Technical Catalogue













Air-Cooled Liquid Chillers for Medium Temperature Applications

Nominal cooling capacity: 7-185 kW | 50 Hz





CRIO



SOLID AND LIGHT STRUCTURE

Structure specifically designed and built to guarantee total resistance to atmospheric agents and corrosion. Base and panels made of galvanized steel sheet, oven-painted with polyurethane powders. Equipped with sturdy support feets that facilitate the handling of the unit and allow a simple and quick installation.



EXTRACTOR FAN

The AC extractor fan, installed below the electrical panel, ensures emergency ventilation in case of R290 leakages and allows the dilution of propane. The AC-type extractor fan allows to convey the air discharge, ensuring an adequate pressure



head.

CONVEYED SAFETY VALVE EXPULSION GRID

The safety valve is conveyed outside the unit and a special kit is supplied for the final part of the conveying pipe.

In case of leakages, the dilution of propane is expulsed by the extractor fan towards the expulsion grid.



The natural solution for medium temperature applications



why R290?

CRIO air-cooled chillers offer you optimized natural solutions combining many advantages in a compact package.

RELIABILITY

Propane's refrigerating properties has been well known since the early twentieth century.

Its low density and its thermodynamic characteristics allow a reduction in charge and relatively low working pressures.

Moreover it offers a very **wide range of applications**, so it can be used in refrigeration as well as in conditioning or heating of buildings.

Euroklimat has more than 12 years' experience with R290 chillers and more than 500 units installed throughout Europe for all applications



EFFICIENCY

All Models of the CRIO product range are Eco- Design Ready.

The EU Ecodesign Directive adopted in 2009 provides rules for improving the environmental performance of products by setting out minimum energy efficiency mandatory requirements for specific product groups.

The CRIO portfolio is additionally divided between "BUSINESS", "HIGH EFFICIENCY" and "HIGH EFFICIENCY +" solutions.

Table 7- Information requirem	ents for medium tempera	tions process chillers			
Modelisk		ON 10 7-11-1 PM			
Type of condensings		air-cooled			
Indeor alde heat exchanger chillen		Water .			
Type:	Compressor-	Oriven vapour compressi	pn .		
Driver of compressors	Electric motor				
Refrigerant Suid(x):		R290			
Nem	Symbol	Value	Unit		
Operating temperature	1	- 4	15		
Seaconal Energy Performance Ratio	SEPR	1.536 (4.50)	-		
Annual electricity consumption	q	751049	BYRTH/W		
Parameters at full load and reference analysis t					
Rated refrigoration capacity	Pa.	313.36	Lw		
Rated power input	D.	141.16	NW		
Rated energy efficiency ratio	EEF	2.22/-	-		
		•	-		
Parameters at rating point 8 Declared refrigeration capacity		291.96	1 vw		
	Pa Da	105,40	NW		
Declared power input Declared energy efficiency ratio	ESFora	2.77/-	870		
Diction Charge Emobile ratio	NAPICA .	2777	-		
Parameters at rating point C		5271 - 52505.07	JK.		
Declared refrigeration capacity	Pc	171/-	NW		
Decrared power input	, D _i	87,41	HW		
Decured energy efficiency ratio	11700	1.1/-	-		
Parameters at rating point D					
Decimed refrigeration capacity	F ₀	250.1/-	. NW		
Declared power input	D ₀	77,52	NW.		
Declared energy efficiency ratio	EEPoul	3.225/-	-		
	Other items		***		
Capacity (switte)		Fired	10.1		
Degradation coefficient for chillers	ε _k	0,90	T -		
QWP of the refrigurant	R290	3,3	14 68 ₁₄		
Standard rating conditions used		2% a TWI - explerage	1200 750		



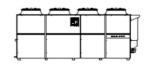












CRIO Advantages

GREEN TECHNOLOGY

Hydrocarbons like propane, and natural refrigerants in general, are particularly suitable for installation in European countries, where the attention to environmental issues and the commitment to reduce CO2 emissions are constantly growing.

R290 is a long-term solution: thanks to its very Low GWP (GWP R290 = 3) it's suitable to be used up to 2030 without any restriction connected to F-Gas Regulation.



HIGH SAFETY

R290 (propane) is a nontoxic flammable refrigerant.

To ensure the maximum level of safety, an Ex-rated Gas detector is installed as a standard on all units. All CRIO models are designed and manufactured with the aim to ensure the containment of propane. In case of R290 leakage the emergency fan is activated, allowing the dilution of propane and conveying the air/propane mixture towards the air outlet, which can be obviously conveyed if necessary. Also the safety valve(s), when fitted, is (are) conveyed outside the unit. Additionally, the separate compartment of the electrical panel ensures very high safety levels.



PLUG&PLAY

CRIO products range provides an all-in-one solution thanks to the integrated **hydraulic module (optional)** which contains all the water circuit components needed for the system to operate correctly. A wide selection of hydraulic couplings is available to fit site configuration:

- Single or twin pump with automatic switchover
- Standard or high pressure pump(s)
- Victaulic couplings

The optimized foot-print reduce the use of the surface area for easy integration into an existing building. Quick, easy and cost-effective installation and commissioning.



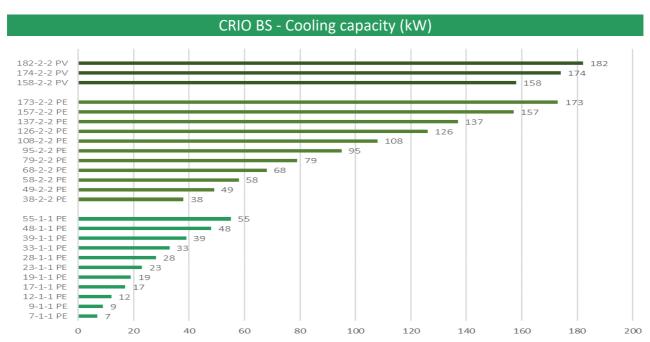
CRIO Technical features

CRIO BS: BUSINESS RANGE









CRIO BS: BUSINESS RANGE

Cooling capacity from 7 kW to 182 kW

	N. of refrigerant circuit	Compressor Quantity	Fans quantity	Evaporator type	Condenser type
7-1-1 PE ◆ → 28-1-1 PE	1	1	> 1		Cu/Al
33-1-1 PE ←→ 55-1-1 PE	1	1	2		Cu/Al
38-2-2 PE ←→ 68-2-2 PE	2	7 7 2	> > 2		Cu/Al
79-2-2 PE →→ 137-2-2 PE	2	7 7 2	>>>		Cu/Al
157-2-2 PE ←→ 173-2-2 PE	2	7 7 2	>>> 4		Cu/Al
158-2-2 PV ←→ 182-2-2 PV	2	7 7 2	>>> 4		MCX

ICONS LEGEND



R290 | GWP=3







Axial fan



Brazed plate heat exchanger



Single circuit



Double circuit



Cu/Al condensing colils



Microchannel condensing colils

CRIO Technical features

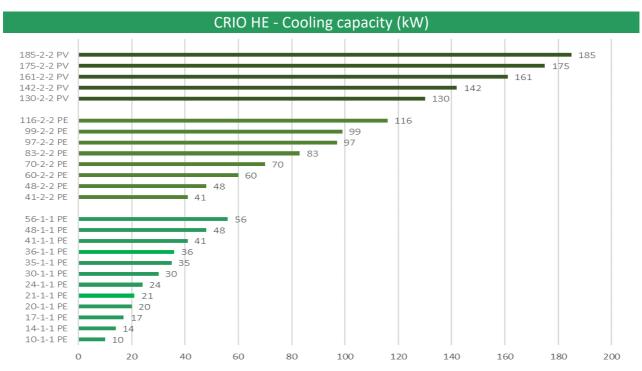
CRIO HE/HE+: HIGH EFFICIENCY RANGE











Cooling capacity from 10 kW to 185 kW

	N. of refrigerant circuit	Compressor Quantity	Fans quantity	Evaporator type	Condenser type
10-1-1 PE ← → 17-1-1 PE	1	1	1		M E
20-1-1 PE ←→ 48-1-1 PE	1	1	2		Cu/Al
56-1-1 PE	1	1	> > >		Cu/Al
41-2-2 PE ←→ 97-2-2 PE	2	7 7 2	> > > 3		Cu/Al
99-2-2 PE ◆→116-2-2 PE	2	2	>>> 4		Cur/Al
130-2-2 PV ←→ 142-2-2 PV	2	? ?	>>> 4		MCX
161-2-2 PV◀→ 185-2-2 PV	2	? ?			MCX

ICONS LEGEND



R290 | GWP=3











Double circuit





Semi-hermetic Axial fan piston compressor

heat exchanger

Single circuit

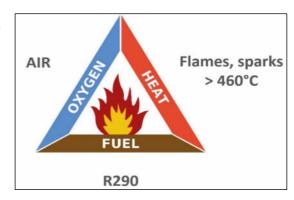
Cu/Al condensing colils

Microchannel condensing colils

Natural refrigerant Propane & flammability

Interest and application of hydrocarbon (HC) refrigerants is growing, especially now that the global warming impact of refrigerants is becoming an increasingly important aspect for the refrigeration and air conditioning industry.

It is widely known that HCs are excellent refrigerants in terms of performance and because of their negligible environmental impact aspects. However, it is generally acknowledged that their main hindrance is related to their flammability.



If you control these components, fire can be avoided

To achieve this, Euroklimat has considered three general guidelines:



Containment of the substance (propane - R290)

- ➤ CRIO units have leak-tight refrigerant circuits, sufficiently robust throughout the unit's lifetime.
- ➤ Pipework is designed to have as few pipe joints as possible.
- ➤ All the materials are fully compatible with the HC refrigerant.



Avoidance of ignition sources

- ➤ All electrically powered components are switched off in case of leakage, exception made for the gas detector and the emergency fan.
- Electrical panel is fitted in a separate compartment.
- ➤ Cable glands are at least IP65 and units have a double-barrier.



Use of leak detector & ventilation system

- Every unit is equipped with a stand-alone gas detection system.
- The sensor is ATEX Certified and is pre-calibrated at the factory. The sensor must be calibrated at least once a year.
- ➤ The fan is automatically activated in case of unlikely leak of propane.

Protection of workers that may come into contact with flammable atmospheres in the workplace.

This may be achieved through leak-tight design, ventilation and appropriate protective systems (for example portable leak detectors).

Where a flammable atmosphere can arise, people responsible for the positioning and/or installation of the equipment must ensure that a detailed risk assessment of the installation area has be done.

Safety



Euroklimat Approach

- ➤ In-depth knowledge of the basic principles for the safe use of flammable HC refrigerants.
- > Study of the safe design of refrigeration circuits using flammable refrigerants.
- ➤ More than 12 years-experience on R290 applications in several countries.

Constant improvement of the risk analysis to:

- Ensure that a detailed safety evaluation has been carried out.
- ➤ Enable the identification of ways and means to improve the level of safety of the systems and equipment, by way of detailed investigations of all of the factors that affect the risk.

ISO 9001 Quality certification in order to:

- > Ensure the customer a certification path
- Run the validation process of the project pre-market

Containment of R290

With the aim of further improving the safety level of the units and ensuring a simpler evaluation of the installation, Euroklimat developed the new CRIO range with a basic safety principle based on the containment of the flammable substance.

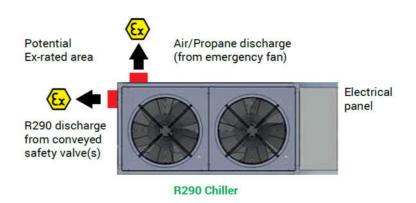
Containment of the substance is obtained by:

- ➤ Closed box in which all the refrigerant-containing components (with the obvious exception of the condensing coils) are fitted
- ➤ Gas detector ATEX certified detection system
- ➤ Extraction fan EC type
- Conveyed safety valve(s), made in such a way that in case of valve(s) opening, the extractor fan is activated.

In case of leakage, the above-mentioned components allow the ventilation of the closed box and the dilution of propane below the Lower Flammable Limit.

This system ensures an easier risk assessment of the unit's installation area.

Potential Ex-rated area may be generated at the discharge of safety valve(s) and at the discharge of the emergency fan (see picture below): if necessary, the installer can easily convey these two elements towards a safe area.



Maximum allowable R290 charge

Maximum allowable charge of Refrigerating systems and heat pumps should be evaluated according to EN378:2016. EN378:2016 is a safety and environmental standard published by CEN that provides guidance for Design, Construction, Installation, Operation and Maintenance of Refrigerating systems and heat pumps.

Maximum allowable charge depends on:

CRIO Air-cooled chillers					
Gas Classification	A3 (High Flammability, Low Toxicity)				
Application Type	All applications in particular Human Comfort				
Equipment location	Machinery room or open air				
Installation Characteristics 1	Other				
Installation Characteristics 2	Above ground				
Installation type	Floor location				
Device Type	Fixed system				
Access Category	General, Supervised, Authorized				

Access	Category	Max. allowable R290 charge		CRIO BS	CRIO HE/HE+
ئ ون	General	-	5 kg	7-1-1 PE → 33-1-1 PE 38-2-2 PE → 79-2-2 PE	10-1-1 PE 24-1-1 PE 41-2-2 PE
Ā	Supervised	ÖÖ	10 kg	7-1-1 PE → 55-1-1 PE 38-2-2 PE → 137-2-2 PE 158-2-2 PV → 182-2-2 PV	10-1-1 PE → 48-1-1 PE 41-2-2 PE → 97-2-2 PE 130-2-2 PV → 142-2-2 PV
	Authorized	###	NO LIMITS	All models	All models

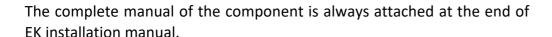


R290 Gas detector & Calibration kit

Gas Detector - Main features

PX2 - PolyXeta®2 gas warning device for R290 Propane gas is designed to detect combustible gases in the hazardous areas of zones 2 according to Directive 2014/34/ EU.

- » ATEX certified
- » Standard Alarm setting: 10% of LFL
- » 4 20 mA output signal
- » RS485-Modbus output signal
- » Alarm and fault signal relays
- » Separate power supply 230V-1ph-50Hz



Calibration kit

At least once a year the component must be checked and calibrated properly to comply with the requirements of European Regulations and Standards.

Euroklimat can provide the equipment necessary for calibration. The Calibration kit, available as accessory for all models is made of the following components:

» Gas application kit:

it must be put on the sensor head to convey test gas/zero gas. It allows a better and more precise measurement of the substance.



» Service Tool:

it is necessary for gas detector version without display (our standard) and allows an easy and simple access to zero and gain calibration.

