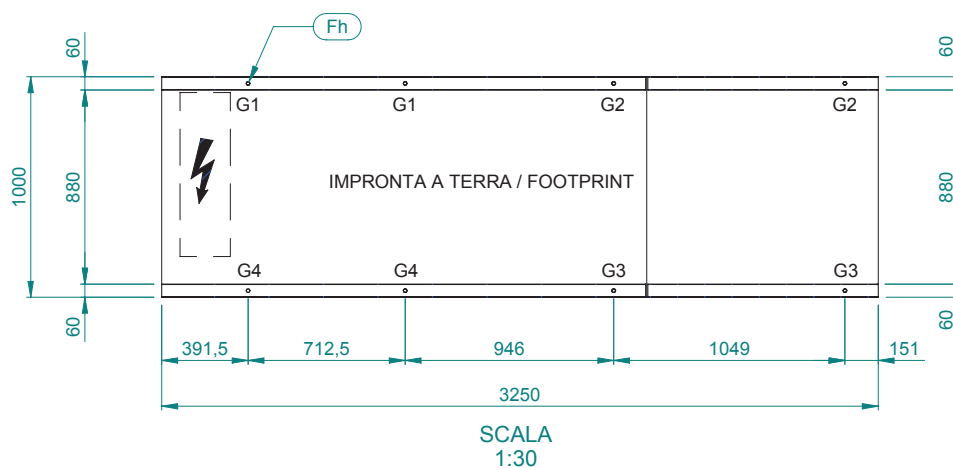
- (A) MODULO IDRAULICO ST1PS-2PS
HYDRAULIC MODULE ST1PS-2PS
- (B) MODULO IDRAULICO ST1PS-2PS+2P
HYDRAULIC MODULE ST1PS-2PS+2P

		Rin	
		A	B
3.2 - 4.2		G 1"1/4 M	G 2 F

Ep	QUADRO ELETTRICO ELECTRICAL PANEL	St	SERBATOIO DI ACCUMULO STORAGE TANK		
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET		
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 1"1/4 F	
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 3" F	
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 1"1/4 M	Pu
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES		
		*	OPTIONAL		

DIMENSIONAL DRAWING

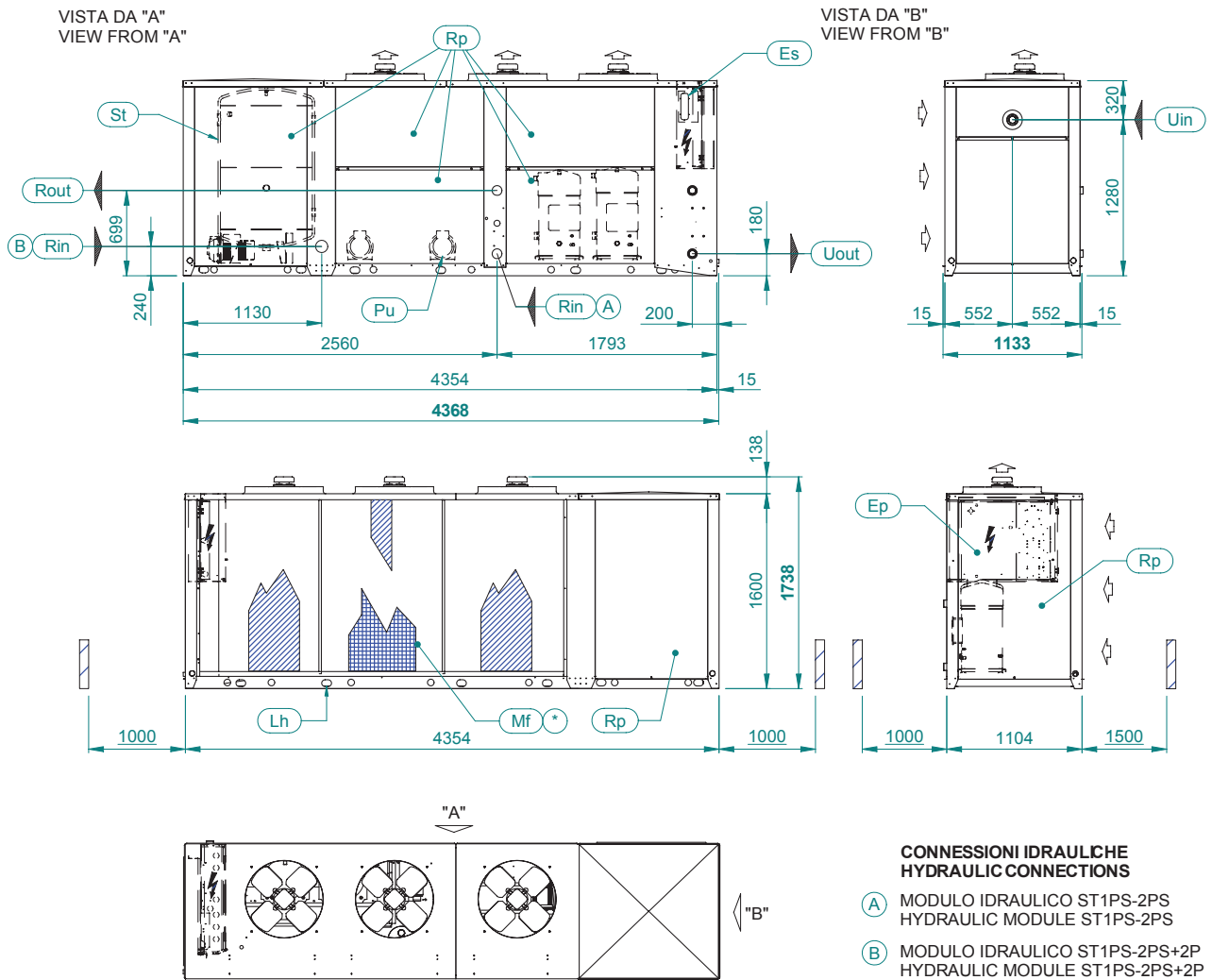
OMICRON S ST 1PS-2PS 3.2-4.2



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST 1PS-2PS 6.2-9.2



Ep	QUADRO ELETTRICO ELECTRICAL PANEL	St	SERBATOIO DI ACCUMULO STORAGE TANK
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET
↕	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES
		*	OPTIONAL

