OXFORD

Chillers and heat pumps Air/water 41÷125 kW

General

Air/Water chillers and heat pumps with axial fans and hermetic scroll compressors.

Versions

A: Energy efficient class A

HP. Reversible heating

LE: Without evaporator, for connection to external

DS: Desuperheater

DC: Heat exchange condensor

FC: Free-cooling (see specific catalogue document)

LN: Low sound

SLN: Super low sound

Quick facts

- Eco-friendly cooling
- A customized range
- High EER
- Patended innovation
- Efficient energy performance
- Advanced software
- Years of dependability
- Low discharge fluid temperature

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TECHNICAL FEATURES

OXFORD
Air cooled water chiller with hermetic scroll compressors and brazed plate evaporators. Basic unit outfit.

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

COMPRESSORS
Parallel connected hermetic rotary screw scroll type compressors with oil level gauge, klixon thermal protection and oil equalization system. Enclosed in an insulated compartment and separated from the air flow, the compressors are accessible through the special panels for maintenance operations, even when the unit is on.

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

The finned coil pack is protected by a metal mesh.

ELECTRO FANS
Axial fans designed to enhance performance and reduce noise emissions, 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.

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

Each evaporator is equipped with temperature probe for anti-freeze protection and vane operated flow switch supplied as standard.

The plate heat exchangers provide for:

- Increased COP/EER;
- Reduced refrigerant charge;
- Reduced volume and weight of the unit;
- Easier maintenance.

COOLING CIRCUIT
Comprises: fluid valve, feeding plug, fluid sight glass, dehydrating filter, thermostatic expansion valve for pressure external control, high and low pressure switches and safety valve.

ELECTRICAL PANEL
The panel consists of:

- Main disconnect switch;
- Fuses for main and auxilliary power circuit protection ;
- Magnetothermic switches, pumps (if present);
- Compressor remote switches;
- Fan remote switches ;
- Pump remote switches (for ST version)
- Microprocessor to control the following functions:
  - Control of ingoing water temperature;
  - Anti-freeze protection;
  - Compressor operation timers;
  - Automatic rotation of compressor start-up sequence;
  - Alarm signals;
  - Alarm reset;
  - Capacity steps;
  - Cumulative alarm contact for remote signaling;
  - Forced capacity reduction according to pressure limits;
- Display of:
  - Ingoing and outgoing water temperature;
  - Currently set temperature and differential;
  - Alarm description;
  - Hour counter for compressor operation;
- black box function;
  - Power supply [V/f/Hz]: 400/3~/50 ±5%.

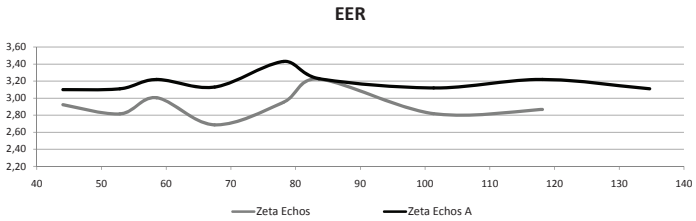
CONTROL AND SAFETY DEVICES
- cooled water temperature control probe (on evaporator intake);
- anti-freeze probe on evaporator outtake;
- manual reset high pressure controller;
- controlled manual reset low pressure switch;
- high pressure safety valve;
- compressor overtemperature protection;
- fan overtemperature protection;
- vane actuated mechanical flow switch (supplied as standard)

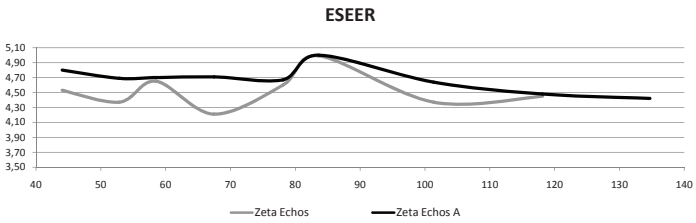
TESTING
The units are factory-tested and supplied complete with oil and refrigerant.

VERSIONS
Check the table with the available configurations for any interferences between one option and the other.

OXFORD A:

high performance unit
OXFORD Class A carries the hallmark of energy-saving thanks to an EER of the chiller operation always greater than 3.1! There are 9 sizes available, with a capacity range from 44 to 135 kW, classified in full compliance with the regulations set by EUROVENT as high energy efficiency class. The diagram below describes the increase of energy efficiency of the OXFORD range, at 100% charge (EER) and partial charge (ESEER), according to the EUROVENT provisions.





OXFORD /HP:
reversible heat pump

Beside the basic version components, the unit comprises:

- 4-way reversing valve;
- fluid collector;
- a second thermostatic valve;
- solenoid valve on fluid line;
- enablement of summer/winter mode switching and automatic defrosting via microprocessor, with a Blue Box patented logic, which ensures optimal activation and duration of defrosting operations.

OXFORD /LE:
motocondensing unit

In addition to the basic version, this unit has no evaporator and thermostatic valve fitted.. The fluid receptors can be supplied as accessories. The solenoid valve on the fluid line is supplied as standard. The unit is supplied without refrigerant charge.

OXFORD /LE /HP:
heat pump motocondensing unit

In addition to the basic version OXFORD/HP, this unit has no evaporator and thermostatic valves fitted. The solenoid valve on the fluid line is supplied as standard. The unit is supplied without refrigerant charge.

HYDRAULIC SYSTEM OPTIONS

OXFORD /ST 2PS
unit with pumps and tank

Beside the basic version components, the unit comprises:

- insulated storage tank;
- two circulation pumps of which one in stand-bye mode, with automatic switch in case of failure;
- expansion vessel;
- check valve:
- gate valves.

The ST version is available in four additional configurations:

- ST 1PS: unit with pump and tank;
- ST 1P: unit with single pump without tank;
- ST 2P: with 2 pumps without tanks;
- ST S: with tank without pumps.

ACCESSORY VERSIONS

OXFORD /DC
unit with recovery condenser

Beside the basic version components, the unit comprises a recovery condenser on each cooling circuit (recoverying 100% of the condensing heat for the production of hot water) and a fluid receptor. The condenser is brazed plate type. The accessory is available for sizes from 3.2-13.2 "1p-2p" and for all models without hydraulic module; is not available for the HP models. The control automaticaly enables the recovery function, depending on water temperature, and controls its safety desablement in case of high pressure. For maximum benefit use the accessory combined with the circuit regulator. The accessory is available for all models. It is not available for the HP version.

OXFORD /DS
unit with desuperheater

Beside the basic version components, the unit comprises a brazed plate recovery condenser on each cooling circuit (recoverying 20 % of the condensate, connected in series with the condenser coil). The accessory is available for models from 3.2 to 13.2 with "1P-2P" and for all models without hydraulic module.

For maximum benefit use the accessory combined with the circuit regulator.

This version is also available for HP outfit. In this case, the system must be equipped with a shut-off valve on the water recovery line during the HP mode operation, as shown in the manual.

OXFORD /LN
low-noise unit

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

OXFORD /SLN
super low-noise unit

beside the /LN version components, the coil surface is larger, fans have reduced speed and a turn regulator.

ACCESSORIES

REFRIGERANT CIRCUIT ACCESSORIES

- Electronic thermostatic valve;
- Condensing pressure controlled by operation circuit regulator with low external temperatures;
- Double set point (high/low temperature) with a single electronic expansion valve. The evaporator is sized according to

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 switches are available for all models;
- Fluid receptors (supplied as standard for HP, HP/LE and DC, DC/LE versions);
- Intake and delivery valves on compressor line;
- Solenoid valve on fluid line (supplied as standard for HP and HP/LE and LE versions);
- Low water temperature kit.

HYDRAULIC CIRCUIT ACCESSORIES

- Defroster for the evaporator (the ST version is equipped with an antifreeze resistance on the tank, piping system and on the pump spiral, which is insulated for this reason) and on any recovery heat exchanger;
- Water side safety valve (ST version only). The valve calibration value is 6 bar, which corresponds to the maximum allowed operating pressure.

ELECTRICAL ACCESSORIES

- Serial interface RS485 suited for Carel and Modbus protocols;
- Power factor correction cos□ ≥ 0.9 under nominal operating conditions; on the external board in IP 55 (power supply connected by the installer directly on the main). The accessory is combined with dry contacts;
- Remote user terminal (in addition to the standard one);
- Dry contacts.

MISCELLANEOUS ACCESSORIES

- Rubber antivibration mounts;
- Copper/copper condensation coil;
- Copper/tinned-copper condensation coil;
- 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, from industrial to urban areas;
- Packaging in wooden crates;
- Special pallet/skid for container shipment;
- Non-standard "RAL" paint colours.

DOUBLE SET-POINT

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

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

EC FANS

Units can be coupled to the innovative direct current EC axial fans with electronically commutated brushless motor.

These motors with permanent magnets rotor ensure a high level of efficiency for all work conditions and allow to obtain a 15% saving per fan.

Moreover, through a 0-10V analogical signal sent to every fan, the microprocessor allows to control the condensation through continuous air flow regulations on variation of the outdoor air temperature and a consequent sound emission reduction

"BRINE KIT" ACCESSORY

It is applied if the evaporator output temperature is included within +3°C and -8°C. It consists in a higher thermal insulation of the exchanger and piping, a specific calibration of the low pressure switches and of the anti-freeze alarm, and dimensioning check of the mechanical thermostatic valve.

If it is not included in the set-up, the "Check condensation" accessory must be added.

ELECTRONIC THERMOSTATIC VALVE

The use of this accessory is particularly indicated for units that operate in very unstable heat load conditions or in unstable functional mode, as in the case of joint management of air conditioning and production of high temperature water. Use of the electronic thermostatic valve in fact allows to:

- maximise the heat exchange to the evaporator
- minimise response times on load variation and on operative conditions
- optimise the regulation of the over-heating
- guarantee maximum energy efficiency

SELF-ADAPTABLE REGULATION LOGIC

This function allows the unit control to dynamically vary the outlet water set point according to the stop and functional cycles of the machine: in practice, by increasing and reducing the water outlet temperature, the control avoids that compressor start-ups are too close in time, decreasing the number of peaks and protecting the unit components

SOFT-STARTER

Blue Box units adopt all the required functioning set-ups and logics to minimise peak currents. The Soft-Starter accessory allows a further 40% reduction of normal current peaks, through an electronic control of the electric motor start-up.

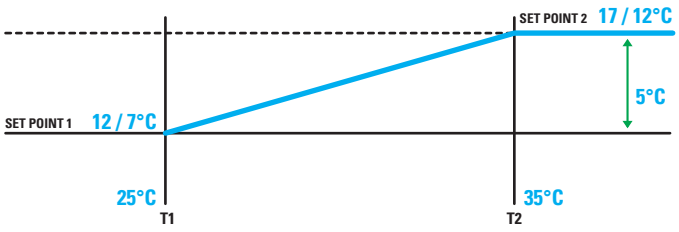
COMPENSATION OF THE SET-POINT to the external air temperature

The unit microprocessor control can compensate the set point in a dynamic way, on variation of the external air temperature. The compensation can be positive or negative: with positive compensation, on increase of the air temperature the functioning set also increases. With negative compensation on increase of the air temperature the set decreases. Compensation

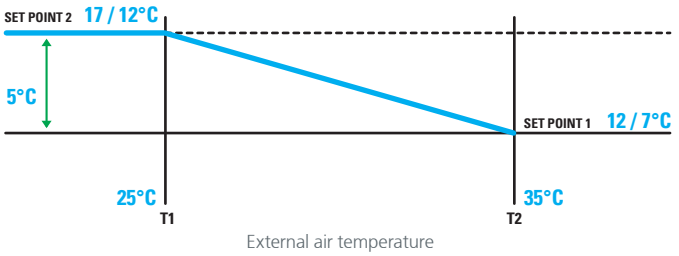
can be made either on the summer set point or on the winter set point (heat pumps).

By default, both summer and winter negative compensation is set, but this configuration can be modified from the microprocessor keyboard. Unless otherwise specified, default values are indicated in the graphics below.

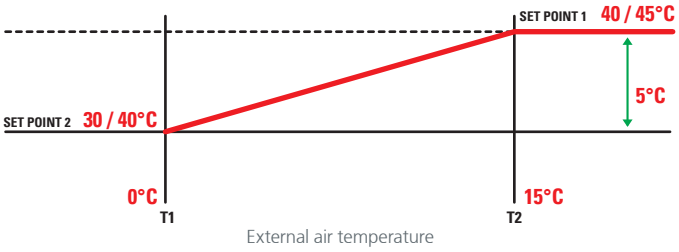
SUMMER COMPENSATION-POSITIVE



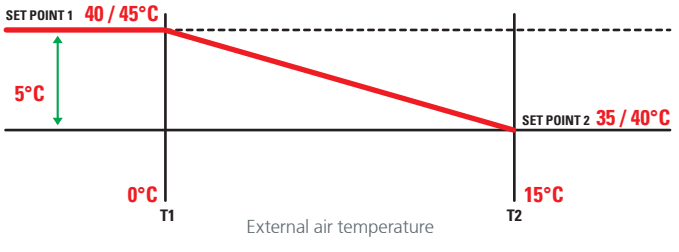
SUMMER COMPENSATION-NEGATIVE



WINTER COMPENSATION-POSITIVE



WINTER COMPENSATION-NEGATIVE



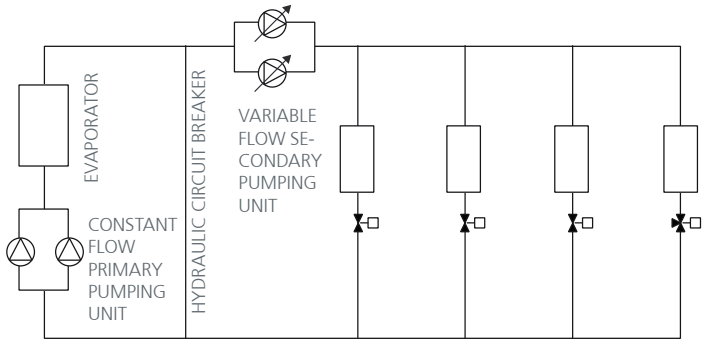
INVERTER DRIVEN PUMP (PER ST1P/S O ST2P/S)

Energy savings:

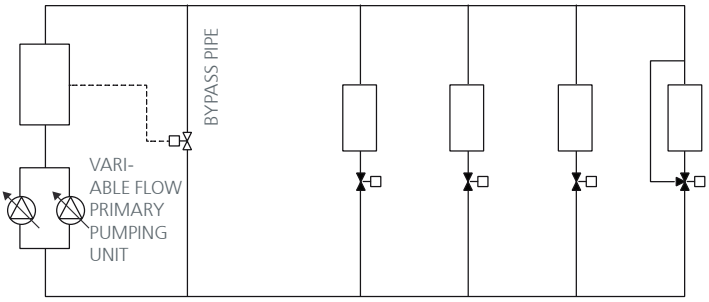
Variable flow pumps have become more widespread over the years to optimise air conditioning and cooling systems. Thanks to the Inverter Driven Pump, Blue Box offers an alternative method that differs from conventional layouts: a constant flow primary pump and a variable flow secondary pump

Let's compare the two solutions:

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



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



Benefits of the Inverter Driven Pump:

Saving a set of pumps

Reduced overall dimensions of the machines' housings

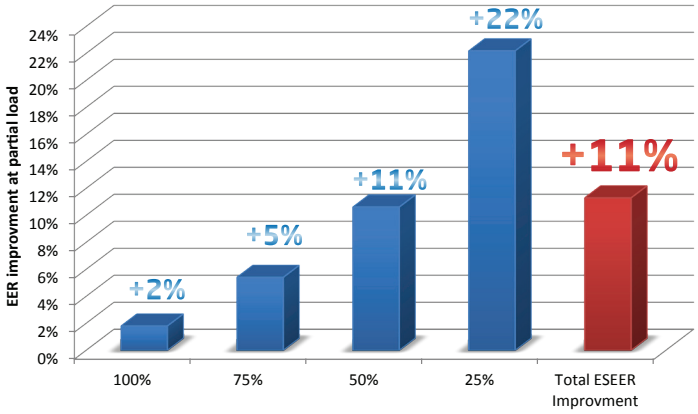
Lower piping costs

Reduced pressure drops

Greater energy efficiency on the pump side

As we can see from the graph under EUROVENT conditions,

the systems in the diagrams have higher efficiency under part-load conditions, considering the energy consumed by the pumps as well as by the chiller (compressors plus fans)

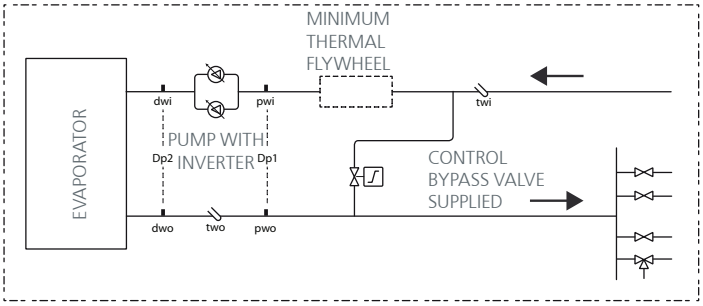


Energy savings in these conditions can be as high as 11% per year and sometimes even more!

Inverter Driven Pump operating logic:

Dp1: System side pressure drops

Dp2: Evaporator pressure drops



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

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

Key points for a variable flow primary system:

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

1) Minimum water flow and bypass valve supplied:

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

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

2) "Minimum thermal flywheel":

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

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

Below is the formula to determine it:

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

P_0 Machine overall chilling power [kW]

N : Inverse of the unit's minimum partialisation

k : parameter [l/kW]

Scroll compressors		2	3	4	5	6	7	8	9	10	12
k	[l/kW]	17.4	13	13.9	17.4	16.3	15.3	14.8	14.6	13.9	13.4
N		2	3	4	5	6	7	8	9	10	12

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

However, it is advisable to use three-way valves on a certain number of utilities on the system to ensure a minimum flow of water towards the system in any condition.

Please note: if this accessory is installed, the minimum cold water temperature at the outlet cannot drop below 7°C. Moreover, the temperature variation considered under the conditions specified in the project must be 5°C. Please contact our sales department for the minimum water temperature at the outlet (production of cold water) and for different temperature drop values.

You should also contact the sales department in the event of production of hot water for water temperatures at the outlet below 40°C.

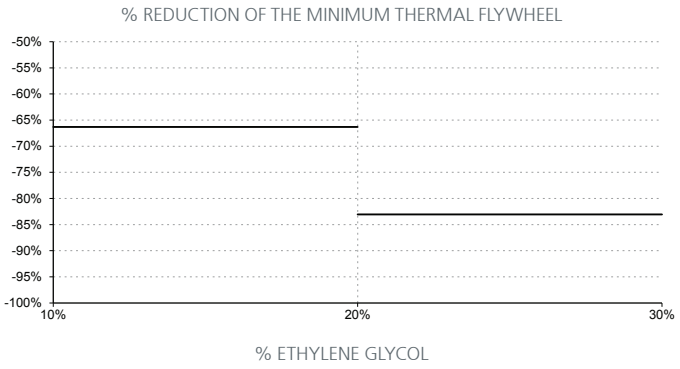
Attention: the "minimum thermal flywheel" must be between the bypass valve and the evaporator. This is a part of the "minimum water content of the system" described in the relative chapter; the difference between the "minimum water content of the system" and the "minimum thermal flywheel" can instead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

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

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

the curves below

For scroll compressors:



If the unit is in heat pump mode, the “minimum thermal fly-wheel” is not reduced even if there is glycol.

OXFORD - TECHNICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2
Cooling (Gross values)							
Nominal cooling capacity	(1)	kW	40,9	45,9	51,8	60,4	66,8
Total power input for cooling	(1),(2)	kW	13,6	15,7	18,4	20,1	24,9
EER	(1)		3,01	2,92	2,82	3,00	2,69
ESEER			4,67	4,53	4,37	4,65	4,21
Efficiency class			B	B	C	B	D
Cooling (EN 14511 values)							
Nominal cooling capacity	(1),(8)	kW	40,5	45,5	51,4	60,0	66,4
EER	(1),(8)		2,90	2,83	2,74	2,92	2,64
ESEER	(8)		4,24	4,14	4,00	4,26	4,01
Efficiency class			C	C	C	B	D
Heating (Gross values)							
Nominal heating capacity	(3)	kW	41,6	47,4	55,5	63,4	71,0
Total power input for heating	(2),(3)	kW	14,2	16,2	18,7	20,8	25,1
COP	(3)		2,93	2,93	2,97	3,05	2,83
Efficiency class			C	C	C	B	C
Heating (EN 14511 values)							
Nominal heating capacity	(3),(8)	kW	42,0	47,8	55,9	63,8	71,3
COP	(3),(8)		2,88	2,88	2,93	3,01	2,81
Efficiency class			C	C	C	B	C
Compressors							
Type					Scroll		
Quantity/Cooling circuits		n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps		n°	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100
Total oil load		kg	5,2	6,5	6,5	6,5	6,6
Total refrigerant load (CH version)		kg	6,7	6,8	9	15,8	16
Total refrigerant load (/HP version)		kg	14,8	14,9	17	18,4	18,6
Fans							
Type					Axial		
Quantity		n°	2	2	2	2	2
Air flow		m3/h	17.000	17.000	15.000	19.000	19.000
Evaporator							
Type					With plates		
Quantity		n°	1	1	1	1	1
Water flow		l/h	7034	7893	8908	10387	11481
Pressure drop		kPa	65,0	55,7	54,8	51,1	35,5
Hydraulic module							
Head ratings	(6)	kPa	127	108	105	153	149
Storage tank capacity	(6)	l	165	165	165	200	200
Expansion vessel		l	5	5	5	18	18
Noise levels							
Noise power level (basic version)	(4)	dB(A)	83	83	83	83	84
Noise pressure level (basic unit)	(5)	dB(A)	51	51	51	51	52
Noise power level (LN version)	(4)	dB(A)	81	81	81	81	82
Noise pressure level (LN version)	(5)	dB(A)	49	49	49	49	50
Basic version dimensions and weights							
Length		mm	1.750	1.750	1.750	2.233	2.233
Depth		mm	1.003	1.003	1.003	1.020	1.020
Height		mm	1.400	1.400	1.400	1.738	1.738
Operating weight		kg	428	439	453	631	631

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C
(2)The total capacity is represented by the sum of the power absorbed by compressors and that absorbed by fans
(3)External air temperature 7°C BS, 6°C BU; condenser ingoing-outgoing water temperature 40-45 °C
(4)Noise power levels measured according to ISO 3744, under nominal operating conditions.
(5)Sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.
(6)For ST 2PS version
(8)Values in compliance with EN 14511-3:2011

OXFORD - TECHNICAL DATA

UNIT SIZE			8.2	9.2	10.2	12.2	13.2
Cooling (Gross values)							
Nominal cooling capacity	(1)	kW	83,5	93,7	104,0	117,0	125,0
Total power input for cooling	(1),(2)	kW	25,9	31,3	36,9	40,8	45,5
EER	(1)		3,22	2,99	2,82	2,87	2,75
ESEER			4,99	4,63	4,37	4,45	4,26
Efficiency class			A	B	C	C	C
Cooling (EN 14511 values)							
Nominal cooling capacity	(1),(8)	kW	83,0	93,1	103,4	116,4	124,4
EER	(1),(8)		3,14	2,92	2,76	2,81	2,70
ESEER	(8)		4,58	4,25	4,03	4,09	3,93
Efficiency class			A	B	C	C	D
Heating (Gross values)							
Nominal heating capacity	(3)	kW	83,9	97,0	112,0	127,0	139,0
Total power input for heating	(2),(3)	kW	27,9	32,6	36,7	42,8	46,0
COP	(3)		3,01	2,98	3,05	2,97	3,02
Efficiency class			B	C	B	C	B
Heating (EN 14511 values)							
Nominal heating capacity	(3),(8)	kW	84,4	97,6	112,6	127,7	139,7
COP	(3),(8)		2,97	2,94	3,02	2,94	2,99
Efficiency class			C	C	B	C	C
Compressors							
Type					Scroll		
Quantity/Cooling circuits		n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps		n°	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100
Total oil load		kg	6,2	12,4	12,4	12,4	14,2
Total refrigerant load (CH version)		kg	23,2	23,4	23,6	23,7	23,9
Total refrigerant load (/HP version)		kg	25,7	25,8	26	26	26
Fans							
Type					Axial		
Quantity		n°	3	3	3	2	2
Air flow		m3/h	28.500	28.500	28.500	36.000	36.000
Evaporator							
Type					With plates		
Quantity		n°	1	1	1	1	1
Water flow		l/h	14359	16113	17885	20120	21496
Pressure drop		kPa	49,4	50,6	46,0	48,8	45,1
Hydraulic module							
Head ratings	(6)	kPa	123	143	130	124	108
Storage tank capacity	(6)	l	450	450	450	450	450
Expansion vessel		l	18	18	18	18	18
Noise levels							
Noise power level (basic version)	(4)	dB(A)	85	86	86	87	87
Noise pressure level (basic unit)	(5)	dB(A)	53	54	54	55	55
Noise power level (LN version)	(4)	dB(A)	83	84	84	85	85
Noise pressure level (LN version)	(5)	dB(A)	51	52	52	53	53
Basic version dimensions and weights							
Length		mm	3.234	3.234	3.234	3.233	3.233
Depth		mm	1.144	1.144	1.144	1.120	1.120
Height		mm	1.740	1.740	1.740	1.882	1.882
Operating weight		kg	911	920	935	1.077	1.120

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C
(2)The total capacity is represented by the sum of the power absorbed by compressors and that absorbed by fans
(3)External air temperature 7°C BS, 6°C BU; condenser ingoing-outgoing water temperature 40-45 °C
(4)Noise power levels measured according to ISO 3744, under nominal operating conditions.
(5)Sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.
(6)For ST 2PS version
(8)Values in compliance with EN 14511-3:2011

OXFORD SLN - TECHNICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2
Cooling (Gross values)							
Nominal cooling capacity	(1)	kW	40,9	45,9	51,8	60,4	66,8
Total power input for cooling	(1),(2)	kW	13,6	15,7	18,4	20,1	24,9
EER	(1)		3,01	2,92	2,82	3,00	2,69
ESEER			4,67	4,53	4,37	4,65	4,21
Efficiency class			B	B	C	B	D
Cooling (EN 14511 values)							
Nominal cooling capacity	(1),(8)	kW	40,5	45,5	51,4	60,0	66,4
EER	(1),(8)		2,90	2,83	2,74	2,92	2,64
ESEER	(8)		4,24	4,14	4,00	4,26	4,01
Efficiency class			C	C	C	B	D
Heating (Gross values)							
Nominal heating capacity	(3)	kW	41,6	47,4	55,5	63,4	71,0
Total power input for heating	(2),(3)	kW	14,2	16,2	18,7	20,8	25,1
COP	(3)		2,93	2,93	2,97	3,05	2,83
Efficiency class			C	C	C	B	C
Heating (EN 14511 values)							
Nominal heating capacity	(3),(8)	kW	42,0	47,8	55,9	63,8	71,3
COP	(3),(8)		2,88	2,88	2,93	3,01	2,81
Efficiency class			C	C	C	B	C
Compressors							
Type					Scroll		
Quantity/Cooling circuits		n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps		n°	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100
Total oil load		kg	6	6,6	6,6	6,6	6,6
Total refrigerant load (CH version)		kg	6,7	6,8	9	15,8	16
Total refrigerant load (/HP version)		kg	14,8	14,9	17	18,4	18,6
Fans							
Type					Axial		
Quantity		n°	2	2	2	3	3
Air flow		m3/h	17.000	17.000	15.000	19.000	19.000
Evaporator							
Type					With plates		
Quantity		n°	1	1	1	1	1
Water flow		l/h	7034	7893	8908	10387	11481
Pressure drop		kPa	65,0	55,7	54,8	51,1	35,5
Hydraulic module							
Head ratings	(6)	kPa	127	108	105	108	104
Storage tank capacity	(6)	l	165	165	165	200	200
Expansion vessel		l	5	5	5	18	18
Noise levels							
Noise power leve	(4)	dB(A)	76	77	78	78	79
Noise pressure level	(5)	dB(A)	44	45	46	46	47
Basic version dimensions and weights							
Length		mm	1750	1750	2233	3234	3234
Depth		mm	1003	1003	1020	1144	1144
Height		mm	1400	1400	1738	1740	1740
Operating weight		kg	428	439	628	819	846

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C
(2)The total capacity is represented by the sum of the power absorbed by compressors and that absorbed by fans
(3)External air temperature 7°C BS, 6°C BU; condenser ingoing-outgoing water temperature 40-45 °C
(4)Noise power levels measured according to ISO 3744, under nominal operating conditions.
(5)Sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.
(6)For ST 2PS version
(8)Values in compliance with EN 14511-3:2011

OXFORD SLN - TECHNICAL DATA

UNIT SIZE			8.2	9.2	10.2	12.2	13.2
Cooling (Gross values)							
Nominal cooling capacity	(1)	kW	83,5	93,7	104,0	117,0	125,0
Total power input for cooling	(1),(2)	kW	25,9	31,3	36,9	40,8	45,5
EER	(1)		3,22	2,99	2,82	2,87	2,75
ESEER			4,99	4,63	4,37	4,45	4,26
Efficiency class			A	B	C	C	C
Cooling (EN 14511 values)							
Nominal cooling capacity	(1),(8)	kW	83,0	93,1	103,4	116,4	124,4
EER	(1),(8)		3,14	2,92	2,76	2,81	2,70
ESEER	(8)		4,58	4,25	4,03	4,09	3,93
Efficiency class			A	B	C	C	D
Heating (Gross values)							
Nominal heating capacity	(3)	kW	83,9	97,0	112,0	127,0	139,0
Total power input for heating	(2),(3)	kW	27,9	32,6	36,7	42,8	46,0
COP	(3)		3,01	2,98	3,05	2,97	3,02
Efficiency class			B	C	B	C	B
Heating (EN 14511 values)							
Nominal heating capacity	(3),(8)	kW	84,4	97,6	112,6	127,7	139,7
COP	(3),(8)		2,97	2,94	3,02	2,94	2,99
Efficiency class			C	C	B	C	C
Compressors							
Type					Scroll		
Quantity/Cooling circuits		n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps		n°	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100
Total oil load		kg	13,4	13,4	13,4	13,4	13,4
Total refrigerant load (CH version)		kg	23,2	23,4	23,6	23,7	23,9
Total refrigerant load (/HP version)		kg	25,7	25,8	26	26	26
Fans							
Type					Axial		
Quantity		n°	2	2	2	2	2
Air flow		m3/h	28.500	28.500	28.500	36.000	36.000
Evaporator							
Type					With plates		
Quantity		n°	1	1	1	1	1
Water flow		l/h	14359	16113	17885	20120	21496
Pressure drop		kPa	49,4	50,6	46,0	48,8	45,1
Hydraulic module							
Head ratings	(6)	kPa	123	143	130	124	108
Storage tank capacity	(6)	l	450	450	450	450	450
Expansion vessel		l	18	18	18	18	18
Noise levels							
Noise power leve	(4)	dB(A)	80	81	82	82	83
Noise pressure level	(5)	dB(A)	48	49	50	50	51
Basic version dimensions and weights							
Length		mm	3233	3233	3233	3233	3233
Depth		mm	1120	1120	1120	1120	1120
Height		mm	1882	1882	1882	1882	1882
Operating weight		kg	1136	1144	1156	1196	1238

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C
(2)The total capacity is represented by the sum of the power absorbed by compressors and that absorbed by fans
(3)External air temperature 7°C BS, 6°C BU; condenser ingoing-outgoing water temperature 40-45 °C
(4)Noise power levels measured according to ISO 3744, under nominal operating conditions.
(5)Sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.
(6)For ST 2PS version
(8)Values in compliance with EN 14511-3:2011

OXFORD /LE - TECHNICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2
Cooling							
Nominal cooling capacity	(1)	kW	45,9	51,5	59,1	70,1	76,39
Total absorbed power in cooling mode	(1),(2)	kW	13,78	15,98	18,88	20,58	25,1
EER	(1)		3,33	3,22	3,13	3,41	3,04
Heating							
Nominal heating capacity	(3)	kW	43,1	49,3	57,7	66,4	71,99
Total absorbed power in heating mode	(2),(3)	kW	10,98	12,28	14,08	16,18	20,02
COP	(3)		3,93	4,01	4,10	4,10	3,60
Compressors							
Type					Scroll		
Quantity/Cooling circuits		n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps		n°	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100
Total oil load		kg	5,2	6,5	6,5	6,5	6,6
Fans							
Type					Axial		
Quantity		n°	2	2	2	2	2
Air flow		m3/h	17.000	17.000	15.000	19.000	19.000
Noise levels							
Noise power level (basic version)	(4)	dB(A)	83	83	83	83	84
Noise pressure level (basic unit)	(5)	dB(A)	51	51	51	51	52
Noise power level (LN version)	(4)	dB(A)	81	81	81	81	82
Noise pressure level (LN version)	(5)	dB(A)	49	49	49	49	50
Noise power level (SLN version)	(4)	dB(A)	76	77	78	78	79
Noise pressure level (SLN version)	(5)	dB(A)	44	45	46	46	47
Basic version dimensions and weights							
Length		mm	1.750	1.750	1.750	2.233	2.233
Depth		mm	1.003	1.003	1.003	1.020	1.020
Height		mm	1.400	1.400	1.400	1.738	1.738
Operating weight		kg	411	419	432	598	598

(1)External air temperature 35°C; evaporation temperature 7.5°C
(2)The total capacity is represented by the sum of the power absorbed by compressors and that absorbed by fans
(3)External air temperature 8°C, 70% UR; condensation temperature 40°C
(4)Noise power levels measured according to ISO 3744, under nominal operating conditions.
(5)Sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.