» Kit for withdrawal of gas consisting of flow meter and pressure regulator indicators



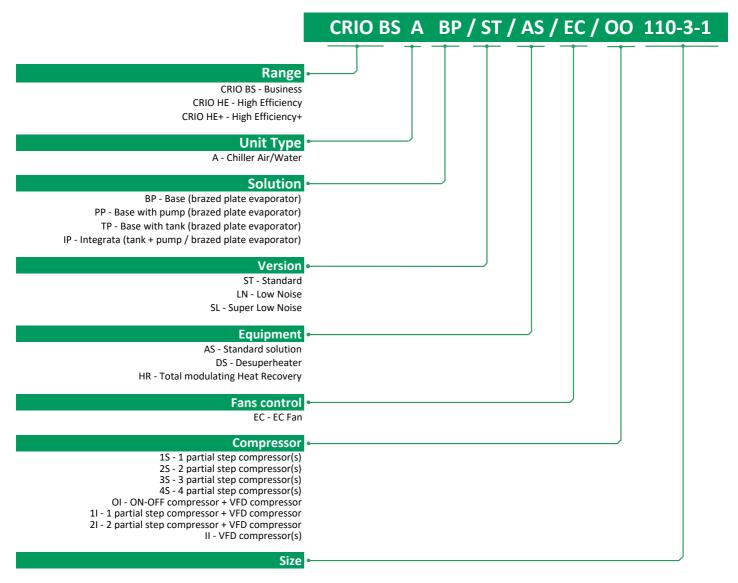


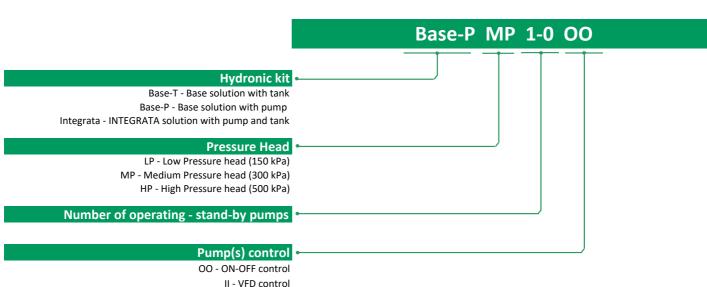
NOTE: Only a qualified technician must perform the calibration procedure.

Zero gas - Synthetic air (20 % O2, 80 % N, < 10 % RH) and Test gas bottles are not included in the Calibration kit accessory given by Euroklimat.

CRIO configurations

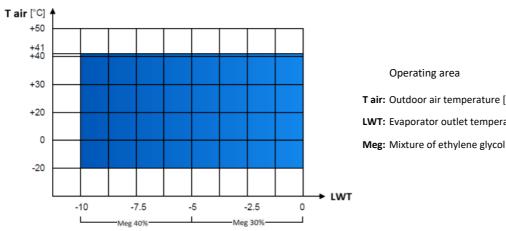
The below legend allows you to easily select the proper configuration of CRIO chiller.





CRIO operating limits

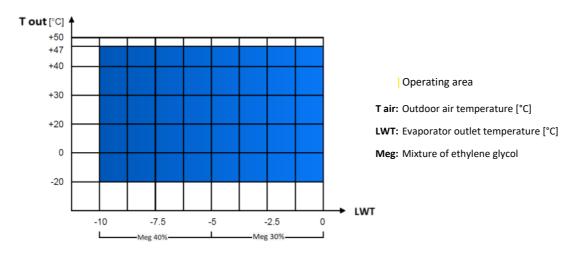
CRIO BS Cooling mode



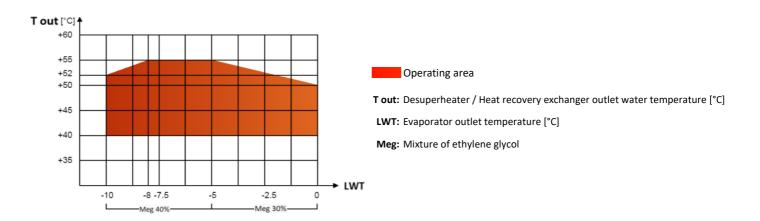
T air: Outdoor air temperature [°C]

LWT: Evaporator outlet temperature [°C]

CRIO HE / HE+ Cooling mode



CRIO BS / HE / HE+ Desuperheater and Heat recovery mode



Connected controller

Thanks to a Multitasking Operating System and to the adoption of standard protocols, local and remote connectivity the controller used in eks chillers is the most advanced technology available.





NEW OPERATING SYSTEM

New Multitasking Operating System ensures optimal system resource usage, extended data types for user application (32bit floating point numbers) application speed increase and independent protocol engines.





CONNECTIVITY

The controller has two integrated Ethernet interfaces, three serial interfaces and two USB ports.

A great choice of communication protocols is possible (Modbus, Carel, BACNet, LON, Konnex, TCP/IP, HTTP, FTP, DHCP, DNS, NTP, SNMP and many others).



CLOUD SERVICE

Plug & Play solution for tERA platform connection. All tERA services are available just connecting the Ethernet plug to your home or office network, without the need for an external connection box.

R290 reciprocating compressor with inverter

Advantages

When comparing with alternative control systems and technologies, a frequency converter is the optimum energy control system for controlling compressors.

- » Improved system quality
- » Maintaining a constant leaving water temperature
- » Wider range of operation of the heating or cooling power
- » Increased power by increasing the speed compressor
- » Energy saving
- » Longer compressor lifetime
- » Better possibilities of providing monitoring and diagnostics



Energy consumption minimized and maximizing comfort levels thanks to CRIO's INVERTER

Exact capacity match

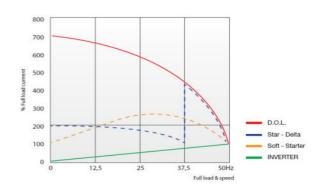
Thanks to the advanced P.I.D. control, a last-generation inverter frequency control system and electronic expansion valve management algorithm, the CRIO is able to maintain the constant outlet temperature (LWT) very close to the required Set-point, even when the load variations required by the system (demand) are very high.



Star/Delta Starter or Soft-starter not Required

When larger motors are started, it is necessary in many countries to use equipment that limits the start-up current.

In more traditional systems, a star/delta starter or softstarter is widely used. Such motor starters are not required if a frequency converter is used.



CRIO

Acoustic configuraitons

ST - Standard



This solution is suitable for installations where no particular silence is required.



Painted galvanized sheet panels

LN - Low Noise



It represents a good compromise between price and performance in terms of reducing noise levels.



Painted galvanized sheet panels, insulated with polyurethane foam sheets, polyester based, anthracite colour, self-extinguishing non dripping.

SL - Super Low Noise



This configuration is ideal for all applications where the noise of the machine is an essential aspect.



Sandwich soundproofing galvanized sheet panels, painted outside and isolated with high-density rock wool (100 Kg/m3)

CRIO

Sounds levels

Sound levels are obtained by means of theoretical calculations that could deviate from the real conditions of the place of installation of the unit.

Sound Power: this is the acoustic emission of the unit when operating. It is dependent on operating

conditions. Sound power level in compliance with ISO 3744.

Sound Pressure: this is the measurement of the effect of the acoustic emission generated by the unit at a

certain distance and in the acoustic environment (reflection, absorption, directivity) in which it operates. The value will depend on the sound power of the unit, the directivity of the source and the reflectivity of the surroundings. Sound pressure level (average value), calculated for unit in a free field on a reflective surface; non-binding value obtained from the sound power

level.

It is assumed that sound power and sound pressure are linked together by defining the space and conditions as follows:

■ the source is omnidirectional, i.e. the acoustic emission is the same in all directions

■ the conditions are free field, i.e. at 1 meter from the source there is no effect from acoustic wave reflections with the exception of the support plane

The power is therefore distributed over an imaginary sphere around the unit and the following relationship applies:

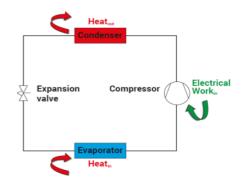
sound pressure at 1 m = sound power - 11 dB (A)



Heat recovery

What is waste heat?

All air-conditioning and refrigerating systems transfer heat from one location to another through the use of electrical work. At the evaporator heat exchanger, heat is drawn into the system to provide indoor cooling while heat leaves the system in the form of wasted heat at the condenser (see figure on the side). The amount of wasted heat is higher than the cooling that the process creates.



Is it possible to save energy by recovering waste heat from chillers?

The answer is **YES**: this heat, which is otherwise wasted to the environment, can be used for different purposes, such as building/room heating, sanitary hot water and process heat applications.

Benefits of Heat Recovery

The use of a recovery system to generate hot water can reduce the total energy needs of a building and/or a process and allows a significant increase of the global efficiency of the system.

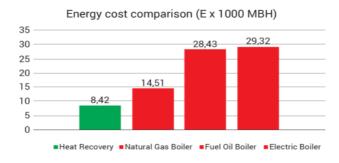
The benefits of Heat recovery systems are several:

Increased efficiency, due to the possibility to use both chilled and hot water for different purposes. To better understand this point, we can analyze the EER (Energy Efficiency Ratio) of the unit without heat recovery system and the TER (Total Efficiency Ratio) with heat recovery system. According to its definition, the EER is the ratio between Qc (cooling capacity) and the absorbed electrical power Wel. For a unit with heat recovery system, the TER is the ratio between the sum of useful effects Qc and Qrec (cooling capacity and recovered heat) and the absorbed power.

$$EER = \frac{Q_c}{W_{el}} + \frac{Q_{rec}}{W_{el}} + \frac{Q_{rec}}{W_{el}} = \frac{Q_c + Q_{rec}}{W_{el}}$$

Reduction of Energy costs: if there are simultaneous heating and cooling loads, it's possible to recover heat from chillers instead of rejecting it to the environment. This gives a double benefit: recovered heat reduces the costs of purchased heat and also reduces the ancillary power necessary to reject the heat (for example cooling towers and/or dry coolers).

A qualitative representation of the cost benefits compared to standard heat generation methods is shown below:



Reduced Environmental Emissions: energy recovery not only reduce operating costs, but also reduce emissions to the environment. Heat recovery systems allows the reduction of heat generated by burning fossil fuels (such as natural gas), and consequently the reduction of site emissions.

Energy codes and Government incentives: considering the benefits of the above-mentioned points, in different countries there are standards and building codes that require condenser-water heat recovery for service water heating and/or economical incentives for the installation of recovery systems.

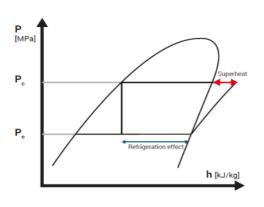
Different types of heat recovery Options available

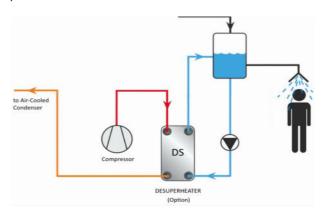
DS (DESUPERHEATER)

An additional BPHE (brazed plate heat exchanger) heat exchanger is installed between scroll compressor and air-cooled condenser.

Main features: • Captures heat from superheated refrigerant, exploiting the hot discharge gas.

- It is possible to recover only a small amount of heat (up to about 20% of the condensation heat) as this exchanger only deals with the sensible and not latent exchange. The latter takes place in the air-cooled condenser.
- Hot water temperatures up to 55°C can be achieved.



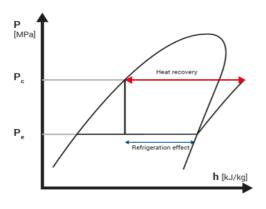


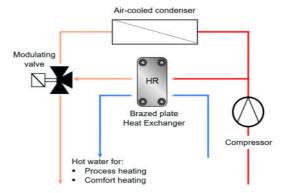
HR (TOTAL MODULATING HEAT RECOVERY)

An additional BPHE (brazed plate heat exchanger) is installed in parallel to air-cooled condenser and the design of the refrigerant circuit allows to recover the total available condenser heat.

Main features: • Captures heat from refrigerant condensing process.

- Compared to the DS, it is possible to recover a much greater quantity of heat because the latent heat exchange is exploited.
- Hot water temperatures up to 55°C can be achieved.





The solution proposed by Euroklimat for Total Heat Recovery is a modulating solution, based on the concept that the recovery load may vary during the function of the unit and, as a consequence, there could be:

- A total rejection of the condenser heat to the environment (0% heat recovery).
- A partial recovery of the available condenser heat (variable from 0% to 100%).
- Total recovery of the heat (100% heat recovery).

Why choosing Modulating Heat Recovery?

- Innovative solution.
- Dedicated software.
- Possibility to adapt and modulate the heat production according to requested thermal loads.



R290 | GWP=3













7-1-1 PE ←→ 173-2-2 PE

Air to water chillers for medium temperature applications

Standard efficiency



• Double safety valve

Solution

- B Base
- I Integrata

Version

- ST Standard
- LN Low Noise
- SL Super Low Noise

Equipment

- AS Standard equipment
- DS Desuperheater
- HR Total modulating Heat Recovery

Cooling capacity 7 - 173 kW

» For the complete list of accessories please see pages 54-55-56-57

Safety system	dedicated power supply and Modbus output signal, has an alarm three	fied gas detector and an EC centrifugal extraction fan. The sensor, with external ashold set at 10% of the lower flammable limit (LFL). The Propane alarm causes the is switched on, which allows the ventilation of the compressor compartment and the lity limit.
Structure	sheet, oven-painted with polyurethane powders. Frame made of another	to atmospheric agents and corrosion. Basement and panels made of galvanized steel dized aluminium profiles, with aluminium alloy corner joints that guarantee excellent nels are internally lined with sound-absorbing material. SL (Super Low Noise) version:
Compressor	panel); oil charge; oil level sight glass and oil crankcase heater; anti-	ic control module and protection of the electric motor (installed inside the electrical vibration rubber supports; anti-vibration pipes (suction and discharge); suction and H capacity control heads to guarantee an adaptation of the cooling capacity in case of a formation.
EC Fan	Premium-Axial-Fans with bionic shaped blades and high-efficient EC thermal class THCL 155. The motor efficiency class complies with IE4.	(Electronically Commutated) external rotor motors, sealed in protection IP54 and
Air heat exchanger	Finned coil made with copper pipes arranged on staggered rows, med area.	chanically expanded inside a pack of aluminium fins offering a high exchange surface
Water heat exchanger		plete with water differential pressure switch, air vent valve and thermally insulated er design provides high thermal exchange and high performance results, furthermore
Electrical board	installed components are identified by nameplates to better identify the 204-1/EN60204-1 and it is complete with the following main compon for compressor and fans - Cabinet minimum protection rating IP54.	It the factory. Wiring numeration and optimized layout facilitate troubleshooting. The ne application and the type of action. Switchboard is made according to standards IEC ents: - Main isolator switch - Door interlock safety device - Contactor and protection and positioned on one side of the unit. The propane sensor is equipped with separate to ensure the monitoring of any leakage.
Control	The microprocessor controls the unit capacity by timing the compressor	ors and checks the operating alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, moisture-liquid sight glass, electronic expansion valve, hi safety high pressure valve (when required by EN 378-2016 standard).	gh & low pressure gauge, high and low pressure transducers, high pressure switch,
Water circuit (Integrata)		r valve, water discharge valve, centrifugal pump(s) suitable for glycol solutions up to ol equipment is fitted inside the electrical board of the unit and the microprocessor
ACCESSORI PRINCIPALI	 Anti-vibration rubber/spring mounts Air heat exchanger protection panel or filter Air heat exchanger with various coatings treatment Low pressure switch Low pressure safety valve 	 Overpressure valve / automatic by-pass Double water pump (stand-by) - Standard/ High pressure Open / Closed expansion vessel with automatic filling unit RSH Capacity Control head / Inverter driven compressor Advanced control c.pCo