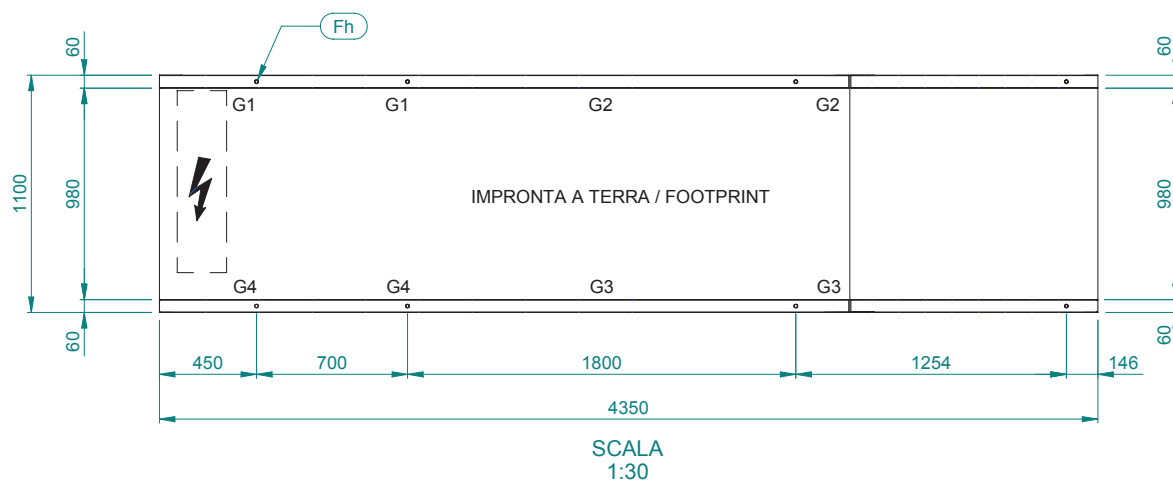
	Rin	
	A	B
5.2 - 9.2	G 2" M	G 2 F

Pu	POMPA PUMP
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A4C022-B

DIMENSIONAL DRAWING

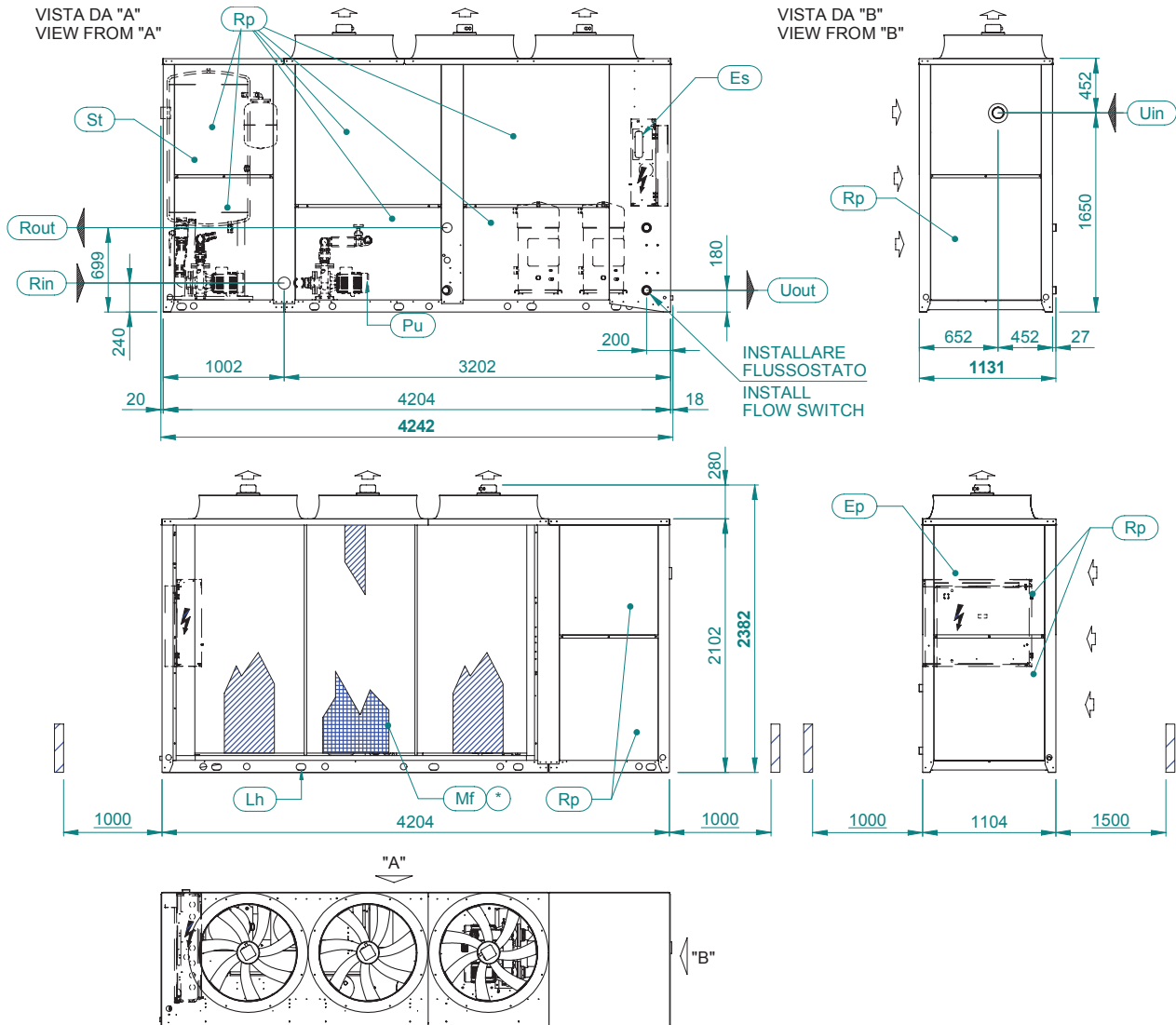
OMICRON S ST 1PS-2PS 6.2-9.2



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST 2PS+2P 11.2

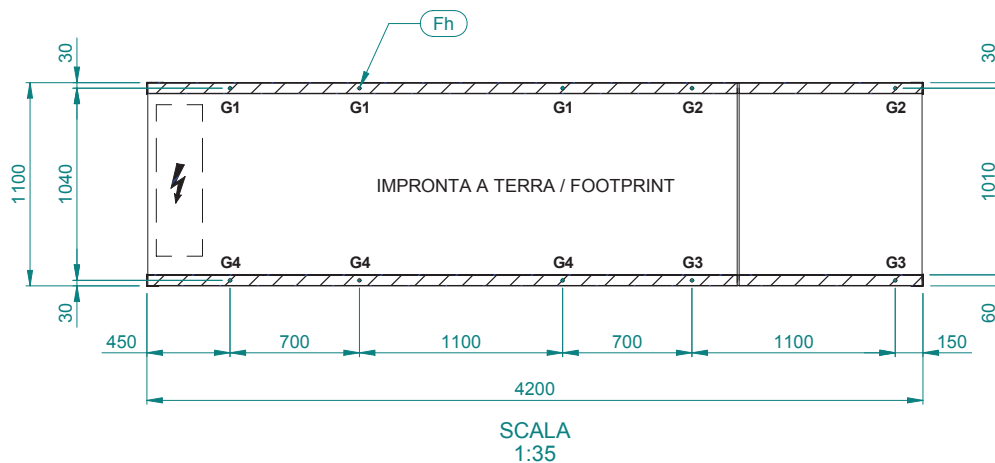


Ep	QUADRO ELETTRICO ELECTRICAL PANEL	St	SERBATOIO DI ACCUMULO STORAGE TANK			
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	G 2"1/2 F		
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M		
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 3" F		
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 2" M	Pu	POMPA PUMP
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES		*	OPTIONAL

A4C032-B

DIMENSIONAL DRAWING

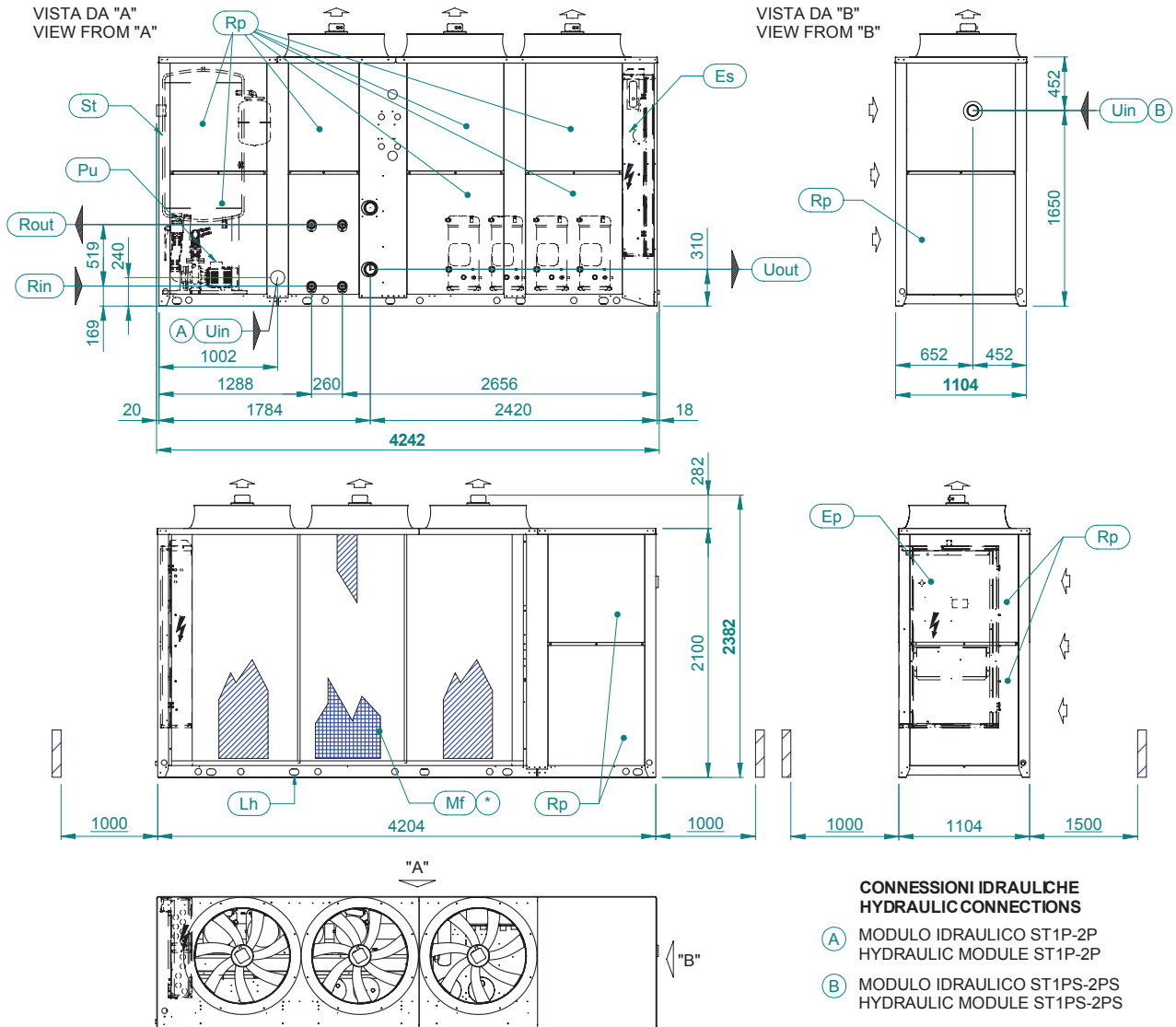
OMICRON S ST 2PS+2P 11.2



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST 1PS-2PS 10.4-11.4

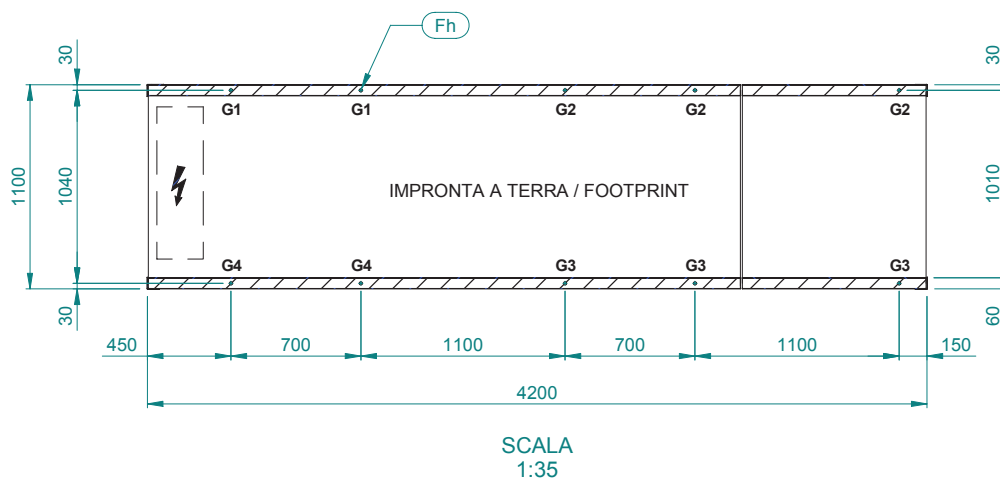


Ep	QUADRO ELETTRICO ELECTRICAL PANEL	St	SERBATOIO DI ACCUMULO STORAGE TANK		
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	G 2" M	
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M	
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 3" F	
↺	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 3" F	Pu
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL	↺	SPAZI DI INSTALLAZIONE CLEARANCES		POMPA PUMP
		*			OPTIONAL