OXFORD /LE - TECHNICAL DATA

UNIT SIZE			8.2	9.2	10.2	12.2	13.2
Cooling							
Nominal cooling capacity	(1)	kW	92,3	104,7	117,2	134,3	144,4
Total absorbed power in cooling mode	(1),(2)	kW	26,07	31,77	37,97	42,2	47,4
EER	(1)		3,54	3,30	3,09	3,18	3,05
Heating							
Nominal heating capacity	(3)	kW	87,4	100,7	116,6	131,4	143,7
Total absorbed power in heating mode	(2),(3)	kW	21,97	25,27	28,67	34,1	37,2
COP	(3)		3,98	3,98	4,07	3,85	3,86
Compressors							
Type					Scroll		
Quantity/Cooling circuits		n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps		n°	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100
Total oil load		kg	13,4	13,4	13,4	13,4	13,4
Fans							
Type					Axial		
Quantity		n°	3	3	3	2	2
Air flow		m3/h	28.500	28.500	28.500	36.000	36.000
Noise levels							
Noise power level (basic version)	(4)	dB(A)	85	86	86	87	87
Noise pressure level (basic unit)	(5)	dB(A)	53	54	54	55	55
Noise power level (LN version)	(4)	dB(A)	83	84	84	85	85
Noise pressure level (LN version)	(5)	dB(A)	51	52	52	53	53
Noise power level (SLN version)	(4)	dB(A)	80	81	82	82	83
Noise pressure level (SLN version)	(5)	dB(A)	48	49	50	50	51
Basic version dimensions and weights							
Length		mm	3233	3233	3233	3233	3233
Depth		mm	1120	1120	1120	1120	1120
Height		mm	1738	1738	1738	1882	1882
Operating weight		kg	875	883	889	1033	1071

(1)External air temperature 35°C; evaporation temperature 7.5°C
(2)The total capacity is represented by the sum of the power absorbed by compressors and that absorbed by fans
(3)External air temperature 8°C, 70% UR; condensation temperature 40°C
(4)Noise power levels measured according to ISO 3744, under nominal operating conditions.
(5)Sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.

OXFORD /LE - TECHNICAL DATA

UNIT SIZE			15.2	16.2	14.4	16.4	18.4
Cooling							
Nominal cooling capacity	(1)	kW	160,8	169,4	150,2	172,1	210,1
Total absorbed power in cooling mode	(1),(2)	kW	56,9	62,8	52,2	57,1	65,1
EER	(1)		2,83	2,70	2,88	3,01	3,23
Heating							
Nominal heating capacity	(3)	kW	154,7	163,4	146,9	169,1	209
Total absorbed power in heating mode	(2),(3)	kW	45,4	48,4	41,7	44,4	53,1
COP	(3)		3,41	3,38	3,52	3,81	3,94
Compressors							
Type					Scroll		
Quantity/Cooling circuits		n°/n°	2 / 1	2 / 1	4 / 2	4 / 2	4 / 2
Capacity steps		n°	0-50-100	0-50-100	0-25-50-75-100	0-25-50-75-100	0-25-50-75-100
Total oil load		kg	14	14,5	14	16	24,8
Fans							
Type					Axial		
Quantity		n°	2	2	2	2	3
Air flow		m3/h	40.000	40.000	40.000	40.000	60.000
Noise levels							
Noise power level (basic version)	(4)	dB(A)	89	89	90	90	91
Noise pressure level (basic unit)	(5)	dB(A)	57	57	58	58	59
Noise power level (LN version)	(4)	dB(A)	86	86	88	88	89
Noise pressure level (LN version)	(5)	dB(A)	54	54	56	56	57
Noise power level (SLN version)	(4)	dB(A)	84	84	86	86	87
Noise pressure level (SLN version)	(5)	dB(A)	52	52	54	54	55
Basic version dimensions and weights							
Length		mm	3.233	3.233	3.233	3.240	4.240
Depth		mm	1.120	1.120	1.120	1.120	1.120
Height		mm	2.382	2.382	2.382	2.382	2.382
Operating weight		kg	1.300	1.390	1.298	1.358	1.678

(1)External air temperature 35°C; evaporation temperature 7.5°C
(2)The total capacity is represented by the sum of the power absorbed by compressors and that absorbed by fans
(3)External air temperature 8°C, 70% UR; condensation temperature 40°C
(4)Noise power levels measured according to ISO 3744, under nominal operating conditions.
(5)Sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.

OXFORD /LE - TECHNICAL DATA

UNIT SIZE			20.4	24.4	26.4	30.4	33.4
Cooling							
Nominal cooling capacity	(1)	kW	237,3	263,5	285,1	309,1	344,31
Total absorbed power in cooling mode	(1),(2)	kW	75,8	86,2	97,1	116	125,4
EER	(1)		3,13	3,06	2,94	2,66	2,75
Heating							
Nominal heating capacity	(3)	kW	237,3	255,9	282,5	304,7	328
Total absorbed power in heating mode	(2),(3)	kW	59,9	68,1	74,5	90,7	98,8
COP	(3)		3,96	3,76	3,79	3,36	3,32
Compressors							
Type					Scroll		
Quantity/Cooling circuits		n°/n°	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Capacity steps		n°	0-25-50-75-100	0-25-50-75-100	0-25-50-75-100	0-25-50-75-100	0-25-50-75-100
Total oil load		kg	24,8	28,4	32	28	29
Fans							
Type					Axial		
Quantity		n°	3	4	4	4	5
Air flow		m3/h	60.000	70.000	70.000	78.000	90.000
Noise levels							
Noise power level (basic version)	(4)	dB(A)	92	93	93	95	96
Noise pressure level (basic unit)	(5)	dB(A)	60	61	61	63	64
Noise power level (LN version)	(4)	dB(A)	90	91	91	93	94
Noise pressure level (LN version)	(5)	dB(A)	58	59	59	61	62
Noise power level (SLN version)	(4)	dB(A)	88	88	89	91	92
Noise pressure level (SLN version)	(5)	dB(A)	56	56	57	59	60
Basic version dimensions and weights							
Length		mm	4.240	4.240	4.240	5.234	5.234
Depth		mm	1.120	1.120	1.120	1.120	1.120
Height		mm	2.382	2.382	2.382	2.382	2.382
Operating weight		kg	1.698	1.822	1.960	2.278	2.354

(1)External air temperature 35°C; evaporation temperature 7.5°C
(2)The total capacity is represented by the sum of the power absorbed by compressors and that absorbed by fans
(3)External air temperature 8°C, 70% UR; condensation temperature 40°C
(4)Noise power levels measured according to ISO 3744, under nominal operating conditions.
(5)Sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.

OXFORD A - TECHNICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2
Cooling (Gross values)							
Nominal cooling capacity	(1)	kW	45,6	54,2	58,5	69,1	78,1
Total power input for cooling	(1),(2)	kW	14,3	17,1	18,2	21,8	22,8
EER	(1)		3,19	3,17	3,21	3,17	3,43
ESEER			4,68	4,69	4,70	4,71	4,67
Efficiency class			A	A	A	A	A
Cooling (EN 14511 values)							
Nominal cooling capacity	(1),(8)	kW	45,3	54,0	58,2	68,8	77,7
EER	(1),(8)		3,11	3,11	3,13	3,12	3,35
ESEER	(8)		4,38	4,43	4,40	4,47	4,39
Efficiency class			A	A	A	A	A
Heating (Gross values)							
Nominal heating capacity	(3)	kW	51,3	59,7	66,4	74,5	89,3
Total power input for heating	(2),(3)	kW	13,8	16,0	17,8	20,4	23,8
COP	(3)		3,72	3,74	3,74	3,66	3,76
Efficiency class			A	A	A	A	A
Heating (EN 14511 values)							
Nominal heating capacity	(3),(8)	kW	51,7	60,0	66,9	74,8	89,8
COP	(3),(8)		3,65	3,69	3,67	3,62	3,70
Efficiency class			A	A	A	A	A
Compressors							
Type					Scroll		
Quantity/Cooling circuits		n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps		n°	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100
Total oil load		kg	6	6,6	6,6	6,6	6,6
Total refrigerant load (CH version)		kg	6,7	6,8	9	15,8	16
Total refrigerant load (/HP version)		kg	14,8	14,9	17	18,4	18,6
Fans							
Type					Axial		
Quantity		n°	2	2	2	2	3
Air flow		m3/h	15.000	15.000	19.000	19.000	28.500
Evaporator							
Type					With plates		
Quantity		n°	1	1	1	1	1
Water flow		l/h	7574	9089	10064	11604	13431
Pressure drop		kPa	44,0	34,0	43,0	28,0	38,0
Hydraulic module							
Head ratings	(6)	kPa	135	121	169	171	142
Storage tank capacity	(6)	l	165	165	200	200	200
Expansion vessel		l	5	5	18	18	18
Noise levels							
Noise power level (basic version)	(4)	dB(A)	80	80	81	81	82
Noise pressure level (basic unit)	(5)	dB(A)	48	48	49	49	50
Noise power level (LN version)	(4)	dB(A)	78	78	79	79	80
Noise pressure level (LN version)	(5)	dB(A)	46	46	47	47	48
Basic version dimensions and weights							
Length		mm	1.750	1.750	2.233	2.233	3.234
Depth		mm	1.003	1.003	1.020	1.020	1.144
Height		mm	1.400	1.400	1.738	1.738	1.740
Operating weight		kg	467	486	673	695	883

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C
(2)The total capacity is represented by the sum of the power absorbed by compressors and that absorbed by fans
(3)External air temperature 7°C BS, 6°C BU; condenser ingoing-outgoing water temperature 40-45 °C
(4)Noise power levels measured according to ISO 3744, under nominal operating conditions.
(5)Sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.
(6)For ST 2PS version
(8)Values in compliance with EN 14511-3:2011

OXFORD A - TECHNICAL DATA

UNIT SIZE			8.2	9.2	10.2	12.2
Cooling (Gross values)						
Nominal cooling capacity	(1)	kW	83,6	104,5	118,1	138,0
Total power input for cooling	(1),(2)	kW	25,9	32,8	36,6	43,5
EER	(1)		3,23	3,19	3,23	3,17
ESEER			5,00	4,64	4,48	4,42
Efficiency class			A	A	A	A
Cooling (EN 14511 values)						
Nominal cooling capacity	(1),(8)	kW	83,1	104,0	117,5	137,5
EER	(1),(8)		3,16	3,12	3,15	3,13
ESEER	(8)		4,68	4,31	4,16	4,19
Efficiency class			A	A	A	A
Heating (Gross values)						
Nominal heating capacity	(3)	kW	99,2	114,6	135,5	151,5
Total power input for heating	(2),(3)	kW	27,1	33,5	38,1	42,1
COP	(3)		3,67	3,42	3,56	3,60
Efficiency class			A	A	A	A
Heating (EN 14511 values)						
Nominal heating capacity	(3),(8)	kW	99,8	115,2	136,4	152,1
COP	(3),(8)		3,61	3,38	3,50	3,56
Efficiency class			A	A	A	A
Compressors						
Type				Scroll		
Quantity/Cooling circuits		n°/n°	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps		n°	0-50-100	0-50-100	0-50-100	0-50-100
Total oil load		kg	6,2	12,4	12,4	12,4
Total refrigerant load (CH version)		kg	23,2	23,4	23,6	23,7
Total refrigerant load (/HP version)		kg	25,7	25,8	26	26
Fans						
Type				Axial		
Quantity		n°	3	2	2	2
Air flow		m3/h	28.500	36.000	40.000	40.000
Evaporator						
Type				With plates		
Quantity		n°	1	1	1	1
Water flow		l/h	14378	17422	20316	23164
Pressure drop		kPa	43,0	51,0	52,0	30,0
Hydraulic module						
Head ratings	(6)	kPa	126	135	126	128
Storage tank capacity	(6)	l	450	450	450	450
Expansion vessel		l	18	18	18	18
Noise levels						
Noise power level (basic version)	(4)	dB(A)	85	85	86	86
Noise pressure level (basic unit)	(5)	dB(A)	53	53	54	54
Noise power level (LN version)	(4)	dB(A)	83	83	84	84
Noise pressure level (LN version)	(5)	dB(A)	51	51	52	52
Basic version dimensions and weights						
Length		mm	3234	3233	3233	3233
Depth		mm	1144	1120	1120	1120
Height		mm	1740	1882	2382	2382
Operating weight		kg	953	1018	1192	1250

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C
(2)The total capacity is represented by the sum of the power absorbed by compressors and that absorbed by fans
(3)External air temperature 7°C BS, 6°C BU; condenser ingoing-outgoing water temperature 40-45 °C
(4)Noise power levels measured according to ISO 3744, under nominal operating conditions.
(5)Sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.
(6)For ST 2PS version
(8)Values in compliance with EN 14511-3:2011

OXFORD - ELECTRICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2
Maximum absorbed power	(1),(3)	kW	19,18	21,38	25,18	27,58	31,94
			(20,08)	(22,28)	(26,08)	(29,08)	(33,44)
Maximum absorbed current	(2),(3)	A	38,1	45,1	48,3	54,7	59,3
			(40,7)	(47,7)	(50,9)	(58,2)	(62,8)
Maximum input current	(4)	A	117,1	136,6	145,2	148,3	190,7
			(118)	(137,5)	(146,1)	(149,8)	(192,2)
Maximum input current with soft-starter	(4)	A	81,2	90,0	97,5	99,8	115,4
			(83,81)	(92,61)	(100,11)	(102,5)	(118,1)
Fan nominal power		n° x kW	2 x 0,6	2 x 0,6	2 x 0,6	2 x 0,6	2 x 0,6
Fan nominal current		n° x A	2 x 3,0	2 x 3,0	2 x 3,0	2 x 3,0	2 x 3,0
Pump motor nominal power		kW	0,9	0,9	0,9	1,5	1,5
Pump motor nominal current		A	2,61	2,61	2,61	3,49	3,49
Main power supply		V/ph/Hz	400/3N~/50 ±5%				
Auxilliary power supply		V/ph/Hz	230/1~/50 ±5%				

UNIT SIZE			8.2	9.2	10.2	12.2	13.2
Maximum absorbed power	(1),(3)	kW	38,57	45,07	51,57	59,60	65,40
			(40,07)	(46,92)	(53,42)	(61,80)	(67,60)
Maximum absorbed current	(2),(3)	A	73,1	83,2	93,2	104,2	116,3
			(76,6)	(88,2)	(98,2)	(109,0)	(121,1)
Maximum input current	(4)	A	236,0	256,1	266,1	322,1	322,1
			(237,5)	(257,95)	(267,95)	(324,3)	(324,3)
Maximum input current with soft-starter	(4)	A	143,7	174,3	180,5	207,7	215,8
			(147,19)	(179,28)	(185,48)	(212,48)	(220,58)
Fan nominal power		n° x kW	3 x 0,6	3 x 0,6	3 x 0,6	2 x 2,0	2 x 2,0
Fan nominal current		n° x A	3 x 3,0	3 x 3,0	3 x 3,0	2 x 4,0	2 x 4,0
Pump motor nominal power		kW	1,5	1,85	1,85	2,2	2,2
Pump motor nominal current		A	3,49	4,98	4,98	4,78	4,78
Main power supply		V/ph/Hz	400/3N~/50 ±5%			400/3~/50 ±5%	
Auxilliary power supply		V/ph/Hz	230/1~/50 ±5%			230/1~/50 ±5%	

(1)Electrical power that must be supplied by the mains to power the unit.
(2)Maximum current before safety cut-outs stop the unit. This value is never exceeded and must be used to size the electrical supply cables and relevant safety devices (refer to electrical wiring diagram supplied with the unit)
(3)The values in brackets refer to the ST version unit (with storage tank and pumps or units with pumps only).
(4)Maximum input current calculated considering the power of the compressor with the higher power and the maximum current absorbed by all other devices

OXFORD SLN - ELECTRICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2
Maximum absorbed power	(1),(3)	kW	19,18	21,38	25,18	27,58	31,94
			(20,08)	(22,28)	(26,08)	(28,68)	(33,04)
Maximum absorbed current	(2),(3)	A	35,2	40,8	47,4	52,0	56,8
			(37,8)	(43,4)	(50,0)	(54,7)	(59,5)
Maximum input current	(4)	A	121,6	134,4	144,7	147,0	171,4
			(122,5)	(135,3)	(145,6)	(148,1)	(172,5)
Maximum input current with soft-starter	(4)	A	81,2	90,0	97,5	102,8	118,4
			(83,81)	(92,61)	(100,11)	(105,5)	(121,1)
Fan nominal power		n° x kW	2 x 0,6	2 x 0,6	2 x 0,6	3 x 0,6	3 x 0,6
Fan nominal current		n° x A	2 x 3,0	2 x 3,0	2 x 3,0	3 x 3,0	3 x 3,0
Pump motor nominal power		kW	0,9	0,9	0,9	1,1	1,1
Pump motor nominal current		A	2,61	2,61	2,61	2,7	2,7
Main power supply		V/ph/Hz	400/3N~/50 ±5%				
Auxilliary power supply		V/ph/Hz	230/1~/50 ±5%				

UNIT SIZE			8.2	9.2	10.2	12.2	13.2
Maximum absorbed power	(1),(3)	kW	38,57	45,07	51,57	59,60	65,40
			(40,07)	(46,92)	(53,42)	(61,80)	(67,60)
Maximum absorbed current	(2),(3)	A	69,6	75,8	82,0	89,1	97,2
			(73,1)	(80,8)	(87,0)	(93,9)	(102,0)
Maximum input current	(4)	A	213,3	264,3	270,5	316,5	324,6
			(214,8)	(266,15)	(272,35)	(318,7)	(326,8)
Maximum input current with soft-starter	(4)	A	142,7	142,7	179,5	179,5	215,8
			(146,19)	(147,68)	(184,48)	(184,28)	(220,58)
Fan nominal power		n° x kW	2 x 2,0	2 x 2,0	2 x 2,0	2 x 2,0	2 x 2,0
Fan nominal current		n° x A	2 x 4,0	2 x 4,0	2 x 4,0	2 x 4,0	2 x 4,0
Pump motor nominal power		kW	1,5	1,85	1,85	2,2	2,2
Pump motor nominal current		A	3,49	4,98	4,98	4,78	4,78
Main power supply		V/ph/Hz	400/3~/50 ±5%				
Auxilliary power supply		V/ph/Hz	230/1~/50 ±5%				

(1)Electrical power that must be supplied by the mains to power the unit.
(2)Maximum current before safety cut-outs stop the unit. This value is never exceeded and must be used to size the electrical supply cables and relevant safety devices (refer to electrical wiring diagram supplied with the unit)
(3)The values in brackets refer to the ST version unit (with storage tank and pumps or units with pumps only).
(4)Maximum input current calculated considering the power of the compressor with the higher power and the maximum current absorbed by all other devices

OXFORD/LE - ELECTRICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2
Maximum absorbed power	(1)	n° x kW	19,18	21,38	25,18	27,58	31,94
Maximum absorbed current	(2)	n° x A	38,1	45,1	48,3	54,7	59,3
Maximum startup current	(3)	n° x A	117,1	136,6	145,2	148,3	190,7
Maximum startup current with soft.starter	(3)	n° x A	81,20	90,00	97,50	99,80	115,40
Fan nominal power		kW	2 x 0,6	2 x 0,6	2 x 0,6	2 x 0,6	2 x 0,6
Fan nominal current		A	2 x 3,0	2 x 3,0	2 x 3,0	2 x 3,0	2 x 3,0
Main power supply		V/ph/Hz	400/3N~/50 ±5%				
Auxilliary power supply		V/ph/Hz	230/1~/50 ±5%				

UNIT SIZE			8.2	9.2	10.2	12.2	13.2
Maximum absorbed power	(1)	n° x kW	38,57	45,07	51,57	59,60	65,40
Maximum absorbed current	(2)	n° x A	73,1	83,2	93,2	104,2	116,3
Maximum startup current	(3)	n° x A	236,0	256,1	266,1	322,1	322,1
Maximum startup current with soft.starter	(3)	n° x A	143,70	174,30	180,50	207,70	215,80
Fan nominal power		kW	3 x 0,6	3 x 0,6	3 x 0,6	2 x 2,0	2 x 2,0
Fan nominal current		A	3 x 3,0	3 x 3,0	3 x 3,0	2 x 4,0	2 x 4,0
Main power supply		V/ph/Hz	400/3N~/50 ±5%			400/3~/50 ±5%	
Auxilliary power supply		V/ph/Hz	230/1~/50 ±5%			230/1~/50 ±5%	

OXFORD/LE - ELECTRICAL DATA

UNIT SIZE			15.2	16.2	14.4	16.4	18.4
Maximum absorbed power	(1)	n° x kW	74,00	80,00	70,80	77,60	92,60
Maximum absorbed current	(2)	n° x A	123,7	131,0	114,6	136,3	160,3
Maximum startup current	(3)	n° x A	382,2	389,5	246,0	299,2	333,2
Maximum startup current with soft.starter	(3)	n° x A	238,60	253,30	168,20	203,30	244,10
Fan nominal power		kW	2 x 2,0	2 x 2,0	2 x 2,0	2 x 2,0	3 x 2,0
Fan nominal current		A	2 x 4,0	2 x 4,0	2 x 4,0	2 x 4,0	3 x 4,0
Main power supply		V/ph/Hz	400/3~/50 ±5%				
Auxilliary power supply		V/ph/Hz	230/1~/50 ±5%				

UNIT SIZE			20.4	24.4	26.4	30.4	33.4
Maximum absorbed power	(1)	n° x kW	105,60	119,20	130,80	148,00	162,00
Maximum absorbed current	(2)	n° x A	180,3	208,5	232,6	247,3	266,0
Maximum startup current	(3)	n° x A	353,2	414,3	438,4	505,8	524,5
Maximum startup current with soft.starter	(3)	n° x A	256,50	296,80	313,00	350,50	383,90
Fan nominal power		kW	3 x 2,0	4 x 2,0	4 x 2,0	4 x 2,0	5 x 2,0
Fan nominal current		A	3 x 4,0	4 x 4,0	4 x 4,0	4 x 4,0	5 x 4,0
Main power supply		V/ph/Hz	400/3~/50 ±5%				
Auxilliary power supply		V/ph/Hz	230/1~/50 ±5%				

(1)Electrical power that must be supplied by the mains to power the unit.
(2)Maximum current before safety cut-outs stop the unit. This value is never exceeded and must be used to size the electrical supply cables and relevant safety devices (refer to electrical wiring diagram supplied with the unit)
(3)The values in brackets refer to the ST version unit (with storage tank and pumps or units with pumps only).
(4)Maximum input current calculated considering the power of the compressor with the higher power and the maximum current absorbed by all other devices

OXFORD A - ELECTRICAL DATA

UNIT SIZE			3.2	4.2	5.2	6.2	7.2
Maximum absorbed power	(1),(3)	kW	20,96	24,16	26,96	30,76	35,34
			(21,86)	(25,06)	(28,46)	(32,26)	(36,84)
Maximum absorbed current	(2),(3)	A	38,9	46,9	48,9	54,9	64,3
			(41,5)	(49,5)	(52,4)	(58,4)	(67,8)
Maximum input current	(4)	A	120,9	168,9	169,9	177,9	195,3
			(121,8)	(169,8)	(171,4)	(179,4)	(196,8)
Maximum input current with soft-starter	(4)	A	82,1	90,9	98,4	100,7	119,7
			(84,71)	(93,51)	(101,1)	(103,4)	(123,19)
Fan nominal power		n° x kW	2 x 0,8	2 x 0,8	2 x 0,8	2 x 0,8	3 x 0,8
Fan nominal current		n° x A	2 x 3,4	2 x 3,4	2 x 3,4	2 x 3,4	3 x 3,4
Pump motor nominal power		kW	0,9	0,9	1,5	1,5	1,5
Pump motor nominal current		A	2,61	2,61	3,49	3,49	3,49
Main power supply		V/ph/Hz	400/3N~/50 ±5%				
Auxilliary power supply		V/ph/Hz	230/1~/50 ±5%				

UNIT SIZE			8.2	9.2	10.2	12.2
Maximum absorbed power	(1),(3)	kW	39,54	48,20	55,20	61,60
			(41,04)	(50,05)	(57,40)	(63,80)
Maximum absorbed current	(2),(3)	A	74,3	82,0	92,0	104,0
			(77,8)	(87,0)	(96,8)	(108,8)
Maximum input current	(4)	A	237,3	255,0	265,0	310,0
			(238,8)	(256,85)	(267,2)	(312,2)
Maximum input current with soft-starter	(4)	A	145,0	173,3	179,5	207,7
			(148,49)	(178,28)	(184,28)	(212,48)
Fan nominal power		n° x kW	3 x 0,8	2 x 2,0	2 x 2,0	2 x 2,0
Fan nominal current		n° x A	3 x 3,4	2 x 4,0	2 x 4,0	2 x 4,0
Pump motor nominal power		kW	1,5	1,85	2,2	2,2
Pump motor nominal current		A	3,49	4,98	4,78	4,78
Main power supply		V/ph/Hz	400/3N~/50±5%	400/3~/50 ±5%		
Auxilliary power supply		V/ph/Hz	230/1~/50±5%	230/1~/50 ±5%		

(1)Electrical power that must be supplied by the mains to power the unit.
(2)Maximum current before safety cut-outs stop the unit. This value is never exceeded and must be used to size the electrical supply cables and relevant safety devices (refer to electrical wiring diagram supplied with the unit)
(3)The values in brackets refer to the ST version unit (with storage tank and pumps or units with pumps only).
(4)Maximum input current calculated considering the power of the compressor with the higher power and the maximum current absorbed by all other devices

OXFORD - COOLING CAPACITY

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	43,6	9,6	41,1	10,7	38,5	12	35,6	13,5	33,7	14,4
	6	44,9	9,6	42,4	10,8	39,7	12,1	36,7	13,6	34,8	14,5
	7	46,3	9,7	43,7	10,9	**40,9**	**12,2**	37,9	13,7	36	14,6
	8	47,6	9,8	45	11	42,2	12,3	39,1	13,8	37,1	14,7
	9	49	9,9	46,4	11	43,4	12,4	40,3	13,8	38,3	14,8
	10	50,5	10	47,7	11,1	44,7	12,5	41,5	13,9	39,5	14,9
4.2	5	49	11,2	46,2	12,5	43,2	14	40,1	15,7	38,2	16,8
	6	50,4	11,3	47,5	12,7	44,5	14,2	41,3	15,8	39,4	16,9
	7	51,9	11,5	48,9	12,8	**45,9**	**14,3**	42,6	16	40,6	17
	8	53,4	11,6	50,4	12,9	47,2	14,4	43,9	16,1	41,8	17,2
	9	54,9	11,7	51,8	13	48,6	14,5	45,2	16,2	43,1	17,3
	10	56,5	11,8	53,3	13,2	50	14,7	46,5	16,4	44,4	17,4
5.2	5	55,8	13,2	52,4	14,9	48,8	16,7	44,9	18,8	42,5	20,1
	6	57,4	13,4	54	15	50,3	16,9	46,3	18,9	43,8	20,2
	7	59,1	13,5	55,7	15,1	**51,8**	**17**	47,8	19	45,2	20,4
	8	60,8	13,7	57,2	15,3	53,4	17,1	49,2	19,2	46,6	20,5
	9	62,5	13,8	58,9	15,4	55	17,3	50,7	19,3	48	20,7
	10	64,3	13,9	60,6	15,6	56,6	17,4	52,2	19,5	49,4	20,8
6.2	5	64,3	14,9	60,7	16,5	56,8	18,4	52,6	20,6	49,9	22
	6	66,2	15	62,6	16,6	58,5	18,6	54,2	20,7	51,5	22,1
	7	68,2	15,1	64,5	16,8	**60,3**	**18,7**	55,9	20,8	53,1	22,2
	8	70,2	15,2	66,3	16,9	62,2	18,8	57,7	20,9	54,8	22,3
	9	72,2	15,3	68,3	17	64	18,9	59,4	21,1	56,5	22,5
	10	74,3	15,5	70,3	17,2	65,9	19,1	61,2	21,2	58,2	22,6
7.2	5	71,38	18,52	67,28	20,43	62,82	22,62	57,97	25,15	54,86	26,85
	6	73,41	18,7	69,2	20,63	64,61	22,83	59,64	25,36	56,45	27,06
	7	75,52	18,9	71,2	20,83	**66,52**	**23,05**	61,33	25,58	58,05	27,29
	8	77,63	19,09	73,17	21,04	68,32	23,26	63,06	25,81	59,69	27,52
	9	79,79	19,3	75,19	21,25	70,21	23,48	64,79	26,04	61,32	27,76
	10	81,95	19,5	77,22	21,47	72,1	23,71	66,53	26,28	62,96	28,01
8.2	5	88,5	19,3	83,7	21,2	78,4	23,5	72,9	26,1	69,2	27,8
	6	91,3	19,4	86,4	21,3	81	23,6	75,2	26,3	71,5	28
	7	94,2	19,5	89,1	21,5	**83,5**	**23,8**	77,4	26,4	73,8	28,1
	8	97,2	19,6	91,9	21,6	86,1	23,9	79,9	26,6	76	28,3
	9	100,1	19,8	94,7	21,8	88,8	24,1	82,3	26,7	78,3	28,4
	10	103,2	19,9	97,6	21,9	91,4	24,3	84,9	26,9	80,7	28,6
9.2	5	100	23,5	94,4	25,9	88,1	28,8	81,5	32	77,2	34,1
	6	103,2	23,7	97,3	26,2	90,9	29	84	32,2	79,6	34,3
	7	106,4	23,9	100,3	26,4	**93,7**	**29,2**	86,6	32,4	82,1	34,5
	8	109,5	24,1	103,3	26,6	96,6	29,4	89,3	32,6	84,6	34,7
	9	112,9	24,3	106,5	26,8	99,5	29,6	92	32,8	87,2	35
	10	116,3	24,5	109,7	27	102,5	29,9	94,7	33,1	89,8	35,2
10.2	5	112	28,1	105,4	31	98,2	34,4	90,4	38,3	85,4	40,9
	6	115,5	28,4	108,6	31,2	101,2	34,7	93,1	38,6	88	41,1
	7	119	28,6	111,9	31,5	**104,2**	**34,9**	95,9	38,8	90,6	41,4
	8	122,6	28,9	115,3	31,8	107,3	35,2	98,7	39,1	93,3	41,7
	9	126,2	29,2	118,7	32,1	110,5	35,6	101,7	39,4	96	42
	10	129,9	29,5	122,1	32,4	113,7	35,9	104,6	39,7	98,8	42,3
12.2	5	125,5	29,5	118,2	32,6	110,3	36,2	101,6	40,4	96,2	43,1
	6	129,3	29,7	121,9	32,8	113,7	36,5	104,8	40,6	99,2	43,4
	7	133,3	29,9	125,6	33,1	**117,1**	**36,7**	107,9	40,9	102,2	43,6
	8	137,3	30,2	129,3	33,3	120,6	37	111,2	41,2	105,3	43,9
	9	141,4	30,4	133,2	33,6	124,1	37,4	114,5	41,5	108,4	44,2
	10	145,7	30,7	137,1	33,9	127,8	37,7	117,9	41,8	111,6	44,4
13.2	5	135,4	33,2	127,2	36,9	118,4	41	108,8	45,7	102,8	48,7
	6	139,5	33,5	131	37,2	121,8	41,4	112,1	46	105,9	49
	7	143,6	33,8	135	37,5	**125,4**	**41,7**	115,4	46,3	109	49,3
	8	147,9	34,1	138,9	37,8	129,1	42	118,8	46,7	112,1	49,7
	9	152,1	34,4	142,8	38,2	132,9	42,4	122,2	47	115,3	50,1
	10	156,4	34,7	146,9	38,5	136,7	42,7	125,7	47,3	118,6	50,4