COOLING - A BP/ST/AS/EC/*S version Cooling capacity (1) [kW] 6,9 Total power input (1) [kW] 3,7 EER - Energy Efficiency Ratio - 1,88 Saved CO2 equivalent Ton (*) [CO2 Ton] 3,4 "Ecodesign" compliance for process application (SEPR) - 2,85 REFRIGERANT CIRCUIT Refrigerant -	R290	5 04 ,3 18 9 2 (50%) 8 8 5000
Total power input (1)	A,4	5 04 ,3 18 9 2 (50%) 1 8 8 5000
Total power input (1)	2,01 2,02 2,19 2,1 5,4 6 10,2 11 3,16 2,96 3,26 3,2	9 2 (50%) 8 8 8 9 1. 2 (50%)
Saved CO2 equivalent Ton (*) [CO2 Ton] 3,4 "Ecodesign" compliance for process application (SEPR) - 2,85	R290 R290 R290 R290 R290 R290 R290 R290 R296	9 2 (50%) 2 8 8 8 5000
REFRIGERANT CIRCUIT - 2,85 Refrigerant - - GWP - - Charge of refrigerant - Base unit [kg] 0,9 Independent gas circuits [n°] 1 Compressors type - - Compressors quantity [n°] 1 Steps of capacity for each compressor (std) - 1 (50%) Condensing coils type - - Fans type - - Fans quantity [n°] 1 Fans power input (1) (total) [kW] 0,5 Total air flow [m³/h] 4.300 Expansion valve type - - Evaporator water flow (1) [m³/h] 1,7 Evaporator pressure drop (1) [kPa] 28 DESUPERHEATER (option) - A BP/ST/DS/EC/*S Heating capacity (2) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2	R290 R290 1,4 1,6 2,6 2,6 2, 1 1 1 1 1 1 Semi-hermetic pistons 1 1 (75%); 2 (50%) 1 (75%); 2 (50%) 1 (75%); Cu/Al Axial EC 1 1 1 1 1 1 1 0,5 0,5 0,5 0,5 0,7 0, 6.300 6.300 11.900 12.5 Electronic 2,1 3,0 4,1 4, 22 23 27 22 2,8 3,6 4,	9
REFRIGERANT CIRCUIT Refrigerant - GWP - Charge of refrigerant - Base unit [kg] 0,9 Independent gas circuits [n°] 1 Compressors type - - Compressors quantity [n°] 1 Steps of capacity for each compressor (std) - 1 (50%) Condensing coils type - - Fans type - - Fans quantity [n°] 1 Fans power input (1) (total) [kW] 0,5 Total air flow [m³/h] 4.300 Expansion valve type - - Evaporator water flow (1) [m³/h] 1,7 Evaporator pressure drop (1) [kPa] 28 DESUPERHEATER (option) - A BP/ST/DS/EC/*S Heating capacity (2) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2	R290 3 1,4 1,6 2,6 2, 1 1 1 Semi-hermetic pistons 1 1 (75%); 2 (50%) 2 (75%); 2 (50%) 2 (75%); 2 (50%) 2 (75%); 2 (50%) 2 (75%); 2 (50%) 2 (75%); 2 (50%) 2 (75%); 2 (50%) 2 (75%); 2 (50%) 2 (9
Refrigerant	3 1,4 1,6 2,6 2, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1(75%); 2 (50%) 1 (75%); 2 (2 (50%)
Refrigerant	3 1,4 1,6 2,6 2, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1(75%); 2 (50%) 1 (75%); 2 (2 (50%)
Charge of refrigerant - Base unit [kg] 0,9 Independent gas circuits [n°] 1 Compressors type - Compressors quantity [n°] 1 Steps of capacity for each compressor (std) - 1 (50%) Condensing coils type - Fans type - Fans power input (1) (total) [kW] 0,5 Total air flow [m³/h] 4.300 Expansion valve type - Evaporator water flow (1) [kPa] 28 DESUPERHEATER (option) - A BP/ST/DS/EC/*S Heating capacity (2) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2	1,4	2 (50%)
Independent gas circuits	1 1 1 Semi-hermetic pistons 1 1 1 1 1 (75%); 2 (50%) 1	2 (50%)
Independent gas circuits	1 1 1 Semi-hermetic pistons 1 1 1 1 1 (75%); 2 (50%) 1	2 (50%)
Compressors type	1 1 1 1 1 (75%); 2 (50%) 1 (75%); 2 (50%) 1 (75%); 2 (50%) 1 (75%); Cu/Al Axial EC 1 1 1 1 0,5 0,5 0,7 0, 6.300 6.300 11.900 12.5 Electronic 2,1 3,0 4,1 4, 22 23 27 2 2 2,8 3,6 4,	2 (50%) 8 8 500
Steps of capacity for each compressor (std) - 1 (50%) Condensing coils type - - Fans type - - Fans quantity [n°] 1 Fans power input (1) (total) [kW] 0,5 Total air flow [m³/h] 4.300 Expansion valve type - - Evaporator water flow (1) [m³/h] 1,7 Evaporator pressure drop (1) [kPa] 28 DESUPERHEATER (option) - A BP/ST/DS/EC/*S Heating capacity (2) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2	1 (75%); 2 (50%) 1 (75%); 2 (50%) 1 (75%); 2 (50%) 1 (75%); Cu/Al Axial EC 1 1 1 1 0,5 0,5 0,7 0, 6.300 6.300 11.900 12.5 Electronic 2,1 3,0 4,1 4, 22 23 27 2 2 2,8 3,6 4,4	2 (50%) 8 8 500
Condensing coils type	Cu/Al Axial EC 1 1 1 1 1 0,5 0,5 0,5 0,7 0, 6.300 6.300 11.900 12.5 Electronic 2,1 3,0 4,1 4, 22 23 27 20 2 2,8 3,6 4,0	8 500
Fans type	Axial EC 1 1 1 1 1 1 0,5 0,5 0,5 0,7 0, 6.300 6.300 11.900 12.5 Electronic 2,1 3,0 4,1 4, 22 23 27 20 2 2,8 3,6 4,	8 500 7
Fans quantity [n°] 1 Fans power input (¹) (total) [kW] 0,5 Total air flow [m³/h] 4.300 Expansion valve type - - Evaporator water flow (¹) [m³/h] 1,7 Evaporator pressure drop (¹¹) [kPa] 28 DESUPERHEATER (option) - A BP/ST/DS/EC/*S Heating capacity (²) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 500 7
Fans power input (1) (total) [kW] 0,5 Total air flow [m³/h] 4.300 Expansion valve type - - Evaporator water flow (1) [m³/h] 1,7 Evaporator pressure drop (1) [kPa] 28 DESUPERHEATER (option) - A BP/ST/DS/EC/*S Heating capacity (2) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2	0,5 0,5 0,7 0, 6.300 6.300 11.900 12.5 Electronic 2,1 3,0 4,1 4, 22 23 27 20 2 2,8 3,6 4,	8 500 7
Total air flow [m³/h] 4.300 Expansion valve type - Evaporator water flow (1) [m³/h] 1,7 Evaporator pressure drop (1) [kPa] 28 DESUPERHEATER (option) - A BP/ST/DS/EC/*S Heating capacity (2) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2	6.300 6.300 11.900 12.5 Electronic 2,1 3,0 4,1 4, 22 23 27 20 2 2,8 3,6 4,	7
Expansion valve type - Evaporator water flow (1) [m³/h] 1,7 Evaporator pressure drop (2) [kPa] 28 DESUPERHEATER (option) - A BP/ST/DS/EC/*S Heating capacity (2) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2	Electronic 2,1 3,0 4,1 4, 22 23 27 20 2 2,8 3,6 4,	7
Evaporator water flow (1) [m³/h] 1,7 Evaporator pressure drop (1) [kPa] 28 DESUPERHEATER (option) - A BP/ST/DS/EC/*S Heating capacity (2) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2	2,1 3,0 4,1 4, 22 23 27 20 2 2,8 3,6 4,	
Evaporator pressure drop (1) [kPa] 28 DESUPERHEATER (option) - A BP/ST/DS/EC/*S [kW] 1,7 Heating capacity (2) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2	22 23 27 21 2 2,8 3,6 4,	
DESUPERHEATER (option) - A BP/ST/DS/EC/*S Heating capacity [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2	2 2,8 3,6 4,	6
Heating capacity (2) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2		
Heating capacity (2) [kW] 1,7 Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2		
Water flow [m³/h] 0,30 Pressure drop (water side) [kPa] 5,2		3
Pressure drop (water side) [kPa] 5,2	0,04 0,40 0,01 0,01	
	5,2 5,3 5,2 5,	
HEAT RECOVERY (option) - A BP/ST/HR/EC/*S		
Heating capacity (2) [kW] 10,5	13,1 18,4 24,2 28	,9
Water flow [m³/h] 1,8	2,3 3,2 4,2 5,	
Pressure drop (water side) [kPa] 17,9	13,8 24,8 25,7 25	,6
Electrical data		
Power supply -	400/3/50	
Emergency power supply -	230/1/50	
Maximum power input without pump [kW] 7,0	8,7 12,5 14,1 16	
Locked rotor current – LRA without pump [A] 52,9	64,1 88,3 104,2 119	
Maximum absorbed current - FLA without pump [A] 12,7	14,8 21,6 23,5 30	,6
IIVODONIC VIT (option)		
HYDRONIC KIT (option)	20 20 50	
Buffer tank capacity [L] 30	30 30 60 61	J
Pump type -	Centrifugal	
Standard pump - 150 kPa useful head		
Motor Efficiency		
Pump motor nominal power [kW] 0,37	0,37 0,37 0,55 0,5	
Pump motor nominal current [A] 1,4	1,4 1,4 1,9 1,	
r sump motor monitoric [A] 1/4	1 2,7 2,7 1,3	
Standard pump - 250 kPa useful head		
Standard pump - 250 kPa useful head Motor Efficiency	- IE3 IE3 IE	3
· ·	- IE3 IE3 IE 0,55 0,75 0,9 0,	
Motor Efficiency		9
Motor Efficiency - - Pump motor nominal power [kW] 0,55 Pump motor nominal current [A] 2	0,55 0,75 0,9 0,	9
Motor Efficiency - - Pump motor nominal power [kW] 0,55 Pump motor nominal current [A] 2 Water connections	0,55 0,75 0,9 0, 2 1,9 2,5 2,	9 5
Motor Efficiency - - Pump motor nominal power [kW] 0,55 Pump motor nominal current [A] 2	0,55 0,75 0,9 0, 2 1,9 2,5 2,	9 5
Motor Efficiency - - Pump motor nominal power [kW] 0,55 Pump motor nominal current [A] 2 Water connections Dimension (nominal external diameter) [inch/DN] 1/2" (DN15)	0,55 0,75 0,9 0, 2 1,9 2,5 2,	9 5
Motor Efficiency - - Pump motor nominal power [kW] 0,55 Pump motor nominal current [A] 2 Water connections [inch/DN] 1/2" (DN15) Noise levels (3) (3)	0,55 0,75 0,9 0, 2 1,9 2,5 2, 1 1/2" (DN15) 1" (DN 25) 1" (DN 25) 1" (DN 25)	9 5 N 25)
Motor Efficiency - - Pump motor nominal power [kW] 0,55 Pump motor nominal current [A] 2 Water connections [inch/DN] 1/2" (DN15) Dimension (nominal external diameter) [inch/DN] 1/2" (DN15) Noise levels (3) [db(A)] 82	0,55 0,75 0,9 0, 2 1,9 2,5 2, 1/2" (DN15) 1" (DN 25) 1" (DN 25) 1" (DN 27) 1" (DN 28) 1	9 5 N 25)
Motor Efficiency	0,55 0,75 0,9 0, 2 1,9 2,5 2, 1/2" (DN15) 1" (DN 25) 1" (DN 25) 1" (DN 25) 79 79 82 8. 63 63 63 65 66	9 5 N 25)
Motor Efficiency - - Pump motor nominal power [kW] 0,55 Pump motor nominal current [A] 2 Water connections [inch/DN] 1/2" (DN15) Dimension (nominal external diameter) [inch/DN] 1/2" (DN15) Noise levels (3) [db(A)] 82 Total sound power (ST version) - at 1 m distance [db(A)] 67 Total sound pressure (ST version) - at 10 m distance [db(A)] 51	0,55 0,75 0,9 0, 2 1,9 2,5 2, 1/2" (DN15) 1" (DN 25) 48 48 48 51 51	9 5 5 N 25) 3 6 6 2
Motor Efficiency - - Pump motor nominal power [kW] 0,55 Pump motor nominal current [A] 2 Water connections [inch/DN] 1/2" (DN15) Noise levels (3) [inch/DN] 1/2" (DN15) Noise levels (3) [db(A)] 82 Total sound power (ST version) - at 1 m distance [db(A)] 67 Total sound pressure (ST version) - at 10 m distance [db(A)] 51 Total sound power (LN version) [db(A)] 79	0,55 0,75 0,9 0, 2 1,9 2,5 2, 1/2" (DN15) 1" (DN 25) 1	9 5 5 N 25) 3 6 2 0 0
Motor Efficiency	0,55 0,75 0,9 0, 2 1,9 2,5 2, 1/2" (DN15) 1" (DN 25) 48 48 48 51 51	9 5 5 N 25) 3 3 6 6 2 2 0 0 3 3
Motor Efficiency	0,55 0,75 0,9 0, 2 1,9 2,5 2, 1 1/2" (DN15) 1" (DN 25) 1" (DN	9 5 5 N 25) 3 6 6 2 0 0 3 3 9 9
Motor Efficiency	0,55 0,75 0,9 0, 2 1,9 2,5 2, 1/2" (DN15) 1" (DN 25) 1" (DN 25) 1" (DN 25) 79 79 82 8. 63 63 65 6. 48 48 51 5. 76 76 79 8. 60 60 62 6. 45 45 48 4.	9 5 N 25) 3 6 6 2 2 0 0 3 9 8

- Reference conditions:
 (1) Condenser air intake temperature = 30 °C Evaporator water temperature IN/OUT = -4/-8 °C Fluid: ethileneglycol Condensing coil: Cu/Al or microchannel according to models
- (2) Plate heat exchanger water tempe. IN/OUT = 40/45°C Condenser air intake temperature = 35°C Evaporator water temperature IN/OUT = -4/-8°C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