A4C033-B

DIMENSIONAL DRAWING

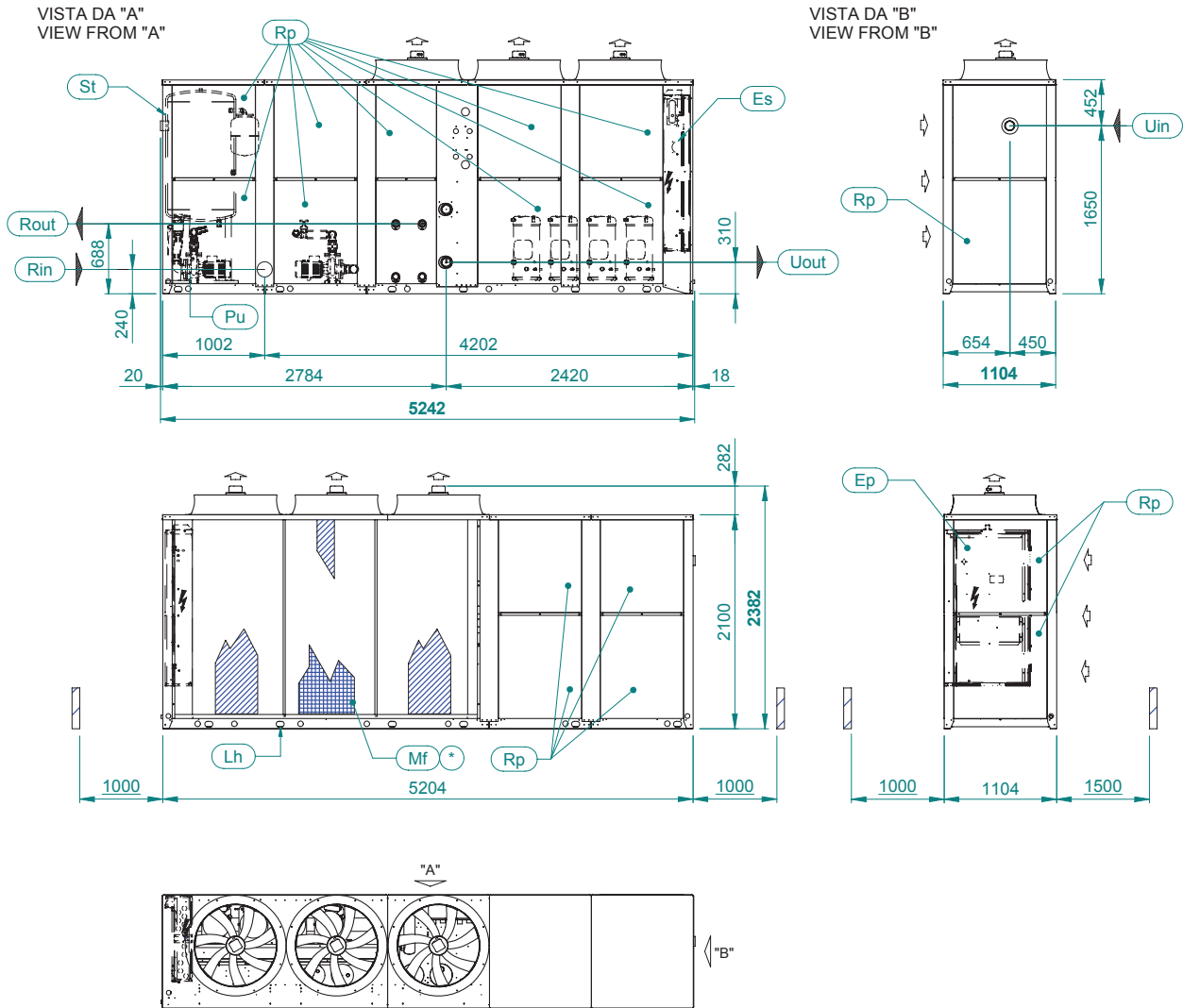
OMICRON S ST 1PS-2PS 10.4-11.4



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST 1PS-2PS+2P 10.4-11.4

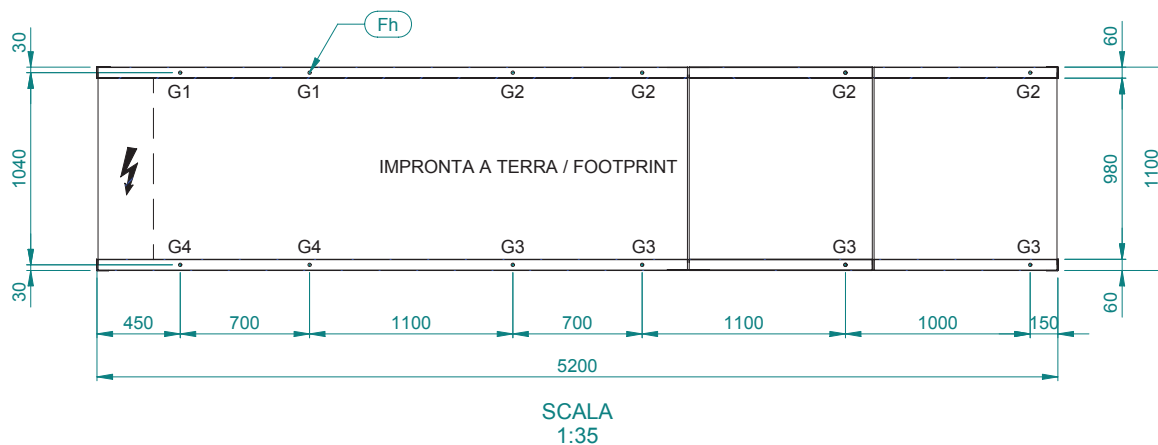


Ep	QUADRO ELETTRICO ELECTRICAL PANEL	St	SERBATOIO DI ACCUMULO STORAGE TANK		
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	G 2"1/2 F	
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M	
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 3" F	
↺	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 3" F	
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES		
				Pu	POMPA PUMP
				*	OPTIONAL

A4C039-B

DIMENSIONAL DRAWING

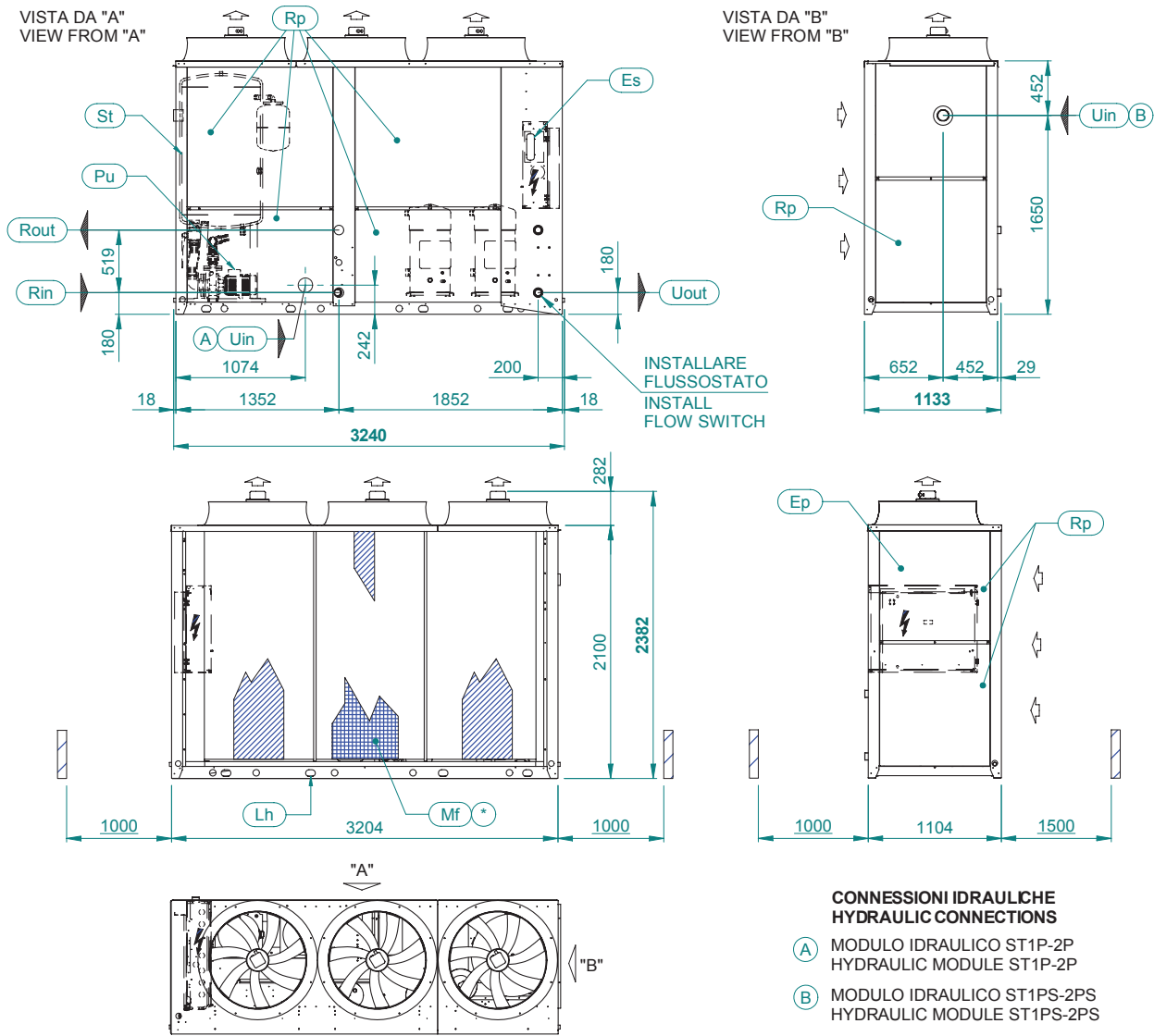
OMICRON S ST 1PS-2PS+2P 10.4-11.4



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST1PS-2PS 11.2

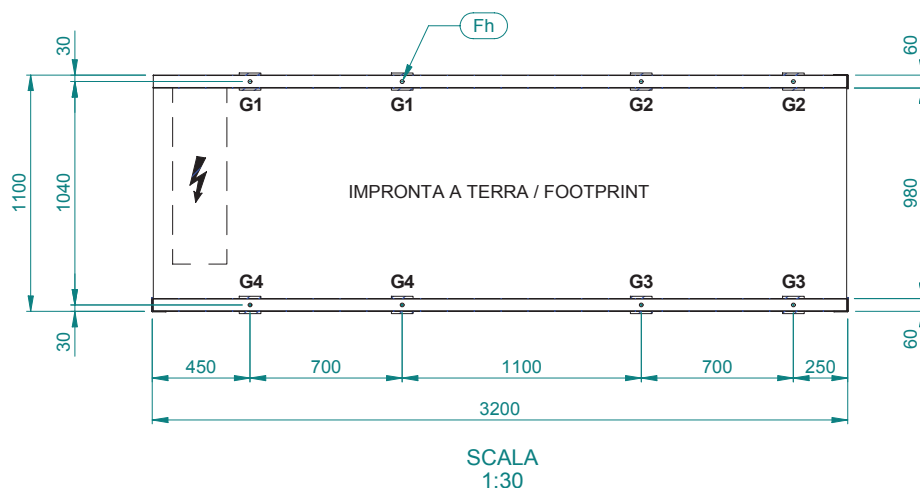


Ep	QUADRO ELETTRICO ELECTRICAL PANEL	St	SERBATOIO DI ACCUMULO STORAGE TANK											
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	G 2" M	<table border="1"> <tr> <td></td> <td colspan="2">Uin</td> </tr> <tr> <td></td> <td>A</td> <td>B</td> </tr> <tr> <td>11.2</td> <td>G 2"1/2 F</td> <td>G 3" F</td> </tr> </table>		Uin			A	B	11.2	G 2"1/2 F	G 3" F
	Uin													
	A	B												
11.2	G 2"1/2 F	G 3" F												
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M										
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET											
	FLUSSO ARIA CONDENSANZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 2" M	Pu									
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES		*									
					OPTIONAL									