Pf:cooling capacity [kW]
Pe:electrical power absorbed by the compressors [kW]
T0:evaporator outgoing water temperature [°

OXFORD - HEATING CAPACITY

Model	CONDENSER INGOING WATER TEMPERATURE [°C]									
	Ta	RH	30		35		40		43	
	[°C]	%	Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
3.2	-5	90	32,6	9,5	32,7	10,7	-	-	-	-
	0	90	36,8	9,7	36,8	11	36,8	12,4	-	-
	5	80	40,6	10	40,5	11,2	40,3	12,7	40,2	13,6
	8	**70**	42,9	10,2	42,6	11,5	**42,3**	**12,9**	42,2	13,8
	10	70	44,6	10,4	44,5	11,7	44,1	13,1	43,9	14
	15	70	49,5	10,9	49,2	12,2	48,8	13,7	48,5	14,7
4.2	-5	90	37,3	11,1	37,3	12,5	-	-	-	-
	0	90	41,9	11,5	41,9	12,9	41,9	14,5	-	-
	5	80	46,1	11,7	46,1	13,1	45,9	14,8	45,9	15,9
	8	**70**	48,6	11,8	48,6	13,2	**48,3**	**14,9**	48,2	16
	10	70	50,6	11,8	50,5	13,3	50,3	14,9	50,1	16
	15	70	56	12	55,8	13,5	55,5	15,2	55,3	16,2
5.2	-5	90	43,8	13,2	43,8	14,9	-	-	-	-
	0	90	49,3	13,4	49,2	15,1	49,2	17	-	-
	5	80	54,4	13,6	54,2	15,3	53,9	17,2	53,7	18,5
	8	**70**	57,2	13,6	57,1	15,4	**56,8**	**17,4**	56,5	18,7
	10	70	59,7	13,7	59,4	15,5	59	17,5	58,6	18,8
	15	70	66,7	13,9	66,2	15,7	65,2	17,7	64,9	19
6.2	-5	90	50,2	15,1	50,1	16,8	-	-	-	-
	0	90	56,4	15,3	56,3	17,1	56,2	19,1	-	-
	5	80	62,3	15,4	61,9	17,3	61,5	19,3	61,4	20,6
	8	**70**	65,4	15,5	65,2	17,3	**64,9**	**19,4**	64,5	20,7
	10	70	68,2	15,6	67,8	17,4	67,3	19,5	66,9	20,8
	15	70	76,1	15,8	75,4	17,6	74,3	19,7	73,9	21,1
7.2	-5	90	52,94	16,94	53,35	18,98	53,94	21,32	54,37	22,9
	0	90	59,25	17,04	59,46	19,03	59,67	21,31	59,95	22,85
	5	80	65,49	17,17	65,54	19,13	65,62	21,38	65,7	22,89
	8	**70**	69,03	17,25	68,76	19,19	**68,72**	**21,42**	68,73	22,92
	10	70	71,91	17,31	71,74	19,25	71,6	21,47	71,53	22,97
	15	70	79,84	17,51	79,4	19,43	78,95	21,62	78,7	23,1
8.2	-5	90	66,8	20,5	66,8	22,9	-	-	-	-
	0	90	74,8	20,6	74,7	23	74,6	25,7	-	-
	5	80	82,3	20,7	81,8	23,1	81,5	25,8	81,2	27,6
	8	**70**	86,8	20,8	86,3	23,2	**85,5**	**25,9**	85	27,6
	10	70	90,4	20,9	89,6	23,3	88,7	26	88,3	27,7
	15	70	100,3	21,2	99,4	23,5	98,4	26,2	97,6	28
9.2	-5	90	76,9	23,6	77,2	26,4	-	-	-	-
	0	90	86	23,9	86,1	26,7	86,4	30	-	-
	5	80	94,7	24,1	94,4	27	94,2	30,3	94,2	32,5
	8	**70**	99,6	24,3	99,4	27,1	**99,1**	**30,4**	98,8	32,6
	10	70	103,8	24,5	103,3	27,3	102,7	30,6	102,2	32,7
	15	70	116	24,9	114,8	27,7	113,3	31	112,8	33,1
10.2	-5	90	88,2	26,4	88,7	29,7	-	-	-	-
	0	90	98,7	26,9	99	30,1	99,5	34	-	-
	5	80	108,9	27,3	108,5	30,5	108,6	34,4	108,6	37
	8	**70**	114,4	27,5	114,3	30,8	**114**	**34,6**	113,9	37,2
	10	70	119,6	27,8	119	31	118,2	34,8	117,9	37,3
	15	70	133,1	28,3	132,1	31,5	131,4	35,3	129,8	37,8
12.2	-5	90	100,6	29,8	100,8	33,4	-	-	-	-
	0	90	113	30,3	112,8	33,8	112,8	38	-	-
	5	80	124,1	30,7	123,6	34,3	123,1	38,4	122,9	41,2
	8	**70**	131,2	31	130,4	34,5	**129,5**	**38,7**	128,6	41,4
	10	70	136,6	31,1	135,4	34,7	134,1	38,9	133,2	41,6
	15	70	152,3	31,7	150,3	35,3	148,6	39,4	147,4	42,2
13.2	-5	90	110,2	32,9	110,5	36,7	-	-	-	-
	0	90	123,5	33,3	123,5	37,1	123,5	41,5	-	-
	5	80	135,7	33,7	135,2	37,5	134,7	42	134,4	44,9
	8	**70**	143,1	33,9	142,6	37,8	**141,7**	**42,2**	141	45,2
	10	70	149,2	34	148,2	38	147	42,4	146	45,4
	15	70	166,7	34,5	165,3	38,5	162,5	43	161,4	45,9

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

OXFORD - RECOVERY CAPACITY

Model	To	CONDENSER INGOING WATER TEMPERATURE [°C]											
	[°C]	35			40			45			48		
		Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr
3.2	5	40	11,3	51,3	37,3	12,7	50	34,3	14,2	48,5	32,4	15,2	47,6
	7	42,7	11,4	54,1	39,7	12,8	52,6	**36,6**	**14,4**	**51**	34,6	15,4	50
	10	47	11,6	58,5	43,8	13	56,8	40,4	14,5	54,9	38,2	15,6	53,7
4.2	5	45,6	12,9	58,5	42,5	14,5	57	39,2	16,3	55,5	37,2	17,4	54,6
	7	48,6	13	61,6	45,4	14,6	60	**42**	**16,4**	**58,3**	39,8	17,5	57,3
	10	53,4	13,2	66,6	49,9	14,8	64,7	46,3	16,6	62,8	44	17,7	61,7
5.2	5	51,9	15,2	67,1	48,2	17,1	65,3	44,1	19,2	63,4	41,5	20,6	62,2
	7	55,5	15,3	70,8	51,5	17,2	68,7	**47,3**	**19,3**	**66,6**	44,6	20,7	65,3
	10	61	15,4	76,5	56,9	17,3	74,2	52,3	19,5	71,8	49,4	20,9	70,3
6.2	5	59,2	17,4	76,6	55	19,5	74,5	50,6	21,8	72,3	47,7	23,2	71
	7	63,2	17,5	80,7	58,9	19,5	78,4	**54,2**	**21,8**	**76**	51,2	23,3	74,5
	10	69,5	17,6	87,2	64,9	19,7	84,6	59,9	21,9	81,8	56,7	23,4	80,1
7.2	5	72,13	17,65	89,77	68,24	19,51	87,75	64,02	21,63	85,65	61,32	23,06	84,38
	7	76,88	17,77	94,65	72,82	19,62	92,45	**68,42**	**21,74**	**90,16**	65,6	23,17	88,77
	10	84,43	17,95	102,38	80,03	19,81	99,84	75,22	21,93	97,15	72,15	23,35	95,5
8.2	5	80,5	22,8	103,3	74,9	25,4	100,3	68,8	28,3	97,1	64,9	30,1	95,1
	7	86,1	23	109	80	25,5	105,5	**73,7**	**28,4**	**102,1**	69,6	30,3	99,8
	10	94,9	23,2	118,1	88,4	25,7	114,1	81,3	28,6	109,9	76,8	30,5	107,2
9.2	5	91,8	27,3	119	85,2	30,3	115,5	78	33,8	111,9	73,7	36,2	109,8
	7	98,1	27,5	125,6	91,1	30,5	121,6	**83,5**	**34**	**117,5**	78,7	36,3	115
	10	108,2	27,8	136	100,6	30,8	131,4	92,3	34,3	126,5	87,1	36,5	123,6
10.2	5	104,9	31,2	136,1	97,4	34,8	132,2	89,3	38,9	128,1	84	41,6	125,6
	7	112,2	31,4	143,6	104,2	35	139,2	**95,5**	**39,1**	**134,6**	89,9	41,8	131,7
	10	123,8	31,8	155,6	115,1	35,3	150,4	105,5	39,4	144,9	99,4	42	141,4
12.2	5	116,4	33,6	150	108,1	37,4	145,6	99,1	41,8	140,9	93,3	44,7	138
	7	124,4	33,8	158,2	115,6	37,7	153,2	**106**	**42**	**148**	99,9	44,9	144,8
	10	137,1	34,1	171,3	127,5	38	165,4	117	42,3	159,3	110,3	45,2	155,5
13.2	5	126	37,4	163,5	116,9	41,8	158,7	107	46,6	153,6	100,7	49,7	150,4
	7	134,6	37,7	172,2	124,9	42	166,9	**114,4**	**46,8**	**161,2**	107,7	50	157,6
	10	148,2	38	186,2	137,6	42,3	179,9	126,1	47,2	173,3	118,8	50,3	169,1

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

OXFORD /LE - COOLING CAPACITY

Model	Tev	EXTERNAL AIR TEMPERATURE [°C]									
	[°C]	25		30		35		40		43	
		Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe
3.2	0	41,4	9,4	38,9	10,6	36,2	11,9	33,3	13,3	31,5	14,3
	2,5	44,8	9,6	42,2	10,8	39,3	12,1	36,2	13,5	34,3	14,5
	5	48,3	9,8	45,5	11	42,5	12,3	39,3	13,8	37,2	14,7
	7,5	52	10,1	49,1	11,2	**45,9**	**12,6**	42,4	14	-	-
	10	55,7	10,4	52,6	11,5	49,3	12,8	45,7	14,3	-	-
4.2	0	46,8	11,1	44	12,4	41	13,9	37,9	15,5	35,9	16,6
	2,5	50,5	11,4	47,5	12,7	44,4	14,1	41,1	15,8	39	16,9
	5	54,4	11,7	51,2	13	47,9	14,5	44,4	16,1	42,2	17,2
	7,5	58,5	12	55	13,4	**51,5**	**14,8**	47,8	16,5	-	-
	10	62,6	12,4	59	13,8	55,2	15,2	51,3	16,9	-	-
5.2	0	54,2	13,1	50,8	14,7	47,1	16,6	43,1	18,6	40,6	19,9
	2,5	58,5	13,5	54,9	15,1	51	16,9	46,8	18,9	44,1	20,2
	5	63	13,8	59,1	15,5	55	17,3	50,5	19,3	47,7	20,6
	7,5	67,6	14,2	63,5	15,9	**59,1**	**17,7**	54,4	19,7	-	-
	10	72,4	14,6	68	16,3	63,4	18,1	58,4	20,1	-	-
6.2	0	63,5	14,8	59,8	16,5	55,7	18,4	51,3	20,5	48,6	21,9
	2,5	68,6	15,1	64,6	16,8	60,3	18,7	55,7	20,8	52,7	22,2
	5	73,9	15,4	69,6	17,1	65,1	19	60,2	21,1	57,1	22,5
	7,5	79,3	15,8	74,9	17,5	**70,1**	**19,4**	64,9	21,5	-	-
	10	85	16,2	80,3	17,9	75,3	19,8	69,8	21,9	-	-
7.2	0	70,02	18,4	65,62	20,26	60,88	22,4	55,77	24,87	52,52	26,54
	2,5	75,57	18,9	70,81	20,79	65,69	22,95	60,19	25,43	56,69	27,1
	5	81,33	19,44	76,19	21,36	70,67	23,54	64,76	26,04	60,99	27,71
	7,5	87,3	20,02	81,76	21,97	**75,82**	**24,18**	69,46	26,7	65,43	28,38
	10	93,47	20,64	87,5	22,62	81,12	24,86	74,3	27,41	69,97	29,11
8.2	0	82,4	19	77,7	20,9	72,6	23,2	67,1	25,8	63,6	27,5
	2,5	89,5	19,3	84,4	21,2	78,9	23,5	72,9	26,1	69,1	27,8
	5	96,9	19,6	91,4	21,6	85,5	23,9	79	26,5	75	28,2
	7,5	104,8	20	98,8	22	**92,3**	**24,3**	85,4	26,9	-	-
	10	112,9	20,3	106,4	22,4	99,5	24,8	92,1	27,4	-	-
9.2	0	94,5	23,2	88,9	25,5	82,8	28,3	76,2	31,6	72	33,7
	2,5	102,5	23,7	96,3	26,1	89,7	28,9	82,6	32,1	78,1	34,2
	5	110,7	24,2	104,2	26,6	97	29,4	89,4	32,6	84,5	34,7
	7,5	119,5	24,7	112,4	27,2	**104,7**	**30**	96,4	33,2	-	-
	10	128,7	25,3	121	27,8	112,7	30,7	103,8	33,9	-	-
10.2	0	107	27,7	100,4	30,5	93,3	33,9	85,5	37,8	80,6	40,4
	2,5	115,9	28,4	108,7	31,3	100,9	34,6	92,5	38,5	87,2	41,1
	5	125,1	29,1	117,3	32	108,8	35,4	99,8	39,2	94	41,8
	7,5	134,8	29,8	126,3	32,8	**117,2**	**36,2**	107,4	40	-	-
	10	144,9	30,6	135,7	33,6	125,8	37	115,3	40,8	-	-
12.2	0	122,4	29,3	114,9	32,3	106,9	35,9	98,1	40,1	92,5	42,8
	2,5	132,5	29,9	124,4	33	115,6	36,6	106,1	40,8	100,2	43,4
	5	143,1	30,5	134,4	33,7	124,7	37,4	114,6	41,5	108,2	44,1
	7,5	154,1	31,2	144,6	34,5	**134,3**	**38,2**	123,4	42,2	-	-
	10	165,7	32	155,4	35,3	144,4	38,9	132,6	43	-	-
13.2	0	133,1	33,1	124,7	36,7	115,6	40,8	105,8	45,4	99,6	48,3
	2,5	143,9	33,8	134,7	37,5	124,7	41,7	114,3	46,2	107,7	49,2
	5	154,9	34,6	145	38,3	134,4	42,5	123,1	47,1	115,8	50,1
	7,5	166,6	35,4	155,9	39,2	**144,4**	**43,4**	132,2	48	-	-
	10	178,6	36,3	167,1	40,1	154,8	44,3	141,7	49	-	-

Pf:cooling capacity [kW]
Pe:electrical power absorbed by the compressors [kW]
T0:evaporator outgoing water temperature [°

OXFORD /LE - COOLING CAPACITY

Model	Tev	EXTERNAL AIR TEMPERATURE [°C]									
	[°C]	25		30		35		40		43	
		Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe	Pf	Pe
15.2	0	148,21	39,98	139,23	43,91	129,6	48,3	119,31	53,24	112,81	56,49
	2,5	160,03	40,92	150,33	44,91	139,96	49,36	128,88	54,34	121,89	57,62
	5	172,36	41,92	161,89	45,97	150,72	50,49	138,81	55,52	131,3	58,84
	7,5	185,17	42,99	173,89	47,11	**161,88**	**51,69**	149,09	56,79	141,02	60,14
	10	198,42	44,12	186,3	48,32	173,4	52,97	159,7	58,14	151,06	61,52
16.2	0	158	44,07	148,15	48,36	137,64	53,17	126,44	58,6	119,38	62,2
	2,5	170,35	45,23	159,69	49,59	148,36	54,46	136,3	59,93	128,69	63,56
	5	183,16	46,47	171,67	50,91	159,45	55,84	146,48	61,38	138,3	65,03
	7,5	196,42	47,79	184,04	52,32	**170,91**	**57,33**	156,98	62,94	148,21	66,62
	10	210,11	49,21	196,79	53,82	182,69	58,93	167,76	64,61	158,35	68,34
14.4	0	142,55	35,93	134,08	39,58	124,95	43,76	115,16	48,58	108,96	51,83
	2,5	154,05	36,86	144,88	40,56	135,03	44,77	124,48	49,62	117,8	52,88
	5	166,04	37,86	156,13	41,61	145,52	45,87	134,17	50,75	126,99	54,03
	7,5	178,5	38,93	167,82	42,74	**156,4**	**47,05**	144,21	51,98	136,5	55,28
	10	191,43	40,08	179,92	43,95	167,65	48,33	154,57	53,31	146,31	56,64
16.4	0	158,2	40,7	148,1	44,9	137,3	49,8	125,6	55,3	118,4	58,8
	2,5	171,1	41,6	160,2	45,9	148,5	50,8	136	56,2	128,1	59,7
	5	184,5	42,6	172,8	47	160,2	51,8	146,7	57,3	138,2	60,8
	7,5	198,5	43,7	185,8	48,1	**172,1**	**53,1**	157,7	58,5	-	-
	10	212,8	44,9	199,1	49,4	184,5	54,3	169	59,8	-	-
18.4	0	189,4	45,8	178,1	50,4	166	55,8	152,9	62,1	144,6	66,3
	2,5	205,4	46,7	193,1	51,4	180	56,9	165,8	63,1	156,9	67,3
	5	222,2	47,7	208,9	52,5	194,7	58	179,4	64,2	169,9	68,3
	7,5	239,8	48,7	225,4	53,6	**210,1**	**59,1**	193,6	65,4	-	-
	10	258,2	49,8	242,7	54,8	226,1	60,4	208,3	66,6	-	-
20.4	0	216,7	53,4	203,3	58,9	188,9	65,3	173,3	72,8	163,4	77,8
	2,5	234,5	54,7	220	60,3	204,3	66,7	187,4	74,2	176,7	79,1
	5	253,3	56,1	237,5	61,7	220,4	68,2	202,2	75,6	190,6	80,5
	7,5	272,6	57,6	255,7	63,2	**237,3**	**69,8**	217,6	77,1	-	-
	10	293,1	59,1	274,8	64,8	254,9	71,4	233,7	78,7	-	-
24.4	0	241,3	59,9	226,3	66,2	210,3	73,4	192,9	81,7	181,9	87,1
	2,5	260,9	61,3	244,7	67,7	227,3	75	208,5	83,2	196,6	88,6
	5	281,2	62,8	263,9	69,2	245,1	76,5	224,8	84,8	212	90,2
	7,5	302,5	64,4	283,8	70,9	**263,5**	**78,2**	241,7	86,5	-	-
	10	324,7	66	304,5	72,6	282,7	80	259,3	88,2	-	-
26.4	0	264,1	68	247,3	75,3	229,2	83,5	209,5	92,6	197,1	98,6
	2,5	285	69,6	266,8	77	247,2	85,2	226	94,4	212,6	100,4
	5	306,7	71,4	287	78,8	265,8	87,1	243	96,3	228,6	102,3
	7,5	329,1	73,2	307,9	80,7	**285,1**	**89,1**	260,6	98,3	-	-
	10	352,2	75,2	329,4	82,8	304,9	91,2	278,7	100,5	-	-
30.4	0	291,12	81,25	273,14	89,23	253,91	98,15	233,41	108,15	220,47	114,73
	2,5	314,2	83,21	294,79	91,31	274,06	100,34	251,99	110,44	238,08	117,07
	5	338,22	85,3	317,28	93,54	294,98	102,69	271,27	112,89	256,33	119,58
	7,5	363,14	87,53	340,6	95,91	**316,63**	**105,19**	291,2	115,51	275,18	122,25
	10	388,93	89,91	364,7	98,43	338,99	107,85	311,74	118,29	294,6	125,11
33.4	0	317,05	86,74	297,74	95,14	277,13	104,55	255,22	115,14	241,42	122,14
	2,5	342,13	88,91	321,27	97,44	299,05	106,95	275,46	117,62	260,61	124,66
	5	368,24	91,22	345,73	99,9	321,81	109,54	296,45	120,31	280,5	127,4
	7,5	395,32	93,69	371,08	102,53	**345,37**	**112,32**	318,15	123,22	301,04	130,37
	10	423,34	96,32	397,28	105,34	369,7	115,3	340,53	126,34	322,18	133,57

Pf:cooling capacity [kW]
Pe:electrical power absorbed by the compressors [kW]
T0:evaporator outgoing water temperature [°

OXFORD HP /LE - HEATING CAPACITY

Model	TEMPERATURA DI CONDENSAZIONE [°C]											
	Ta	RH	40		45		50		55		60	
	[°C]	%	Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
3.2	-5	90	32,7	9,9	32,5	11,2	-	-	-	-	-	-
	0	90	37,0	9,9	36,9	11,2	36,6	12,6	-	-	-	-
	5	80	40,8	9,9	40,6	11,1	40,4	12,6	40,2	14,2	-	-
	8	**70**	**43,1**	**9,8**	42,7	11,1	42,5	12,6	42,2	14,2	41,8	15,9
	10	70	45,0	9,8	44,8	11,1	44,2	12,5	43,8	14,1	43,4	15,9
	15	70	50,3	9,8	49,8	11,0	49,4	12,5	48,8	14,1	47,9	15,8
4.2	-5	90	37,5	11,2	37,5	12,7	-	-	-	-	-	-
	0	90	42,3	11,2	42,2	12,6	42,2	14,2	-	-	-	-
	5	80	46,6	11,1	46,4	12,5	46,2	14,1	46,1	15,9	-	-
	8	**70**	**49,3**	**11,1**	49,0	12,5	48,6	14,1	48,4	15,8	48,1	17,8
	10	70	51,3	11,0	51,1	12,4	50,8	14,0	50,3	15,8	49,9	17,7
	15	70	57,2	11,0	56,8	12,4	56,4	14,0	55,9	15,7	55,4	17,7
5.2	-5	90	43,8	13,0	43,8	14,7	-	-	-	-	-	-
	0	90	49,5	13,0	49,4	14,7	49,2	16,5	-	-	-	-
	5	80	54,7	12,9	54,3	14,6	54,0	16,5	53,7	18,6	-	-
	8	**70**	**57,7**	**12,9**	57,4	14,6	57,1	16,5	56,5	18,6	55,9	20,9
	10	70	60,2	12,9	59,8	14,6	59,4	16,5	58,7	18,6	58,1	20,9
	15	70	67,7	12,8	66,7	14,5	66,0	16,4	65,4	18,5	64,5	20,9
6.2	-5	90	50,5	15,1	50,4	16,9	-	-	-	-	-	-
	0	90	57,0	15,1	56,8	16,9	56,5	18,9	-	-	-	-
	5	80	62,9	15,0	62,5	16,8	62,0	18,9	61,6	21,1	-	-
	8	**70**	**66,4**	**15,0**	65,9	16,8	65,5	18,8	64,7	21,1	64,0	23,6
	10	70	69,2	15,0	68,7	16,8	68,0	18,8	67,1	21,1	66,4	23,5
	15	70	77,5	14,9	76,3	16,7	75,5	18,7	74,6	21,0	73,4	23,5
7.2	-5	90	53,0	17,5	53,5	19,7	54,2	22,1	55,0	25,0	56,0	28,2
	0	90	59,3	17,5	59,6	19,6	59,8	22,0	60,3	24,7	61,0	27,9
	5	80	65,5	17,5	65,6	19,6	65,7	21,9	65,9	24,6	66,0	27,7
	8	**70**	**68,9**	**17,6**	68,8	19,6	68,7	21,9	68,8	24,6	69,0	27,7
	10	70	71,9	17,6	71,7	19,6	71,6	21,9	71,3	24,5	71,3	27,6
	15	70	79,8	17,7	79,4	19,6	78,9	21,9	78,5	24,5	78,1	27,5
8.2	-5	90	67,0	20,5	66,9	22,9	-	-	-	-	-	-
	0	90	75,1	20,3	74,8	22,7	74,6	25,4	-	-	-	-
	5	80	82,7	20,2	82,1	22,5	81,6	25,2	81,2	28,2	-	-
	8	**70**	**87,4**	**20,2**	86,7	22,4	85,7	25,1	84,9	28,0	84,1	31,4
	10	70	91,1	20,1	90,3	22,4	89,2	25,0	88,2	28,0	87,2	31,3
	15	70	101,8	20,1	100,6	22,3	99,5	24,9	98,0	27,8	96,0	31,1
9.2	-5	90	77,2	23,6	77,4	26,4	-	-	-	-	-	-
	0	90	86,7	23,5	86,6	26,3	86,7	29,6	-	-	-	-
	5	80	95,5	23,5	95,1	26,2	94,7	29,4	94,5	33,1	-	-
	8	**70**	**100,7**	**23,5**	100,2	26,2	99,7	29,4	98,9	33,1	98,2	37,2
	10	70	105,0	23,6	104,3	26,2	103,5	29,4	102,5	33,0	101,7	37,1
	15	70	118,1	23,6	115,9	26,2	114,9	29,3	113,6	32,8	111,8	36,8
10.2	-5	90	89,2	26,6	89,4	29,9	-	-	-	-	-	-
	0	90	100,2	26,7	100,1	29,9	100,4	33,8	-	-	-	-
	5	80	110,4	26,8	109,9	30,0	109,5	33,7	109,5	38,1	-	-
	8	**70**	**116,6**	**26,9**	115,9	30,0	115,3	33,7	114,7	38,0	113,9	42,9
	10	70	121,6	27,0	120,8	30,0	119,8	33,7	118,6	38,0	117,8	42,8
	15	70	136,7	27,1	135,4	30,1	133,1	33,7	131,5	37,8	129,3	42,5
12.2	-5	90	100,4	29,9	100,5	33,5	-	-	-	-	-	-
	0	90	112,9	30,0	112,7	33,5	112,6	37,7	-	-	-	-
	5	80	124,2	30,0	123,5	33,5	122,9	37,6	122,4	42,3	-	-
	8	**70**	**131,4**	**30,1**	130,5	33,5	129,2	37,6	128,1	42,3	126,8	47,5
	10	70	137,1	30,1	135,8	33,5	134,2	37,6	132,8	42,2	131,2	47,4
	15	70	153,0	30,1	151,5	33,5	149,6	37,5	147,4	42,1	144,0	47,2
13.2	-5	90	110,2	33,3	110,4	37,1	-	-	-	-	-	-
	0	90	123,8	33,3	123,6	37,1	123,5	41,6	-	-	-	-
	5	80	136,0	33,3	135,3	37,1	134,7	41,5	134,0	46,5	-	-
	8	**70**	**143,7**	**33,2**	142,9	37,1	142,0	41,5	140,4	46,5	138,8	52,0
	10	70	149,9	33,2	148,9	37,1	147,4	41,5	145,4	46,5	143,7	52,0
	15	70	168,2	33,1	165,2	37,0	163,6	41,4	161,4	46,4	158,0	51,9