 (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

COOLING - APPST/APLC** Services	CRIO BS R290 range		23-1-1 PE	28-1-1 PE	33-1-1 PE	39-1-1 PE	48-1-1 PE
Trotel proces injust 16 15 15 15 15 15 15 15	COOLING - A BP/ST/AS/EC/*S version						
Trotel proces injust 16 15 15 15 15 15 15 15		[kW]	23,4	28	32,6	39,1	48,3
### - Energy ### Clinical Patient Conf. 2,16 2,20 2,11 2,14 2,18 2,18 2,26 2,20 2,11 2,14 2,18 2,18 2,26 2,20 2,11 2,14 2,18 2,28 2,20 2,11 2,14 2,14 2,18 2,24 2,28 2,20 2,11 2,14 2,14 2,18 2,24 2,20 2,21 2,20 2,21 2,20 2,21 2,20 2,21 2,20 2,21 2,20 2,21 2,20 2,21 2,20 2,21 2,20 2,21 2,20 2,21 2,20 2,20 2,21 2,20 2,	Total power input ⁽¹⁾	[kW]	9,9	12,7	15,4	18,3	22,1
REPROGRAPHY CINCUIT PROPRIESS AND PROCESS APPLIESS 1,000	EER - Energy Efficiency Ratio	-	2,36	2,20	2,11	2,14	2,18
Refrigerant CRCUT	Saved CO2 equivalent Ton (*)	[CO ₂ Ton]	13,3	14,2	17,7	19,9	25,3
Charge of Fefigerant	"Ecodesign" compliance for process application (SEPR)	-	3,31	3,23	3,35	3,09	3,32
Charge of Fefigerant	DEEDIGEDANT CIDCUIT						
Compression Space (Control of Control of C					R290		
Charge of enfigement - Base unit Sig 3.5 3.7 4.6 5.2 5.5 5.5							
Independent gas circuits		[kg]	3.5	3.7		5.2	6.6
Compressors type							
Compressor quantity	·						
Condensing cols type	Compressors quantity	[n°]	1	1	1	1	1
Fines type - - - - - - - - -	Steps of capacity for each compressor (std)	-	1 (75%); 2 (50%)	1 (75%); 2 (50%)	1 (75%); 2 (50%)	1 (83%); 2 (6	7%); 3 (50%)
First 1	Condensing coils type	=			Cu/Al		
Fines power input	Fans type	-			Axial EC		
Total air flow Implication Implication Insert I	Fans quantity	[n°]		1			
Expansion valve type			0,7	0,8			3
Empirish water flow Fig.	Total air flow	[m ³ /h]	11.100	11.800		23.500	36.100
Export pressure drop (ii) Export pressure drop (iii) Export pressure drop (water side)	Expansion valve type	-		T		ı	
DESIDERHEATER (option) - A BP/ST/DS/EC/*S New 4.2 5.5 6.1 7.7 8.6							
New	Evaporator pressure drop (1)	[kPa]	28	31	34	23	26
New	DESTIDERHEATER (ontion) A RD/ST/DC/EC/*C						
		[k\A/1	42	5.5	6.1	77	8.6
							·
HEAT RECOVERY (option) - A BP/ST/HR/EC/*5 [kW] 33 40,8 47,3 57 68,3 11,7 17 18 19,8 11,7 17 19 19 19 19 19 19 1				· · · · · · · · · · · · · · · · · · ·			
	Tressure drop (water side)	[Ki u]	3,3	3,3	3,4	3,3	3,3
Mater flow [m²/h] 5,7 7,0 8,1 9,8 11,7 7,0 8,1 9,8 11,7 7,0	HEAT RECOVERY (option) - A BP/ST/HR/EC/*S						
Mater flow [m²/h] 5,7 7,0 8,1 9,8 11,7 7,0 8,1 9,8 11,7 7,0		[kW]	33	40,8	47,3	57	68,3
Power supply	Water flow	[m ³ /h]	5,7	7,0	8,1	9,8	11,7
Power supply	Pressure drop (water side)	[kPa]	25,4	30,6	34,2	42,3	28,3
Power supply							
Emergency power supply		1					
Maximum power input without pump	11.						
Locked rotor current - LRA without pump			10.1	24.4		244	42.6
Maximum absorbed current - FLA without pump [A] 37,8 38,8 47,8 57,7 70,3					·		
#YDRONIC KIT (option) Buffer tank capacity							
L	Maximum absorbed current - 1 LA without pump	[A]	37,8	36,6	47,8	31,1	70,3
L	HYDRONIC KIT (option)						
Centrifugal Standard pump - 150 kPa useful head		[L]	60	60	160	160	290
Standard pump - 150 kPa useful head Standard pump - 250 kPa useful							
Motor Efficiency - -					<u> </u>		
Motor Efficiency	Standard pump - 150 kPa useful head						
Pump motor nominal current FA 1,9 2,5 2,5 2,5 3,3	Motor Efficiency	-	<u> </u>		IE	<u></u>	
Pump motor nominal current FA 1,9 2,5 2,5 2,5 3,3	Pump motor nominal power	[kW]	0,55	0,9	0,9	0,9	1,1
Notor Efficiency -	Pump motor nominal current						3,3
Notor Efficiency -							
Pump motor nominal power [kW] 1,5 1,5 1,5 1,5 1,5 2,2	· · ·				10.7		
Pump motor nominal current [A] 4,1 4,1 4,1 4,1 4,1 4,1 4,7 Water connections Dimension (nominal external diameter) [inch/DN] 1" (DN 25) 1" 1/2 (DN 40) 1"	,	-				T	
Water connections Dimension (nominal external diameter) [inch/DN] 1" (DN 25) 1" 1/2 (DN 40)	·						
Noise levels (3) Total sound pressure (ST version) - at 1 m distance [db(A)] 84 84 87 88 87 Total sound pressure (ST version) - at 1 m distance [db(A)] 67 67 70 71 69 Total sound pressure (ST version) - at 10 m distance [db(A)] 53 53 56 57 56 Total sound pressure (LN version) [db(A)] 81 81 84 85 84 Total sound pressure (LN version) - at 1 m distance [db(A)] 64 64 67 68 66 Total sound pressure (LN version) - at 10 m distance [db(A)] 50 50 53 54 53 Total sound pressure (St version) - at 1 m distance [db(A)] 79 79 82 83 82 Total sound pressure (St version) - at 1 m distance [db(A)] 62 62 65 66 64	Pump motor nominal current	[A]	4,1	4,1	4,1	4,1	4,7
Noise levels (3) Total sound pressure (ST version) - at 1 m distance [db(A)] 84 84 87 88 87 Total sound pressure (ST version) - at 1 m distance [db(A)] 67 67 70 71 69 Total sound pressure (ST version) - at 10 m distance [db(A)] 53 53 56 57 56 Total sound pressure (LN version) [db(A)] 81 81 84 85 84 Total sound pressure (LN version) - at 1 m distance [db(A)] 64 64 67 68 66 Total sound pressure (LN version) - at 10 m distance [db(A)] 50 50 53 54 53 Total sound pressure (St version) - at 1 m distance [db(A)] 79 79 82 83 82 Total sound pressure (St version) - at 1 m distance [db(A)] 62 62 65 66 64	Water connections						
Noise levels (3) Total sound power (ST version) - at 1 m distance [db(A)] 84 84 87 88 87 Total sound pressure (ST version) - at 1 m distance [db(A)] 67 67 70 71 69 Total sound pressure (ST version) - at 10 m distance [db(A)] 53 53 56 57 56 Total sound power (LN version) [db(A)] 81 81 84 85 84 Total sound pressure (LN version) - at 1 m distance [db(A)] 64 64 67 68 66 Total sound pressure (LN version) - at 10 m distance [db(A)] 50 50 53 54 53 Total sound pressure (SL version) - at 10 m distance [db(A)] 79 79 82 83 82 Total sound pressure (SL version) - at 1 m distance [db(A)] 62 62 65 66 64	Dimension (nominal external diameter)	[inch/DN]	1" (DN 25)	1" 1/2 (DN 40)	1" 1/2 (DN 40)	1" 1/2 (DN 40)	1" 1/2 (DN 40)
Total sound power (ST version) [db(A)] 84 84 87 88 87 Total sound pressure (ST version) - at 1 m distance [db(A)] 67 67 70 71 69 Total sound pressure (ST version) - at 10 m distance [db(A)] 53 53 56 57 56 Total sound power (LN version) [db(A)] 81 81 84 85 84 Total sound pressure (LN version) - at 1 m distance [db(A)] 64 64 67 68 66 Total sound pressure (LN version) - at 10 m distance [db(A)] 50 50 53 54 53 Total sound power (SL version) [db(A)] 79 79 82 83 82 Total sound pressure (SL version) - at 1 m distance [db(A)] 62 62 65 66 64	·						
Total sound pressure (ST version) - at 1 m distance [db(A)] 67 67 70 71 69 Total sound pressure (ST version) - at 10 m distance [db(A)] 53 53 56 57 56 Total sound power (LN version) [db(A)] 81 81 84 85 84 Total sound pressure (LN version) - at 1 m distance [db(A)] 64 64 67 68 66 Total sound pressure (LN version) - at 10 m distance [db(A)] 50 50 53 54 53 Total sound power (SL version) [db(A)] 79 79 82 83 82 Total sound pressure (SL version) - at 1 m distance [db(A)] 62 62 65 66 64	Noise levels (3)						
Total sound pressure (ST version) - at 10 m distance [db(A)] 53 53 56 57 56 Total sound power (LN version) [db(A)] 81 81 84 85 84 Total sound pressure (LN version) - at 1 m distance [db(A)] 64 64 67 68 66 Total sound pressure (LN version) - at 10 m distance [db(A)] 50 50 53 54 53 Total sound power (SL version) [db(A)] 79 79 82 83 82 Total sound pressure (SL version) - at 1 m distance [db(A)] 62 62 65 66 64	Total sound power (ST version)	[db(A)]	84	84		88	87
Total sound power (LN version) [db(A)] 81 81 84 85 84 Total sound pressure (LN version) - at 1 m distance [db(A)] 64 64 67 68 66 Total sound pressure (LN version) - at 10 m distance [db(A)] 50 50 53 54 53 Total sound power (SL version) [db(A)] 79 79 82 83 82 Total sound pressure (SL version) - at 1 m distance [db(A)] 62 62 65 66 64	Total sound pressure (ST version) - at 1 m distance	[db(A)]					
Total sound pressure (LN version) - at 1 m distance [db(A)] 64 64 67 68 66 Total sound pressure (LN version) - at 10 m distance [db(A)] 50 50 53 54 53 Total sound power (SL version) [db(A)] 79 79 82 83 82 Total sound pressure (SL version) - at 1 m distance [db(A)] 62 62 65 66 64	Total sound pressure (ST version) - at 10 m distance						
Total sound pressure (LN version) - at 10 m distance [db(A)] 50 50 53 54 53 Total sound power (SL version) [db(A)] 79 79 82 83 82 Total sound pressure (SL version) - at 1 m distance [db(A)] 62 62 65 66 64							
Total sound power (SL version) [db(A)] 79 79 82 83 82 Total sound pressure (SL version) - at 1 m distance [db(A)] 62 62 65 66 64							
Total sound pressure (SL version) - at 1 m distance [db(A)] 62 62 65 66 64							
101al souriu pressure (51 version) - at 10 m distance [[dD(A)] 48 48 51 52 51							
	iotal sound pressure (St version) - at 10 m distance	[db(A)]	48	48	51	52	51

- Reference conditions:
 (1) Condenser air intake temperature = 30 °C Evaporator water temperature IN/OUT = -4/-8 °C Fluid: ethileneglycol Condensing coil: Cu/Al or microchannel according to models
- (2) Plate heat exchanger water tempe. IN/OUT = 40/45°C Condenser air intake temperature = 35°C Evaporator water temperature IN/OUT = -4/-8°C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

 (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

CRIO BS R290 range		55-1-1 PE	38-2-2 PE	49-2-2 PE	58-2-2 PE
COOLING - A BP/ST/AS/EC/*S version					
ooling capacity (1)	[kW]	55,3	38,4	48,9	58
otal power input ⁽¹⁾	[kW]	27,5	18,8	22,8	27,5
ER - Energy Efficiency Ratio	- '-	2,01	2,04	2,15	2,11
aved CO2 equivalent Ton (*)	[CO ₂ Ton]	26,1	20,4	26,3	28,3
Ecodesign" compliance for process application (SEPR)	-	3,12	2,95	3,45	3,37
Ecodesign Compliance for process application (SEFR)		3,12	2,33	3,43	3,37
EFRIGERANT CIRCUIT					
efrigerant	-		R:	290	
WP	-			3	
harge of refrigerant - Base unit	[kg]	6,8	5,3	6,8	7,4
ndependent gas circuits	[n°]	1	2	2	2
ompressors type	-	-		netic pistons	_
ompressors quantity	[n°]	1	2	2	2
, , ,	- [11]				
teps of capacity for each compressor (std)		1 (83%); 2 (67%); 3 (50%)	1 (75%); 2 (50%)	1 (75%); 2 (50%)	1 (75%); 2 (50%
ondensing coils type	-			ı/Al	
ans type	-			al Ec	T
ans quantity	[n°]	2	2	2	2
ans power input ⁽¹⁾ (total)	[kW]	3,8	1,6	3,3	4,2
otal air flow	[m ³ /h]	39.000	24.100	36.200	39.800
xpansion valve type	-		Elec	tronic	
vaporator water flow ⁽¹⁾	[m ³ /h]	13,4	9,3	11,9	14,1
vaporator water now vaporator pressure drop (1)	[kPa]	28	24	25	24
raporator pressure drop	[Ki G]				2-7
ESUPERHEATER (option) - A BP/ST/DS/EC/*S					
leating capacity ⁽²⁾	[kW]	11,4	9,6	8,5	10,6
Vater flow	[m ³ /h]	1,99	1,65	1,47	1,83
ressure drop (water side)	[kPa]	5,7	5,3	5,3	5,3
	T			•	•
EAT RECOVERY (option) - A BP/ST/HR/EC/*S					1
leating capacity ⁽²⁾	[kW]	80,4	56,7	68,3	81,9
Vater flow	[m ³ /h]	13,8	9,8	11,7	14,1
ressure drop (water side)	[kPa]	29,4	19,4	26,9	36,9
Electrical data			400	/3/50	
lower supply	-				
mergency power supply	-			/1/50	_
Maximum power input without pump	[kW]	50,2	33,1	38,6	46,4
ocked rotor current – LRA without pump	[A]	330,7	149,6	220,0	248,9
Maximum absorbed current - FLA without pump	[A]	83,9	61,2	69,7	83,1
IVADONIC VIT (-ati-a)					
IYDRONIC KIT (option) uffer tank capacity	ft 1	290	160	160	160
Pump type	[L]	290		rifugal	160
unip type	-		Cent	i ii u _b ai	
tandard pump - 150 kPa useful head					
Notor Efficiency	-		ı	E3	
ump motor nominal power	[kW]	1,1	0,9	1,1	1,1
Pump motor nominal current	[A]	3,3	2,5	3,3	3,3
		5,5	2,5	5,5	3,3
andard pump - 250 kPa useful head					
Notor Efficiency	-		I	E3	
rump motor nominal power	[kW]	2,2	1,5	2,2	2,2
ump motor nominal current	[A]	4,7	4,1	4,7	4,7
		+ · · · · · · · · · · · · · · · · · · ·		·	· · · · · · · · · · · · · · · · · · ·
Vater connections					
Dimension (nominal external diameter)	[inch/DN]	1" 1/2 (DN 40)	1" 1/2 (DN 40)	1" 1/2 (DN 40)	2" (DN 50)
(3)					
oise levels (3)	F,11, / A 13	07	07	0.0	0.5
otal sound power (ST version)	[db(A)]	87	87	86	86
otal sound pressure (ST version) - at 1 m distance	[db(A)]	69	70	69	69
otal sound pressure (ST version) - at 10 m distance	[db(A)]	56	56	56	56
otal sound power (LN version)	[db(A)]	84	84	83	83
	[4]6/4]	66	67	66	66
otal sound pressure (LN version) - at 1 m distance	[db(A)]				
	[db(A)]	53	53	53	53
otal sound pressure (LN version) - at 10 m distance			53 82	53 81	53 81
Fotal sound pressure (LN version) - at 1 m distance Fotal sound pressure (LN version) - at 10 m distance Fotal sound power (SL version) Fotal sound pressure (SL version) - at 1 m distance	[db(A)]	53			

- (1) Condenser air intake temperature = 30 °C Evaporator water temperature | N/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to models

 (2) Plate heat exchanger water temp. | N/OUT = 40/45°C Condenser air intake temperature = 35°C Evaporator water temperature | N/OUT = -4/-8°C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to

 (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).