A4C045-B

DIMENSIONAL DRAWING

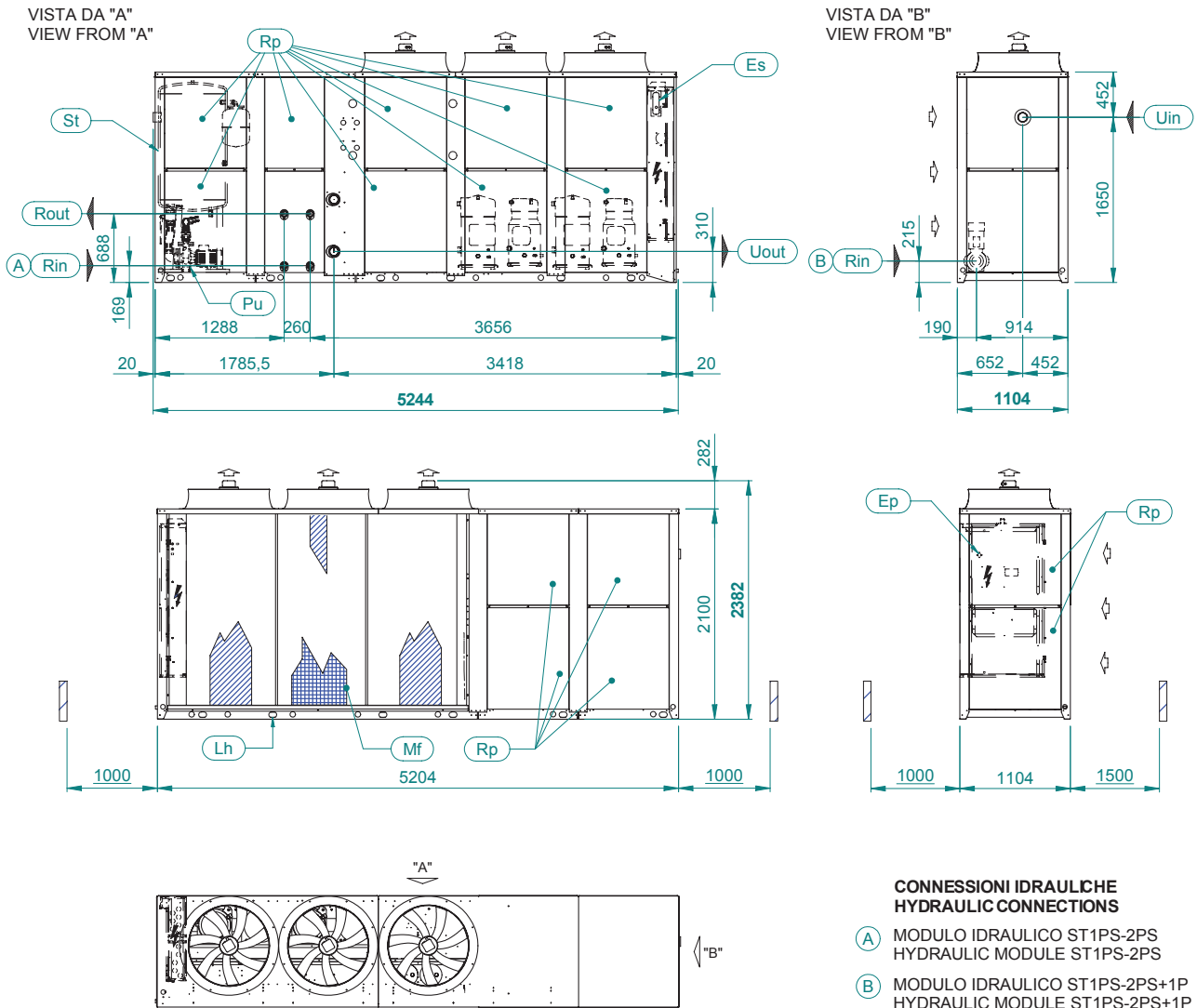
OMICRON S ST1PS-2PS 11.2



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST 1PS-2PS+1P 12.4-14.4



Ep	QUADRO ELETTRICO ELECTRICAL PANEL	St	SERBATOIO DI ACCUMULO STORAGE TANK	
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 3" F
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 3" F
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES	

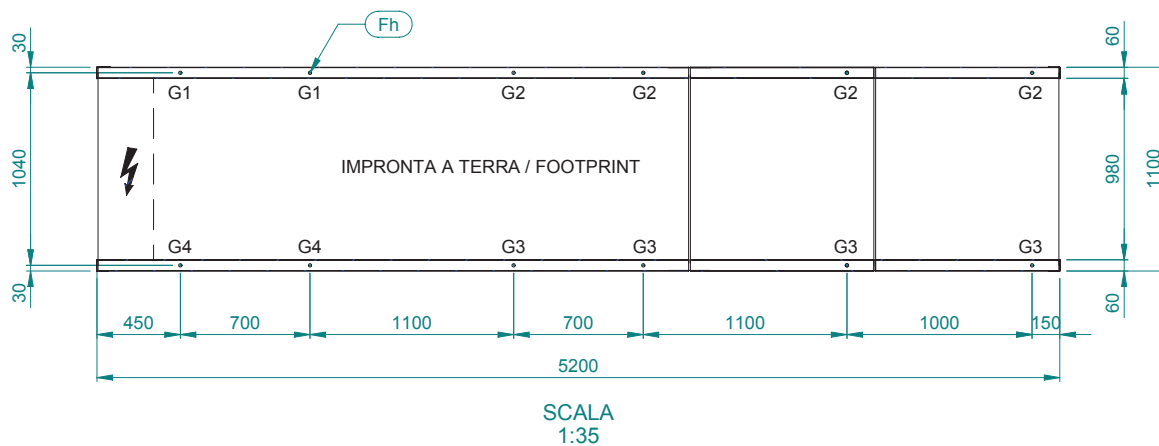
	Rin	
	A	B
12.4-14.4	G 2" M	G 3" F

Pu	POMPA PUMP
*	OPTIONAL

A4C051-B

DIMENSIONAL DRAWING

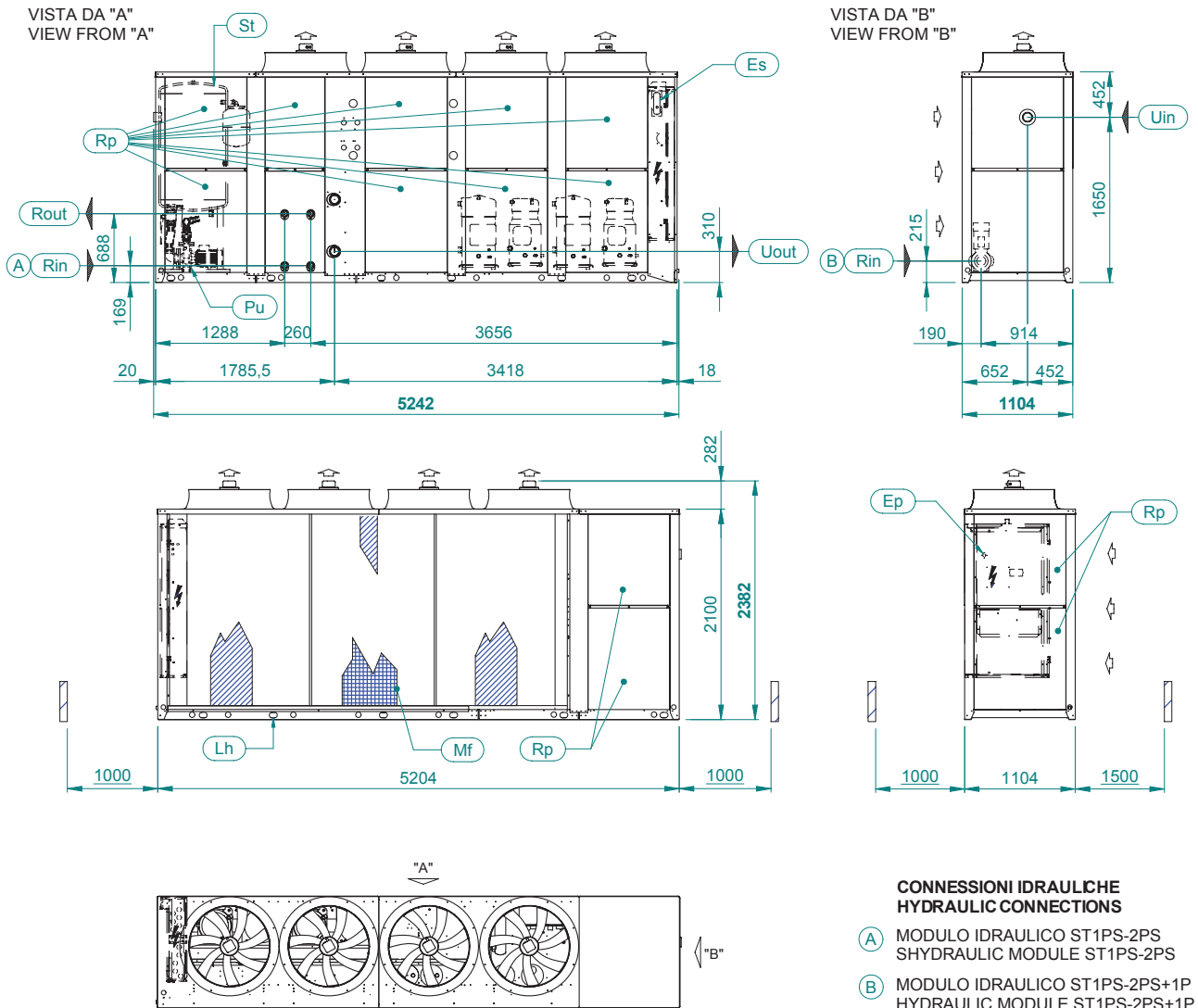
OMICRON S ST 1PS-2PS+1P 12.4-14.4



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST1PS-2PS+1P 16.4-21.4



CONNESSIONI IDRAULICHE HYDRAULIC CONNECTIONS

- (A) MODULO IDRAULICO ST1PS-2PS
SHYDRAULIC MODULE ST1PS-2PS
- (B) MODULO IDRAULICO ST1PS-2PS+1P
HYDRAULIC MODULE ST1PS-2PS+1P