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

OXFORD HP /LE - HEATING CAPACITY

Model	TEMPERATURA DI CONDENSAZIONE [°C]											
	Ta	RH	40		45		50		55		60	
	[°C]	%	Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
15.2	-5	90	114,3	38,4	115,1	42,6	116,0	47,3	117,3	52,7	118,8	58,8
	0	90	127,8	38,5	128,1	42,6	128,4	47,3	129,1	52,6	130,0	58,7
	5	80	140,8	38,5	140,8	42,7	140,9	47,3	141,0	52,6	140,9	58,6
	8	**70**	**147,9**	**38,6**	147,6	42,7	147,5	47,3	147,4	52,6	147,4	58,6
	10	70	154,4	38,6	154,0	42,7	153,6	47,3	152,7	52,6	152,5	58,6
	15	70	171,2	38,7	170,4	42,8	169,4	47,4	168,5	52,6	166,6	58,6
16.2	-5	90	121,1	41,4	122,1	46,1	123,5	51,3	125,2	57,3	127,4	64,1
	0	90	134,7	41,3	135,4	45,9	136,3	51,0	137,1	56,9	138,5	63,6
	5	80	148,0	41,3	148,3	45,8	148,8	50,9	149,4	56,7	150,1	63,2
	8	**70**	**155,9**	**41,4**	155,9	45,8	155,6	50,9	155,8	56,6	156,3	63,1
	10	70	162,2	41,4	162,0	45,8	161,9	50,9	161,9	56,6	161,5	63,1
	15	70	180,0	41,5	179,0	45,9	178,3	50,9	177,6	56,6	176,9	63,0
14.4	-5	90	107,9	35,1	108,8	39,3	110,1	44,2	111,7	49,9	113,8	56,5
	0	90	120,9	35,0	121,0	39,2	121,7	43,9	122,8	49,5	124,1	55,8
	5	80	133,5	35,1	133,5	39,1	133,6	43,8	133,6	49,2	134,3	55,4
	8	**70**	**140,2**	**35,1**	140,0	39,1	140,0	43,7	140,1	49,1	140,4	55,3
	10	70	146,6	35,2	146,3	39,1	145,3	43,7	145,3	49,0	145,2	55,2
	15	70	163,0	35,3	162,0	39,2	161,1	43,8	160,1	49,0	158,5	55,0
16.4	-5	90	130,5	41,1	130,8	45,9	-	-	-	-	-	-
	0	90	146,0	40,7	145,9	45,4	146,0	50,8	-	-	-	-
	5	80	161,3	40,5	159,9	45,1	159,3	50,4	158,9	56,4	-	-
	8	**70**	**169,1**	**40,4**	168,4	45,0	167,7	50,2	166,7	56,2	165,3	62,8
	10	70	177,1	40,3	175,2	44,9	174,3	50,1	172,9	56,0	171,0	62,7
	15	70	197,8	40,2	196,1	44,6	194,0	49,8	190,9	55,7	188,6	62,2
18.4	-5	90	159,0	47,1	158,9	52,8	-	-	-	-	-	-
	0	90	179,1	47,1	178,4	52,6	178,0	59,1	-	-	-	-
	5	80	197,3	47,1	196,0	52,5	194,9	58,8	193,9	66,2	-	-
	8	**70**	**209,0**	**47,1**	207,0	52,4	204,7	58,7	202,9	66,0	200,8	74,2
	10	70	217,8	47,1	215,1	52,4	212,7	58,7	210,6	65,9	208,2	74,0
	15	70	243,5	47,2	240,8	52,4	237,6	58,5	233,1	65,6	229,1	73,5
20.4	-5	90	180,8	53,2	181,2	59,8	-	-	-	-	-	-
	0	90	203,5	53,5	203,1	59,8	203,2	67,5	-	-	-	-
	5	80	224,2	53,7	222,9	59,9	222,2	67,4	221,7	76,1	-	-
	8	**70**	**237,3**	**53,9**	235,7	60,0	233,8	67,4	231,9	76,0	230,3	85,8
	10	70	247,3	54,0	245,1	60,1	242,6	67,4	240,4	75,9	238,1	85,5
	15	70	278,4	54,3	273,6	60,2	270,5	67,3	266,7	75,6	261,3	85,0
24.4	-5	90	197,0	59,9	198,0	67,0	-	-	-	-	-	-
	0	90	220,8	60,0	220,9	67,0	221,5	75,3	-	-	-	-
	5	80	242,7	60,1	242,0	67,1	241,4	75,3	241,1	84,6	-	-
	8	**70**	**255,9**	**60,1**	255,0	67,1	254,2	75,2	252,5	84,5	250,7	95,0
	10	70	266,6	60,2	265,3	67,1	263,8	75,2	261,4	84,5	259,3	94,9
	15	70	299,0	60,2	295,0	67,1	292,0	75,1	289,1	84,2	284,6	94,5
26.4	-5	90	218,0	66,5	218,9	74,2	-	-	-	-	-	-
	0	90	243,9	66,6	244,1	74,3	244,5	83,1	-	-	-	-
	5	80	269,2	66,5	267,2	74,2	266,5	83,1	265,8	93,0	-	-
	8	**70**	**282,5**	**66,5**	281,6	74,2	280,7	83,0	279,0	93,0	276,1	104,1
	10	70	295,3	66,4	293,0	74,1	291,6	83,0	288,6	93,0	285,8	104,0
	15	70	329,3	66,3	326,9	74,0	322,8	82,8	318,9	92,8	314,4	103,8
30.4	-5	90	221,4	76,8	222,9	85,2	225,1	94,7	227,9	105,5	231,3	117,7
	0	90	246,8	76,9	247,8	85,2	248,6	94,6	250,3	105,3	252,6	117,4
	5	80	271,2	77,0	271,7	85,3	272,5	94,6	273,3	105,2	273,5	117,2
	8	**70**	**285,8**	**77,1**	284,8	85,3	284,9	94,6	285,2	105,2	285,7	117,2
	10	70	297,2	77,2	296,9	85,4	296,8	94,7	295,2	105,2	295,6	117,1
	15	70	329,0	77,4	327,8	85,5	326,5	94,8	325,3	105,3	323,3	117,1
33.4	-5	90	238,4	82,8	240,3	92,1	243,1	102,7	246,6	114,6	251,0	128,3
	0	90	264,9	82,7	266,3	91,7	267,7	102,1	269,8	113,8	272,7	127,1
	5	80	291,5	82,7	292,2	91,6	293,2	101,8	294,4	113,3	295,1	126,5
	8	**70**	**307,2**	**82,7**	306,3	91,6	306,5	101,7	307,1	113,2	307,9	126,2
	10	70	319,5	82,8	319,2	91,7	318,7	101,7	317,7	113,1	318,3	126,1
	15	70	352,5	83,1	351,5	91,9	350,2	101,8	348,9	113,1	346,0	126,0

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

OXFORD A - COOLING CAPACITY

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	48,1	10,6	45,6	11,6	42,9	12,8	40,1	14,1	38,4	14,9
	6	49,6	10,7	47,0	11,8	44,3	12,9	41,4	14,2	39,6	15,0
	7	51,1	10,8	48,4	11,9	**45,6**	**13,0**	42,6	14,3	40,8	15,1
	8	52,6	10,9	49,9	12,0	47,0	13,1	43,9	14,4	42,0	15,3
	9	54,1	11,0	51,3	12,1	48,3	13,2	45,2	14,5	43,2	15,4
	10	55,7	11,1	52,8	12,2	49,7	13,3	46,5	14,6	44,5	15,5
4.2	5	56,6	13,0	54,0	14,2	51,2	15,5	48,1	17,1	46,2	18,1
	6	58,3	13,1	55,6	14,3	52,7	15,7	49,6	17,2	47,6	18,2
	7	60,2	13,2	57,2	14,4	**54,2**	**15,8**	51,0	17,4	49,0	18,4
	8	61,9	13,4	58,9	14,6	55,8	16,0	52,4	17,5	50,4	18,5
	9	63,7	13,5	60,6	14,7	57,3	16,1	53,9	17,7	51,7	18,7
	10	65,5	13,7	62,3	14,9	58,9	16,3	55,4	17,8	53,2	18,9
5.2	5	61,7	13,9	58,5	15,2	55,1	16,7	51,5	18,4	49,3	19,5
	6	63,5	14,0	60,3	15,3	56,8	16,9	53,1	18,6	50,8	19,7
	7	65,5	14,1	62,2	15,5	**58,5**	**17,0**	54,7	18,7	52,3	19,8
	8	67,4	14,3	63,9	15,6	60,3	17,2	56,4	18,9	53,9	20,0
	9	69,3	14,4	65,8	15,8	62,0	17,3	58,0	19,0	55,5	20,1
	10	71,3	14,5	67,7	15,9	63,8	17,5	59,7	19,2	57,1	20,3
6.2	5	72,6	16,7	69,1	18,3	65,3	20,1	61,3	22,2	58,8	23,6
	6	74,7	16,9	71,1	18,5	67,2	20,3	63,1	22,4	60,5	23,8
	7	76,9	17,0	73,2	18,7	**69,1**	**20,5**	64,9	22,6	62,3	24,0
	8	79,0	17,2	75,2	18,8	71,1	20,7	66,7	22,8	64,0	24,2
	9	81,2	17,3	77,3	19,0	73,0	20,9	68,6	23,0	65,8	24,4
	10	83,4	17,5	79,4	19,2	75,0	21,1	70,5	23,2	67,7	24,6
7.2	5	82,0	17,1	78,0	18,8	73,6	20,7	68,8	22,9	65,8	24,4
	6	84,4	17,2	80,3	18,9	75,8	20,9	71,0	23,1	67,9	24,5
	7	87,1	17,4	82,8	19,1	**78,1**	**21,0**	73,1	23,2	69,9	24,7
	8	89,6	17,5	85,2	19,2	80,4	21,2	75,3	23,4	72,0	24,9
	9	92,2	17,6	87,7	19,4	82,8	21,3	77,5	23,6	74,2	25,0
	10	94,8	17,8	90,2	19,5	85,2	21,5	79,8	23,7	76,3	25,2
8.2	5	88,2	19,5	83,6	21,6	78,7	23,8	73,5	26,4	70,2	28,1
	6	90,8	19,7	86,1	21,7	81,1	24,0	75,8	26,5	72,4	28,2
	7	93,5	19,8	88,7	21,8	**83,6**	**24,1**	78,2	26,7	74,8	28,4
	8	96,4	20,0	91,4	22,0	86,1	24,3	80,5	26,8	77,0	28,5
	9	99,1	20,1	94,1	22,1	88,7	24,4	83,0	27,0	79,4	28,7
	10	102,0	20,2	96,8	22,3	91,3	24,6	85,4	27,2	81,7	28,9
9.2	5	110,0	23,4	104,3	25,9	98,2	28,7	91,8	31,9	87,8	34,0
	6	113,4	23,6	107,6	26,1	101,4	28,9	94,8	32,1	90,7	34,2
	7	116,9	23,8	110,9	26,3	**104,5**	**29,1**	97,8	32,3	93,5	34,4
	8	120,3	24,0	114,2	26,5	107,7	29,3	100,8	32,5	96,4	34,6
	9	123,8	24,1	117,5	26,6	110,9	29,5	103,8	32,7	99,3	34,8
	10	127,4	24,3	120,9	26,8	114,1	29,7	106,9	32,9	102,3	35,0
10.2	5	124,4	26,5	118,0	29,4	111,2	32,7	104,1	36,4	99,5	38,8
	6	128,1	26,7	121,6	29,6	114,6	32,9	107,3	36,6	102,7	39,1
	7	132,0	26,9	125,4	29,8	**118,1**	**33,1**	110,6	36,8	105,8	39,3
	8	135,8	27,1	128,9	30,0	121,7	33,3	113,9	37,1	109,0	39,5
	9	139,8	27,3	132,7	30,2	125,2	33,5	117,3	37,3	112,3	39,8
	10	143,7	27,5	136,5	30,4	128,8	33,8	120,7	37,5	115,6	40,0
12.2	5	146,1	32,2	138,4	35,5	130,1	39,2	121,2	43,4	115,6	46,1
	6	150,6	32,5	142,7	35,8	134,1	39,5	124,9	43,7	119,1	46,4
	7	154,9	32,7	146,8	36,1	**138,0**	**39,8**	128,6	44,0	122,7	46,7
	8	159,4	33,0	151,0	36,4	142,0	40,1	132,4	44,3	126,3	47,0
	9	163,9	33,3	155,3	36,6	146,1	40,4	136,2	44,6	130,0	47,3
	10	168,5	33,6	159,7	36,9	150,2	40,7	140,1	44,9	133,7	47,7

Pf:cooling capacity [kW]
Pe:electrical power absorbed by the compressors [kW]
T0:evaporator outgoing water temperature [°

OXFORD A - HEATING CAPACITY

Model	CONDENSER INGOING WATER TEMPERATURE [°C]									
	Ta	RH	30		35		40		43	
	[°C]	%	Pt	Pe	Pt	Pe	Pt	Pe	Pt	Pe
3.2	-5	90	39,1	9,9	38,8	11,0	38,5	12,2	38,4	13,0
	0	90	44,6	10,1	44,1	11,2	43,6	12,4	43,4	13,2
	5	80	49,8	10,3	49,2	11,3	48,5	12,5	48,1	13,3
	8	**70**	52,8	10,3	52,0	11,4	**51,1**	**12,6**	50,7	13,4
	10	70	55,3	10,4	54,5	11,5	53,6	12,7	53,1	13,5
	15	70	62,2	10,6	61,2	11,7	60,1	12,9	59,4	13,6
4.2	-5	90	44,7	11,7	45,0	13,0	45,3	14,4	45,6	15,3
	0	90	50,9	11,9	50,9	13,1	51,0	14,5	51,0	15,5
	5	80	56,7	12,1	56,5	13,3	56,4	14,7	56,3	15,6
	8	**70**	60,2	12,2	59,9	13,4	**59,6**	**14,8**	59,4	15,7
	10	70	62,9	12,3	62,4	13,5	61,9	14,9	61,7	15,8
	15	70	71,0	12,5	70,1	13,7	69,4	15,1	68,7	16,0
5.2	-5	90	50,4	13,0	50,1	14,4	49,9	16,0	49,8	17,1
	0	90	57,4	13,3	56,9	14,7	56,4	16,3	56,1	17,3
	5	80	64,2	13,5	63,4	14,9	62,7	16,5	62,2	17,5
	8	**70**	68,1	13,6	67,2	15,0	**66,2**	**16,6**	65,6	17,7
	10	70	71,1	13,7	70,1	15,1	69,1	16,7	68,5	17,8
	15	70	80,4	13,9	78,8	15,3	77,4	16,9	76,6	18,0
6.2	-5	90	56,9	14,9	56,9	16,5	57,0	18,3	*	*
	0	90	64,2	15,1	64,0	16,8	63,9	19,1	63,9	20,3
	5	80	71,0	15,4	70,7	17,1	70,3	19,2	70,2	20,4
	8	**70**	75,3	15,5	74,8	17,3	**74,2**	**19,3**	74,0	20,5
	10	70	78,7	15,6	77,8	17,5	77,2	19,4	76,9	20,6
	15	70	88,3	15,9	87,3	17,7	86,1	19,6	85,4	20,8
7.2	-5	90	68,5	17,0	67,9	19,1	67,3	21,9	67,2	23,3
	0	90	78,0	17,3	77,0	19,5	75,9	21,9	75,5	23,3
	5	80	87,0	17,6	85,6	19,7	84,3	22,0	83,6	23,3
	8	**70**	91,9	17,8	90,4	19,7	**88,8**	**22,1**	88,0	23,4
	10	70	96,4	17,9	94,8	19,8	93,0	22,1	92,1	23,4
	15	70	108,6	18,1	106,6	20,0	104,3	22,3	103,1	23,6
8.2	-5	90	76,3	20,1	75,7	22,7	75,1	25,5	74,9	27,2
	0	90	86,6	20,3	85,6	22,7	84,6	25,4	84,2	26,9
	5	80	96,6	20,4	95,2	22,6	93,7	25,3	93,0	26,8
	8	**70**	102,3	20,4	100,6	22,6	**98,8**	**25,3**	98,0	26,7
	10	70	107,0	20,4	105,3	22,6	103,5	25,3	102,6	26,7
	15	70	120,5	20,5	118,3	22,7	116,0	25,3	114,9	26,7
9.2	-5	90	88,5	24,1	89,0	26,9	88,5	29,9	88,4	31,9
	0	90	99,1	24,3	98,3	27,0	97,8	30,0	97,6	32,1
	5	80	110,9	24,4	109,6	27,1	108,4	30,2	107,8	32,2
	8	**70**	117,8	24,5	116,3	27,2	**114,8**	**30,3**	113,8	32,3
	10	70	123,1	24,6	121,4	27,3	119,8	30,4	118,9	32,4
	15	70	138,3	24,8	136,1	27,5	134,0	30,6	132,7	32,6
10.2	-5	90	103,9	26,9	103,0	30,4	102,5	34,2	102,2	36,3
	0	90	118,0	27,2	116,8	30,5	115,7	34,3	115,0	36,4
	5	80	131,4	27,4	129,8	30,6	128,1	34,4	127,3	36,5
	8	**70**	138,9	27,4	136,8	30,7	**134,9**	**34,5**	134,0	36,5
	10	70	145,4	27,5	143,3	30,7	141,2	34,5	140,1	36,5
	15	70	163,4	27,6	160,8	30,8	158,0	34,6	156,5	36,6
12.2	-5	90	116,2	30,1	115,6	33,5	115,0	37,3	114,6	40,9
	0	90	131,8	30,5	130,6	34,0	129,3	38,6	128,7	41,1
	5	80	146,6	30,7	144,9	34,4	143,1	38,8	142,1	41,2
	8	**70**	155,1	30,9	153,1	34,7	**150,7**	**38,9**	149,6	41,2
	10	70	161,7	31,0	159,4	34,9	157,2	38,9	156,0	41,3
	15	70	182,2	31,4	178,6	34,9	175,5	39,0	174,0	41,3

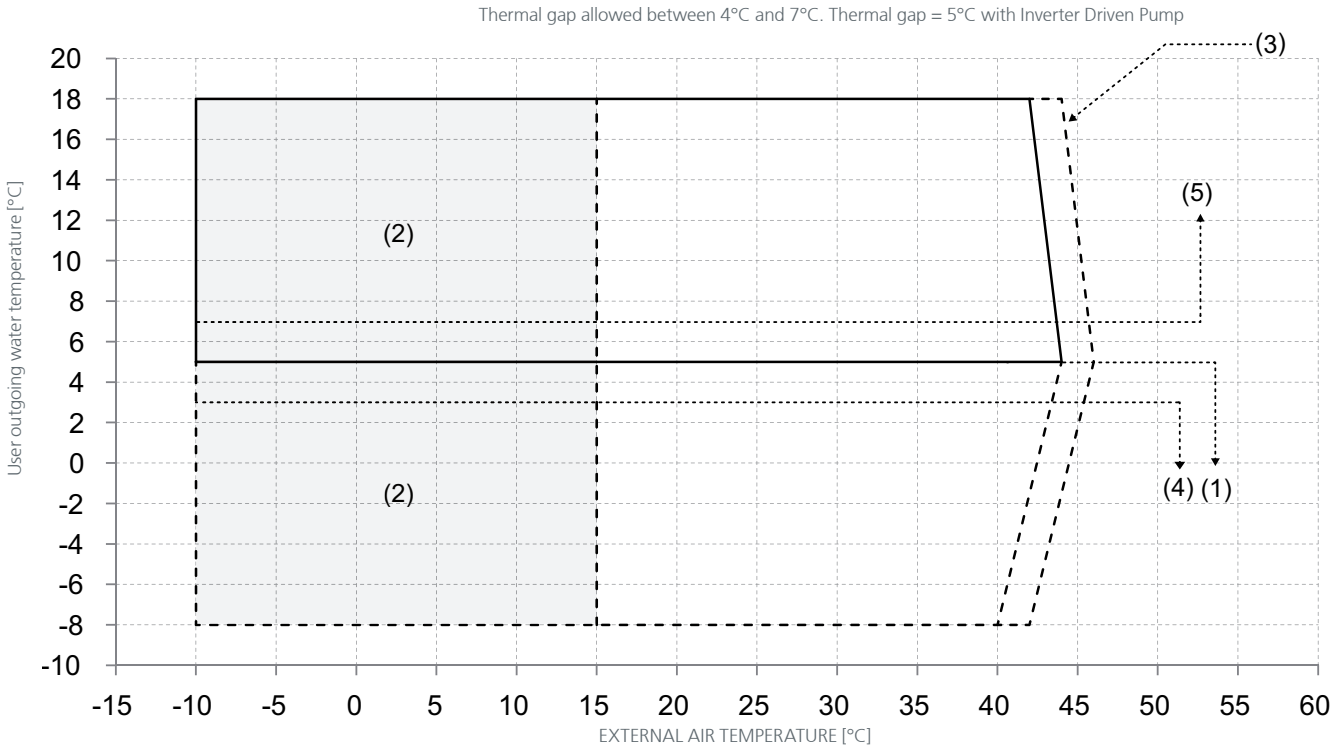
Pt: heating capacity [kW]
Pe: electrical power absorbed by the compressors [kW]
Ta: evaporator intake air temperature dry bulb [°C]
RH : evaporator intake air relative humidity [%]

OXFORD A - RECOVERY CAPACITY

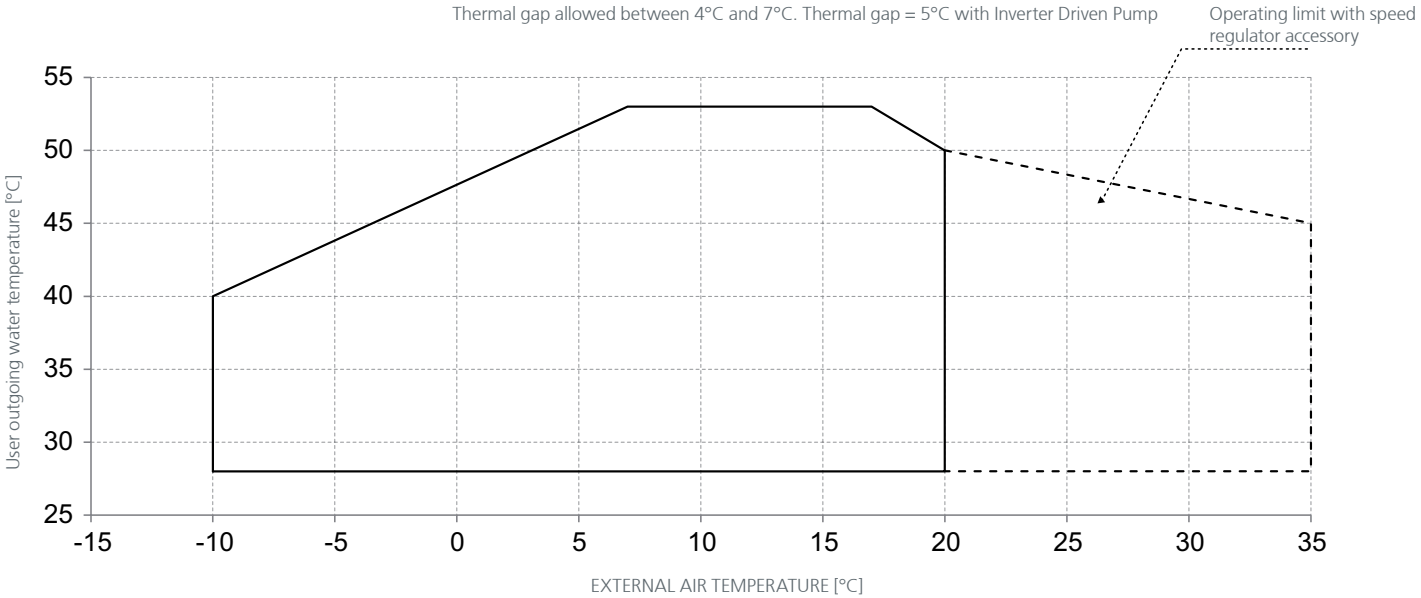
Model	To	CONDENSER INGOING WATER TEMPERATURE [°C]											
	[°C]	35			40			45			48		
		Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr	Pf	Pe	Pr
3.2	5	47,3	10,8	58,1	44,6	11,9	56,5	41,8	13,1	54,9	40,1	13,9	54,0
	7	50,5	10,9	61,4	47,7	12,0	59,7	**44,7**	**13,2**	**57,9**	42,9	14,0	56,9
	10	55,5	11,0	66,5	52,5	12,1	64,6	49,3	13,3	62,6	47,3	14,2	61,4
4.2	5	56,4	12,8	69,3	53,7	14,1	67,8	50,8	15,5	66,3	49,0	16,4	65,4
	7	60,3	13,0	73,2	57,4	14,2	71,6	**54,3**	**15,6**	**69,9**	52,2	16,5	68,8
	10	66,3	13,2	79,4	63,0	14,4	77,4	59,6	15,8	75,3	57,4	16,7	74,1
5.2	5	61,0	14,2	75,2	57,5	15,7	73,2	53,9	17,3	71,2	51,6	18,4	70,0
	7	65,1	14,3	79,4	61,5	15,8	77,3	**57,6**	**17,4**	**75,0**	55,2	18,5	73,7
	10	71,5	14,5	86,0	67,6	16,0	83,6	63,5	17,6	81,1	60,9	18,7	79,5
6.2	5	73,8	16,3	90,1	70,1	18,0	88,1	66,1	19,9	86,0	63,6	21,1	84,7
	7	78,7	16,5	95,1	74,7	18,1	92,8	**70,5**	**20,0**	**90,5**	67,8	21,2	89,0
	10	86,1	16,6	102,8	81,9	18,3	100,2	77,4	20,2	97,5	74,5	21,4	95,9
7.2	5	79,8	18,0	97,8	75,4	19,9	95,3	70,6	22,1	92,7	67,5	23,6	91,1
	7	85,2	18,2	103,4	80,4	20,1	100,5	**75,4**	**22,2**	**97,6**	72,1	23,7	95,8
	10	93,4	18,4	111,8	88,4	20,3	108,6	82,9	22,5	105,3	79,4	23,9	103,3
8.2	5	90,8	19,9	110,7	85,2	22,3	107,5	79,2	25,0	104,2	76,1	26,6	102,6
	7	96,9	20,0	116,8	90,9	22,4	113,4	**84,8**	**25,1**	**109,9**	81,6	26,5	108,1
	10	106,3	20,1	126,4	100,2	22,5	122,7	93,8	25,1	118,9	90,4	26,5	116,9
9.2	5	110,0	23,4	133,4	103,2	26,4	129,6	96,3	29,6	125,9	92,6	31,4	124,0
	7	117,2	23,6	140,8	110,5	26,4	136,9	**103,1**	**29,6**	**132,7**	99,2	31,4	130,6
	10	128,6	23,8	152,3	121,6	26,5	148,0	113,8	29,7	143,5	109,7	31,4	141,1
10.2	5	123,9	26,8	150,7	116,5	30,2	146,7	108,9	34,0	142,9	104,7	36,1	140,8
	7	132,1	27,0	159,1	124,7	30,2	154,9	**116,5**	**34,0**	**150,5**	112,1	36,1	148,2
	10	145,0	27,1	172,2	137,2	30,3	167,5	128,5	34,0	162,5	123,8	36,2	160,0
12.2	5	148,5	31,3	179,7	139,8	34,9	174,7	130,5	39,0	169,5	125,4	41,3	166,7
	7	158,3	31,5	189,7	149,5	34,9	184,4	**139,7**	**39,0**	**178,7**	134,4	41,3	175,7
	10	174,1	31,6	205,7	164,7	35,0	199,7	154,1	39,1	193,2	148,5	41,4	189,8

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

OPERATING LIMITS COOLING - OXFORD CH-HP

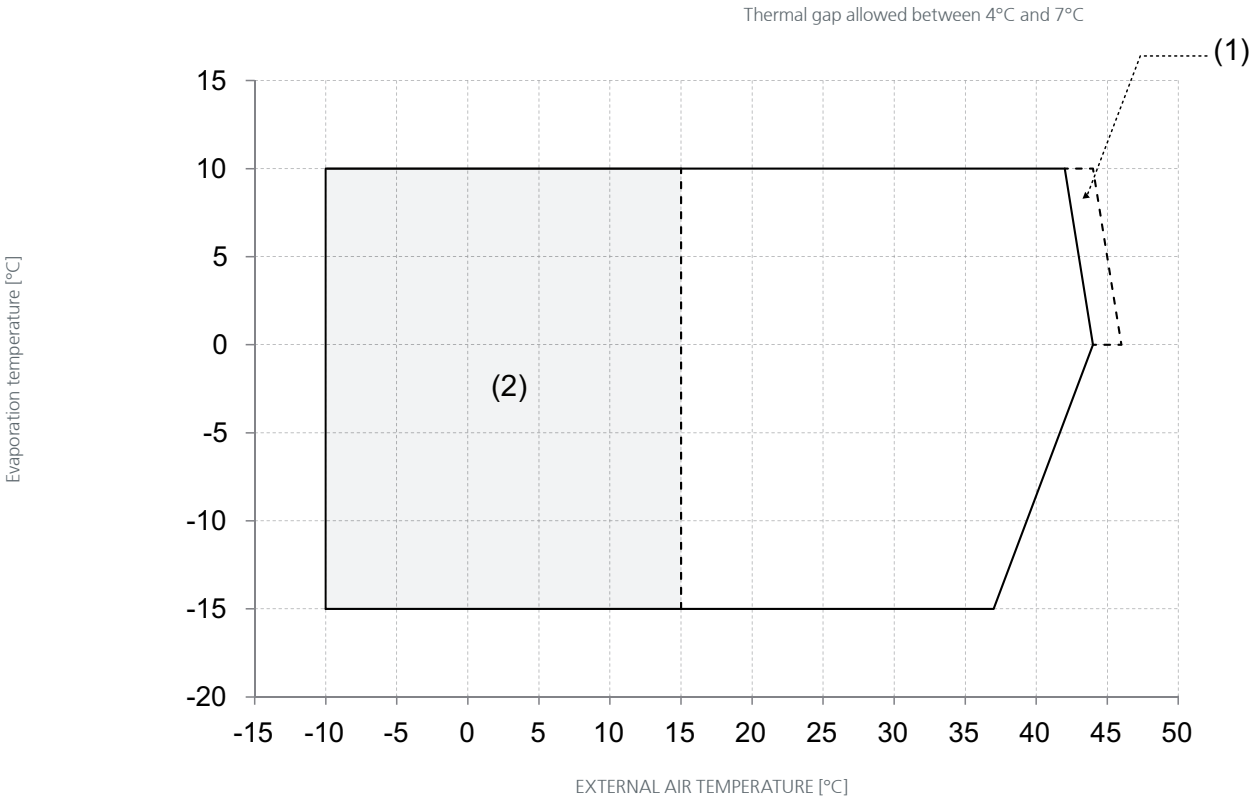


OPERATING LIMITS HEATING - OXFORD CH-HP

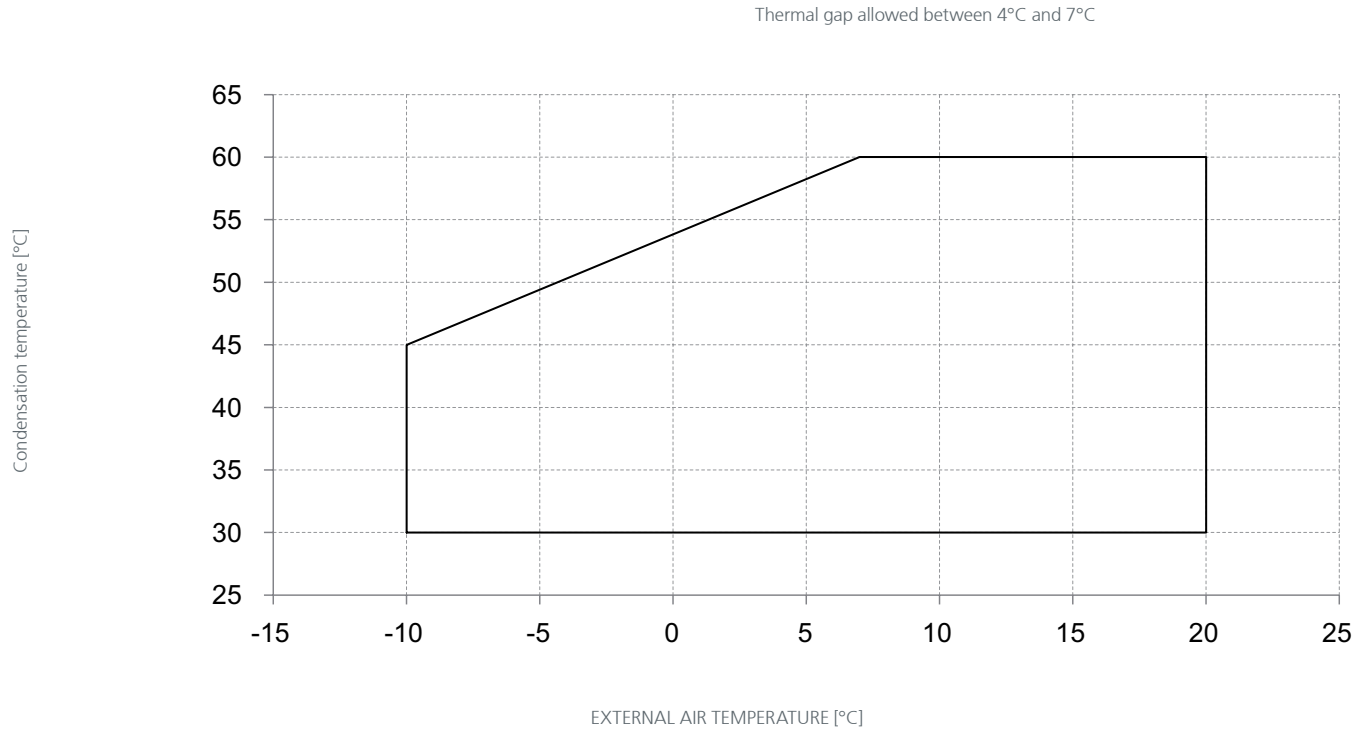


(1) Workin limit in case of forced capacity control
(2) With low ambient temperature Kit