 (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

 (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

CRIO BS R290 range		68-2-2 PE	79-2-2 PE	95-2-2 PE	108-2-2 PE
COOLING - A BP/ST/AS/EC/*S version	-				•
Cooling capacity (1)	[kW]	68,1	79,2	94,8	108
otal power input ⁽¹⁾	[kW]	30,6	38,8	45,2	55,2
ER - Energy Efficiency Ratio	-	2,23	2,04	2,10	1,96
aved CO2 equivalent Ton (*)	[CO ₂ Ton]	36,3	38,1	47,8	49,6
Ecodesign" compliance for process application (SEPR)	-	3,37	3,16	3,18	3,00
, , , , , , , , , , , , , , , , , , ,		- /-	-, -		-7
EFRIGERANT CIRCUIT					
efrigerant	-		R:	290	
GWP .	-			3	
harge of refrigerant - Base unit	[kg]	9,4	9,9	12,4	12,9
ndependent gas circuits	[n°]	2	2	2	2
ompressors type	-		Semi-herm	netic pistons	
ompressors quantity	[n°]	2	2	2	2
teps of capacity for each compressor (std)	-	1 (75%); 2 (50%)		1 (83%); 2 (67%); 3 (50%)	
ondensing coils type	_	= (. =,-,, = (==,-,	Cı	ı/Al	'
ans type	_			al Ec	
ans quantity	[n°]	2	3	3	3
ans power input ⁽¹⁾ (total)	[kW]	4,1	5,9	5,8	6,5
otal air flow	[m³/h]	36.500	57.800	52.700	55.400
xpansion valve type	- 2			tronic	
vaporator water flow (1)	[m ³ /h]	16,5	19,2	23,0	26,2
vaporator pressure drop (1)	[kPa]	25	33	36	39
FCURENUS ATER (
ESUPERHEATER (option) - A BP/ST/DS/EC/*S	F10	44.7	45	477	2::
eating capacity (2)	[kW]	11,7	15	17,7	24,3
Vater flow	[m³/h]	2,03	2,60	3,14	4,19
ressure drop (water side)	[kPa]	5,4	5,4	5,5	5,8
FAT DECOVEDY (ankion) A DD (CT/UD /CC/*C					
IEAT RECOVERY (option) - A BP/ST/HR/EC/*S leating capacity (2)	[kW]	95,9	114	137	161
Vater flow	[m³/h]	16,5	19,6	23,6	27,7
ressure drop (water side)	[m /n] [kPa]	31,3	29,4	32,9	36,1
ressure drop (water side)	[KPd]	31,3	29,4	32,9	30,1
lectrical data					
ower supply			400	/3/50	
mergency power supply	-			/1/50	
Maximum power input without pump	[kW]	56,4	72,6	82,2	97,4
					410,0
ocked rotor current – LRA without pump	[A]	277,7 97,3	307,1	348,0 136,0	163,2
Maximum absorbed current - FLA without pump	[A]	97,3	121,8	130,0	103,2
YDRONIC KIT (option)					
uffer tank capacity	[L]	160	290	290	290
rump type	-	100		rifugal	250
			cent	٠٠٠٠	
tandard pump - 150 kPa useful head					
Notor Efficiency	-		ı	E3	
ump motor nominal power	[kW]	2,2	2,2	2,2	2,2
ump motor nominal current	[A]	4,7	4,7	4,7	4,7
	6.0	,-	<i>'</i> -	,	
andard pump - 250 kPa useful head					
1otor Efficiency	-		I	E3	
ump motor nominal power	[kW]	2,2	3	3	4
ump motor nominal current	[A]	4,7	6,4	6,4	8,7
/ater connections					
imension (nominal external diameter)	[inch/DN]	2" (DN 50)	2" (DN 50)	2"1/2 (DN 65)	2"1/2 (DN 65)
(2)					
oise levels (3)		25		1	
otal sound power (ST version)	[db(A)]	88	89	91	91
otal sound pressure (ST version) - at 1 m distance	[db(A)]	70	71	73	73
otal sound pressure (ST version) - at 10 m distance	[db(A)]	57	57	59	59
	[db(A)]	85	86	88	88
otal sound power (LN version)	[45(1)]				70
	[db(A)]	67	68	70	70
otal sound pressure (LN version) - at 1 m distance	[db(A)]	67 54	68 54	70 56	56
otal sound pressure (LN version) - at 1 m distance otal sound pressure (LN version) - at 10 m distance	[db(A)] [db(A)]	54			56
Total sound power (LN version) Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 10 m distance Total sound power (SL version) Total sound pressure (SL version) - at 1 m distance	[db(A)]		54	56	

- (1) Condenser air intake temperature = 30 °C Evaporator water temperature | N/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to models

 (2) Plate heat exchanger water temp. | N/OUT = 40/45°C Condenser air intake temperature = 35°C Evaporator water temperature | N/OUT = -4/-8°C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to

 (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).

 (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

 (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

CRIO BS R290 range		126-2-2 PE	137-2-2 PE	157-2-2 PE	173-2-2 PE
COOLING - A BP/ST/AS/EC/*S version					
Cooling capacity (1)	[kW]	126	137	157	173
otal power input ⁽¹⁾	[kW]	63,8	70,3	74,6	82,1
ER - Energy Efficiency Ratio	`-	1,97	1,95	2,11	2,11
aved CO2 equivalent Ton (*)	[CO ₂ Ton]	70,8	73,5	98,2	101,8
Ecodesign" compliance for process application (SEPR)	-	2,70	2,68	2,83	2,80
y		, -	, , ,		,
EFRIGERANT CIRCUIT					
efrigerant	-		R:	290	
GWP .	-			3	
harge of refrigerant - Base unit	[kg]	18,4	19,1	25,5	26,5
dependent gas circuits	[n°]	2	2	2	2
ompressors type	-		Semi-herm	netic pistons	
ompressors quantity	[n°]	2	2	2	2
teps of capacity for each compressor (std)	-		2 (75%); 3 (6	2,5%); 4 (50%)	
ondensing coils type	-		Cı	ı/Al	
ans type	-		Axi	al EC	
ans quantity	[n°]	3	3	4	4
ans power input ⁽¹⁾ (total)	[kW]	5,3	5,7	5,4	6,1
otal air flow	[m³/h]	66.600	68.400	77.500	81.200
pansion valve type	-			tronic	
vaporator water flow (1)	[m ³ /h]	30,5	33,2	38,1	41,9
vaporator water now	[kPa]	43	45	42	37
application procedure drop	[Ki U]	.5		12	1 3,
ESUPERHEATER (option) - A BP/ST/DS/EC/*S					
leating capacity (2)	[kW]	29,1	32,6	33,1	37
Vater flow	[m³/h]	5,04	5,61	5,75	6,40
ressure drop (water side)	[kPa]	6,0	6,2	15,0	16,0
					•
EAT RECOVERY (option) - A BP/ST/HR/EC/*S					
leating capacity ⁽²⁾	[kW]	186	205	228	250
Vater flow	[m ³ /h]	32,0	35,3	39,2	43,0
ressure drop (water side)	[kPa]	40	47,5	50,5	53,7
lectrical data					
ower supply	-			/3/50	
mergency power supply	-			/1/50	T
laximum power input without pump	[kW]	92,0	111,2	113,5	119,1
ocked rotor current – LRA without pump	[A]	385,7	468,3	559,0	660,8
1aximum absorbed current - FLA without pump	[A]	161,4	188,6	189,4	207,0
WDDONIC WIT (ti)					
YDRONIC KIT (option)	ful	F00	F00	470	470
uffer tank capacity	[L]	500	500	470 rifugal	470
ump type	-		cent	ıııugaı	
tandard pump - 150 kPa useful head					
Notor Efficiency	-		ı	E3	
ump motor nominal power	[kW]	3	3	3	3
ump motor nominal current	[A]	6,4	6,4	6,4	6,4
any motor nominal current	[A]	0,4	0,4	0,4	0,4
andard pump - 250 kPa useful head					
otor Efficiency	-		I	E3	
ump motor nominal power	[kW]	4	4	5,5	5,5
ump motor nominal current	[A]	8,7	8,7	10,6	10,6
	+ * * * +	·	·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
ater connections					
imension (nominal external diameter)	[inch/DN]	3" (DN 80)	3" (DN 80)	3" (DN 80)	3" (DN 80)
(2)					
oise levels (3)	1			1	1
tal sound power (ST version)	[db(A)]	90	94	95	95
otal sound pressure (ST version) - at 1 m distance	[db(A)]	71	75	76	76
otal sound pressure (ST version) - at 10 m distance	[db(A)]	58	62	63	63
otal sound power (LN version)	[db(A)]	87	91	92	92
otal sound pressure (LN version) - at 1 m distance	[db(A)]	68	72	73	73
				60	60
	[db(A)]	55	59	60	00
otal sound pressure (LN version) - at 10 m distance	[db(A)] [db(A)]	55 85	89	90	90
otal sound pressure (LN version) - at 10 m distance otal sound power (SL version) otal sound pressure (SL version) - at 1 m distance					

- (1) Condenser air intake temperature = 30 °C Evaporator water temperature | N/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to models

 (2) Plate heat exchanger water temp. | N/OUT = 40/45°C Condenser air intake temperature = 35°C Evaporator water temperature | N/OUT = -4/-8°C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to

 (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).

 (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

 (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant















158-2-2 PV ←→ 182-2-2 PV

Air to water chillers for medium temperature applications

Standard efficiency



• Double safety valve

Solution

B - Base

I - Integrata

Version

ST - Standard

LN - Low Noise

SL - Super Low Noise

Equipment

AS - Standard equipment

DS - Desuperheater

HR - Total modulating Heat Recovery

» For the complete list of accessories please see pages 54-55-56-57

		Cooling capacity 158 - 182 kW			
Safety system	To ensure high-safety-level the unit is equipped with an ATEX certified gas detector and an EC centrifugal extraction fan. The sensor, with exte dedicated power supply and Modbus output signal, has an alarm threshold set at 10% of the lower flammable limit (LFL). The Propane alarm causes immediate shutdown of the machine and the centrifugal extraction fan is switched on, which allows the ventilation of the compressor compartment and dilution of the R290 concentration to values below the lower flammability limit.				
Structure	sheet, oven-painted with polyurethane powders. Frame made of anoc	to atmospheric agents and corrosion. Basement and panels made of galvanized steel lized aluminium profiles, with aluminium alloy corner joints that guarantee excellent tels are internally lined with sound-absorbing material. SL (Super Low Noise) version:			
Compressor	panel); oil charge; oil level sight glass and oil crankcase heater; anti-	ic control module and protection of the electric motor (installed inside the electrical wibration rubber supports; anti-vibration pipes (suction and discharge); suction and H capacity control heads to guarantee an adaptation of the cooling capacity in case of Iformation.			
EC Fan	Premium-Axial-Fans with bionic shaped blades and high-efficient EC thermal class THCL 155. The motor efficiency class complies with IE4.	(Electronically Commutated) external rotor motors, sealed in protection IP54 and			
Air heat exchanger	Microchannel technology increases the primary to secondary surface through our condensers.	area ratio and reduces the tube's air shadow to provide maximum heat exchange			
Water heat exchanger	Brazed plate-type heat exchanger, stainless steel AISI 316 made, complete with water differential pressure switch, air vent valve and thermally insula with closed-cell neoprene anti-condensate material. The heat exchanger design provides high thermal exchange and high performance results, furtherm it guarantees small dimensions and easy installation and maintenance.				
Electrical board	Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. T installed components are identified by nameplates to better identify the application and the type of action. Switchboard is made according to standards 1204-1/EN60204-1 and it is complete with the following main components: - Main isolator switch - Door interlock safety device - Contactor and protectifor compressor and fans - Cabinet minimum protection rating IP54. To ensure higher level of security, the cabinet is outside the machine and positioned on one side of the unit. The propane sensor is equipped with separations power supply: this power supply must always be guaranteed in order to ensure the monitoring of any leakage.				
Control	The microprocessor controls the unit capacity by timing the compresso	rs and checks the operating alarms with the possibility to connect to BMS.			
Refrigerant circuit	Filter drier, moisture-liquid sight glass, electronic expansion valve, hig safety high pressure valve (when required by EN 378-2016 standard).	th & low pressure gauge, high and low pressure transducers, high pressure switch,			
Water circuit (Integrata)	=	valve, water discharge valve, centrifugal pump(s) suitable for glycol solutions up to ol equipment is fitted inside the electrical board of the unit and the microprocessor			
ACCESSORI PRINCIPALI	 Anti-vibration rubber/spring mounts Air heat exchanger protection panel or filter Air heat exchanger with various coatings treatment Low pressure switch Low pressure safety valve 	 Overpressure valve / automatic by-pass Double water pump (stand-by) - Standard/ High pressure Open / Closed expansion vessel with automatic filling unit RSH Capacity Control head / Inverter driven compressor Advanced control c.pCo 			