Ep	QUADRO ELETTRICO ELECTRICAL PANEL	St	SERBATOIO DI ACCUMULO STORAGE TANK	
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 3" F
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 3" F
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES	

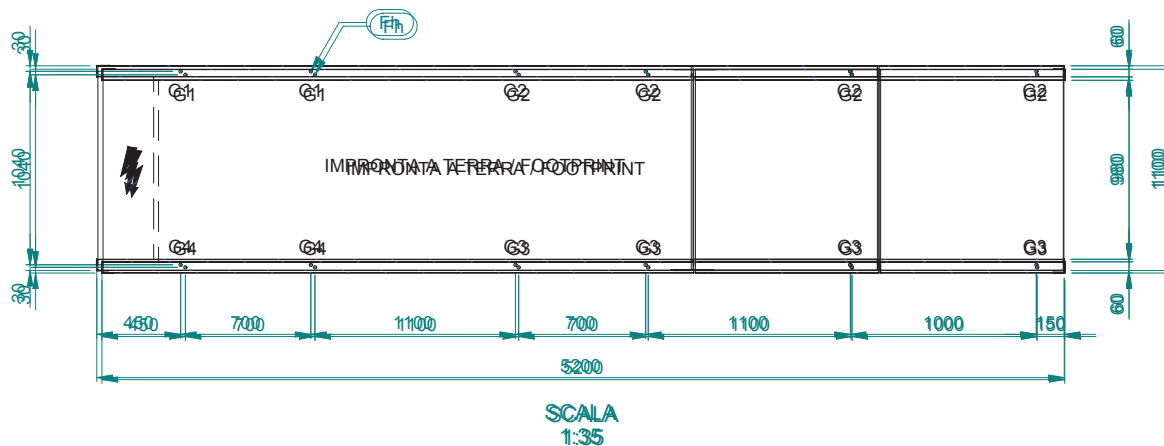
	Rin	
	A	B
12.4-21.4	G 2" M	G 3" F

Pu	POMPA PUMP
*	OPTIONAL

A4C054-B

DIMENSIONAL DRAWING

OMICRON S ST1PS-2PS+1P 16.4-21.4

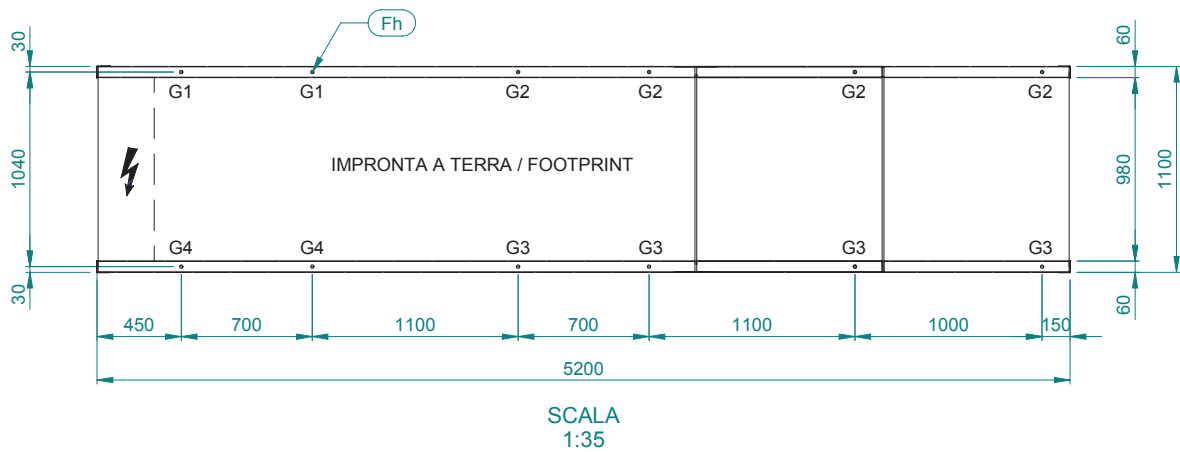


Ffh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	FUNTI DI APPoggio ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

A4C054-B

DIMENSIONAL DRAWING

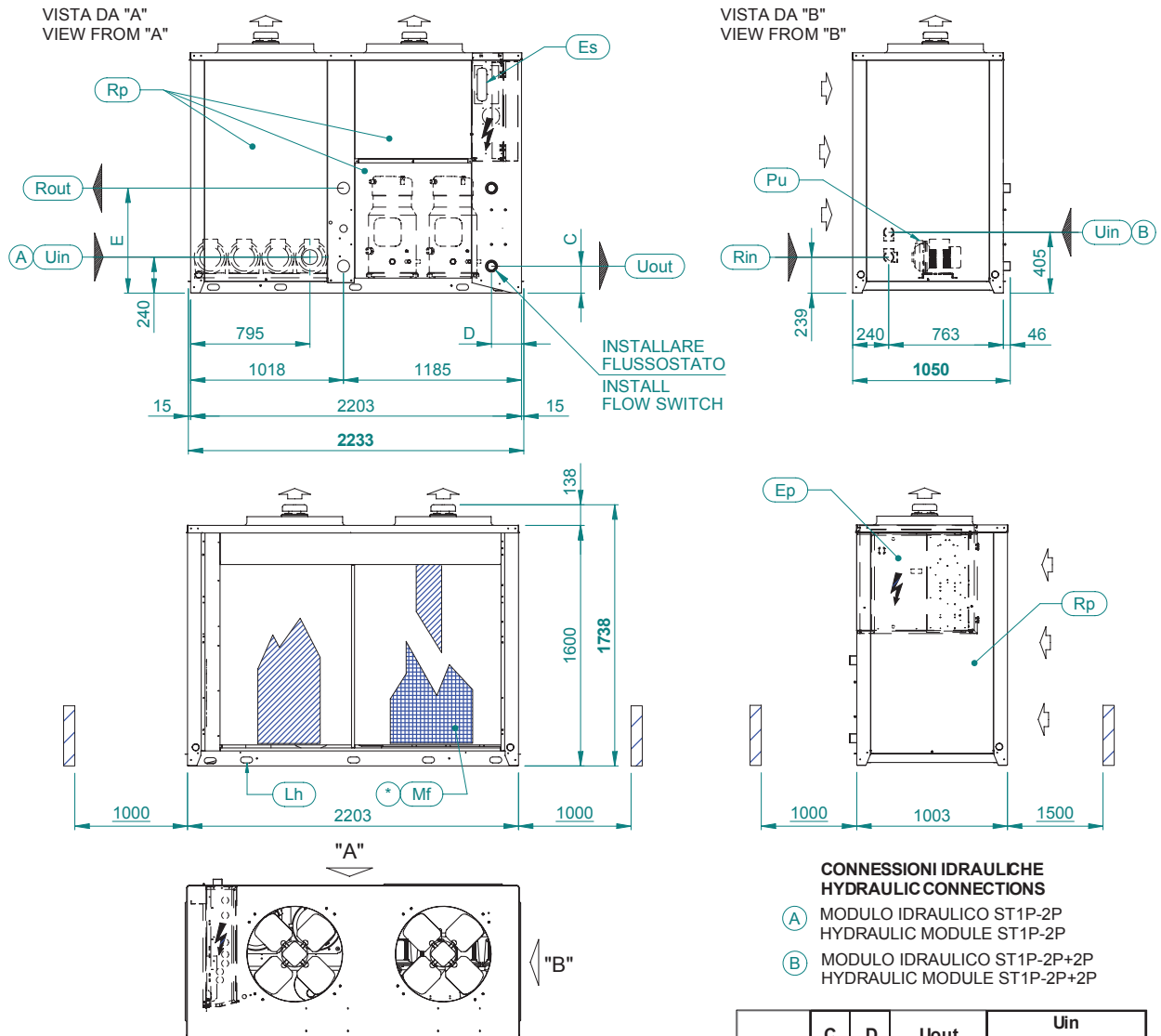
OMICRON S ST1P-2P+1P 16.4-21.4



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST2P+2P 3.2-5.2



Ep	QUADRO ELETTRICO ELECTRICAL PANEL
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES
Mf	FILTRI METALLICI METALLIC FILTER
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL

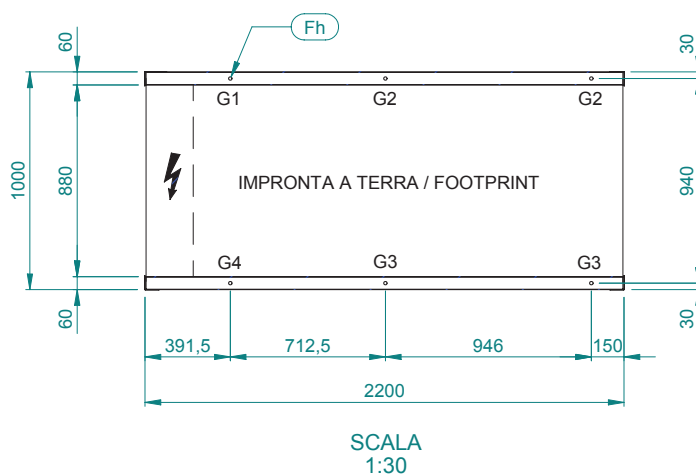
Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	
Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	
Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	
Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	
	SPAZI DI INSTALLAZIONE CLEARANCES	

		E	Rout	Rin
3.2 - 4.2	646	G 1"1/4	G 2" F	G 2" F
5.2	699	G 2" M	G 2" F	G 2" F

	C	D	Uout	Uin	
				A	B
3.2 - 4.2	300	127	G 1"1/4 M	G 2" F	G 2" F
5.2	180	200	G 2" M	G 2" F	G 2" F