OPERATING LIMITS COOLING - OXFORD LE - LE/HP

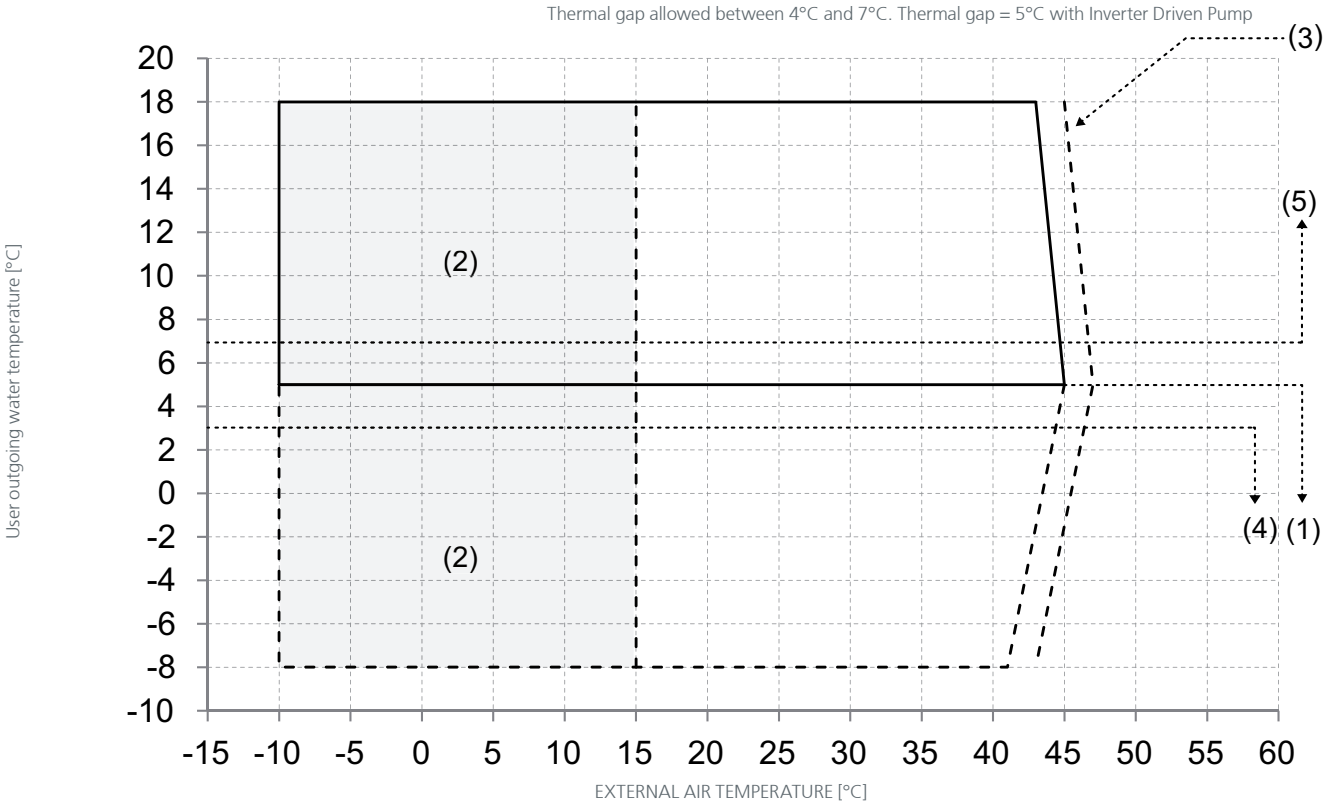


OPERATING LIMITS HEATING - OXFORD LE - LE/HP

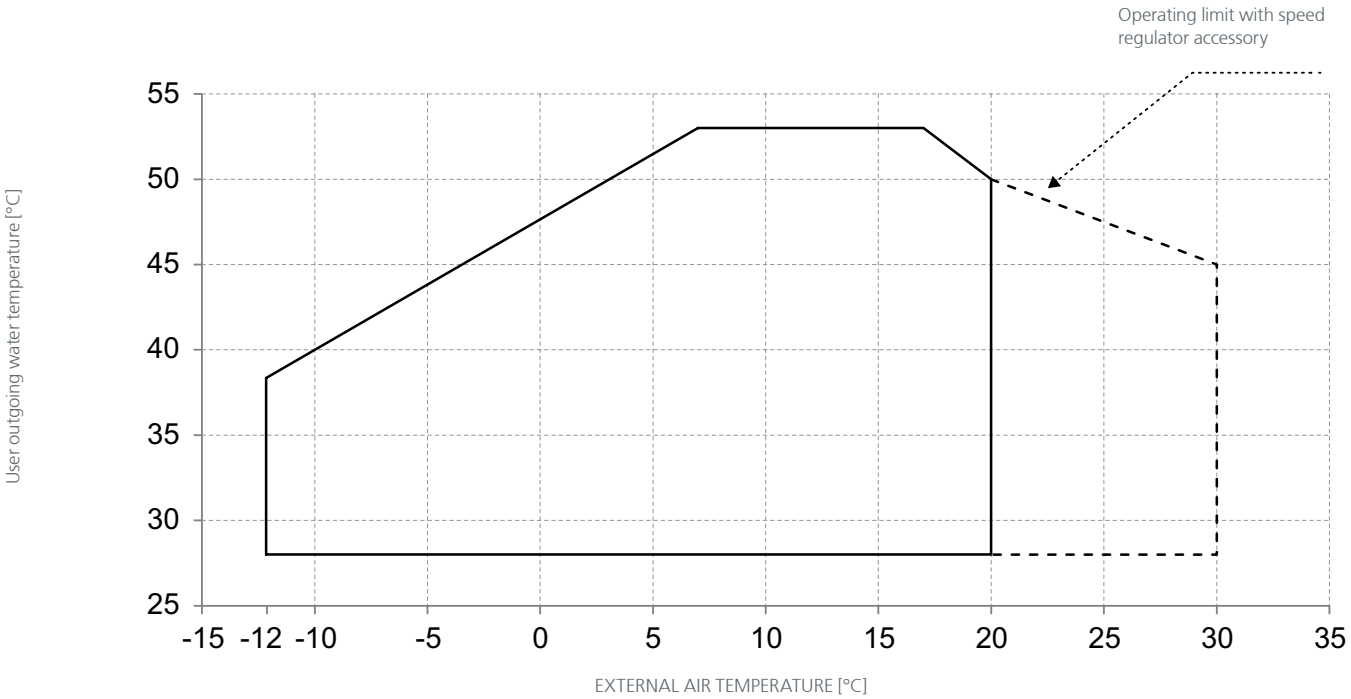


(1) Workin limit in case of forced capacity control
(2) With low ambient temperature Kit

OPERATING LIMITS COOLING - OXFORD A CH/HP



OPERATING LIMITS HEATING - OXFORD A CH/HP



(1) Operating range for unit with ethilene glicol
(2) With low ambient temperature Kit
(3) Workin limit in case of forced capacity control
(4) Brine kit limit
(5) Minimum Outlet water temperature with Inverter Driven Pump. Contact Commercial Office for lower limits

NOISE LEVELS - OXFORD

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	83	51	86	54	81	49	79	47	79	47	73	41	68	36	57	25	83	51
4.2	83	51	87	55	81	49	81	49	79	47	73	41	70	38	57	25	83	51
5.2	83	51	87	55	81	49	81	49	79	47	73	41	70	38	57	25	83	51
6.2	83	51	87	55	81	49	81	49	79	47	73	41	70	38	57	25	83	51
7.2	84	52	88	56	82	50	82	50	80	48	74	42	71	39	58	26	84	52
8.2	85	53	89	57	83	51	83	51	81	49	75	43	72	40	60	28	85	53
9.2	85	53	89	57	83	51	83	51	82	50	76	44	72	40	60	28	86	54
10.2	85	52	89	56	83	50	83	50	82	49	76	43	72	39	60	27	86	53
12.2	86	53	90	57	84	51	84	51	83	50	77	44	73	40	61	28	87	54
13.2	86	53	90	57	84	51	84	51	83	50	77	44	73	40	61	28	87	54

NOISE LEVELS - OXFORD/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	82	50	83	51	78	46	77	45	77	45	71	39	66	34	55	23	81	49
4.2	82	50	84	52	78	46	78	46	77	45	71	39	67	35	55	23	81	49
5.2	82	50	84	52	78	46	78	46	77	45	71	39	67	35	55	23	81	49
6.2	82	50	84	52	78	46	78	46	77	45	71	39	67	35	55	23	81	49
7.2	83	51	85	53	79	47	79	47	78	46	72	40	69	37	57	25	82	50
8.2	84	52	86	54	80	48	80	48	79	47	73	41	70	38	58	26	83	51
9.2	84	52	87	55	81	49	81	49	80	48	74	42	70	38	58	26	84	52
10.2	84	51	87	54	81	48	81	48	80	47	74	41	70	37	58	25	84	51
12.2	85	52	88	55	82	49	82	49	81	48	75	42	71	38	59	26	85	52
13.2	85	52	88	55	82	49	82	49	81	48	75	42	71	38	59	26	85	52

NOISE LEVELS - OXFORD/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	80	48	79	47	73	41	73	41	72	40	66	34	62	30	50	18	76	44
4.2	80	48	79	47	74	42	74	42	73	41	67	35	63	31	51	19	77	45
5.2	80	48	79	47	75	43	74	42	74	42	68	36	64	32	52	20	78	46
6.2	80	48	80	48	75	43	75	43	74	42	68	36	64	32	52	20	78	46
7.2	81	49	81	49	76	44	76	44	75	43	69	37	65	33	53	21	79	47
8.2	82	50	82	50	77	45	77	45	76	44	70	38	66	34	54	22	80	48
9.2	82	50	83	51	78	46	78	46	77	45	71	39	67	35	55	23	81	49
10.2	82	49	84	51	79	46	79	46	78	45	72	39	68	35	56	23	82	49
12.2	83	50	84	51	79	46	79	46	78	45	72	39	68	35	56	23	82	49
13.2	83	50	84	51	81	48	79	46	79	46	73	40	68	35	57	24	83	50

Lw:noise power levels measured in free field according to standard ISO 3744; under nominal operating conditions.
Lp:sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.

NOISE LEVELS - OXFORD A

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	80,1	48,1	82,7	50,7	77,8	45,8	76,6	44,6	76,6	44,6	70,4	38,4	65,7	33,7	54,6	22,6	80	48
4.2	80,5	48,5	83,0	51,0	78,1	46,1	77,9	45,9	76,3	44,3	70,7	38,7	65,9	33,9	54,8	22,8	80	48
5.2	81,0	49,0	84,0	52,0	78,8	46,8	77,7	45,7	77,0	45,0	70,7	38,7	65,9	33,9	54,8	22,8	81	49
6.2	81,0	49,0	84,0	52,0	78,8	46,8	77,7	45,7	77,0	45,0	70,7	38,7	65,9	33,9	54,8	22,8	81	49
7.2	83,0	51,0	86,0	54,0	81,8	49,8	79,6	47,6	77,9	45,9	71,5	39,5	66,6	34,6	55,8	23,8	82	50
8.2	84,5	52,5	86,5	54,5	83,2	51,2	83,5	51,5	80,3	48,3	75,4	43,4	71,6	39,6	59,5	27,5	85	53
9.2	84,4	52,4	87,9	55,9	82,7	50,7	82,8	50,8	80,2	48,2	74,4	42,4	71,2	39,2	59,9	27,9	85	53
10.2	85,0	53,0	88,3	56,3	83,2	51,2	83,2	51,2	81,1	49,1	75,8	43,8	72,1	40,1	59,9	27,9	85	53
12.2	85,0	53,0	88,3	56,3	83,2	51,2	83,2	51,2	81,1	49,1	75,8	43,8	72,1	40,1	59,9	27,9	85	53

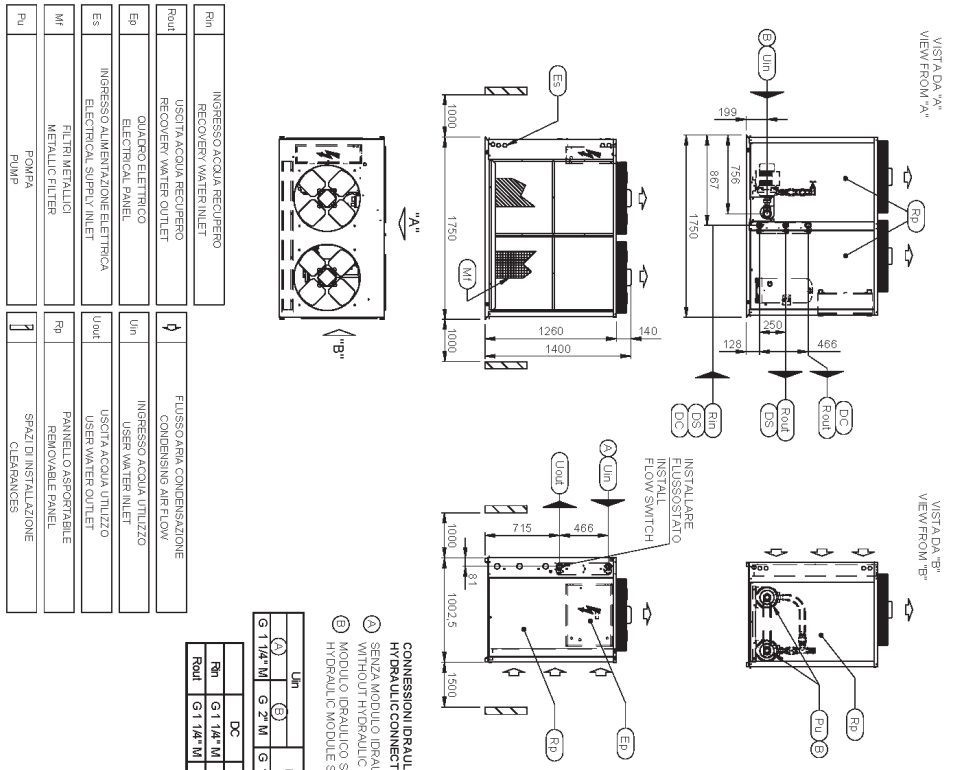
NOISE LEVELS - OXFORD A/LN

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	78,0	46,0	79,1	47,1	74,3	42,3	74,1	42,1	73,1	41,1	67,1	35,1	62,3	30,3	51,4	19,4	77	45
4.2	78,4	46,4	79,5	47,5	75,0	43,0	75,1	43,1	74,0	42,0	67,3	35,3	62,4	30,4	53,0	21,0	78	46
5.2	80,6	48,6	81,0	49,0	76,3	44,3	75,3	43,3	75,0	43,0	69,2	37,2	64,5	32,5	55,0	23,0	79	47
6.2	80,7	48,7	81,3	49,3	76,3	44,3	75,5	43,5	75,0	43,0	69,2	37,2	65,0	33,0	55,0	23,0	79	47
7.2	81,1	49,1	83,0	51,0	77,0	45,0	78,2	46,2	76,1	44,1	70,3	38,3	65,2	33,2	55,3	23,3	80	48
8.2	82,5	50,5	86,0	54,0	81,0	49,0	80,2	48,2	78,2	46,2	72,7	40,7	69,1	37,1	57,0	25,0	83	51
9.2	82,7	50,7	86,0	54,0	81,0	49,0	80,2	48,2	78,2	46,2	72,7	40,7	69,1	37,1	57,2	25,2	83	51
10.2	82,9	50,9	87,2	55,2	81,3	49,3	80,2	48,2	78,5	46,5	73,0	41,0	69,8	37,8	57,5	25,5	83	51
12.2	83,2	51,2	87,3	55,3	81,4	49,4	80,2	48,2	79,0	47,0	73,4	41,4	70,2	38,2	57,9	25,9	83	51

Lw:noise power levels measured in free field according to standard ISO 3744; under nominal operating conditions.
Lp:sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.

DIMENSIONAL DRAWING

OXFORD 3.2 - 5.2



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

CONNESSIONI IDRAULICHE
HYDRAULIC CONNECTIONS

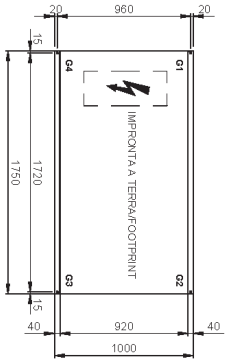
Ⓐ SENZA MODULO IDRAULICO / WITHOUT HYDRAULIC MODULE
Ⓑ MODULO IDRAULICO ST1P-2P / HYDRAULIC MODULE ST1P-2P

Uin Ⓐ	Uin Ⓑ	Uout
G 1 1/4" M	G 2" M	G 1 1/4" M

DC	DS
Rin: G 1 1/4" M	G 1"F
Rout: G 1 1/4" M	G 1"F

MODELLO / MODEL	PESO(Kg) / WEIGHT(Kg)	PESO IN FUNZIONE(Kg) / OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS 3.2	425	428	147	72	69	140
ZETA ECHOS 4.2	436	439	152	74	69	144
ZETA ECHOS 5.2	449	453	155	75	73	150
ZETA ECHOS ST 1P-2P3.2	470	473	155	90	84	144
ZETA ECHOS ST 1P-2P4.2	481	484	161	91	84	148
ZETA ECHOS ST 1P-2P5.2	494	498	163	93	88	154
ZETA ECHOS DC-DS 3.2	463	459	163	82	72	142
ZETA ECHOS DC-DS 4.2	467	474	171	85	72	146
ZETA ECHOS DC-DS 5.2	485	493	175	88	77	153
ZETA ECHOS ST 1P-2P-DC-DS 3.2	505	511	174	101	87	149
ZETA ECHOS ST 1P-2P-DC-DS 4.2	518	525	182	103	87	153
ZETA ECHOS ST 1P-2P-DC-DS 5.2	537	545	187	107	91	160
ZETA ECHOS HP 3.2	447	450	157	76	71	146
ZETA ECHOS HP 4.2	458	461	163	78	71	149
ZETA ECHOS HP 5.2	471	475	165	79	75	156
ZETA ECHOS HP-ST 1P-2P 3.2	491	494	165	94	85	150
ZETA ECHOS HP-ST 1P-2P 4.2	502	505	171	95	85	154
ZETA ECHOS HP-ST 1P-2P 5.2	515	519	173	97	89	160
ZETA ECHOS HP-DS 3.2	451	455	160	78	71	146
ZETA ECHOS HP-DS 4.2	465	469	167	80	72	150
ZETA ECHOS HP-DS 5.2	475	480	168	82	75	155
ZETA ECHOS HP-ST 1P-2P-DS 3.2	496	500	168	96	86	150
ZETA ECHOS HP-ST 1P-2P-DS 4.2	508	512	175	97	86	154
ZETA ECHOS HP-ST 1P-2P-DS 5.2	519	524	176	99	90	159

Fh — FORI DI FISSAGGIO / FIXING HOLES — Ø12
G — PUNTI DI APPOGGIO ANTIVIBRANTI / VIBRATION DAMPER FOOT HOLDS



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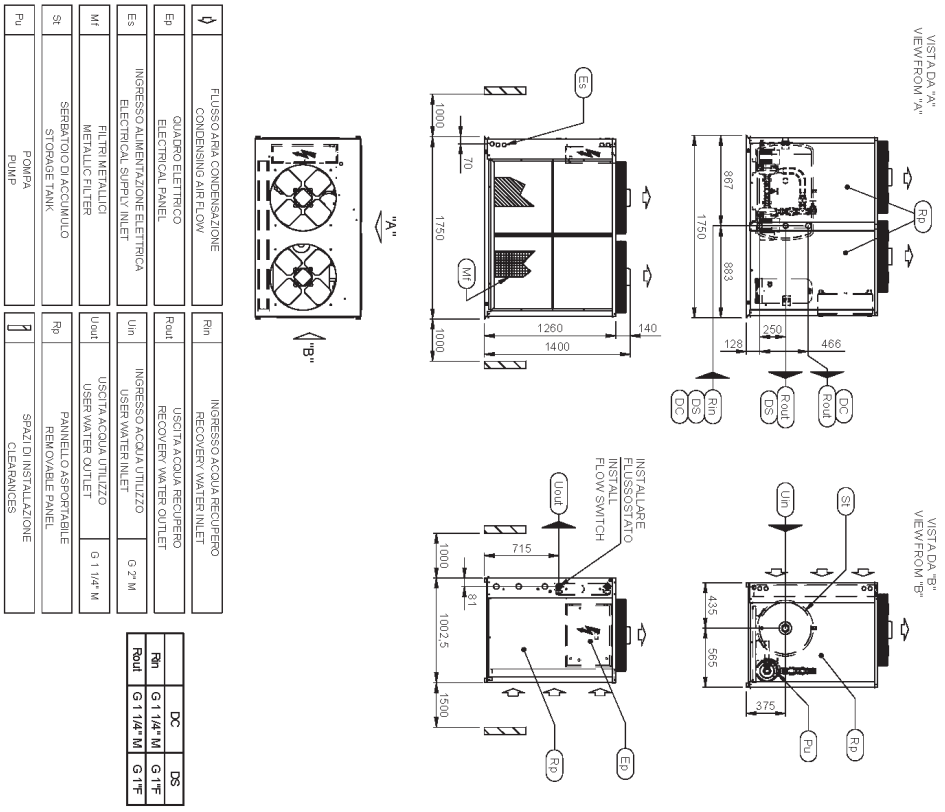
DIMENSIONAL DRAWING

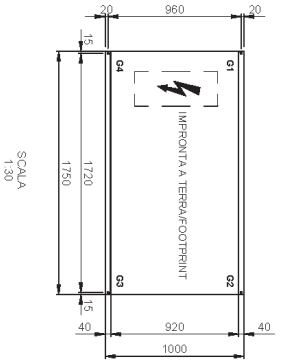
OXFORD 3.2 - 5.2 1PS - 2PS



	Rin	DC	DS
Rout	G 1 1/4" M	G 1"F	G 1"F

Fu	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET
Ep	QUADRO ELETTRICO ELECTRICAL PANEL	Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET G 2" M
Mf	FILTRI METALLICI METALLIC FILTER	Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET G 1 1/4" M
St	SERBATOIO DI ACCUMULO STORAGE TANK	Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
Pu	POMPA PUMP		SPAZI DI INSTALLAZIONE CLEARANCES

Fh	FORI DI FISSAGGIO FIXING HOLES	Ø12
G.	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	



MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS ST 1PS-2PS-S 3.2	517	690	296	136	81	177
ZETA ECHOS ST 1PS-2PS-S 4.2	529	702	302	137	82	181
ZETA ECHOS ST 1PS-2PS-S 5.2	544	718	305	139	86	188
ZETA ECHOS HP-ST 1PS-2PS-S 3.2	540	713	307	140	83	183
ZETA ECHOS HP-ST 1PS-2PS-S 4.2	562	725	313	141	84	187
ZETA ECHOS HP-ST 1PS-2PS-S 5.2	562	736	314	142	87	193
ZETA ECHOS ST 1PS-S-DC-DS 3.2	532	708	308	138	81	181
ZETA ECHOS ST 1PS-S-DC-DS 4.2	547	724	316	141	82	186
ZETA ECHOS ST 1PS-S-DC-DS 5.2	563	741	320	144	86	191
ZETA ECHOS HP-ST 1PS-S-DS 3.2	529	703	305	134	81	183
ZETA ECHOS HP-ST 1PS-S-DS 4.2	541	715	312	135	81	187
ZETA ECHOS HP-ST 1PS-S-DS 5.2	554	729	313	138	85	193

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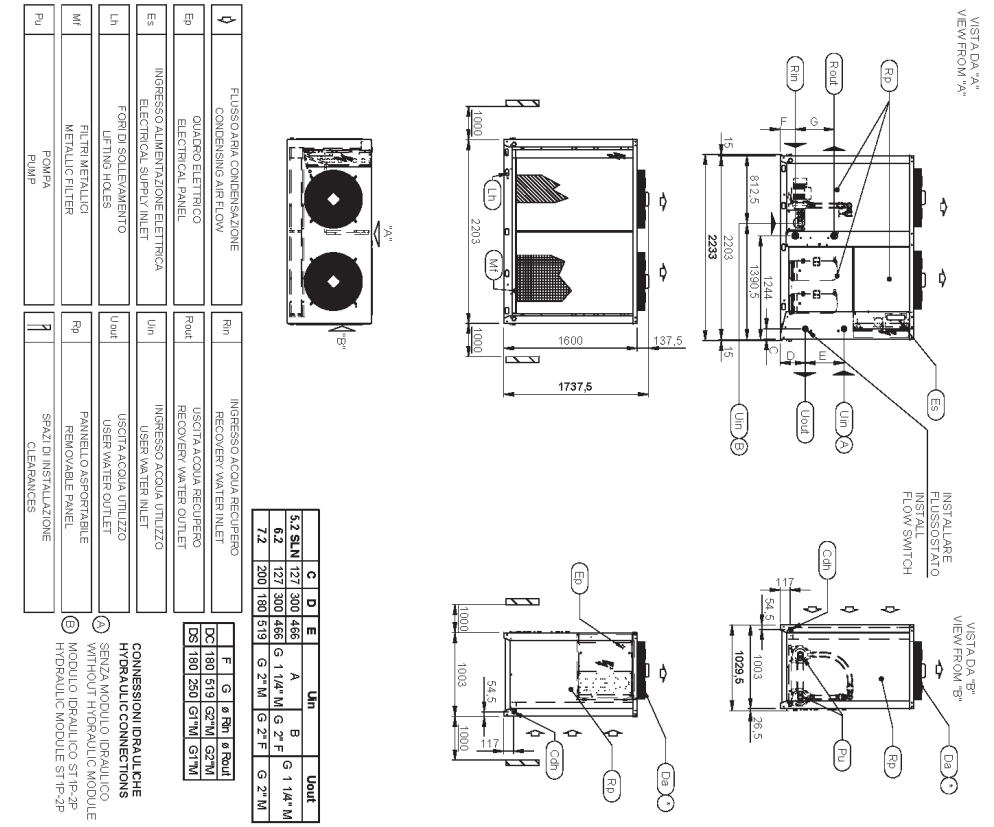
DIMENSIONAL DRAWING

OXFORD 6.2 - 7.2 - ZETA 5.2 SLN



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
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
Pu	SPAZI DI INSTALLAZIONE CLEARANCES

Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES
Mf	FILTRI METALLICI METALLIC FILTER
Pu	POMPA PUMP

Ep	QUADRO ELETTRICO ELECTRICAL PANEL
Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET
Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET
Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
Pu	SPAZI DI INSTALLAZIONE CLEARANCES

Φ	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW
Ep	QUADRO ELETTRICO ELECTRICAL PANEL
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES
Mf	FILTRI METALLICI METALLIC FILTER
Pu	POMPA PUMP

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
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
Pu	SPAZI DI INSTALLAZIONE CLEARANCES

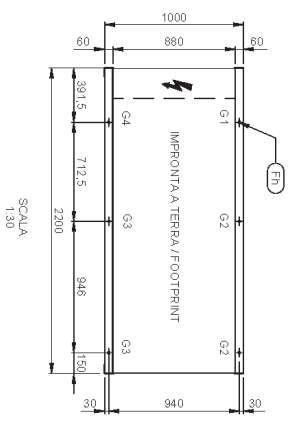
	C	D	E	Uin	Uout
5.2 SLN	127	300	466	A	B	Uout
6.2	127	300	466	G 1 1/4" M	G 2" F	G 1 1/4" M
7.2	200	180	619	G 2" M	G 2" F	G 2" M

	F	G	ø Rin	ø Rout
DC	180	519	G2"M	G2"M
DS	180	250	G1"M	G2"M
			G1"M	G1"M

CONNESSIONI IDRAULICHE
HYDRAULIC CONNECTIONS

(A) SENZA MODULO IDRAULICO
WITHOUT HYDRAULIC MODULE

(B) MODULO IDRAULICO ST 1P-2P
HYDRAULIC MODULE ST 1P-2P



MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS 6.2	627	631	215	62	53	186
ZETA ECHOS ST 1P-2P 6.2	681	685	212	80	67	179
ZETA ECHOS DC-DS 6.2	677	686	233	69	59	197
ZETA ECHOS ST 1P-2P-DC-DS 6.2	731	740	233	86	71	193
ZETA ECHOS HP 6.2	670	674	231	62	56	207
ZETA ECHOS HP-ST 1P-2P 6.2	723	727	231	78	69	202
ZETA ECHOS HP-DS 6.2	675	680	231	62	57	211
ZETA ECHOS HP-ST 1P-2P-DS 6.2	729	734	231	79	70	205
ZETA ECHOS 7.2	652	658	234	64	52	192
ZETA ECHOS ST 1P-2P 7.2	706	712	230	82	66	186
ZETA ECHOS DC-DS 7.2	700	711	252	71	57	203
ZETA ECHOS ST 1P-2P-DC-DS 7.2	755	766	251	88	70	199
ZETA ECHOS HP 7.2	693	699	250	64	54	213
ZETA ECHOS HP-ST 1P-2P 7.2	747	753	250	80	67	209
ZETA ECHOS HP-DS 7.2	702	709	251	64	56	218
ZETA ECHOS HP-ST 1P-2P-DS 7.2	754	761	249	81	69	212
ZETA ECHOS SLN 5.2	625	628	211	62	54	185
ZETA ECHOS ST 1P-2P-SLN 5.2	679	682	208	80	68	178
ZETA ECHOS SLN-DC-DS 5.2	657	669	224	70	59	187
ZETA ECHOS ST 1P-2P-SLN-DC-DS 5.2	717	725	225	85	71	188
ZETA ECHOS HP-SLN 5.2	661	664	225	62	56	203
ZETA ECHOS HP-ST 1P-2P-SLN 5.2	714	717	225	78	69	198
ZETA ECHOS HP-SLN-DS 5.2	665	669	225	62	57	206
ZETA ECHOS HP-ST 1P-2P-SLN-DS 5.2	719	723	224	79	70	201