CRIO BS R290 range		158-2-2 PV	174-2-2 PV	182-2-2 PV
COOLING - A BP/ST/AS/EC/*S version				
Cooling capacity (1)	[kW]	158	174	182
Total power input (1)	[kW]	74,6	81,9	85,7
EER - Energy Efficiency Ratio		2,12	2,12	2,12
Saved CO2 equivalent Ton (*)	[CO ₂ Ton]	64,6	69,5	69,5
"Ecodesign" compliance for process application (SEPR)	-	2,82	2,80	2,79
REFRIGERANT CIRCUIT				
Refrigerant	-		R290	
GWP	-		3	
Charge of refrigerant - Base unit	[kg]	16,8	18,1	18,1
Independent gas circuits	[n°]	2	2	2
Compressors type	-		Semi-hermetic pistons	
Compressors quantity	[n°]	2	2	2
Steps of capacity for each compressor (std)	-		2 (75%); 3 (62,5%); 4 (50%)	
Condensing coils type	-		Microchannel	
Fans type	-		Axial EC	
Fans quantity	[n°]	4	4	4
Fans power input ⁽¹⁾ (total)	[kW]	4,9	5,4	5,7
Total air flow	[m ³ /h]	77.100	80.100	81.900
Expansion valve type	-		Electronic	
Evaporator water flow ⁽¹⁾	[m ³ /h]	38,3	42,2	44,1
Evaporator pressure drop (1)	[kPa]	42	38	41
DESUPERHEATER (option) - A BP/ST/DS/EC/*S	1			
Heating capacity (2)	[kW]	32,7	36,1	38,4
Water flow	[m³/h]	5,66	6,24	6,66
Pressure drop (water side)	[kPa]	14,7	15,4	15,8
HEAT RECOVERY (option) - A BP/ST/HR/EC/*S				
HEAT RECOVERY (OPTION) - A BP/ST/HR/EC/*S Heating capacity ⁽²⁾	[LAM]	220	350	202
	[kW]	228	250	263
Water flow	[m³/h]	39,2	43,0	45,2
Pressure drop (water side)	[kPa]	50,5	53,7	38,6
Flectrical data				
			400/3/50	
Power supply			400/3/50 230/1/50	
Power supply Emergency power supply	-	113.5	230/1/50	127 3
Power supply Emergency power supply Maximum power input without pump	- [kW]	113,5	230/1/50 119,1	127,3
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump	- [kW] [A]	559,0	230/1/50 119,1 660,8	704,4
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump	- [kW]	•	230/1/50 119,1	
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump	- [kW] [A]	559,0	230/1/50 119,1 660,8	704,4
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option)	- [kW] [A] [A]	559,0	230/1/50 119,1 660,8	704,4
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity	- [kW] [A]	559,0 189,4	230/1/50 119,1 660,8 207,0	704,4 222,2
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity	- [kW] [A] [A]	559,0 189,4	230/1/50 119,1 660,8 207,0	704,4 222,2
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head	- [kW] [A] [A]	559,0 189,4	230/1/50 119,1 660,8 207,0 290 Centrifugal	704,4 222,2
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head	[kW] [A] [A] [L] -	559,0 189,4	230/1/50 119,1 660,8 207,0	704,4 222,2
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency	[kW] [A] [A] [L]	559,0 189,4	230/1/50 119,1 660,8 207,0 290 Centrifugal	704,4 222,2
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power	[kW] [A] [A] [L] -	559,0 189,4 290	230/1/50 119,1 660,8 207,0 290 Centrifugal	704,4 222,2 290
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current	[kW] [A] [A] [L] - [kW]	559,0 189,4 290	230/1/50 119,1 660,8 207,0 290 Centrifugal	704,4 222,2 290
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head	[kW] [A] [A] [L] - [kW] [A]	559,0 189,4 290	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4	704,4 222,2 290
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency	[kW] [A] [A] [L] - [kW] [A]	559,0 189,4 290 3 6,4	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4	704,4 222,2 290 3 6,4
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current	- [kW] [A] - [kW] [A] - [kW] [KW]	559,0 189,4 290 3 6,4	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5	704,4 222,2 290 3 6,4
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current	[kW] [A] [A] [L] - [kW] [A]	559,0 189,4 290 3 6,4	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4	704,4 222,2 290 3 6,4
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current	- [kW] [A] - [kW] [A] - [kW] [KW]	559,0 189,4 290 3 6,4	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5	704,4 222,2 290 3 6,4
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections	- [kW] [A] [A] [A] [A] [L] - [kW] [A] [A]	3 6,4 5,5 10,6	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5 10,6	704,4 222,2 290 3 6,4 5,5 10,6
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current	- [kW] [A] - [kW] [A] - [kW] [KW]	559,0 189,4 290 3 6,4	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5	704,4 222,2 290 3 6,4
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter)	- [kW] [A] [A] [A] [A] [L] - [kW] [A] [A]	3 6,4 5,5 10,6	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5 10,6	704,4 222,2 290 3 6,4 5,5 10,6
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3)	- [kW] [A] [L] - [kW] [A] [kW] [A] [A] [inch/DN]	559,0 189,4 290 3 6,4 5,5 10,6	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80)	704,4 222,2 290 3 6,4 5,5 10,6
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version)	- [kW] [A] [A] [A] [L] - [kW] [A] [kW] [A] [inch/DN]	559,0 189,4 290 3 6,4 5,5 10,6	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80)	704,4 222,2 290 3 6,4 5,5 10,6
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance	- [kW] [A] [A] [A] [A] [A] - [kW] [A] [A] [inch/DN] [db(A)] [db(A)]	559,0 189,4 290 3 6,4 5,5 10,6 3" (DN 80)	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80)	704,4 222,2 290 3 6,4 5,5 10,6 3" (DN 80)
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels [3] Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance	- [kW] [A] [A] [A] [A] [A] [A] - [kW] [A] [kW] [A] [inch/DN] [db(A)] [db(A)] [db(A)]	559,0 189,4 290 3 6,4 5,5 10,6 3" (DN 80)	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80)	704,4 222,2 290 3 6,4 5,5 10,6 3" (DN 80)
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound power (LN version)	- [kW] [A] [A] [A] [A] [A] [A] - [kW] [A] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)]	559,0 189,4 290 3 6,4 5,5 10,6 3" (DN 80)	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80)	704,4 222,2 290 3 6,4 5,5 10,6 3" (DN 80)
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound power (LN version) Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance	- [kW] [A] [A] [A] [A] [A] [A] [A] [L] [- [kW] [A] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)]	559,0 189,4 290 3 6,4 5,5 10,6 3" (DN 80) 95 76 63 92 73	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80) 95 76 63 92 73	704,4 222,2 290 3 6,4 5,5 10,6 3" (DN 80)
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound pressure (ST version) - at 1 m distance Total sound pressure (IN version) Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance	[kW] [A] [A] [A] [A] [A] [A] [A] [A] [L] - [kW] [A] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)]	559,0 189,4 290 3 6,4 5,5 10,6 3" (DN 80) 95 76 63 92 73 60	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80) 95 76 63 92 73 60	704,4 222,2 290 3 6,4 5,5 10,6 3" (DN 80) 97 78 65 94 75 62
Power supply Emergency power supply Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound pressure (ST version) - at 1 m distance Total sound pressure (LN version) Total sound pressure (LN version) Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 10 m distance Total sound power (SL version) - at 10 m distance Total sound power (SL version) - at 10 m distance	[kW] [A] [A] [A] [A] [A] [A] [A] [L] - [kW] [A] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)]	559,0 189,4 290 3, 6,4 5,5 10,6 3" (DN 80) 95 76 63 92 73 60 90	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80) 95 76 63 92 73 60 90	704,4 222,2 290 3 6,4 5,5 10,6 3" (DN 80) 97 78 65 94 75 62
Maximum power input without pump Locked rotor current – LRA without pump Maximum absorbed current - FLA without pump HYDRONIC KIT (option) Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound pressure (ST version) Total sound pressure (ST version) - at 1 m distance Total sound power (LN version) Total sound power (LN version) - at 1 m distance	[kW] [A] [A] [A] [A] [A] [A] [A] [A] [L] - [kW] [A] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)]	559,0 189,4 290 3 6,4 5,5 10,6 3" (DN 80) 95 76 63 92 73 60	230/1/50 119,1 660,8 207,0 290 Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80) 95 76 63 92 73 60	704,4 222,2 290 3 6,4 5,5 10,6 3" (DN 80) 97 78 65 94 75 62

- (1) Condenser air intake temperature = 30 °C Evaporator water temperature IN/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to models
 (2) Plate heat exchanger water temp. IN/OUT = 40/45°C Condenser air intake temperature = 35°C Evaporator water temperature IN/OUT = -4/-8°C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel
- (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
 (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

CRIO BS R290 range

Base-T and HR equipment

Dimensions and weights

DIMENSIONS AND WEIGHTS - Standard unit							
Lenght	[mm]	1230	1380	1380	1680	1680	1680
Width	[mm]	685	835	835	1025	1025	1025
Height (ST - LN)	[mm]	1405	1820	1820	2121	2121	2121
Height (SL)	[mm]	-	-	-	2208	2208	2208
Shipping weight (A BP/ST/AS/EC/** version)	[kg]	190	300	300	410	420	440
Operating weight (A BP/ST/AS/EC/** version)	[kg]	195	305	305	415	425	445
		•	•	•			
DIMENSIONS - Large unit							
Lenght	[mm]	1730	1980	1980	2330	2330	2330
Width	[mm]	685	835	835	1025	1025	1025
Height (ST - LN)	[mm]	1405	1820	1820	2221	2221	2221
Height (SL)	[mm]	-	-	-	2308	2308	2308
Unit dimensions with hydronic kit							
Integrata LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard	Standard
Integrata LP 1-0 OO and HR equipment	-	Large	Large	Large	Large	Large	Large
Integrata LP 1-1 OO	-	Large	Large	Large	Large	Large	Large
Integrata LP 1-1 OO and HR equipment	-	Large	Large	Large	Large	Large	Large
Integrata MP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-0 OO and HR equipment	-	Large	Large	Large	Large	Large	Large
Integrata MP 1-1 00	-	Large	Large	Large	Large	Large	Large
Integrata MP 1-1 OO and HR equipment	-	Large	Large	Large	Large	Large	Large
Base-P LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO and HR equipment	-	Large	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 00	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO and HR equipment	-	Large	Large	Large	Standard	Standard	Standard
Base-P MP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO and HR equipment	-	Large	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 00	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO and HR equipment	-	Large	Large	Large	Standard	Standard	Standard
Base-T	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-T and HR equipment	-	Large	Large	Large	Large	Large	Large
CRIO BS R290 range		28-1-1 PE	33-1-1 PE	39-1-1 PE	48-1-1 PE	55-1-1 PE	38-2-2 PE
DIMENSIONS AND WEIGHTS - Standard unit							
DIMENSIONS AND WEIGHTS - Standard unit Lenght	[mm]	1680	2330	2330	2980	2980	2330
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width	[mm]	1680 1025	2330 1025	2330 1025	2980 1025	2980 1025	2330 1025
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN)	[mm]	1680 1025 2121	2330 1025 2221	2330 1025 2221	2980 1025 2300	2980 1025 2300	2330 1025 2221
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL)	[mm] [mm]	1680 1025 2121 2208	2330 1025 2221 2308	2330 1025 2221 2308	2980 1025 2300 2360	2980 1025 2300 2360	2330 1025 2221 2308
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version)	[mm] [mm] [mm] [kg]	1680 1025 2121 2208 510	2330 1025 2221 2308 660	2330 1025 2221 2308 630	2980 1025 2300 2360 830	2980 1025 2300 2360 840	2330 1025 2221 2308 700
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL)	[mm] [mm]	1680 1025 2121 2208	2330 1025 2221 2308	2330 1025 2221 2308	2980 1025 2300 2360	2980 1025 2300 2360	2330 1025 2221 2308
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version)	[mm] [mm] [mm] [kg]	1680 1025 2121 2208 510	2330 1025 2221 2308 660	2330 1025 2221 2308 630	2980 1025 2300 2360 830	2980 1025 2300 2360 840	2330 1025 2221 2308 700
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version)	[mm] [mm] [mm] [kg] [kg]	1680 1025 2121 2208 510 515	2330 1025 2221 2308 660 665	2330 1025 2221 2308 630 635	2980 1025 2300 2360 830 837	2980 1025 2300 2360 840 847	2330 1025 2221 2308 700 705
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght	[mm] [mm] [mm] [kg] [kg]	1680 1025 2121 2208 510 515	2330 1025 2221 2308 660 665	2330 1025 2221 2308 630 635	2980 1025 2300 2360 830 837	2980 1025 2300 2360 840 847	2330 1025 2221 2308 700 705
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width	[mm] [mm] [mm] [kg] [kg]	1680 1025 2121 2208 510 515	2330 1025 2221 2308 660 665	2330 1025 2221 2308 630 635	2980 1025 2300 2360 830 837 3920 1025	2980 1025 2300 2360 840 847 3920 1025	2330 1025 2221 2308 700 705
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN)	[mm] [mm] [kg] [kg] [mm] [mm] [mm]	1680 1025 2121 2208 510 515 2330 1025 2221	2330 1025 2221 2308 660 665	2330 1025 2221 2308 630 635	2980 1025 2300 2360 830 837 3920 1025 2360	2980 1025 2300 2360 840 847 3920 1025 2360	2330 1025 2221 2308 700 705 2980 1025 2221
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width	[mm] [mm] [mm] [kg] [kg]	1680 1025 2121 2208 510 515	2330 1025 2221 2308 660 665	2330 1025 2221 2308 630 635	2980 1025 2300 2360 830 837 3920 1025	2980 1025 2300 2360 840 847 3920 1025	2330 1025 2221 2308 700 705
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL)	[mm] [mm] [kg] [kg] [mm] [mm] [mm]	1680 1025 2121 2208 510 515 2330 1025 2221	2330 1025 2221 2308 660 665	2330 1025 2221 2308 630 635	2980 1025 2300 2360 830 837 3920 1025 2360	2980 1025 2300 2360 840 847 3920 1025 2360	2330 1025 2221 2308 700 705 2980 1025 2221
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit	[mm] [mm] [kg] [kg] [mm] [mm] [mm]	1680 1025 2121 2208 510 515 2330 1025 2221 2308	2330 1025 2221 2308 660 665 2980 1025 2221 2308	2330 1025 2221 2308 630 635 2980 1025 2221 2308	2980 1025 2300 2360 830 837 3920 1025 2360 2420	2980 1025 2300 2360 840 847 3920 1025 2360 2420	2330 1025 2221 2308 700 705 2980 1025 2221 2308
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO	[mm] [mm] [kg] [kg] [kg]	1680 1025 2121 2208 510 515 2330 1025 2221 2308	2330 1025 2221 2308 660 665 2980 1025 2221 2308	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard	2980 1025 2300 2360 830 837 3920 1025 2360 2420	2980 1025 2300 2360 840 847 3920 1025 2360 2420	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm]	1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm]	1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard Standard Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO Integrata LP 1-1 OO and HR equipment	[mm] [mm] [kg] [kg] [kg] [mm] [mm] [mm]	1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Large	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard Large	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard Standard Standard Large	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Standard Large	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO	[mm] [mm] [kg] [kg] [kg] [mm] [mm] [mm] [mm]	1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Large Standard	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard Large Standard	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large Standard	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard Standard Standard Large Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Large Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard Large Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO Integrata LP 1-1 OO Integrata LP 1-1 OO Integrata MP 1-0 OO	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Large Standard Large	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard Large Standard Large	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large Standard Large	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard Standard Large Standard Standard Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Large Standard Standard Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Large Standard Large Large Large Large Large Large	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Large Standard	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Large Standard Large	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard Standard Large Standard Standard Standard Standard Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Large Standard Standard Standard Standard Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Large Standard Large Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Integrata MP 1-1 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Large Standard Large	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Large	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Large Standard Large	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard Standard Standard Standard Standard Standard Standard Standard Standard Large Standard Standard Large	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Standard Large Standard Standard Standard Standard Large	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Large Standard Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Standard Large Large Standard Large Large Standard Large Large Standard	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard Standard Standard Standard Standard Large Standard Large Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Standard Standard Standard Large Standard Large Standard Large Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Base-P LP 1-0 OO Base-P LP 1-0 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Large Large Large Large Large Large Standard Large Large Standard Standard	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Large Standard Standard Standard	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Large Standard Standard Large Standard Large Standard Large Standard Large Standard Large Standard Large	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard Standard Standard Large Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Large Standard Standard Large Standard Large Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO Integrata MP 1-1 OO Integrata MP 1-1 OO and HR equipment Base-P LP 1-0 OO Base-P LP 1-0 OO Base-P LP 1-0 OO and HR equipment Base-P LP 1-0 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Large Standard Large Large Standard Large Large Standard Standard Standard Standard	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Large Standard Standard Standard Standard	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Large Standard Standard Standard Standard	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Large Standard Standard Standard Standard Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO Integrata MP 1-1 OO and HR equipment Base-P LP 1-0 OO Base-P LP 1-0 OO Base-P LP 1-1 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Large Large Large Large Standard Large Large Standard Standard Standard Standard Standard Standard	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Standard Standard Standard Standard Standard Standard	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Standard Standard Standard Standard Standard Standard	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard Standard Standard Standard Standard Standard Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (ST - LN) Height (ST - LN) Height (ST - LN) Doperating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO Integrata MP 1-1 OO and HR equipment Base-P LP 1-0 OO and HR equipment Base-P LP 1-0 OO and HR equipment Base-P LP 1-1 OO and HR equipment Base-P LP 1-1 OO	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Standard Large Large Standard Standard Standard Standard Standard Standard Standard Standard	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Standard Large Standard Standard Standard Large Standard Standard Standard Standard Standard Standard Standard Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (ST - LN) Height (ST - LN) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Base-P LP 1-0 OO Base-P LP 1-1 OO Base-P MP 1-0 OO And HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Large Standard Large Large Standard	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Standard Large Standard Standard Large Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Base-P LP 1-0 OO and HR equipment Base-P LP 1-1 OO Base-P MP 1-0 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Large Standard Large Large Standard	2330	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Standard Large Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (ST - LN) Height (ST - LN) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Base-P LP 1-0 OO Base-P LP 1-1 OO Base-P MP 1-0 OO And HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [1680 1025 2121 2208 510 515 2330 1025 2221 2308 Standard Large Large Large Standard Large Large Standard	2330 1025 2221 2308 660 665 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard	2330 1025 2221 2308 630 635 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard	2980 1025 2300 2360 830 837 3920 1025 2360 2420 Standard	2980 1025 2300 2360 840 847 3920 1025 2360 2420 Standard Standard Standard Large Standard Standard Large Standard	2330 1025 2221 2308 700 705 2980 1025 2221 2308 Standard Large Standard Large Standard Large Standard Large Standard