DIMENSIONAL DRAWING

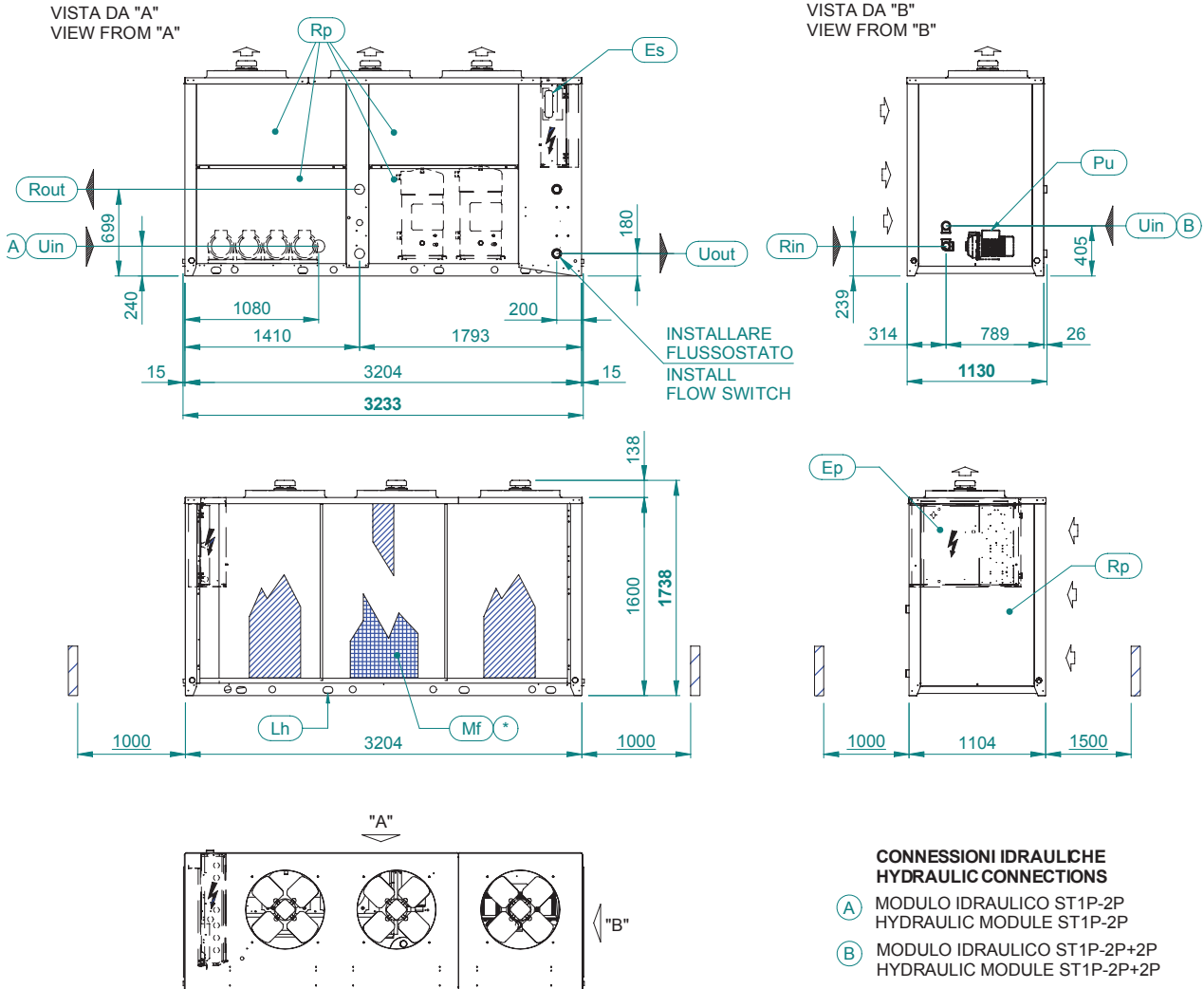
OMICRON S ST2P+2P 3.2-5.2



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST1P-2P+2P 6.2-9.2

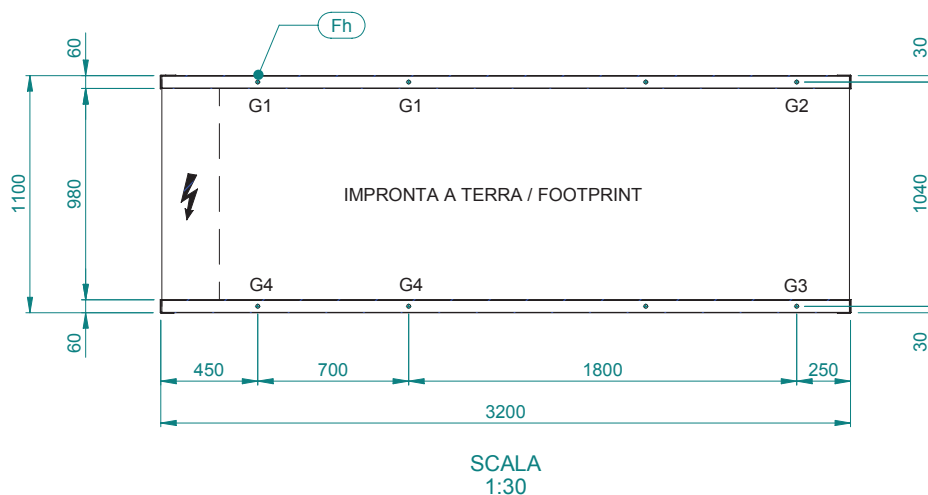


Ep	QUADRO ELETTRICO ELECTRICAL PANEL												
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	G 2" F	<table border="1"> <thead> <tr> <th colspan="2">Uin</th> </tr> <tr> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>5.2 - 9.2</td> <td>G 2" F</td> </tr> <tr> <td></td> <td>G 2" F</td> </tr> </tbody> </table>	Uin		A	B	5.2 - 9.2	G 2" F		G 2" F
Uin													
A	B												
5.2 - 9.2	G 2" F												
	G 2" F												
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M									
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET										
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 2" M	Pu	POMPA PUMP							
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES		*	OPTIONAL							

A4C060-B

DIMENSIONAL DRAWING

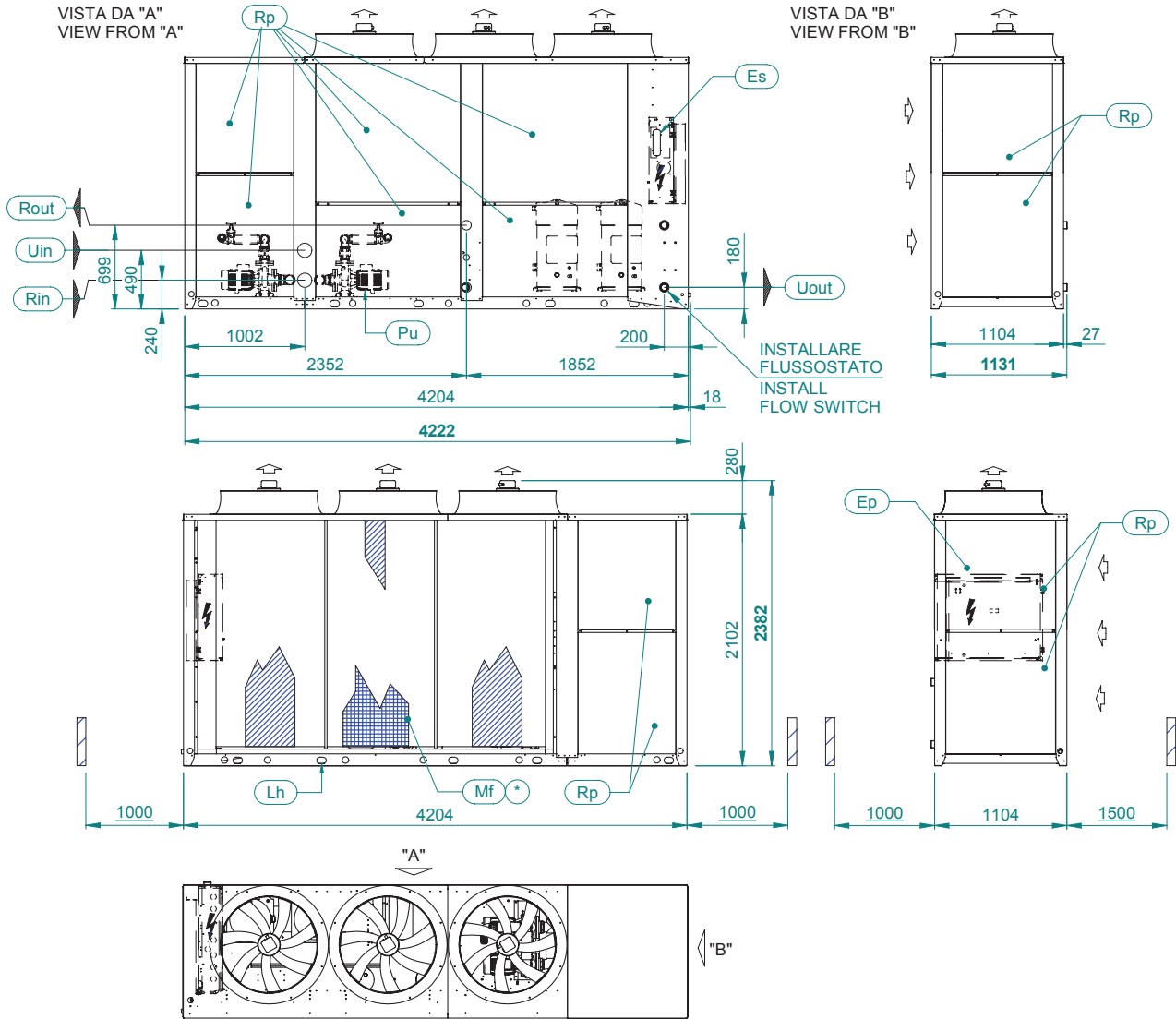
OMICRON S ST1P-2P+2P 6.2-9.2



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST1P-2P+2P 11.2

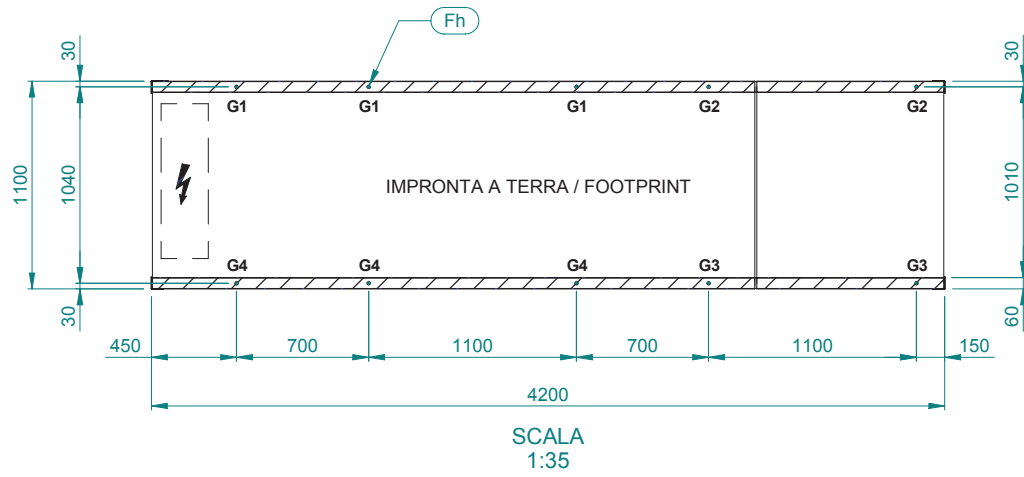


Ep	QUADRO ELETTRICO ELECTRICAL PANEL				
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	G 2" 1/2 F	
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M	
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 2" 1/2 F	
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 2" M	Pu
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES		
		*	OPTIONAL		