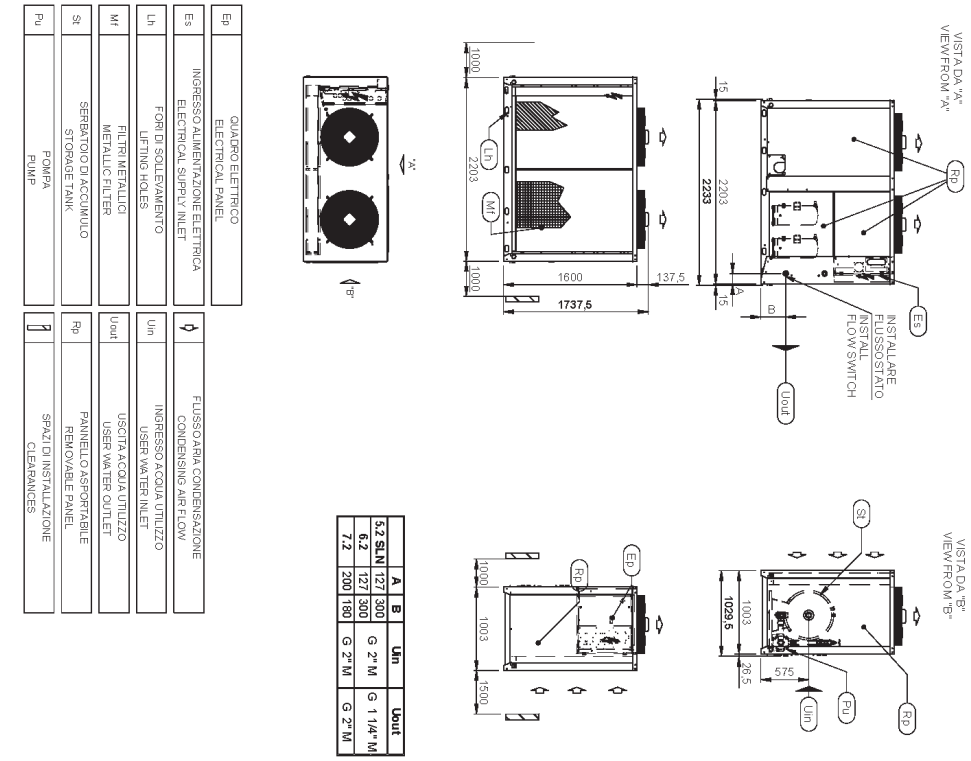
Fh	FORI DI FISSAGGIO FIXING HOLES
G.	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS

Ø16

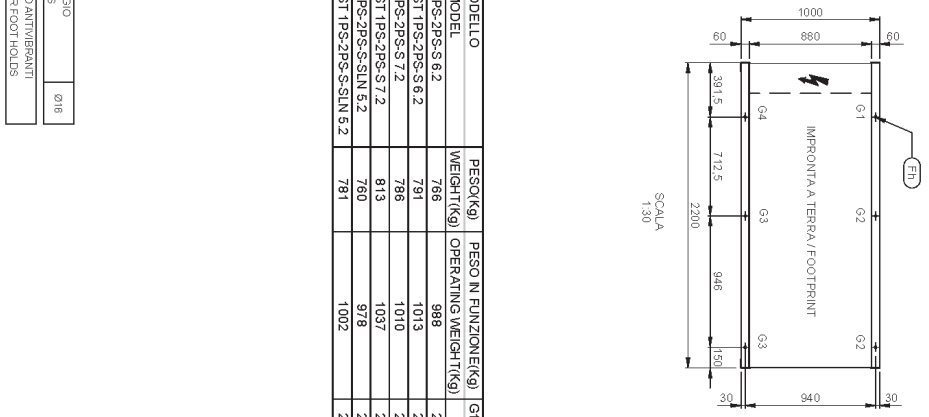
A47310E

DIMENSIONAL DRAWING

OXFORD 6.2 - 7.2 2PS - 5.2 SLN 2PS



	A	B	Uin	Uout
5.2 SLN	127	300	G 2" M	G 1 1/4" M
6.2	127	300	G 2" M	G 2" M
7.2	200	180	G 2" M	G 2" M

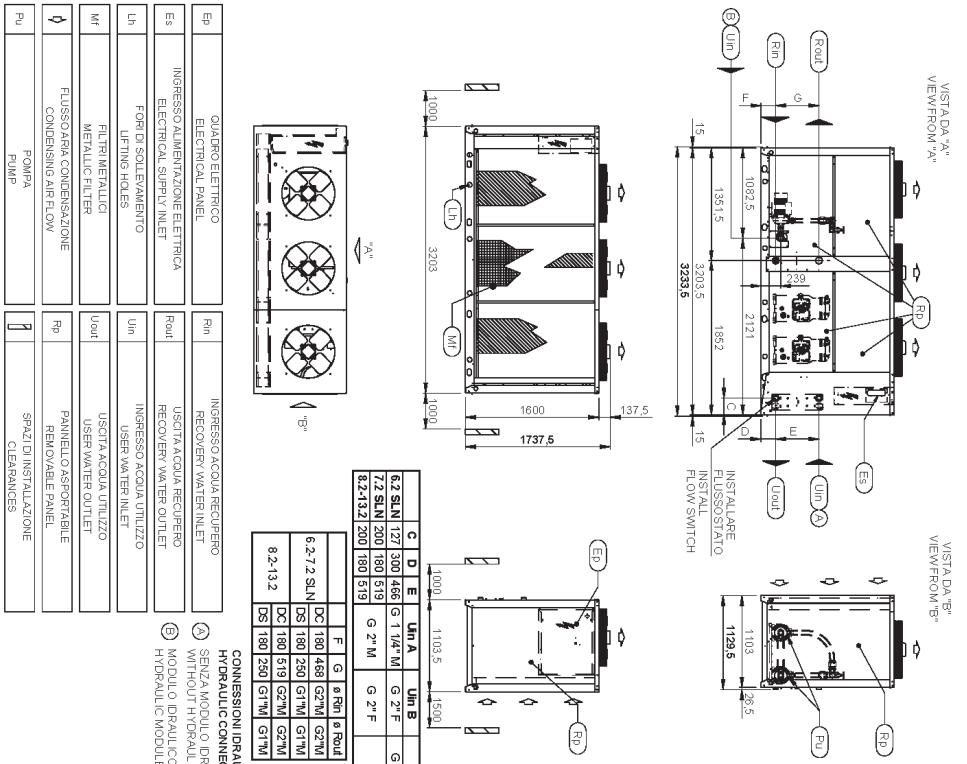


MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS ST 1PS-2PS-S 6.2	766	988	221	165	131	175
ZETA ECHOS HP-ST 1PS-2PS- S 6.2	791	1013	231	164	133	188
ZETA ECHOS ST 1PS-2PS-S 7.2	786	1010	238	167	128	182
ZETA ECHOS HP-ST 1PS-2PS-S 7.2	813	1037	248	166	131	195
ZETA ECHOS ST 1PS-2PS-S-SLN 5.2	760	978	217	163	131	173
ZETA ECHOS HP-ST 1PS-2PS-S-SLN 5.2	781	1002	225	164	133	193

A48209E

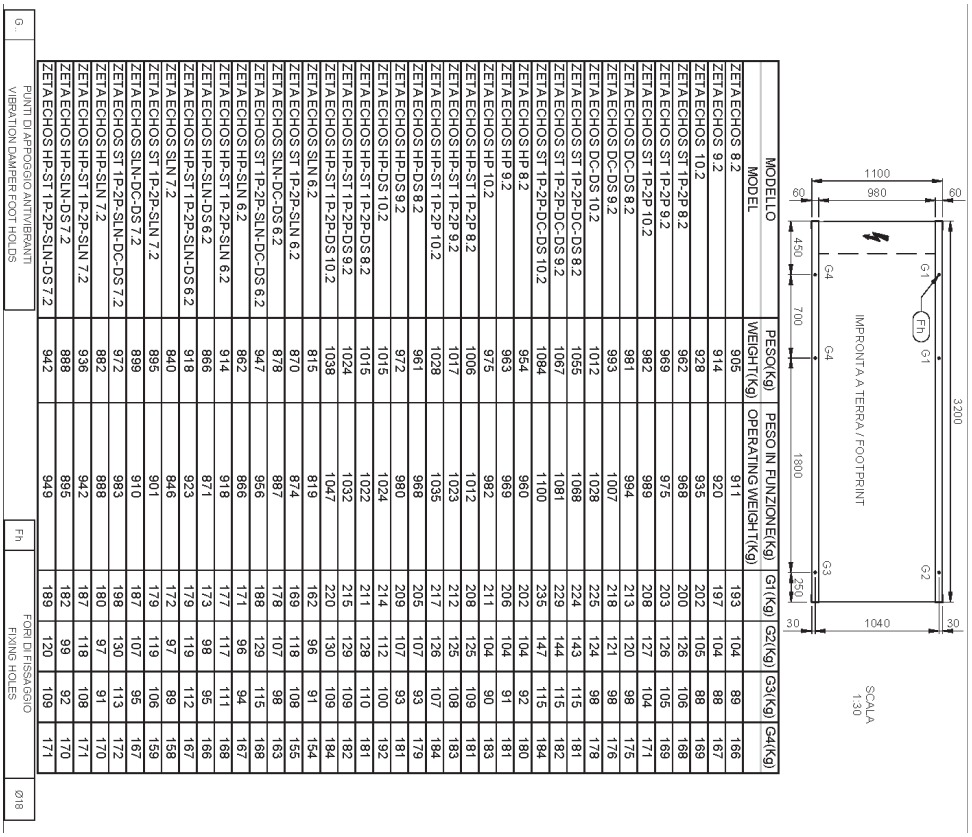
DIMENSIONAL DRAWING

OXFORD 8.2 - 10.2 - OXFORD 6.2 - 7.2 SLN



	C	D	E	Uin A	Uin B	Uout
6.2 SLN	127	300	466	G 1 1/4" M	G 2" F	G 1 1/4" M
7.2 SLN	200	180	519	G 2" M	G 2" F	G 2" M
8.2-13.2	200	180	519	G 2" M	G 2" F	G 2" M

		F	G	ø Rin	ø Rout
6.2-7.2 SLN	DC	180	468	G2"M	G2"M
	DS	180	250	G1"M	G1"M
8.2-13.2	DC	180	519	G2"M	G2"M
	DS	180	250	G1"M	G1"M



MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS 8.2	905	911	193	104	88	166
ZETA ECHOS 9.2	914	920	197	104	88	167
ZETA ECHOS 10.2	928	935	202	105	88	169
ZETA ECHOS ST 1P-2P 8.2	962	968	200	106	106	168
ZETA ECHOS ST 1P-2P 9.2	969	975	203	126	105	169
ZETA ECHOS ST 1P-2P 10.2	982	989	208	127	104	171
ZETA ECHOS DC-DS 8.2	981	994	213	120	104	175
ZETA ECHOS DC-DS 9.2	993	1007	218	121	98	176
ZETA ECHOS DC-DS 10.2	1012	1028	225	124	98	178
ZETA ECHOS ST 1P-2P-DC-DS 8.2	1055	1068	224	143	115	181
ZETA ECHOS ST 1P-2P-DC-DS 9.2	1067	1081	229	144	115	182
ZETA ECHOS ST 1P-2P-DC-DS 10.2	1084	1100	235	147	115	184
ZETA ECHOS HP 8.2	954	960	202	104	92	180
ZETA ECHOS HP 9.2	963	969	206	104	91	181
ZETA ECHOS HP 10.2	975	982	211	104	90	183
ZETA ECHOS HP-ST 1P-2P 8.2	1006	1012	208	125	109	181
ZETA ECHOS HP-ST 1P-2P 9.2	1017	1023	212	125	108	183
ZETA ECHOS HP-ST 1P-2P 10.2	1028	1035	217	126	107	184
ZETA ECHOS HP-DS 8.2	961	968	205	107	93	179
ZETA ECHOS HP-DS 9.2	972	980	209	107	93	181
ZETA ECHOS HP-DS 10.2	1015	1024	214	112	100	192
ZETA ECHOS HP-ST 1P-2P-DS 8.2	1015	1022	211	128	110	181
ZETA ECHOS HP-ST 1P-2P-DS 9.2	1024	1032	215	129	109	182
ZETA ECHOS HP-ST 1P-2P-DS 10.2	1038	1047	220	130	109	184
ZETA ECHOS SLN 6.2	815	819	162	96	91	154
ZETA ECHOS ST 1P-2P-SLN 6.2	870	874	169	118	108	155
ZETA ECHOS SLN-DC-DS 6.2	878	887	178	107	98	163
ZETA ECHOS ST 1P-2P-SLN-DC-DS 6.2	947	956	188	129	115	168
ZETA ECHOS HP-SLN 6.2	862	866	171	96	94	167
ZETA ECHOS HP-ST 1P-2P-SLN 6.2	914	918	177	117	111	168
ZETA ECHOS HP-SLN-DS 6.2	866	871	173	98	95	166
ZETA ECHOS HP-ST 1P-2P-SLN-DS 6.2	918	923	179	119	112	167
ZETA ECHOS SLN 7.2	840	848	172	97	89	158
ZETA ECHOS ST 1P-2P-SLN 7.2	895	901	179	119	106	159
ZETA ECHOS SLN-DC-DS 7.2	899	910	187	107	95	167
ZETA ECHOS ST 1P-2P-SLN-DC-DS 7.2	972	983	198	130	113	172
ZETA ECHOS HP-SLN 7.2	882	888	180	97	91	170
ZETA ECHOS HP-ST 1P-2P-SLN 7.2	936	942	187	118	108	171
ZETA ECHOS HP-SLN-DS 7.2	888	895	182	99	92	170
ZETA ECHOS HP-ST 1P-2P-SLN-DS 7.2	942	949	189	120	109	171

G PUNTI DI APPOGGIO ANTIVIBRANTI
VIBRATION DAMPER FOOT HOLDS

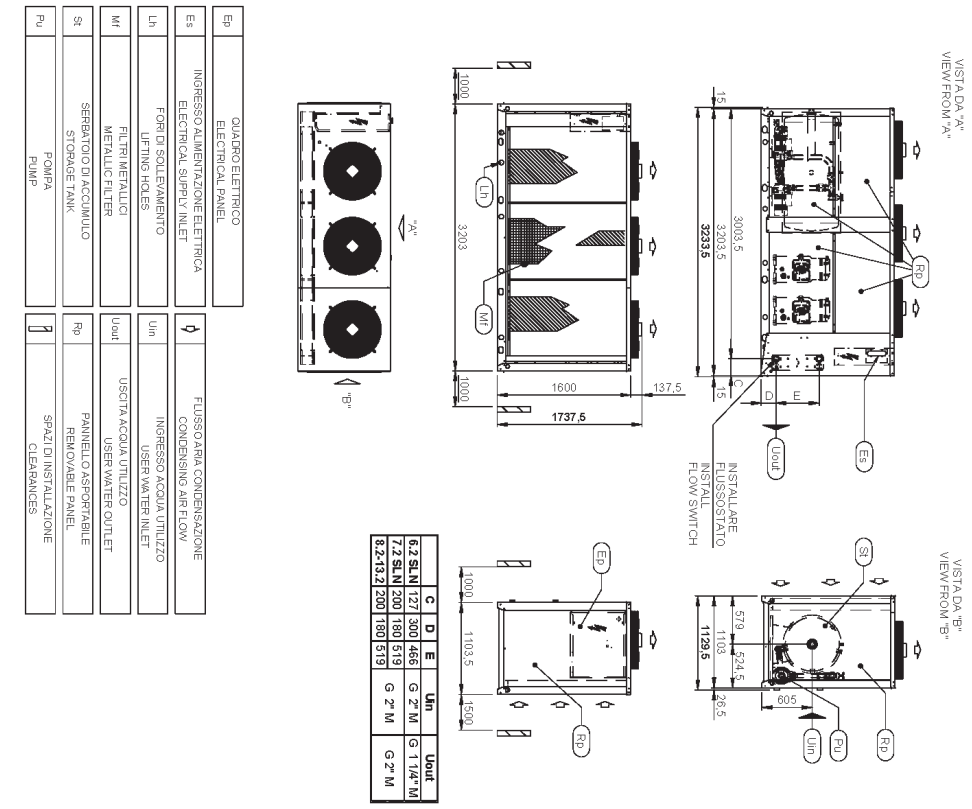
Fh FORI DI FISSAGGIO
FIXING HOLES

Ø18

A48187E

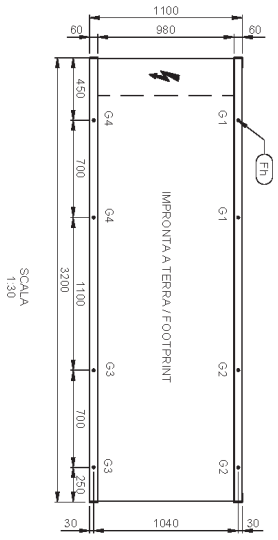
DIMENSIONAL DRAWING

OXFORD 8.2 - 10.2 2PS - OXFORD SLN 6 - 7.2 2PS



Ep	QUADRO ELETTRICO ELECTRICAL PANEL
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES
Mf	FILTRI METALLICI METALLIC FILTER
St	SERBATOIO DI ACCUMULO STORAGE TANK
Pu	POMPA PUMP
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW
Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET
Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET
Ro	PANNELLO ASPORTABILE REMOVABLE PANEL
	SPAZI DI INSTALLAZIONE CLEARANCES

	C	D	E	Uin	Uout
6.2 SLN	127	300	466	G 2" M	G 1 1/4" M
7.2 SLN 8.2-13.2	200 180	180 519	519	G 2" M	G 2" M



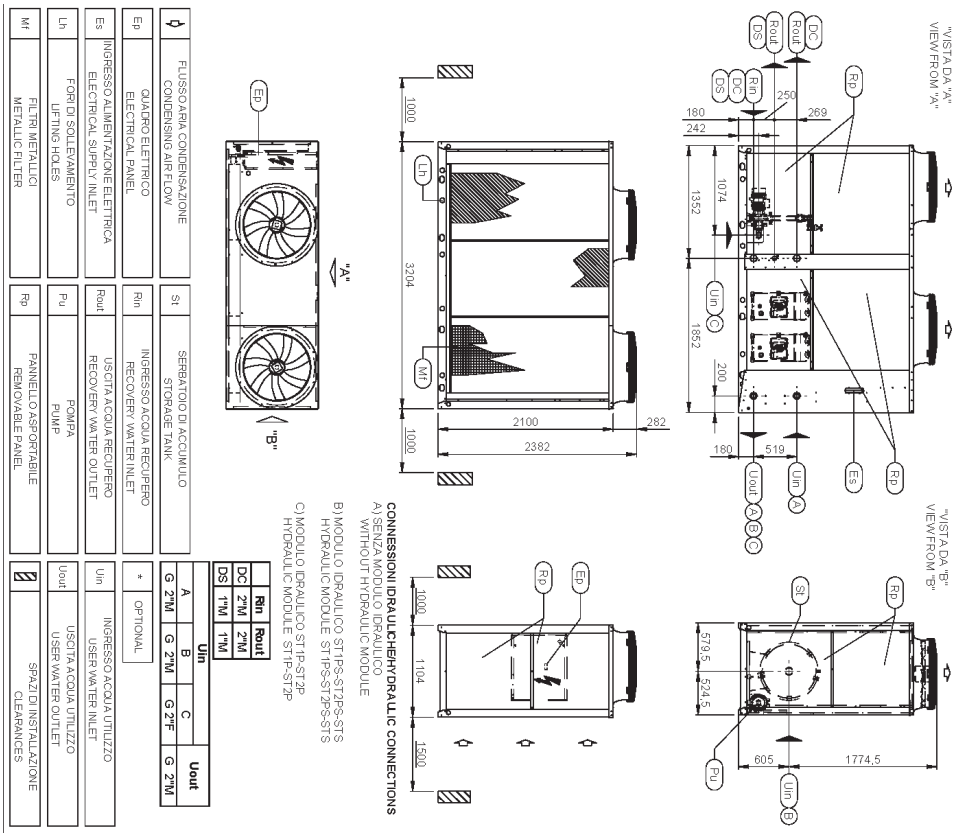
MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS ST 1PS-2PS-S 8.2	1068	1514	203	211	175	168
ZETA ECHOS ST 1PS-2PS-S 9.2	1076	1522	206	211	174	170
ZETA ECHOS ST 1PS-2PS-S 10.2	1089	1536	211	212	173	172
ZETA ECHOS HP-ST 1PS-2PS-S 8.2	1106	1552	207	205	181	183
ZETA ECHOS HP-ST 1PS-2PS-S 9.2	1116	1562	211	205	180	185
ZETA ECHOS HP-ST 1PS-2PS-S 10.2	1127	1574	219	210	175	183
ZETA ECHOS ST 1PS-2PS-S-SLN 6.2	978	1422	175	204	178	154
ZETA ECHOS HP-ST 1PS-2PS-S-SLN 6.2	1012	1466	179	198	184	167
ZETA ECHOS ST 1PS-2PS-S-SLN 7.2	1000	1446	184	205	176	158
ZETA ECHOS HP-ST 1PS-2PS-S-SLN 7.2	1036	1482	188	199	182	172

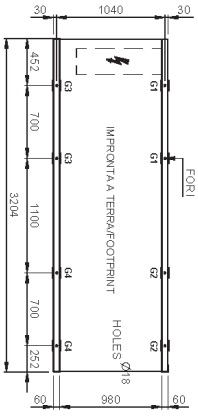
Fh	FORI DI FISSAGGIO FIXING HOLES Ø18
G	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS

A47311E

DIMENSIONAL DRAWING

ZETA - ZETA/HP ECHOS SLN 8.2 - 13.2





MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS SLN 8.2	1130	1126	209	73	80	216
ZETA ECHOS SLN 10.2	1149	1154	206	74	79	216
ZETA ECHOS SLN 12.2	1168	1156	218	78	79	223
ZETA ECHOS SLN 13.2	1229	1238	233	78	78	230
ZETA ECHOS SUN-DC-DS 8.2	1157	1182	209	87	87	208
ZETA ECHOS SUN-DC-DS 9.2	1180	1196	219	89	87	209
ZETA ECHOS SUN-DC-DS 10.2	1200	1218	219	92	88	210
ZETA ECHOS SUN-DC-DS 12.2	1243	1264	232	96	89	216
ZETA ECHOS ST P-2P SLN 8.2	1207	1210	248	99	88	220
ZETA ECHOS ST P-2P SLN 9.2	1216	1222	197	98	103	209
ZETA ECHOS ST P-2P SLN 10.2	1233	1240	205	100	103	212
ZETA ECHOS ST P-2P SLN 12.2	1276	1284	216	105	105	216
ZETA ECHOS ST P-2P SLN 13.2	1313	1322	229	106	103	223
ZETA ECHOS ST P-2P-SLN-DC-DS 8.2	1291	1306	212	116	116	207
ZETA ECHOS ST P-2P-SLN-DC-DS 9.2	1242	1268	217	101	99	212
ZETA ECHOS ST P-2P-SLN-DC-DS 10.2	1304	1322	222	107	111	211
ZETA ECHOS ST P-2P-SLN-DC-DS 12.2	1345	1378	247	112	112	227
ZETA ECHOS ST P-2PS-S-SLN 8.2	1304	1700	193	246	230	181
ZETA ECHOS ST P-2PS-S-SLN 9.2	1312	1708	196	247	229	182
ZETA ECHOS ST P-2PS-S-SLN 10.2	1327	1724	200	249	229	184
ZETA ECHOS ST P-2PS-S-SLN 12.2	1374	1772	211	255	230	190
ZETA ECHOS ST P-2PS-S-SLN 13.2	1418	1812	224	257	227	189
ZETA ECHOS HP-SLN 8.2	1150	1156	201	77	84	221
ZETA ECHOS HP-SLN 9.2	1172	1178	205	78	84	222
ZETA ECHOS HP-SLN 10.2	1187	1194	210	79	84	224
ZETA ECHOS HP-SLN 12.2	1222	1230	221	81	84	229
ZETA ECHOS HP-SLN 13.2	1269	1268	235	82	82	235
ZETA ECHOS HP-SUN-DS 8.2	1276	1276	205	105	111	217
ZETA ECHOS HP-SUN-DS 9.2	1282	1290	209	107	111	216
ZETA ECHOS HP-SUN-DS 10.2	1297	1306	214	108	111	220
ZETA ECHOS HP-SUN-DS 12.2	1344	1354	225	114	114	224
ZETA ECHOS HP-SUN-DS 13.2	1395	1396	239	116	112	231
ZETA ECHOS HP-ST P-2P-SLN 8.2	1244	1250	201	101	108	216
ZETA ECHOS HP-ST P-2P-SLN 9.2	1256	1264	205	103	108	218
ZETA ECHOS HP-ST P-2P-SLN 10.2	1271	1278	210	104	108	219
ZETA ECHOS HP-ST P-2P-SLN 12.2	1316	1324	220	109	110	223
ZETA ECHOS HP-ST P-2P-SLN 13.2	1355	1364	234	110	109	230
ZETA ECHOS HP-ST P-2P-SLN-DS 8.2	1275	1282	206	106	110	217
ZETA ECHOS HP-ST P-2P-SLN-DS 9.2	1292	1300	209	108	110	217
ZETA ECHOS HP-ST P-2P-SLN-DS 10.2	1303	1312	215	109	110	220
ZETA ECHOS HP-ST P-2P-SLN-DS 12.2	1350	1360	226	115	114	225
ZETA ECHOS HP-ST P-2P-SLN-DS 13.2	1389	1400	239	117	113	231
ZETA ECHOS HP-ST P-2PS-S-SLN 8.2	1342	1738	198	249	235	187
ZETA ECHOS HP-ST P-2PS-S-SLN 9.2	1354	1750	201	250	235	189
ZETA ECHOS HP-ST P-2PS-S-SLN 10.2	1407	1812	209	262	242	193
ZETA ECHOS HP-ST P-2PS-S-SLN 12.2	1412	1810	216	268	235	196
ZETA ECHOS HP-ST P-2PS-S-SLN 13.2	1449	1848	228	260	232	204

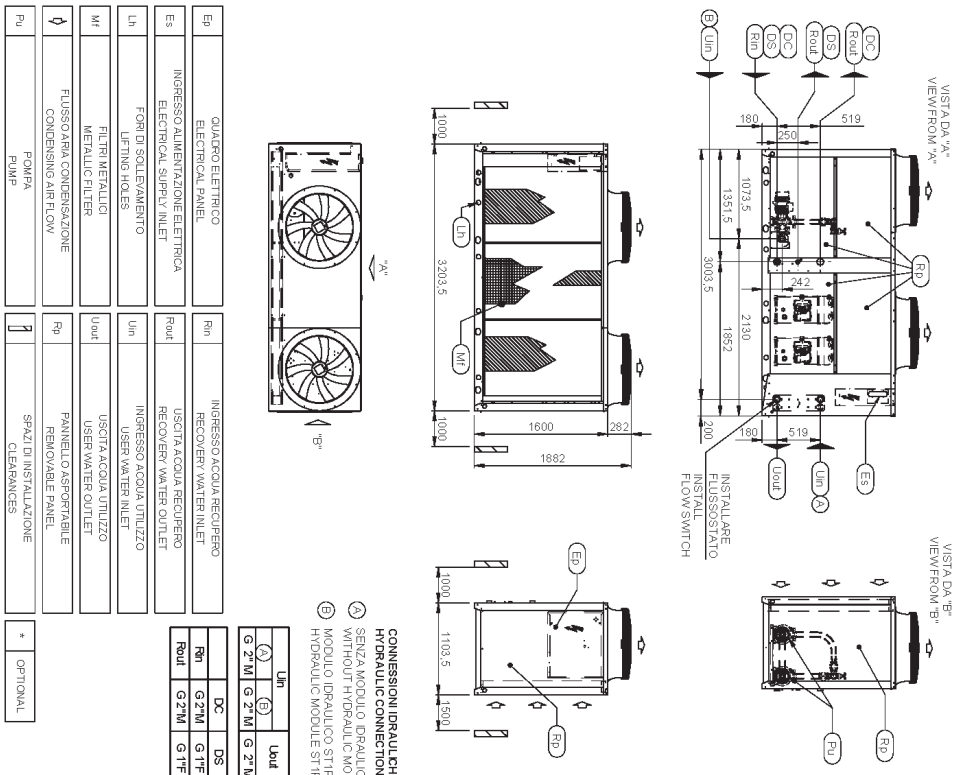
G. PUNTI DI APPOGGIO ANTIVIBRANTI
VIBRATION DAMPER FOOT HOLDS

Fh FORI DI FISSAGGIO
FIXING HOLES Ø18

A48134E

DIMENSIONAL DRAWING

OXFORD 12.2 - 13.2

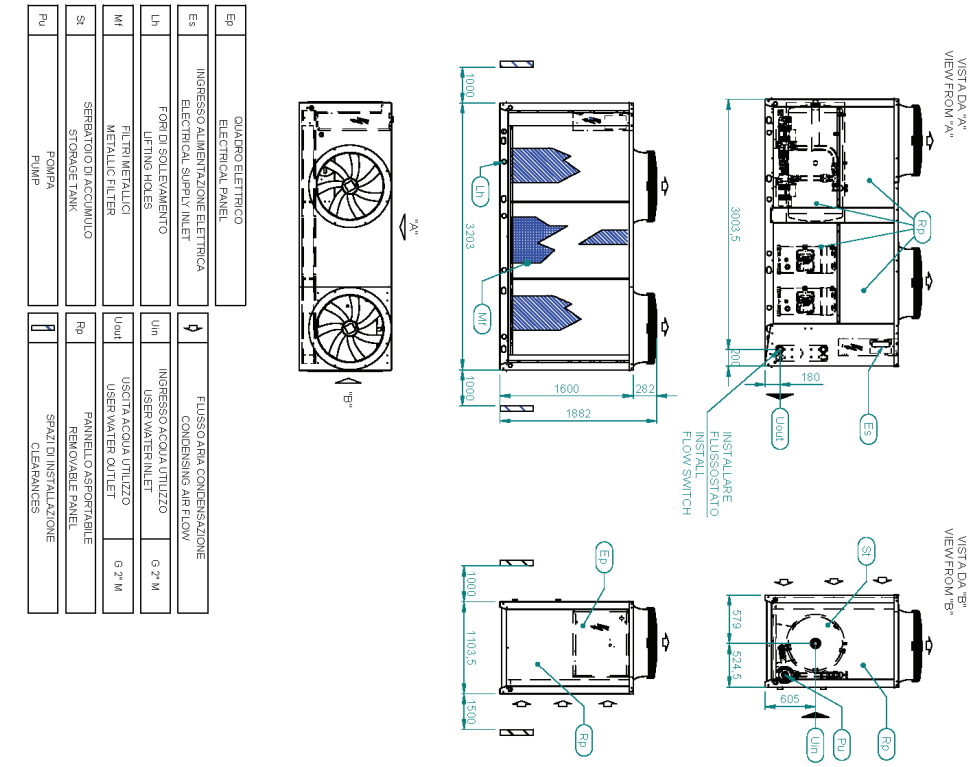


MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS 12.2	1069	1077	234	132	105	186
ZETA ECHOS 13.2	1111	1120	247	138	106	191
ZETA ECHOS ST1P-2P 12.2	1124	1132	240	155	121	188
ZETA ECHOS ST1P-2P 13.2	1165	1174	253	160	122	193
ZETA ECHOS DC-DS 12.2	1158	1176	258	154	116	195
ZETA ECHOS DC-DS 13.2	1203	1224	273	162	118	199
ZETA ECHOS ST1P-2P-DC-DS 12.2	1230	1248	268	177	133	201
ZETA ECHOS ST1P-2P-DC-DS 13.2	1277	1298	283	185	135	206
ZETA ECHOS HP 12.2	1118	1126	243	132	108	200
ZETA ECHOS HP 13.2	1157	1166	256	137	109	204
ZETA ECHOS HP-ST1P-2P 12.2	1173	1161	249	154	125	202
ZETA ECHOS HP-ST1P-2P 13.2	1211	1220	262	159	125	206
ZETA ECHOS HP-DS 12.2	1128	1138	247	136	110	199
ZETA ECHOS HP-DS 13.2	1172	1183	260	143	112	204
ZETA ECHOS HP-ST1P-2P-DS 12.2	1183	1193	253	159	126	201
ZETA ECHOS HP-ST1P-2P-DS 13.2	1226	1237	266	165	128	206