Large

Standard

Standard

Standard

Standard

Standard

7-1-1 PE

9-1-1 PE

12-1-1 PE

17-1-1 PE

23-1-1 PE

Dimensions and weights

CRIO BS R290 range		49-2-2 PE	58-2-2 PE	68-2-2 PE	79-2-2 PE	95-2-2 PE	108-2-2 PE
DIMENSIONS AND WEIGHTS - Standard unit							
Lenght	[mm]	2980	2980	2980	3920	3920	3920
Width	[mm]	1025	1025	1025	1025	1025	1025
Height (ST - LN)	[mm]	2300	2300	2300	2360	2360	2360
Height (SL)	[mm]	2360	2360	2360	2420	2420	2420
Shipping weight (A BP/ST/AS/EC/** version)	[kg]	940	970	1000	1200	1260	1280
Operating weight (A BP/ST/AS/EC/** version)	[kg]	947	977	1007	1208	1268	1288
DINATALCIONIC I "							
DIMENSIONS - Large unit		2020	2020	2020		T	T
Lenght Width	[mm]	3920 1025	3920 1025	3920	-	-	-
	[mm]	2360	2360	1025 2360	-	-	-
Height (ST - LN) Height (SL)	[mm]	2420	2420	2420	-		-
Height (3L)	[iiiiii]	2420	2420	2420	<u>-</u>	<u> </u>	
Unit dimensions with hydronic kit							
Integrata LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard	Standard
Integrata LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard	Standard
Integrata LP 1-1 00	-	Standard	Standard	Standard	Standard	Standard	Standard
Integrata LP 1-1 OO and HR equipment	-	Large	Large	Large	Standard	Standard	Standard
Integrata MP 1-0 00	-	Standard	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-1 00	-	Standard	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-1 OO and HR equipment	-	Large	Large	Large	Standard	Standard	Standard
Base-P LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 00	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 00	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-T	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-T and HR equipment	-	Standard	Standard	Standard	Standard	Standard	Standard
CRIO BS R290 range		126-2-2 PE	137-2-2 PE	157-2-2 PE	173-2-2 PE	158-2-2 PV	174 & 182-2-2 PV
DIMENSIONS AND WEIGHTS - Standard unit							
DIMENSIONS AND WEIGHTS - Standard unit Lenght	[mm]	4200	4200	5500	5500	3100	3100
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width	[mm]	4200 1185	4200 1185	5500 1535	5500 1535	3100 2345	3100 2345
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN)	[mm]	4200 1185 2320	4200 1185 2320	5500 1535 2350	5500 1535 2350	3100 2345 2465	3100 2345 2465
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL)	[mm] [mm]	4200 1185 2320 2380	4200 1185 2320 2380	5500 1535 2350 2410	5500 1535 2350 2410	3100 2345 2465 2525	3100 2345 2465 2525
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version)	[mm] [mm] [mm] [kg]	4200 1185 2320 2380 1630	4200 1185 2320 2380 1670	5500 1535 2350 2410 1700	5500 1535 2350 2410 1920	3100 2345 2465 2525 1925	3100 2345 2465 2525 1940
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL)	[mm] [mm]	4200 1185 2320 2380	4200 1185 2320 2380	5500 1535 2350 2410	5500 1535 2350 2410	3100 2345 2465 2525	3100 2345 2465 2525
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version)	[mm] [mm] [mm] [kg]	4200 1185 2320 2380 1630	4200 1185 2320 2380 1670	5500 1535 2350 2410 1700	5500 1535 2350 2410 1920	3100 2345 2465 2525 1925	3100 2345 2465 2525 1940
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version)	[mm] [mm] [mm] [kg]	4200 1185 2320 2380 1630	4200 1185 2320 2380 1670	5500 1535 2350 2410 1700	5500 1535 2350 2410 1920	3100 2345 2465 2525 1925	3100 2345 2465 2525 1940
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version)	[mm] [mm] [mm] [kg] [kg]	4200 1185 2320 2380 1630 1640	4200 1185 2320 2380 1670 1680	5500 1535 2350 2410 1700 1710	5500 1535 2350 2410 1920 1930	3100 2345 2465 2525 1925 1940	3100 2345 2465 2525 1940 1955
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght	[mm] [mm] [mm] [kg] [kg]	4200 1185 2320 2380 1630 1640	4200 1185 2320 2380 1670 1680	5500 1535 2350 2410 1700 1710	5500 1535 2350 2410 1920 1930	3100 2345 2465 2525 1925 1940	3100 2345 2465 2525 1940 1955
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width	[mm] [mm] [mm] [kg] [kg] [mm]	4200 1185 2320 2380 1630 1640 5000	4200 1185 2320 2380 1670 1680 5000 1185	5500 1535 2350 2410 1700 1710 Contact EK	5500 1535 2350 2410 1920 1930 Contact EK	3100 2345 2465 2525 1925 1940 4450 2345	3100 2345 2465 2525 1940 1955 4450 2345
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN)	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm]	4200 1185 2320 2380 1630 1640 5000 1185 2320	4200 1185 2320 2380 1670 1680 5000 1185 2320	5500 1535 2350 2410 1700 1710 Contact EK Contact EK	5500 1535 2350 2410 1920 1930 Contact EK Contact EK	3100 2345 2465 2525 1925 1940 4450 2345 2465	3100 2345 2465 2525 1940 1955 4450 2345 2465
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm]	4200 1185 2320 2380 1630 1640 5000 1185 2320	4200 1185 2320 2380 1670 1680 5000 1185 2320	5500 1535 2350 2410 1700 1710 Contact EK Contact EK Contact EK	5500 1535 2350 2410 1920 1930 Contact EK Contact EK Contact EK Contact EK	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm]	4200 1185 2320 2380 1630 1640 5000 1185 2320 2380	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380	5500 1535 2350 2410 1700 1710 Contact EK Contact EK Contact EK Contact EK Standard	5500 1535 2350 2410 1920 1930 Contact EK Contact EK Contact EK Contact EK Standard	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO and HR equipment	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm]	4200 1185 2320 2380 1630 1640 5000 1185 2320 2380	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380	5500 1535 2350 2410 1700 1710 Contact EK Contact EK Contact EK Contact EK Contact EK Contact EK	5500 1535 2350 2410 1920 1930 Contact EK Contact EK Contact EK Contact EK Contact EK Contact EK	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm]	4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large Large Large Large	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large Large Large Large	5500 1535 2350 2410 1700 1710 Contact EK Contact EK Contact EK Contact EK Standard Contact EK Standard	5500 1535 2350 2410 1920 1930 Contact EK Standard Contact EK	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO Integrata LP 1-1 OO and HR equipment	[mm] [mm] [kg] [kg] [kg]	4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large Large Large Large Large	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large Large Large Large Large	5500 1535 2350 2410 1700 1710 Contact EK	5500 1535 2350 2410 1920 1930 Contact EK	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large Large	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO	[mm] [mm] [kg] [kg] [kg]	4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large Large Large Large Large Large Large Large	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large Large Large Large Large Large Large Large	5500 1535 2350 2410 1700 1710 Contact EK Standard Contact EK Standard Contact EK Standard	5500 1535 2350 2410 1920 1930 Contact EK Standard Contact EK Standard Contact EK	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large Large Standard	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Large Large Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm]	4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large Large Large Large Large Large Large Large Large	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large Large Large Large Large Large Large Large Large	5500 1535 2350 2410 1700 1710 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK	5500 1535 2350 2410 1920 1930 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large Large Standard Large	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Large Large Standard Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [mm] [4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large	5500 1535 2350 2410 1700 1710 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard	5500 1535 2350 2410 1920 1930 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large Large Standard Large	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Large Standard Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Integrata MP 1-1 OO and HR equipment	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm]	4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large	5500 1535 2350 2410 1700 1710 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard Contact EK	5500 1535 2350 2410 1920 1930 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard Contact EK	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large Large Large Standard Large Large Large Large Large Large Large Large Large	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Large Large Standard Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Base-P LP 1-0 OO	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm]	4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large Standard	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large Standard	5500 1535 2350 2410 1700 1710 Contact EK Standard	5500 1535 2350 2410 1920 1930 Contact EK Standard	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large Large Large Standard Large Large Standard Large Large Standard Large Large Standard	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Large Large Large Large Large Large Large Standard Large Large Standard Large Large Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO Integrata MP 1-1 OO Integrata MP 1-1 OO and HR equipment Integrata MP 1-1 OO Integrata MP 1-1 OO and HR equipment Base-P LP 1-0 OO Base-P LP 1-0 OO Base-P LP 1-0 OO and HR equipment	[mm] [mm] [kg] [kg] [kg] [mm] [mm] [mm] [mm]	4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large Large Large Large Large Large Large Large Large Standard Standard	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large Large Large Large Large Large Large Large Large Standard Standard	5500 1535 2350 2410 1700 1710 Contact EK Contact EK Contact EK Contact EK Contact EK Standard Contact EK	5500 1535 2350 2410 1920 1930 Contact EK Contact EK Contact EK Contact EK Contact EK Standard Standard Contact EK	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large Large Large Large Large Large Large Large Standard Standard Standard	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Standard Standard Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 00 Integrata LP 1-0 00 and HR equipment Integrata LP 1-1 00 and HR equipment Integrata MP 1-0 00 Integrata MP 1-1 00 and HR equipment Integrata MP 1-1 00 and HR equipment Integrata MP 1-1 00 and HR equipment Base-P LP 1-0 00 Base-P LP 1-0 00 Base-P LP 1-0 00 Base-P LP 1-1 00 ond HR equipment Base-P LP 1-1 00 ond HR equipment	[mm] [mm] [kg] [kg] [kg] [mm] [mm] [mm] [mm]	4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large Large Large Large Large Large Large Large Standard Standard	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large Large Large Large Large Large Large Large Standard Standard	5500 1535 2350 2410 1700 1710 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard Standard Contact EK Standard Contact EK Standard Standard Standard Standard	5500 1535 2350 2410 1920 1930 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard Standard Standard Standard Standard	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large Large Large Standard Large Large Standard Large Large Standard Standard Standard	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Large Standard Large Large Standard Large Large Standard Standard Standard Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 00 Integrata LP 1-0 00 and HR equipment Integrata LP 1-1 00 and HR equipment Integrata MP 1-0 00 Integrata MP 1-0 00 and HR equipment Integrata MP 1-1 00 and HR equipment Base-P LP 1-0 00 Base-P LP 1-0 00 Base-P LP 1-1 00 and HR equipment Base-P LP 1-1 00 Base-P LP 1-1 00 and HR equipment	[mm] [mm] [kg] [kg] [kg] [mm] [mm] [mm] [mm] [4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large Large Large Large Large Large Large Standard Standard Standard	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large Large Large Large Large Large Large Standard Standard Standard	5500 1535 2350 2410 1700 1710 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard Standard Standard Standard Standard Standard	5500 1535 2350 2410 1920 1930 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard Standard Standard Standard Standard Standard	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large Large Large Large Large Standard Large Large Standard Standard Standard Standard Standard	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Large Large Large Large Large Standard Large Large Standard Standard Standard Standard Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Integrata MP 1-1 OO and HR equipment Integrata MP 1-1 OO and HR equipment Base-P LP 1-0 OO Base-P LP 1-0 OO Base-P LP 1-1 OO and HR equipment Base-P LP 1-1 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large Large Large Large Large Large Large Standard Standard Standard Standard Standard	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large Large Large Large Large Large Large Standard Standard Standard Standard Standard	5500 1535 2350 2410 1700 1710 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard Standard Standard Standard Standard Standard Standard	5500 1535 2350 2410 1920 1930 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard Standard Standard Standard Standard Standard Standard Standard	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large Large Standard Large Large Standard Standard Standard Standard Standard Standard Standard	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Large Standard Large Large Standard Standard Standard Standard Standard Standard Standard Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Integrata MP 1-1 OO and HR equipment Integrata MP 1-1 OO and HR equipment Base-P LP 1-0 OO Base-P LP 1-1 OO and HR equipment Base-P LP 1-1 OO Base-P LP 1-1 OO and HR equipment Base-P LP 1-1 OO Base-P LP 1-1 OO and HR equipment Base-P LP 1-1 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [4200 1185 2320 2380 1630 1640 5000 1185 2320 2380 Large Large Large Large Large Large Large Standard Standard Standard Standard Standard Standard	4200 1185 2320 2380 1670 1680 5000 1185 2320 2380 Large Large Large Large Large Large Standard Standard Standard Standard Standard Standard	5500 1535 2350 2410 1700 1710 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard	5500 1535 2350 2410 1920 1930 Contact EK Standard Contact EK Standard Contact EK Standard Contact EK Standard	3100 2345 2465 2525 1925 1940 4450 2345 2465 2525 Standard Large Large Large Standard Large Large Standard Standard Standard Standard Standard Standard Standard Standard	3100 2345 2465 2525 1940 1955 4450 2345 2465 2525 Standard Large Large Large Standard Large Large Standard Standard Standard Standard Standard Standard Standard Standard Standard
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R290 | GWP=3