A4C062-B

DIMENSIONAL DRAWING

OMICRON S ST1P-2P+2P 11.2

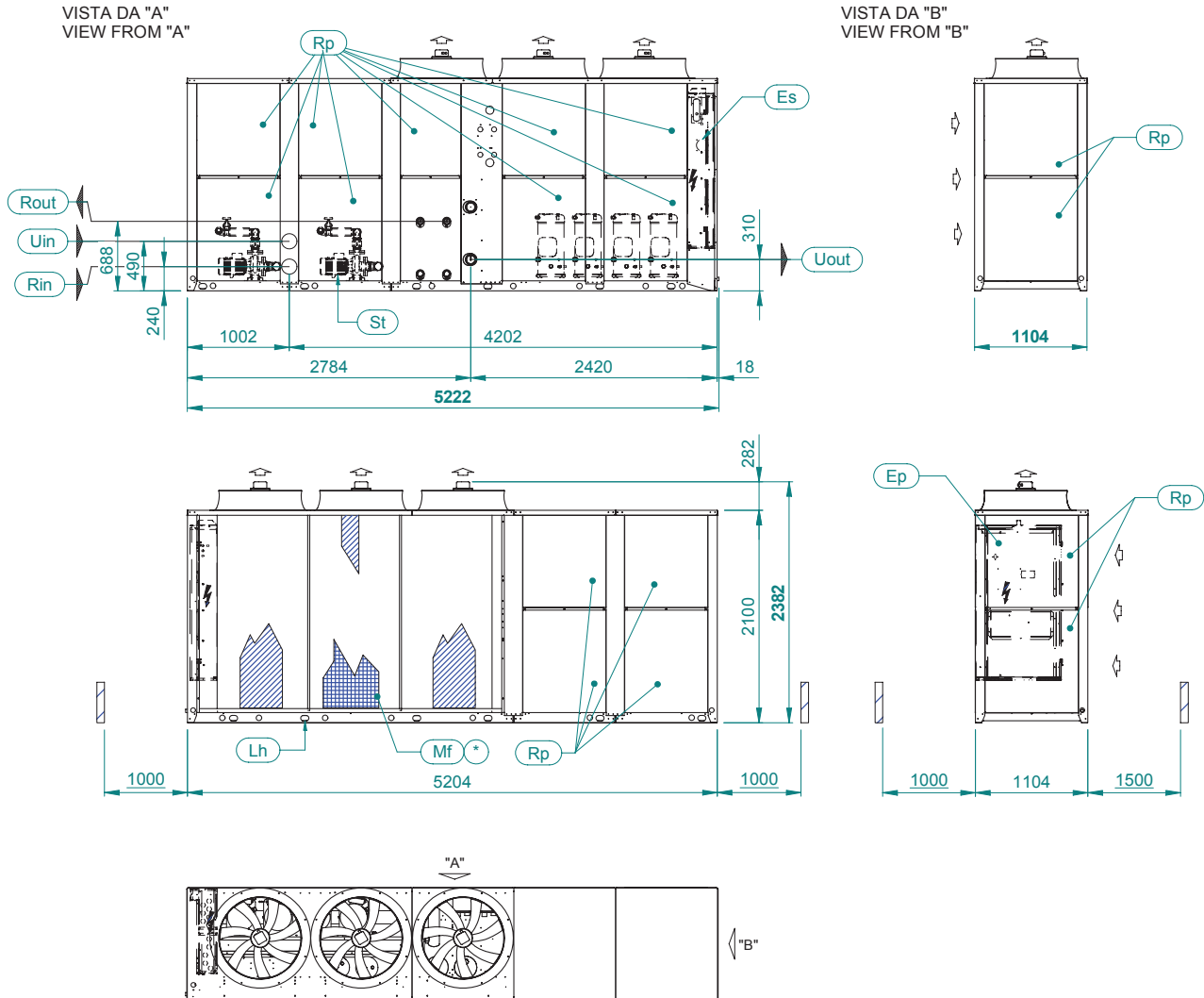


Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

A4C062-B

DIMENSIONAL DRAWING

OMICRON S ST2P+2P 10.4-11.4

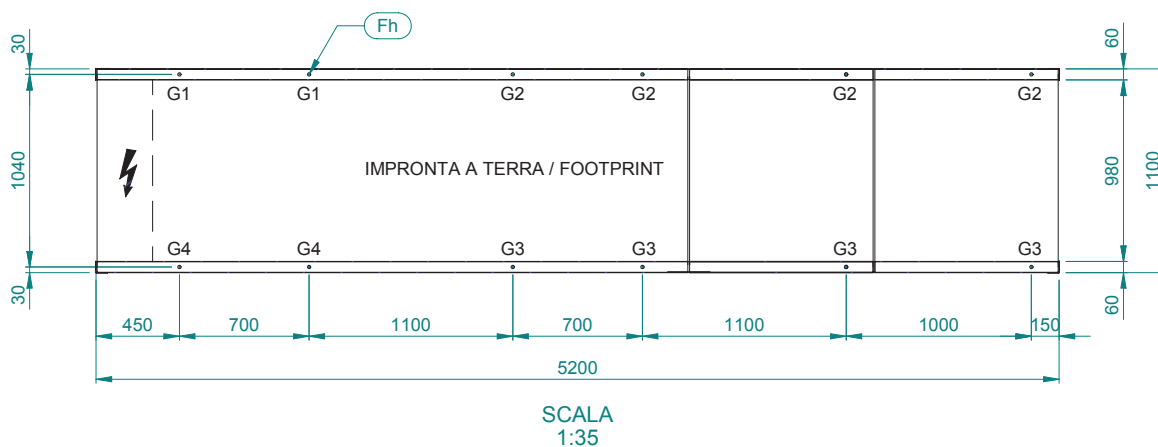


Ep	QUADRO ELETTRICO ELECTRICAL PANEL					
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	G 2"1/2 F		
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M		
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 2"1/2 F		
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 2" M	Pu	POMPA PUMP
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES		*	OPTIONAL