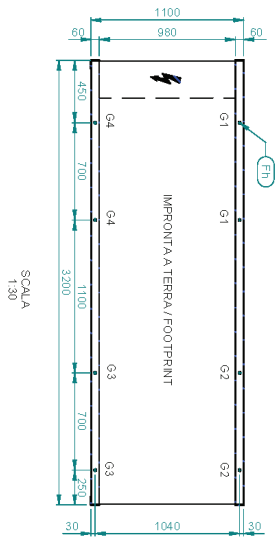
A48188E

DIMENSIONAL DRAWING

OXFORD 1PS - 2PS 12.2 - 13.2



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



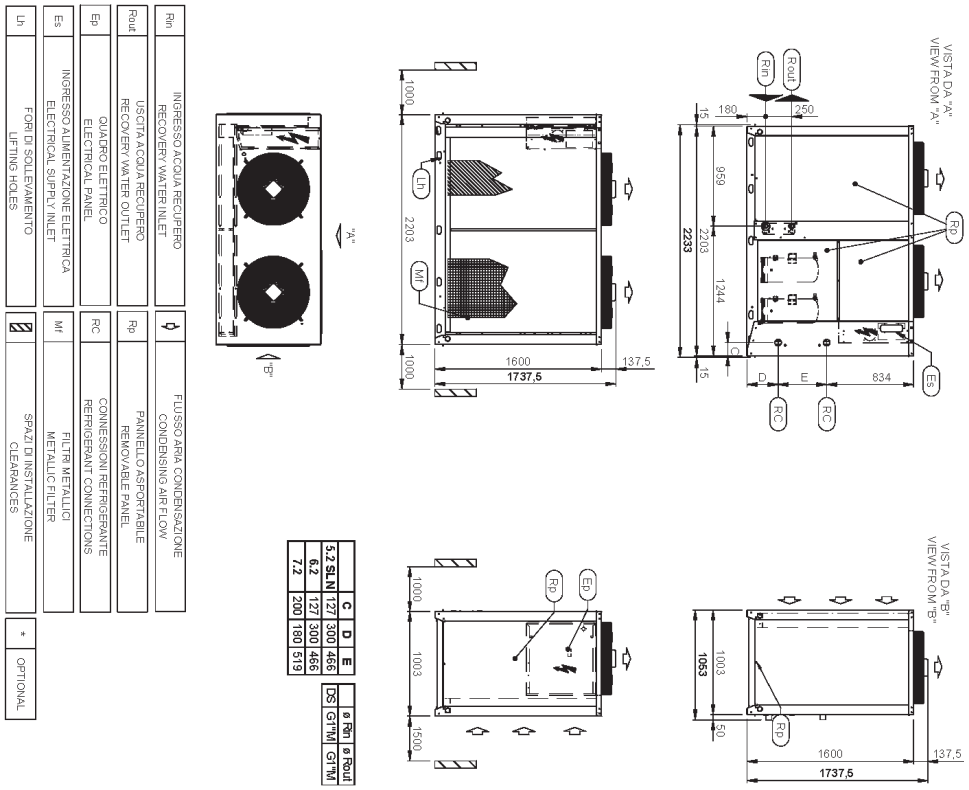
MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS ST 1PS-2PS-S 12.2	1128	1576	224	214	171	179
ZETA ECHOS ST 1PS-2PS-S 13.2	1167	1616	235	218	171	184
ZETA ECHOS HP-ST 1PS-2PS-S 12.2	1166	1614	228	208	177	194
ZETA ECHOS HP-ST 1PS-2PS-S 13.2	1205	1654	240	212	176	199

Fh	FORI DI FISSAGGIO FIXING HOLES Ø18
G	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS

A47312E

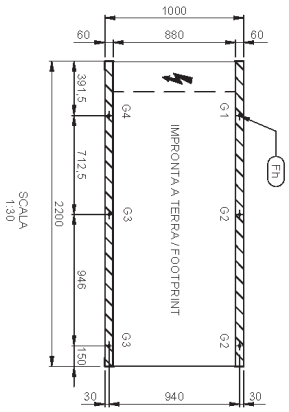
DIMENSIONAL DRAWING

OXFORD LE LE/HP 6.2 - 7.2 - 5.2 LE/HP SLN



	C	D	E
5.2 SLN	127	300	466
6.2	127	300	466
7.2	200	180	519

	ø Rin	ø Rout
DS	GTM	GTM



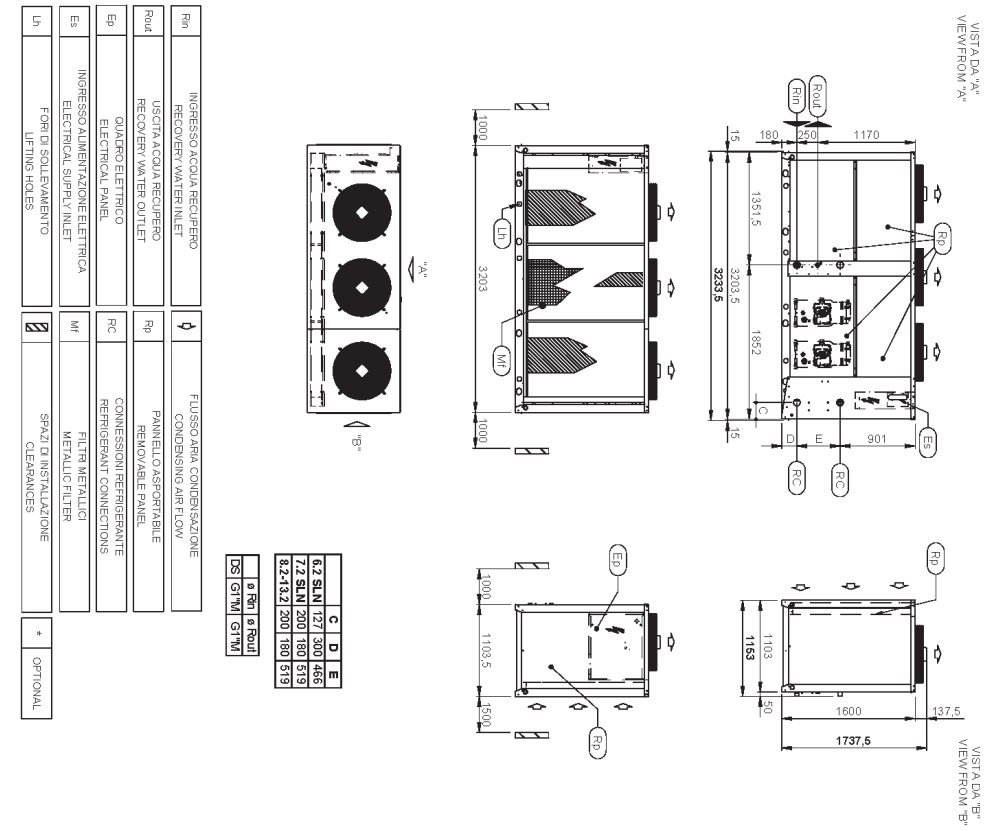
MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS LE 6.2	598	598	190	60	56	176
ZETA ECHOS LE-DS 6.2	602	603	190	60	57	179
ZETA ECHOS LEHP 6.2	646	646	209	60	58	201
ZETA ECHOS LEHP-DS 6.2	652	653	209	61	59	204
ZETA ECHOS LE 7.2	611	611	198	61	56	179
ZETA ECHOS LE-DS 7.2	618	619	198	62	57	183
ZETA ECHOS LEHP 7.2	661	661	217	62	58	204
ZETA ECHOS LEHP-DS 7.2	668	669	217	62	60	208
ZETA ECHOS LE-SLN 5.2	599	599	190	60	56	177
ZETA ECHOS LE-SLN-DS 5.2	603	604	190	60	57	180
ZETA ECHOS LEHP-SLN 5.2	647	647	210	60	58	201
ZETA ECHOS LEHP-SLN-DS 5.2	654	655	210	61	59	205

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

A49275E

DIMENSIONAL DRAWING

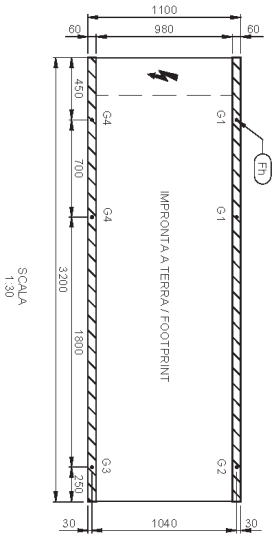
OXFORD LE 8.2 - 10.2 - 6.2 - 7.2 LE SLN



Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET
Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET
Ep	QUADRO ELETTRICO ELECTRICAL PANEL
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
RC	CONNESSIONI REFRIGERANTE REFRIGERANT CONNECTIONS
Mf	FILTRI METALLICI METALLIC FILTER
	SPAZI DI INSTALLAZIONE CLEARANCES
*	OPTIONAL

	C	D	E
6.2 SLN	127	300	466
7.2 SLN	200	180	519
8.2-13.2	200	180	519

ø Rin	ø Rout
DS G1"M	G1"M

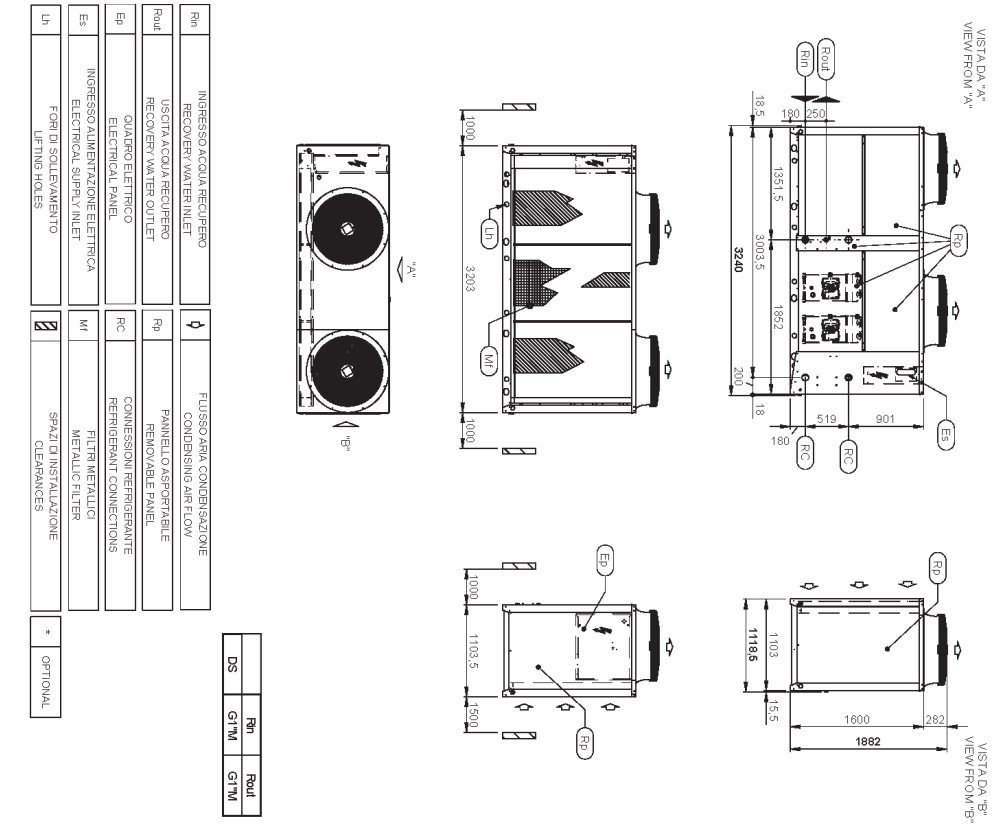


MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS LE 8.2	875	875	175	107	98	160
ZETA ECHOS LE 9.2	883	883	178	108	97	161
ZETA ECHOS LE 10.2	889	889	180	109	98	161
ZETA ECHOS LE-DS 8.2	893	894	180	112	100	161
ZETA ECHOS LE-DS 9.2	900	901	183	112	99	162
ZETA ECHOS LE-DS 10.2	908	909	185	113	100	163
ZETA ECHOS LEHP 8.2	924	924	185	106	100	174
ZETA ECHOS LEHP 9.2	931	931	187	107	100	175
ZETA ECHOS LEHP 10.2	937	937	189	107	100	176
ZETA ECHOS LEHP-DS 8.2	929	930	187	109	101	173
ZETA ECHOS LEHP-DS 9.2	938	939	190	110	101	174
ZETA ECHOS LEHP-DS 10.2	977	979	192	115	110	185
ZETA ECHOS LE-SLN 6.2	793	793	150	98	97	149
ZETA ECHOS LE-SLN-DS 6.2	813	814	155	102	100	151
ZETA ECHOS LEHP-SLN 6.2	845	845	160	97	100	164
ZETA ECHOS LEHP-SLN-DS 6.2	850	851	162	100	101	163
ZETA ECHOS LE-SLN 7.2	807	807	154	100	97	151
ZETA ECHOS LE-SLN-DS 7.2	829	830	160	104	100	153
ZETA ECHOS LEHP-SLN 7.2	859	859	164	99	100	166
ZETA ECHOS LEHP-SLN-DS 7.2	864	865	166	102	101	165

A49276E

DIMENSIONAL DRAWING

OXFORD LE 12.2 - 13.2



Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET
Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET
Ep	QUADRO ELETTRICO ELECTRICAL PANEL
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
Rc	CONNESSIONI REFRIGERANTE REFRIGERANT CONNECTIONS
Mf	FILTRI METALLICI METALLIC FILTER
	SPAZI DI INSTALLAZIONE CLEARANCES
+	OPTIONAL

DS	Rin	Rout
G1"M		G1"M

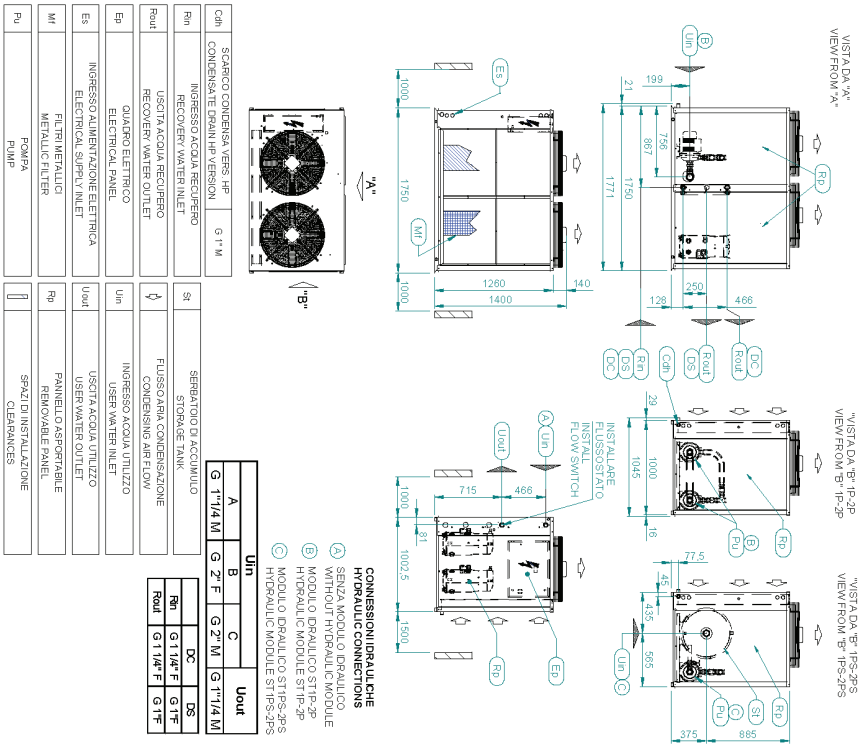
Fh	FORI DI FISSAGGIO FIXING HOLES Ø18
G	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS

MODELLO MODEL	PESO(Kg) WEIGHT(Kg)	PESO IN FUNZIONE(Kg) OPERATING WEIGHT(Kg)	G1(Kg)	G2(Kg)	G3(Kg)	G4(Kg)
ZETA ECHOS LE 12.2	1033	1033	211	137	116	179
ZETA ECHOS LE 13.2	1071	1071	222	143	118	183
ZETA ECHOS LE-DS 12.2	1053	1055	216	144	119	180
ZETA ECHOS LE-DS 13.2	1089	1091	227	150	121	183
ZETA ECHOS LE/HP 12.2	1081	1081	220	136	119	193
ZETA ECHOS LE/HP 13.2	1117	1117	231	142	121	196
ZETA ECHOS LE/HP-DS 12.2	1092	1094	224	141	121	192
ZETA ECHOS LE/HP-DS 13.2	1131	1133	235	148	123	196

A49277E

DIMENSIONAL DRAWING

OXFORD A CH-HP 3.2-4.2



Cdh	SCARICO CONDENSA VERS. HP CONDENSATE DRAIN HP VERSION
Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET
Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET
Ep	QUADRO ELETTRICO ELECTRICAL PANEL
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET
Mf	FILTRI METALLICI METALLIC FILTER
Pu	POMPA PUMP

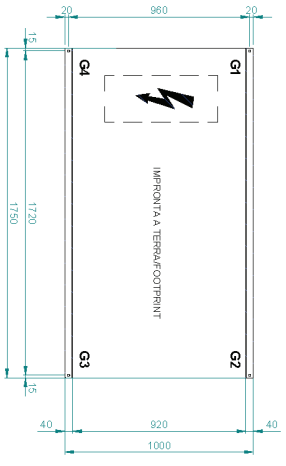
G 1"M	
St	SERBATOIO DI ACCUMULO STORAGE TANK
⇩	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW
Uin	INGRESSO ACQUA UTILIZZO USER WATER INLET
Uout	USCITA ACQUA UTILIZZO USER WATER OUTLET
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
⇕	SPAZI DI INSTALLAZIONE CLEARANCES

A	B	C	Uout
G 1"1/4 M	G 2" F	G 2" M	G 1"1/4 M

Rin		DC	DS
Rout	G 1 1/4" F	G 1"F	

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

Ø12



MODELLO	PESO (kg)	PESO IN FUNZIONE (kg)				
MODEL	WEIGHT (kg)	OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
ZETA EOHOS A 3.2 CH	441	444	150	75	73	146
ZETA EOHOS A 4.2 CH	458	463	161	77	73	152
ZETA EOHOS A 3.2 CH_1P-2P	494	497	159	92	87	150
ZETA EOHOS A 4.2 CH_1P-2P	503	508	170	95	87	156
ZETA EOHOS A 3.2 CH_DS-DC	477	483	170	86	76	151
ZETA EOHOS A 4.2 CH_DS-DC	497	506	183	89	77	157
ZETA EOHOS A 3.2 CH_1P-2P_DS-DC	521	527	178	104	90	155
ZETA EOHOS A 4.2 CH_1P-2P_DS-DC	540	549	191	107	90	161
ZETA EOHOS A 3.2 HP	464	467	161	79	75	152
ZETA EOHOS A 4.2 HP	481	486	172	81	75	158
ZETA EOHOS A 3.2 HP_1P-2P	508	511	169	97	89	156
ZETA EOHOS A 4.2 HP_1P-2P	525	530	180	99	89	162
ZETA EOHOS A 3.2 HP_DS	467	471	164	81	75	151
ZETA EOHOS A 4.2 HP_DS	486	492	175	84	75	158
ZETA EOHOS A 3.2 HP_1P-2P_DS	512	516	172	99	89	156
ZETA EOHOS A 4.2 HP_1P-2P_DS	529	535	183	101	89	162
ZETA EOHOS A 3.2 CH_1PS-2PS-S	534	707	193	166	161	187
ZETA EOHOS A 4.2 CH_1PS-2PS-S	552	727	204	169	161	193
ZETA EOHOS A 3.2 HP_1PS-2PS-S	556	729	203	171	162	193
ZETA EOHOS A 4.2 HP_1PS-2PS-S	574	749	214	174	162	199
ZETA EOHOS A 3.2 CH_1PS-S_DS-DC	557	733	207	172	161	193
ZETA EOHOS A 4.2 CH_1PS-S_DS-DC	576	755	219	176	160	200
ZETA EOHOS A 3.2 HP_1PS-S_DS	547	721	201	167	160	193
ZETA EOHOS A 4.2 HP_1PS-S_DS	566	742	212	170	160	200

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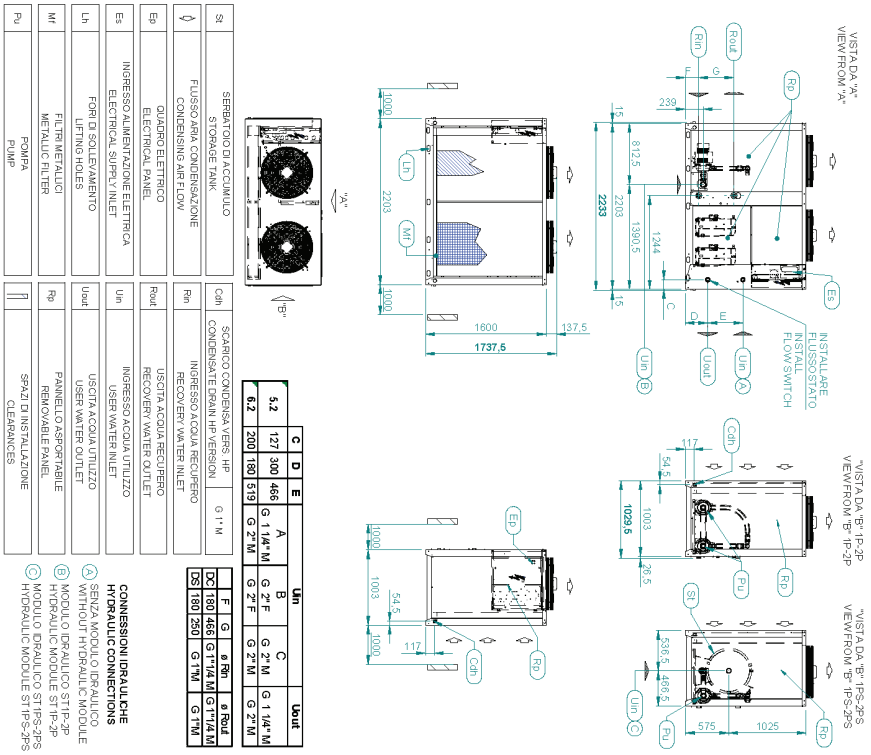
DIMENSIONAL DRAWING

OXFORD A CH-HP 5.2-6.2



	C	D	E	A	B	C	Uin	Uout
5.2	127	300	466	G 1 1/4" M	G 2" F	G 2" M	G 1 1/4" M	
6.2	200	180	519	G 2" M	G 2" F	G 2" M	G 2" M	

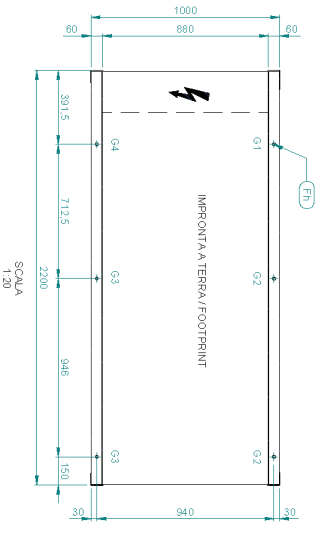
	F	G	ø Rin	Uout	ø Rout
DC	180	466	G 1"1/4 M	G 1"1/4 M	
DS	180	250	G 1"M	G 1"M	

CONNESSIONI IDRAULICHE
HYDRAULIC CONNECTIONS

(A) SENZA MODULO IDRAULICO
WITHOUT HYDRAULIC MODULE

(B) MODULO IDRAULICO ST 1P-2P
HYDRAULIC MODULE ST 1P-2P

(C) MODULO IDRAULICO ST 1PS-2PS
HYDRAULIC MODULE ST 1PS-2PS



MODELLO MODEL	PESO (kg) WEIGHT (kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
ZETA ECHOS A 5.2 CH	627	631	216	62	53	185
ZETA ECHOS A 6.2 CH	646	652	233	63	52	189
ZETA ECHOS A 5.2 CH_1P-2P	681	685	213	80	67	178
ZETA ECHOS A 6.2 CH_1P-2P	700	706	229	82	65	183
ZETA ECHOS A 5.2 CH_DS-DC	675	683	233	69	58	196
ZETA ECHOS A 6.2 CH_DS-DC	696	707	251	71	57	200
ZETA ECHOS A 5.2 CH_1P-2P_DS-DC	730	738	233	86	71	191
ZETA ECHOS A 6.2 CH_1P-2P_DS-DC	749	760	250	88	69	196
ZETA ECHOS A 5.2 HP	669	673	232	62	55	207
ZETA ECHOS A 6.2 HP	689	695	248	64	54	211
ZETA ECHOS A 5.2 HP_1P-2P	724	728	232	79	68	202
ZETA ECHOS A 6.2 HP_1P-2P	742	748	248	80	67	206
ZETA ECHOS A 5.2 HP_DS	677	682	232	63	57	210
ZETA ECHOS A 6.2 HP_DS	696	703	249	64	55	216
ZETA ECHOS A 5.2 HP_1P-2P_DS	729	734	231	79	70	205
ZETA ECHOS A 6.2 HP_1P-2P_DS	748	755	248	81	68	209
ZETA ECHOS A 5.2 CH_1PS-2PS-S	753	975	193	151	124	157
ZETA ECHOS A 6.2 CH_1PS-2PS-S	771	995	224	166	131	177
ZETA ECHOS A 5.2 HP_1PS-2PS-S	795	1017	227	163	137	190
ZETA ECHOS A 6.2 HP_1PS-2PS-S	815	1039	242	165	135	197

Fh — FORI DI FISSAGGIO / FIXING HOLES — Ø16

G — PUNTI DI APPOGGIO ANTIVIBRANTI / VIBRATION DAMPER FOOT HOLDS

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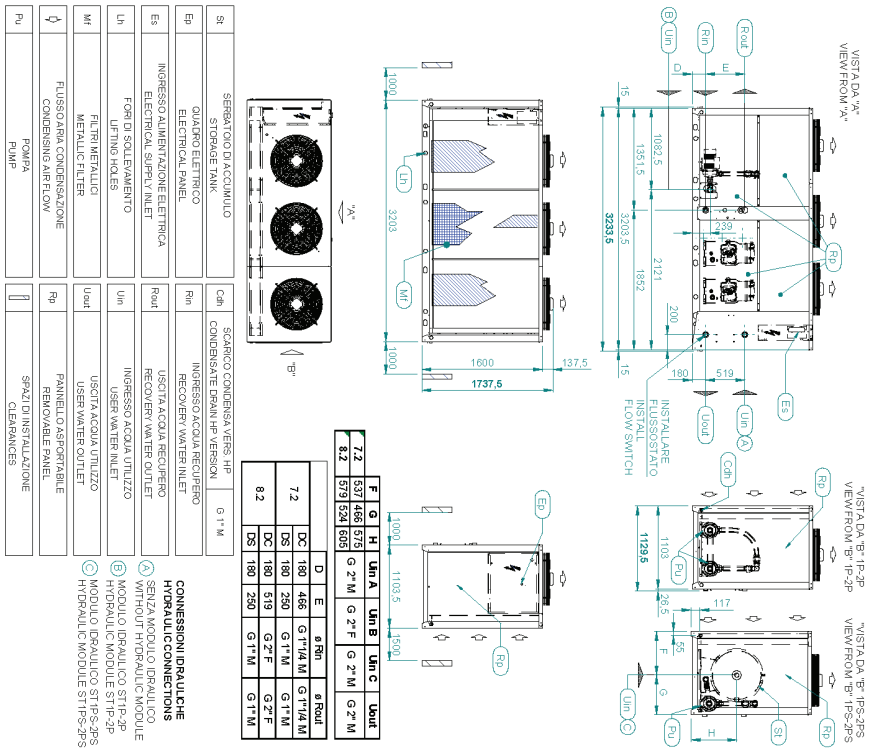
DIMENSIONAL DRAWING

OXFORD A CH-HP 7.2-8.2



St	SERBATOIO DI ACCUMULO STORAGE TANK
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
Pu	POMPA PUMP
Cdh	SCARICO CONDENSA VERS. HP CONDENSATE DRAIN HP VERSION
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
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
	SPAZI DI INSTALLAZIONE CLEARANCES

	F	G	H	Uin A	Uin B	Uin C	Uout
7.2	537	466	575	G 2" M	G 2" F	G 2" M	G 2" M
8.2	579	524	605				

		D	E	ø Rin	ø Rout
7.2	DC	180	466	G 1"1/4 M	G 1"1/4 M
	DS	180	250	G 1" M	G 1" M
8.2	DC	180	519	G 2" F	G 2" F
	DS	180	250	G 1" M	G 1" M

CONNESSIONI IDRAULICHE
HYDRAULIC CONNECTIONS

(A) SENZA MODULO IDRAULICO
WITHOUT HYDRAULIC MODULE

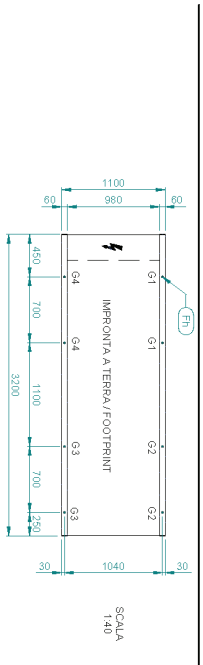
(B) MODULO IDRAULICO ST1P-2P
HYDRAULIC MODULE ST1P-2P

(C) MODULO IDRAULICO ST1PS-2PS
HYDRAULIC MODULE ST1PS-2PS

MODELLO MODEL	PESO (kg) WEIGHT (kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
ZETA ECHOS A 7.2 CH	835	841	171	97	88	157
ZETA ECHOS A 8.2 CH	905	911	194	104	89	165
ZETA ECHOS A 7.2 CH_1P-2P	887	893	177	118	105	159
ZETA ECHOS A 8.2 CH_1P-2P	961	967	201	126	105	167
ZETA ECHOS A 7.2 CH_DS-DC	941	952	195	113	101	174
ZETA ECHOS A 8.2 CH_DS-DC	1021	1033	221	123	102	183
ZETA ECHOS A 7.2 CH_1P-2P_DS-DC	996	1007	202	134	117	176
ZETA ECHOS A 8.2 CH_1P-2P_DS-DC	1073	1085	227	145	118	184
ZETA ECHOS A 7.2 HP	877	883	180	95	90	169
ZETA ECHOS A 8.2 HP	947	953	203	103	90	177
ZETA ECHOS A 7.2 HP_1P-2P	930	936	186	117	107	170
ZETA ECHOS A 8.2 HP_1P-2P	1002	1008	209	125	107	179
ZETA ECHOS A 7.2 HP_DS	882	889	182	98	91	169
ZETA ECHOS A 8.2 HP_DS	957	965	206	107	92	177
ZETA ECHOS A 7.2 HP_1P-2P_DS	936	943	188	119	108	170
ZETA ECHOS A 8.2 HP_1P-2P_DS	1009	1017	212	129	108	178

MODELLO MODEL	PESO (kg) WEIGHT (kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
ZETA ECHOS A 7.2 CH_1PS-2PS-S	962	1186	171	140	127	155
ZETA ECHOS A 8.2 CH_1PS-2PS-S	1058	1504	202	211	173	166
ZETA ECHOS A 7.2 HP_1PS-2PS-S	1004	1228	180	139	128	167
ZETA ECHOS A 8.2 HP_1PS-2PS-S	1102	1548	212	210	175	177

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



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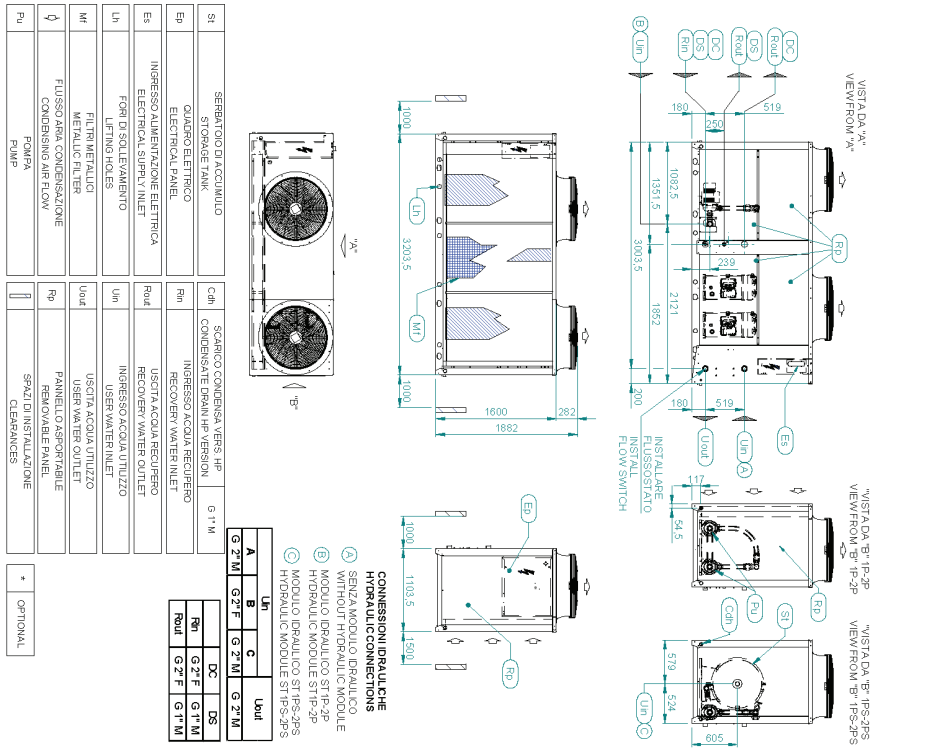
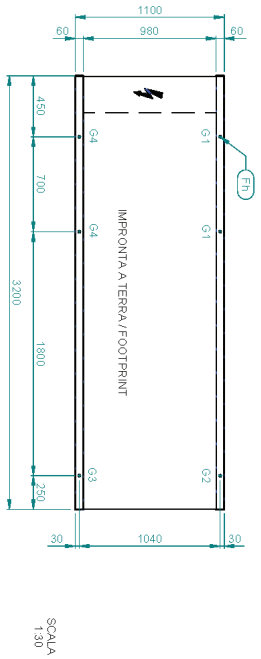
DIMENSIONAL DRAWING

OXFORD A CH-HP 9.2

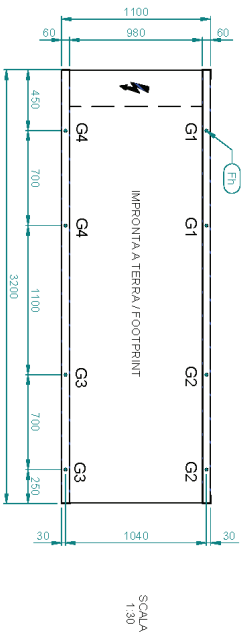


	A	B	C	Uout
G 2"M	G 2"F	G 2"M	G 2"M	

	DC	DS
Rin	G 2"F	G 1"M
Rout	G 2"F	G 1"M



MODELLO MODEL	PESO (kg) WEIGHT(kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
ZETA ECHOS A 9.2 CH	966	972	203	120	102	172
ZETA ECHOS A 9.2 CH_1P-2P	1020	1026	209	142	118	174
ZETA ECHOS A 9.2 CH_DS-DC	1044	1058	224	137	111	181
ZETA ECHOS A 9.2 CH_1P-2P_DS-DC	1097	1111	230	160	127	182
ZETA ECHOS A 9.2 HP	1012	1018	211	119	105	186
ZETA ECHOS A 9.2 HP_1P-2P	1066	1072	218	141	121	187
ZETA ECHOS A 9.2 HP_DS	1021	1029	215	123	106	185
ZETA ECHOS A 9.2 HP_1P-2P_DS	1076	1094	221	145	123	187



MODELLO MODEL	PESO (kg) WEIGHT(kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
ZETA ECHOS A 9.2 CH_IPS-2PS-S	1252					
ZETA ECHOS A 9.2 HP_IPS-2PS-S	1300	1736	228	210	206	224

G	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS	Fh	FORI DI FISSAGGIO FIXING HOLES	Ø18

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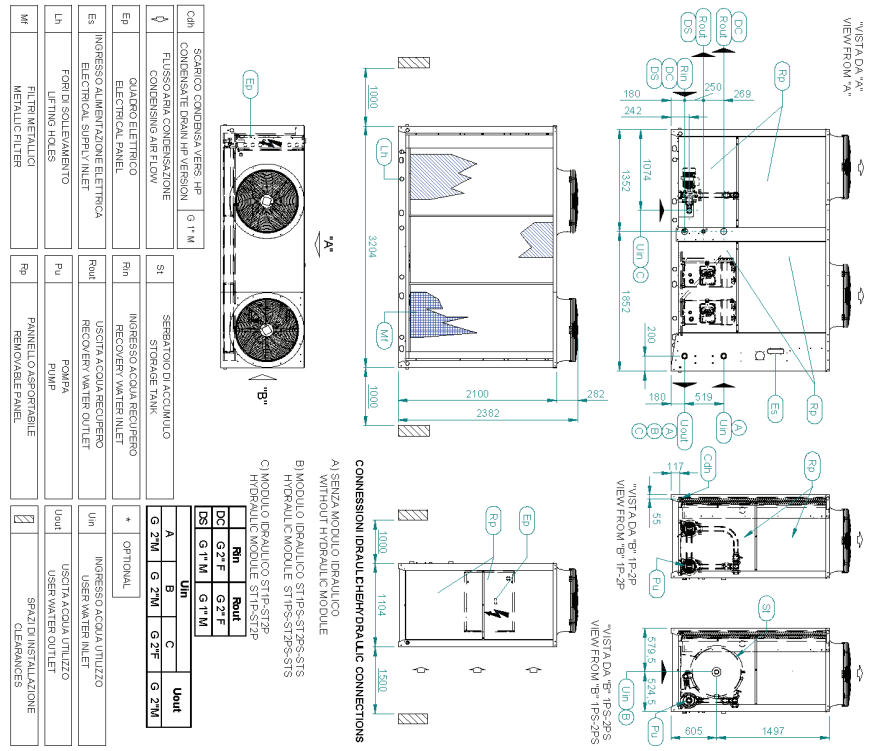
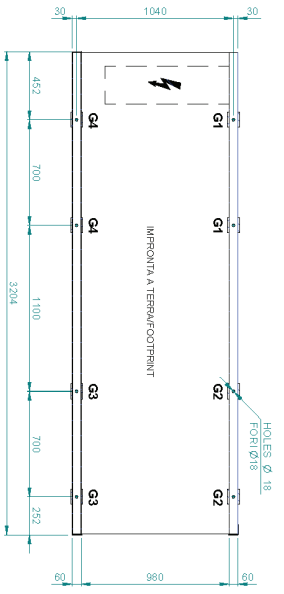
DIMENSIONAL DRAWING

OXFORD A CH-HP 10.2-12.2





MODELLO MODEL	PESO (Kg) WEIGHT (Kg)	PESO IN FUNZIONE (Kg) OPERATING WEIGHT (Kg)	G1 (Kg)	G2 (Kg)	G3 (Kg)	G4 (Kg)
ZETA ECHOS A 10.2 CH	1145	1152	212	71	74	219
ZETA ECHOS A 12.2 CH	1200	1212	233	74	72	227
ZETA ECHOS A 10.2 CH_DS-DC	1192	1208	226	82	79	217
ZETA ECHOS A 12.2 CH_DS-DC	1251	1274	248	85	78	226
ZETA ECHOS A 10.2 CH_1P-2P	1221	1228	218	90	89	217
ZETA ECHOS A 12.2 CH_1P-2P	1316	1328	241	103	96	224
ZETA ECHOS A 10.2 CH_1P-2P_DS-DC	1268	1284	231	101	94	216
ZETA ECHOS A 12.2 CH_1P-2P_DS-DC	1365	1388	256	115	100	223
ZETA ECHOS A 10.2 HP	1185	1192	216	76	79	226
ZETA ECHOS A 12.2 HP	1238	1250	236	78	77	234
ZETA ECHOS A 10.2 HP_DS	1207	1216	221	79	81	227
ZETA ECHOS A 12.2 HP_DS	1256	1270	241	81	79	234
ZETA ECHOS A 10.2 HP_1P-2P	1261	1268	222	94	94	224
ZETA ECHOS A 12.2 HP_1P-2P	1350	1362	245	106	100	230
ZETA ECHOS A 10.2 HP_1P-2P_DS	1281	1290	227	97	96	225
ZETA ECHOS A 12.2 HP_1P-2P_DS	1370	1384	249	110	102	231
ZETA ECHOS A 10.2 CH_1PS-2PS-S	1319	1756	230	213	209	226
ZETA ECHOS A 12.2 CH_1PS-2PS-S	1416	1868	251	225	214	239
ZETA ECHOS A 10.2 HP_1PS-2PS-S	1363	1600	236	215	214	235
ZETA ECHOS A 12.2 HP_1PS-2PS-S	1452	1894	255	228	219	245

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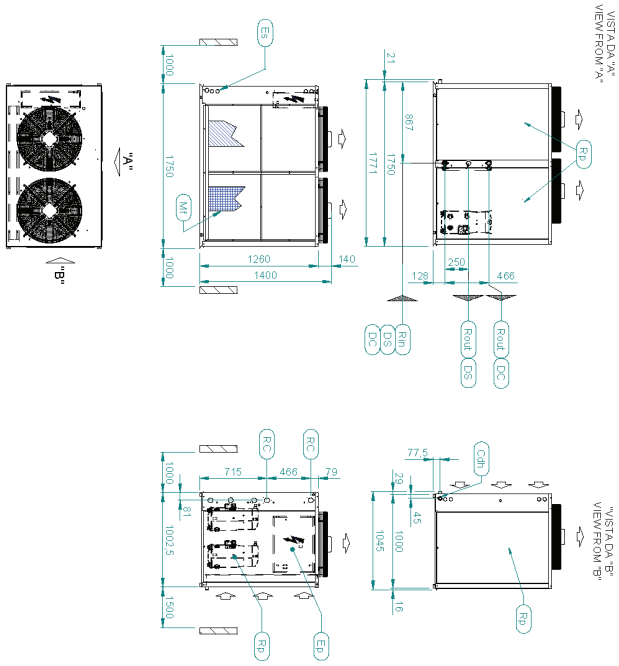
DIMENSIONAL DRAWING

OXFORD A CH-HP /LE 3.2-4.2

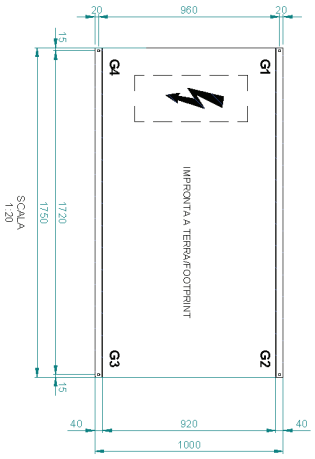


Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET
Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET
Ep	QUADRO ELETTRICO ELECTRICAL PANEL
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET
Mf	FILTRI METALLICI METALLIC FILTER
Cdn	SCARICO CONDENSA VERS. HP CONDENSATE DRAIN HP VERSION
Rc	CONNESSIONI REFRIGERANTE REFRIGERANT CONNECTIONS
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
	SPAZI DI INSTALLAZIONE CLEARANCES
G 1" M	

		DC	DS
Rin		G 1 1/4" F	G 1"F
Rout		G 1 1/4" F	G 1"F

Fh	FORI DI FISSAGGIO FIXING HOLES
G	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPFER FOOT HOLDS

MODELLO MODEL	PESO (kg) WEIGHT(kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
ZETA EQ+OS A 3.2 CH-LE	424	424	135	72	75	142
ZETA EQ+OS A 4.2 CH-LE	436	436	141	72	76	147
ZETA EQ+OS A 3.2 CH-LE_DS-DC	460	463	155	83	78	147
ZETA EQ+OS A 4.2 CH-LE_DS-DC	474	478	162	85	79	152
ZETA EQ+OS A 3.2 HP-LE	447	447	146	76	77	148
ZETA EQ+OS A 4.2 HP-LE	458	458	151	77	77	153
ZETA EQ+OS A 3.2 HP-LE_DS	451	452	149	78	77	148
ZETA EQ+OS A 4.2 HP-LE_DS	463	464	154	79	78	153



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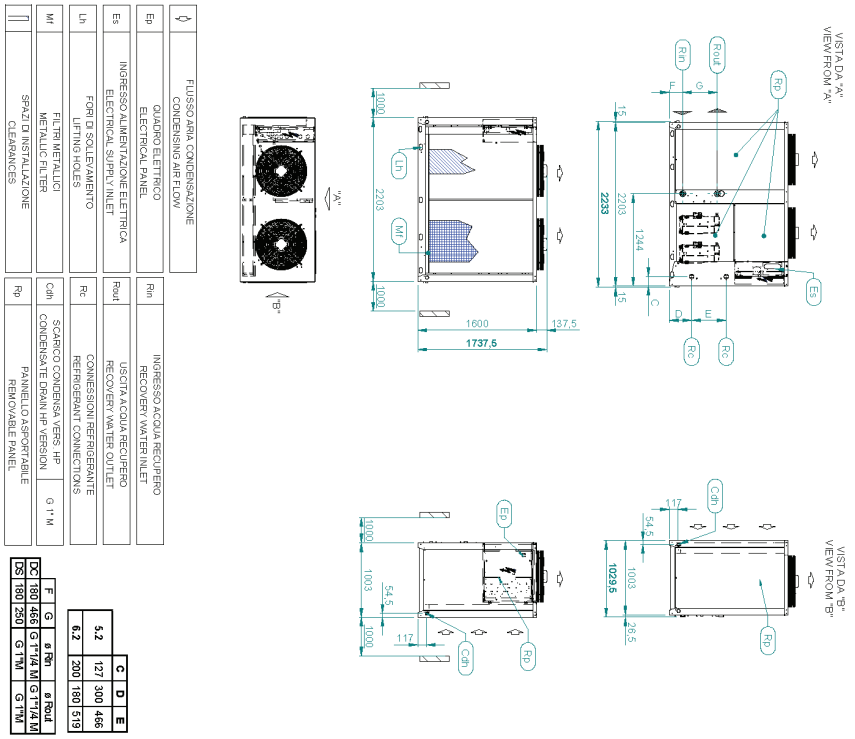
DIMENSIONAL DRAWING

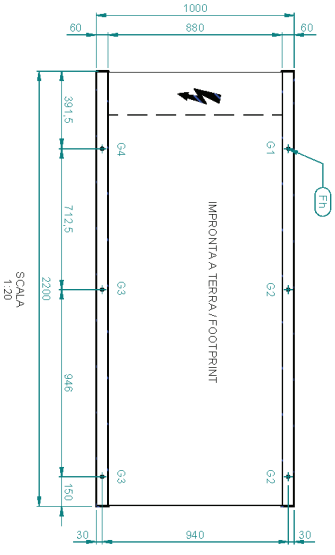
OXFORD A CH-HP /LE 5.2-6.2



Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET
Ep	QUADRO ELETTRICO ELECTRICAL PANEL
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW
Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET
Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET
Rc	CONNESSIONI REFRIGERANTE REFRIGERANT CONNECTIONS
Cdh	SCARICO CONDENSA VERS. HP CONDENSATE DRAIN HP VERSION — G 1"M
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES
Mf	FILTRI METALLICI METALLIC FILTER
	SPAZI DI INSTALLAZIONE CLEARANCES

	F	G	ø Rin	ø Rout
DC	180	466	G 1"1/4 M	G 1"1/4 M
DS	180	250	G 1"M	G 1"M

	C	D	E
5.2	127	300	466
6.2	200	180	519



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

MODELLO MODEL	PESO (kg) WEIGHT (kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
ZETA ECHOS A 5.2 CH-LE	605	605	192	61	57	177
ZETA ECHOS A 6.2 CH-LE	615	615	197	62	57	180
ZETA ECHOS A 5.2 CH-LE_DS-DC	650	654	208	68	61	188
ZETA ECHOS A 6.2 CH-LE_DS-DC	664	669	215	70	62	190
ZETA ECHOS A 5.2 HP-LE	648	648	207	62	59	199
ZETA ECHOS A 6.2 HP-LE	658	658	213	63	59	201
ZETA ECHOS A 6.2 HP-LE_DS	662	653	207	62	60	202
ZETA ECHOS A 6.2 HP-LE_DS	665	666	214	63	60	206

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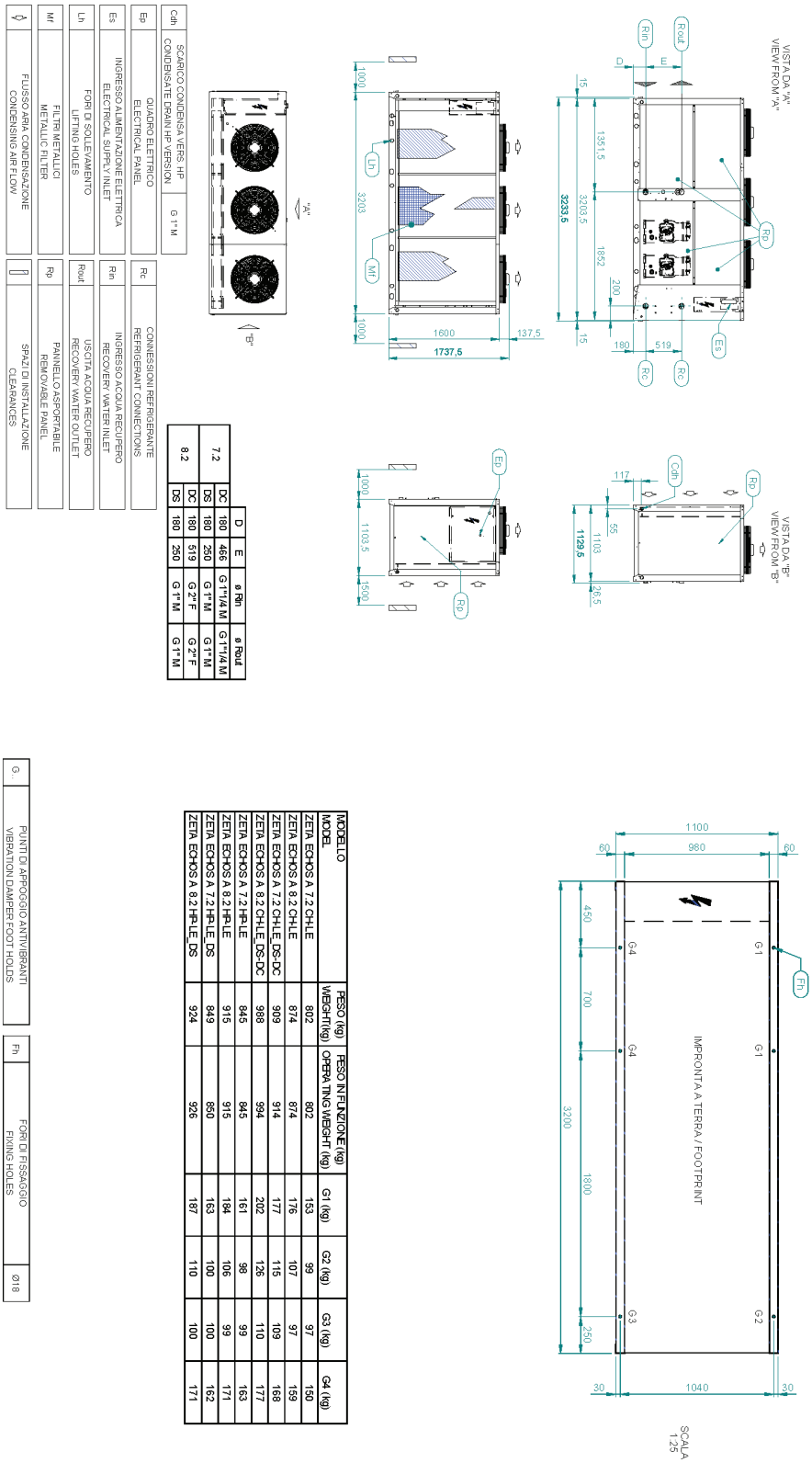
DIMENSIONAL DRAWING

OXFORD A CH-HP /LE 7.2-8.2



Cdh	SCARICO CONDENSA VERS. HP CONDENSATE DRAIN HP VERSION G 1"M
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
Rc	CONNESSIONI REFRIGERANTE REFRIGERANT CONNECTIONS
Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET
Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
	SPAZI DI INSTALLAZIONE CLEARANCES

		D	E	ø Rin	ø Rout
7.2	DC	180	466	G 1"1/4 M	G 1"1/4 M
	DS	180	250	G 1"M	G 1"M
8.2	DC	180	519	G 2"F	G 2"F
	DS	180	250	G 1"M	G 1"M

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

MODELLO MODEL	PESO (kg) WEIGHT(kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
ZETA ECHOS A 7.2 CH-LE	802	802	153	99	97	150
ZETA ECHOS A 8.2 CH-LE	874	874	176	107	97	159
ZETA ECHOS A 7.2 CH-LE_DS-DC	909	914	177	115	109	168
ZETA ECHOS A 8.2 CH-LE_DS-DC	988	994	202	126	110	177
ZETA ECHOS A 7.2 HP-LE	845	845	161	98	99	163
ZETA ECHOS A 8.2 HP-LE	915	915	184	106	99	171
ZETA ECHOS A 7.2 HP-LE_DS	849	860	163	100	100	162
ZETA ECHOS A 8.2 HP-LE_DS	924	926	187	110	100	171

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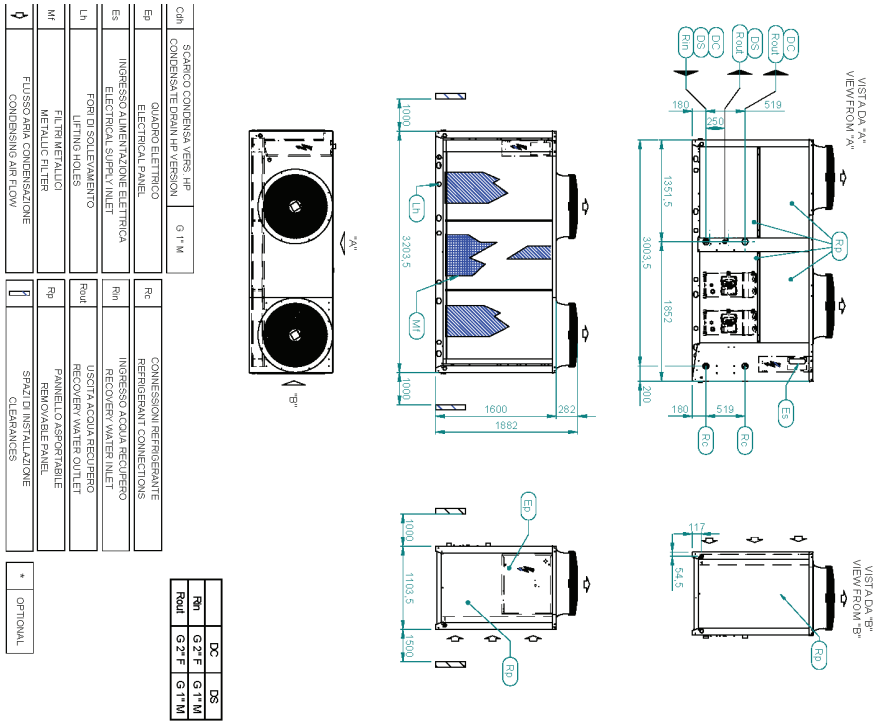
DIMENSIONAL DRAWING

OXFORD A CH-HP /LE 9.2

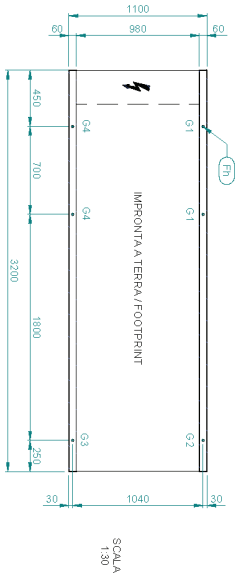


Cdh	SCARICO CONDENSA VERS. HP CONDENSATE DRAIN HP VERSION	G 1" M
Ep	QUADRO ELETTRICO ELECTRICAL PANEL	
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET	
Lh	FORI DI SOLLEVAMENTO LIFTING HOLES	
Mf	FILTRI METALLICI METALLIC FILTER	
	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW	
Rc	CONNESSIONI REFRIGERANTE REFRIGERANT CONNECTIONS	
Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET	
Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET	
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL	
	SPAZI DI INSTALLAZIONE CLEARANCES	

		DC	DS
Rout	Rin	G 2" F	G 1" M
G 2" F	G 1" M		

*	OPTIONAL

MODELLO MODEL	PESO (kg) WEIGHT (kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
ZETA ECHOS A 9.2 CH-LE	932	932	183	123	111	166
ZETA ECHOS A 9.2 CH-LE_DS-DC	1009	1017	204	141	120	174
ZETA ECHOS A 9.2 HP-LE	978	978	192	122	114	179
ZETA ECHOS A 9.2 HP-LE_DS	989	990	195	126	116	179



G	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS
Fh	FORI DI FISSAGGIO FIXING HOLES
	Ø18

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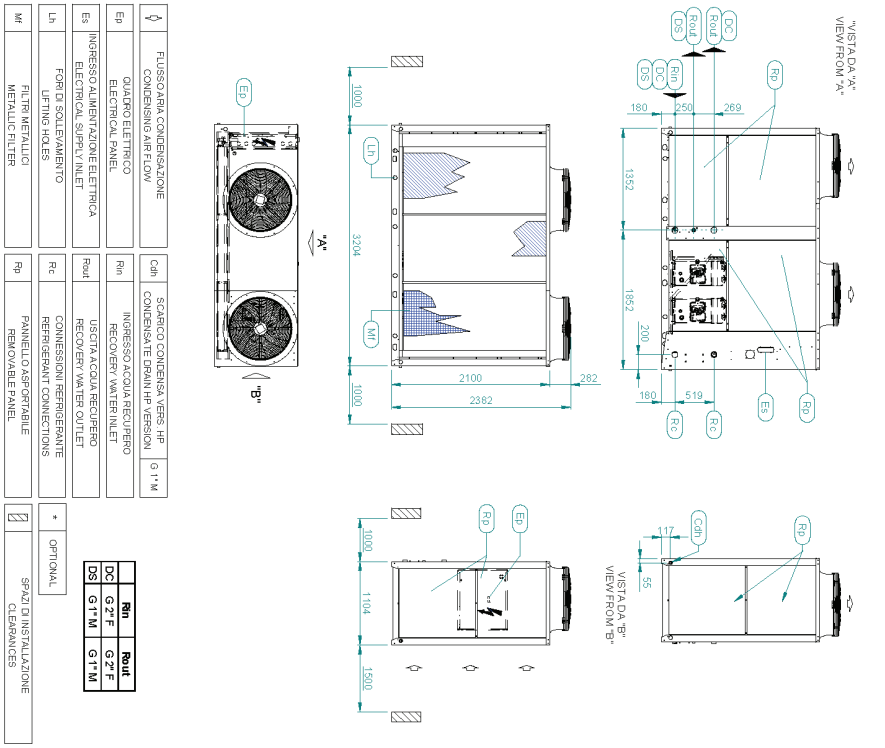
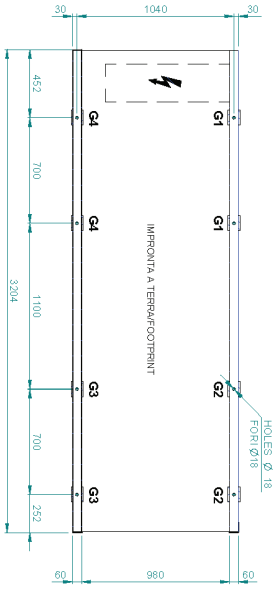
DIMENSIONAL DRAWING

OXFORD A CH-HP /LE 10.2-12.2



◊	FLUSSO ARIA CONDENSAZIONE CONDENSING AIR FLOW
Ep	QUADRO ELETTRICO ELECTRICAL PANEL
Es	INGRESSO ALIMENTAZIONE ELETTRICA ELECTRICAL SUPPLY INLET
Ln	FORI DI SOLLEVAMENTO LIFTING HOLES
Mf	FILTRI METALLICI METALLIC FILTER
Rp	PANNELLO ASPORTABILE REMOVABLE PANEL
Cdh	SCARICO CONDENSA VERS. HP CONDENSATE DRAIN HP VERSION
Rin	INGRESSO ACQUA RECUPERO RECOVERY WATER INLET
Rout	USCITA ACQUA RECUPERO RECOVERY WATER OUTLET
Rc	CONNESSIONI REFRIGERANTE REFRIGERANT CONNECTIONS
	SPAZI DI INSTALLAZIONE CLEARANCES
G	PUNTI DI APPOGGIO ANTIVIBRANTI VIBRATION DAMPER FOOT HOLDS
Fh	FORI DI FISSAGGIO FIXING HOLES
Ø18	
G 1"M	
*	OPTIONAL

	Rin	Rout
DC	G 2"F	G 2"F
DS	G 1"M	G 1"M



MODELLO MODEL	PESO (kg) WEIGHT(kg)	PESO IN FUNZIONE (kg) OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)
ZETA EQHDS A 10.2 CH-LE	1106	1106	190	73	80	210
ZETA EQHDS A 12.2 CH-LE	1146	1146	200	77	82	214
ZETA EQHDS A 10.2 CH-LE_DS-DC	1151	1160	204	83	85	208
ZETA EQHDS A 12.2 CH-LE_DS-DC	1195	1206	216	88	87	212
ZETA EQHDS A 10.2 HP-LE	1148	1148	195	77	85	217
ZETA EQHDS A 12.2 HP-LE	1180	1180	204	80	86	220
ZETA EQHDS A 10.2 HP-LE_DS	1166	1168	199	80	88	217
ZETA EQHDS A 12.2 HP-LE_DS	1204	1206	209	84	89	221

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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, integrationinto 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 notdisconnect 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 theinstaller.

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 thesystem.

Drain the system during seasonal stops (wintertime) or use proper mixtures with low freezing point. Incase 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 circuitdiagrams (expansion vessel, flow switch, strainer, storage tank, vent valves, shut off valves, flexibleconnections, 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.

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