A4C063-B

DIMENSIONAL DRAWING

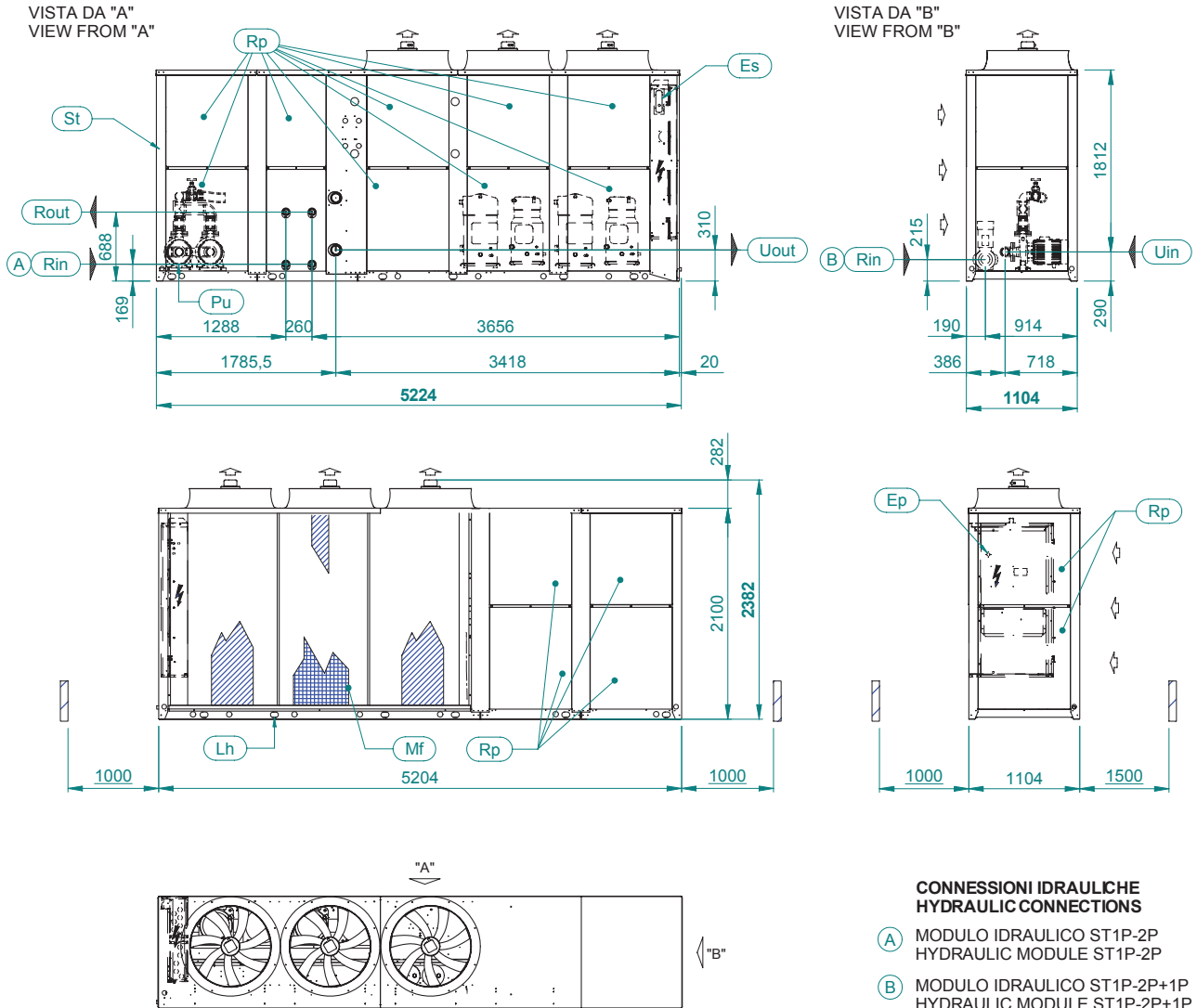
OMICRON S ST2P+2P 10.4-11.4



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S ST 1P-2P+1P 12.4-14.4

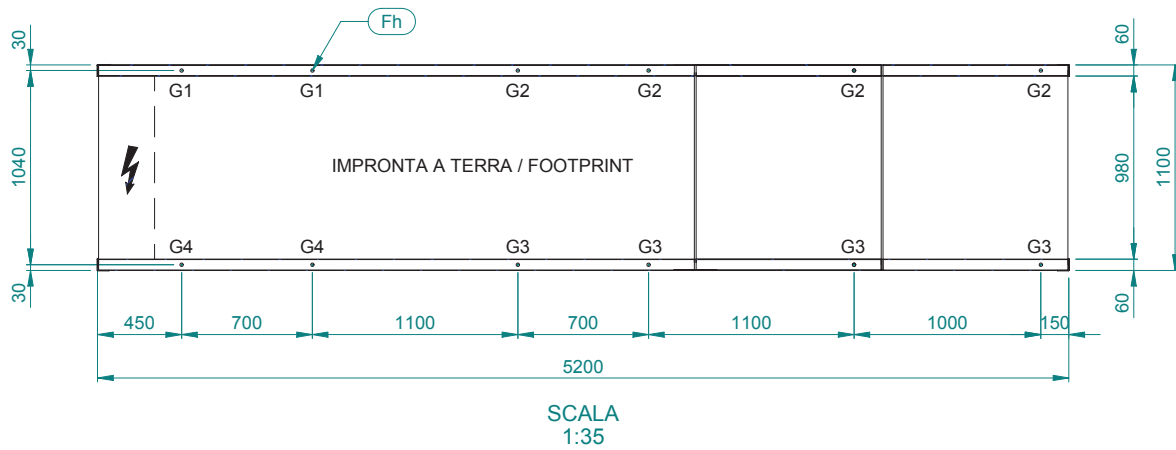


Ep	QUADRO ELETTRICO ELECTRICAL PANEL			
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M
Mf	FILTRI METALLICI METALLIC FILTER	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 2"1/2 F
↕	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 3" F
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL	□	SPAZI DI INSTALLAZIONE CLEARANCES	
		*	OPTIONAL	

	Rin	
	A	B
12.4-14.4	G 2" M	G 3" F

DIMENSIONAL DRAWING

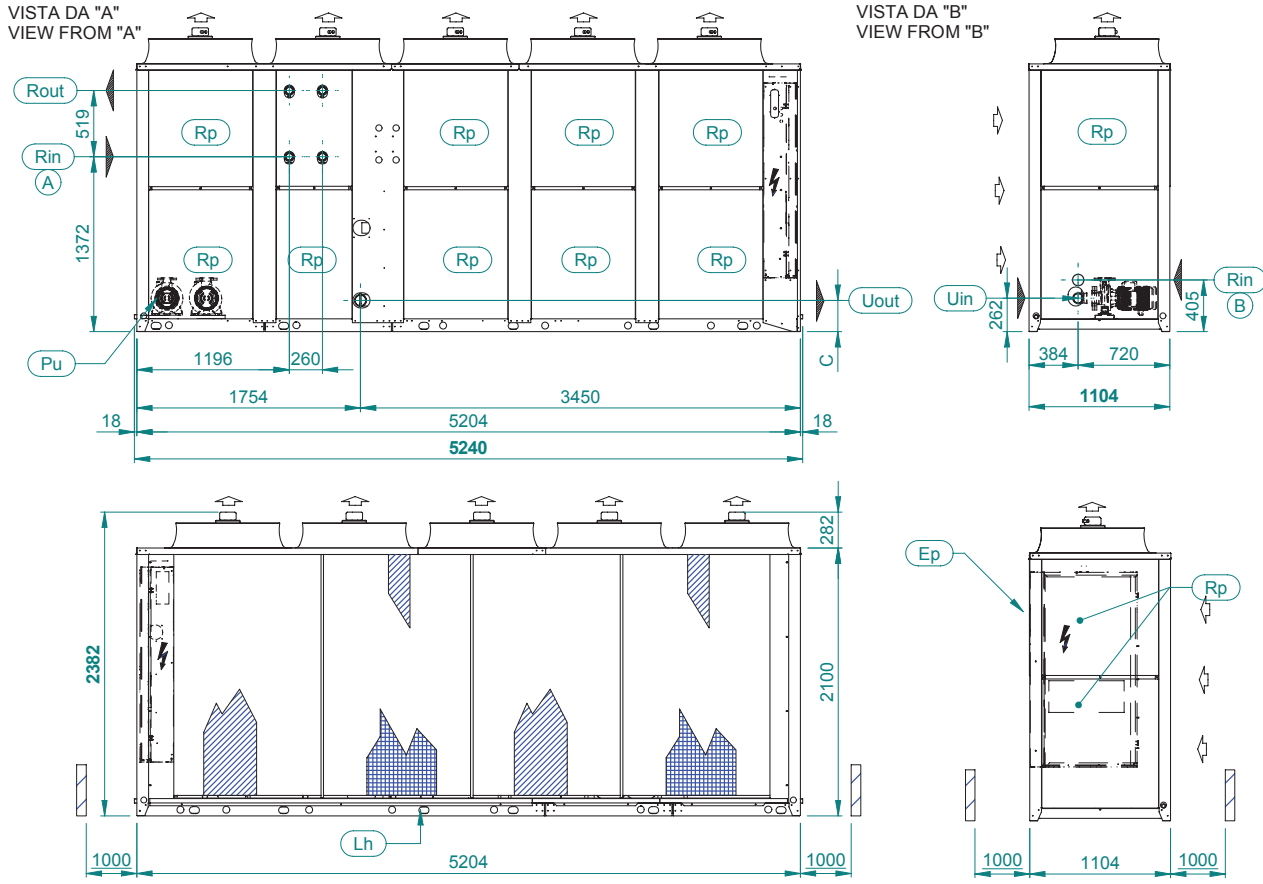
OMICRON S ST 1P-2P+1P 12.4-14.4



Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

DIMENSIONAL DRAWING

OMICRON S /SLN ST 17.4-21.4 - OMICRON S /LT ST 17.4-21.4



CONNESSIONI IDRAULICHE HYDRAULIC CONNECTIONS

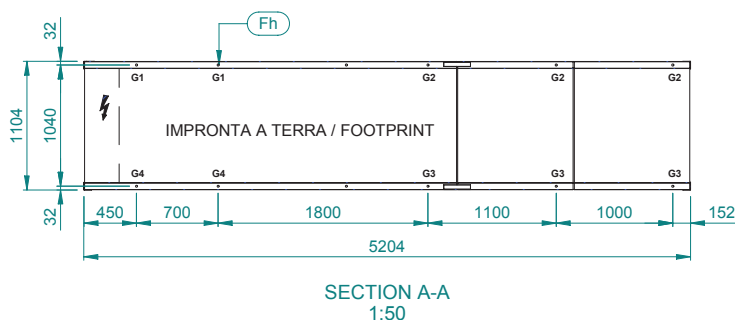
- (A) MODULO IDRAULICO ST1P-2P
HYDRAULIC MODULE ST1P-2P
- (B) MODULO IDRAULICO ST1P+1P
HYDRAULIC MODULE ST1P+1P

	C	Rin	
		A	B
17.4	310	G 2" M	G 2"1/2 F
19.4 - 21.4	245	G 2" M	G 2"1/2 F

Ep	QUADRO ELETTRICO ELECTRICAL PANEL	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	G 2" M
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET	G 2"1/2 F
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET	G 3" F
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL		SPAZI DI INSTALLAZIONE CLEARANCES	* OPTIONAL

DIMENSIONAL DRAWING

OMICRON S /SLN ST 17.4-21.4 - OMICRON S /LT ST 17.4-21.4



MODELLO MODEL	PESO (kg) WEIGHT(kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
OMICRON S EVO SLN 17.4 1P-2P	2306	2365	404	230	133	234
OMICRON S EVO SLN 19.4 1P-2P	2340	2403	417	235	132	234
OMICRON S EVO SLN 21.4 1P-2P	2382	2452	426	242	134	236
OMICRON S EVO SLN 17.4 1P1P	2313	2382	406	231	135	236
OMICRON S EVO SLN 19.4 1P1P	2344	2417	419	236	133	236
OMICRON S EVO SLN 21.4 1P1P	2392	2472	428	244	136	238
OMICRON S EVO LT 17.4 1P-2P	2306	2365	404	230	133	234
OMICRON S EVO LT 19.4 1P-2P	2340	2403	417	235	132	234
OMICRON S EVO LT 21.4 1P-2P	2382	2452	426	242	134	236
OMICRON S EVO LT 17.4 1P1P	2313	2382	406	231	135	236
OMICRON S EVO LT 19.4 1P1P	2344	2417	419	236	133	236
OMICRON S EVO LT 21.4 1P1P	2392	2472	428	244	136	238

Fh	FORI DI FISSAGGIO FIXING HOLES	Ø16
G..	PUNTI DI APOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	

INSTALLATIONS RECOMMENDATIONS

LOCATION

Strictly allow clearances as indicated in the catalogue.

Please check that there isn't any obstructions on the suction of the finned coil and on the discharge of the fans

Locate the unit in order to be compatible with environmental requirements (sound level, integration into the site, etc.).

ELECTRICAL CONNECTIONS

Check the wiring diagram enclosed with the unit, in which are always present all the instructions necessary to the electrical connections.

Supply the unit at least 12 hours before start-up, in order to turn crankcase heaters on. Do not disconnect electrical supply during temporary stop periods (i.e. weekends).

Before opening the main switch, stop the unit by acting on the suitable running switches or, if lacking, on the remote control.

Before servicing the inner components, disconnect electrical supply by opening the main switch.

The electric supply line must be equipped with an automatic circuit breaker (to be provided by the installer).

HYDRAULIC CONNECTIONS

Carefully vent the system, with pump turned off, by acting on the vent valves. This procedure is fundamental: little air bubbles can freeze the evaporator causing the general failure of the system.

Drain the system during seasonal stops (wintertime) or use proper mixtures with low freezing point. In case of temporary stop periods an electric heater should be installed on the evaporator and hydraulic circuit.

Install the hydraulic circuit including all the components indicated in the recommended hydraulic circuit diagrams (expansion vessel, flow switch, strainer, storage tank, vent valves, shut off valves, flexible connections, etc.).

Connect the flow switch, which is furnished on all units, not fitted. Follow the instructions enclosed with the units.

START UP AND MAINTENANCE OPERATIONS

Strictly follow what reported in use and maintenance manual. All these operations must be carried on by trained personnel only.