10-1-1 PE ← → 116-2-2 PE

Air to water chillers for medium temperature applications High efficiency



Solution

B - Base

I - Integrata

Version

ST - Standard

LN - Low Noise

SL - Super Low Noise

Equipment

AS - Standard equipment

DS - Desuperheater

HR - Total modulating Heat Recovery

Cooling capacity 10 - 116 kW

» For the complete list of accessories please see pages 54-55-56-57

Safety system	dedicated power supply and Modbus output signal, has an alarm three	fled gas detector and an EC centrifugal extraction fan. The sensor, with external shold set at 10% of the lower flammable limit (LFL). The Propane alarm causes the is switched on, which allows the ventilation of the compressor compartment and the lity limit.
Structure	sheet, oven-painted with polyurethane powders. Frame made of anot	to atmospheric agents and corrosion. Basement and panels made of galvanized steel lized aluminium profiles, with aluminium alloy corner joints that guarantee excellent tels are internally lined with sound-absorbing material. SL (Super Low Noise) version:
Compressor	panel); oil charge; oil level sight glass and oil crankcase heater; anti-	ic control module and protection of the electric motor (installed inside the electrical vibration rubber supports; anti-vibration pipes (suction and discharge); suction and H capacity control heads to guarantee an adaptation of the cooling capacity in case of Iformation.
EC Fan	Premium-Axial-Fans with bionic shaped blades and high-efficient EC thermal class THCL 155. The motor efficiency class complies with IE4.	(Electronically Commutated) external rotor motors, sealed in protection IP54 and
Air heat exchanger	Finned coil made with copper pipes arranged on staggered rows, med area.	hanically expanded inside a pack of aluminium fins offering a high exchange surface
Water heat exchanger	, ,,	plete with water differential pressure switch, air vent valve and thermally insulated er design provides high thermal exchange and high performance results, furthermore
Electrical board	installed components are identified by nameplates to better identify the 204-1/EN60204-1 and it is complete with the following main compone for compressor and fans - Cabinet minimum protection rating IP54.	t the factory. Wiring numeration and optimized layout facilitate troubleshooting. The period application and the type of action. Switchboard is made according to standards IEC ents: - Main isolator switch - Door interlock safety device - Contactor and protection and prositioned on one side of the unit. The propane sensor is equipped with separate pensure the monitoring of any leakage.
Control	The microprocessor controls the unit capacity by timing the compresso	rs and checks the operating alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, moisture-liquid sight glass, electronic expansion valve, hig safety high pressure valve (when required by EN 378-2016 standard).	th & low pressure gauge, high and low pressure transducers, high pressure switch,
Water circuit (Integrata)		valve, water discharge valve, centrifugal pump(s) suitable for glycol solutions up to ol equipment is fitted inside the electrical board of the unit and the microprocessor
ACCESSORI PRINCIPALI	 Anti-vibration rubber/spring mounts Air heat exchanger protection panel or filter Air heat exchanger with various coatings treatment Low pressure switch Low pressure safety valve Double safety valve 	 Overpressure valve / automatic by-pass Double water pump (stand-by) - Standard/ High pressure Open / Closed expansion vessel with automatic filling unit RSH Capacity Control head / Inverter driven compressor Advanced control c.pCo

CRIO HE B300 range		10 1 1 PF	141105	47.4.4.DE	20.1.1.DE	24.4.4.05	20 1 1 DE
CRIO HE R290 range		10-1-1 PE	14-1-1 PE	17-1-1 PE	20-1-1 PE	24-1-1 PE	30-1-1 PE
COOLING - A BP/ST/AS/EC/*S version Cooling capacity (1)	[kW]	9,6	12.0	17,3	20,4	24,1	30,2
Total power input (1)	[kW]	4,2	13,8 5,9	7,6	9,9	10,4	12,4
EER - Energy Efficiency Ratio	[KVV]	2,30	2,36	2,28	2,06	2,31	2,44
Saved CO2 equivalent Ton (*)	[CO ₂ Ton]	8,3	10,7	11,5	15,5	15,5	20,4
"Ecodesign" compliance for process application (SEPR)	-	3,59	3,41	3,60	3,49	3,61	3,91
Essential Compilation for process application (CETT)	I	0,00	3,12	0,00	5,15	0,02	0,51
REFRIGERANT CIRCUIT							
Refrigerant	-			R	290		
GWP	-				3		
Charge of refrigerant - Base unit	[kg]	2,2	2,8	3,0	4,0	4,0	5,3
Independent gas circuits	[n°]	1	1	1	1	1	1
Compressors type	-		1		etic pistons		1
Compressors quantity	[n°]	1	1	1	1	1	1
Steps of capacity for each compressor (std)	-				; 2 (50%)		
Condensing coils type	-				ı/Al		
Fans type	-	_			al EC		_
Fans quantity	[n°]	1	1	1	2	2	2
Fans power input (1) (total)	[kW]	0,2	0,3	0,7	1,4	19.600	0,9
Total air flow	[m ³ /h]	6.900	7.400	10.900	21.500 tronic	18.600	21.200
Expansion valve type	- [ma ³ /la]	2.2	2.2	т		го	7.3
Evaporator water flow (1) Evaporator pressure drop (1)	[m³/h] [kPa]	2,3 24	3,3 27	4,2 29	4,9 29	5,8 29	7,3 35
Evaporator pressure grop	[KPa]	24		29	29	79	33
DESUPERHEATER (option) - A BP/ST/DS/EC/*S							
Heating capacity (2)	[kW]	1,8	2,35	3,13	3,65	3,84	4,54
Water flow	[m³/h]	0,31	0,40	0,54	0,63	0,66	0,78
Pressure drop (water side)	[kPa]	5,1	5,2	5,2	5,2	5,2	5,2
	[2]	-7-	-7-		-,-	-,-	-,-
HEAT RECOVERY (option) - A BP/ST/HR/EC/*S							
Heating capacity (2)	[kW]	13	18,2	23,8	28,6	32,6	40,3
Water flow	[m ³ /h]	2,2	3,1	4,1	4,9	5,6	6,9
Pressure drop (water side)	[kPa]	13,5	24,3	25,1	25,1	24,8	30
Electrical data							
Power supply	-				/3/50		
Emergency power supply	-		1		/1/50		ı
Maximum power input without pump	[kW]	9,3	13,1	14,1	17,7	20,2	22,5
Locked rotor current – LRA without pump	[A]	65,0	89,2	104,2	120,9	140,0	206,5
Maximum absorbed current - FLA without pump	[A]	15,7	22,5	23,5	32,5	39,7	40,7
LIVERONIC KIT (antion)							
HYDRONIC KIT (option)	T ful		CO.		100	100	200
Buffer tank capacity	[L]	60	60	60	160	160	290
Pump type				Cent	rifugal		
Standard pump - 150 kPa useful head							
Motor Efficiency			<u> </u>	I -			IE3
Pump motor nominal power	[kW]	0,37	0,37	0,55	0,55	0,55	0,9
Pump motor nominal current	[A]	1,4	1,4	1,9	1,9	1,9	2,5
- P - 2-2-1	1 64	_, -, ·		-,-	-,-	-,-	_,
Standard pump - 250 kPa useful head							
Motor Efficiency	-	-	IE3	IE3	IE3	IE3	IE3
Pump motor nominal power	[kW]	0,55	0,75	0,9	0,9	1,5	1,5
Pump motor nominal current	[A]	2	1,9	2,5	2,5	4,1	4,1
Water connections							
Dimension (nominal external diameter)	[inch/DN]	1/2" (DN15)	1" (DN 25)	1" (DN 25)	1" (DN 25)	1" (DN 25)	1" 1/2 (DN 40)
40							
Noise levels (3)		ı	1	1			ı
Total sound power (ST version)	[db(A)]	73	76	79	82	82	81
Total sound pressure (ST version) - at 1 m distance	[db(A)]	56	59	62	65	65	63
Total sound pressure (ST version) - at 10 m distance	[db(A)]	43	45	48	51	51	50
Total sound power (LN version)	[db(A)]	70	73	76	79	79	78
Total sound pressure (LN version) - at 1 m distance	[db(A)]	53	56	59	62	62	60
Total sound pressure (LN version) - at 10 m distance	[db(A)]	40	42	45	48	48	47
Total sound power (SL version)	[db(A)]	68	71	74	77	77	76
Total sound pressure (SL version) - at 1 m distance	[db(A)]	51	54	57	60	60	58
Total sound pressure (SL version) - at 10 m distance	[db(A)]	38	40	43	46	46	45

- Reference conditions:
 (1) Condenser air intake temperature = 30 °C Evaporator water temperature IN/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to models
- (2) Plate heat exchanger water tempo. In/OUT = 40/45 °C Condenser air intake temperature IN/OUT = 40/45 °C Condensing coil: Cu/Al or microchannel (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

 (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

Technical data

CRIO HE R290 range		35-1-1 PE	41-1-1 PE	48-1-1 PE	56-1-1 PE	41-2-2 PE	48-2-2 PE
COOLING - A BP/ST/AS/EC/*S version							
Cooling capacity (1)	[kW]	34,8	41,3	48,4	56,4	41,1	48
Total power input ⁽¹⁾	[kW]	14,2	19,8	22,7	25	17,9	19,5
EER - Energy Efficiency Ratio	-	2,46	2,08	2,13	2,25	2,30	2,46
Saved CO2 equivalent Ton (*)	[CO ₂ Ton]	23,5	24,5	29,4	39	32,9	39,4
"Ecodesign" compliance for process application (SEPR)		3,81	3,40	3,50	3,61	3,69	3,74
REFRIGERANT CIRCUIT							
Refrigerant	-			R2	90		
GWP	-			3	3		
Charge of refrigerant - Base unit	[kg]	6,1	6,3	7,6	10,1	8,5	10,2
Independent gas circuits	[n°]	1	1	1	1	2	2
Compressors type	- []	-	_	Semi-herm			
Compressors quantity	[n°]	1	1	1	1	2	2
Steps of capacity for each compressor (std)	- []	1 (75%); 2 (50%)		83%); 2 (67%); 3 (5		1 (75%); 2 (50%)	
Condensing coils type	_	1 (7570), 2 (5070)	1 (Cu		1 (7370), 2 (3070)	1 (73/0), 2 (30/0
Fans type	<u> </u>			Axia	·		
	[n°]	2	2	2	3	3	3
Fans quantity							
Fans power input (1) (total)	[kW]	1,6	4,2	3,8	2,4	1,3	1,1
Total air flow	[m³/h]	26.200	40.150	35.500	36.000	30.900	27.150
Expansion valve type	- 3	0.1	100	Elect		40.0	41.5
Evaporator water flow (1)	[m³/h]	8,4	10,0	11,7	13,7	10,0	11,6
Evaporator pressure drop (1)	[kPa]	18	20	26	29	19	25
DESUPERHEATER (option) - A BP/ST/DS/EC/*S							
Heating capacity (2)	[kW]	5,02	6,6	8,1	10,1	7,27	7,61
Water flow	[m³/h]	0,86	1,14	1,39	1,74	1,25	1,31
Pressure drop (water side)	[kPa]	5,3	5,3	5,4	5,6	5,2	5,2
ressure area (water state)	[0]	3,3	3,3	3, .	3,0	3,2	3,2
HEAT RECOVERY (option) - A BP/ST/HR/EC/*S							
Heating capacity (2)	[kW]	47,2	56,8	67,3	79,3	57,3	64,7
Water flow	[m ³ /h]	8,1	9,8	11,6	13,6	9,9	11,1
Pressure drop (water side)	[kPa]	34,1	42,1	27,6	28,7	19,8	24,4
Electrical data							
				400/	2/50		
Power supply	-				1/50		
Emergency power supply	fland.	27.5	27.0		-	24.2	20.2
Maximum power input without pump	[kW]	27,5	37,8	42,6	47,7	34,3	39,3
Locked rotor current – LRA without pump	[A]	228,2	248,5	282,3	327,1	151,5	177,8
Maximum absorbed current - FLA without pump	[A]	47,8	63,2	70,3	80,3	63,1	77,5
HYDRONIC KIT (option)							
Buffer tank capacity	[L]	290	290	290	290	290	290
Pump type	-			Centr	ifugal		
Standard pump - 150 kPa useful head							
Motor Efficiency	-			IE	3		
Pump motor nominal power	[kW]	0,9	0,9	1,1	1,1	1,1	1,1
Pump motor nominal current	[A]	2,5	2,5	3,3	3,3	3,3	3,3
Chandral number 250 kDa wasful beed							
Standard pump - 250 kPa useful head					:2		
Motor Efficiency	-	4.5	1 4-	IE .		1 4-	
Pump motor nominal power	[kW]	1,5	1,5	2,2	2,2	1,5	2,2
Pump motor nominal current	[A]	4,1	4,1	4,7	4,7	4,1	4,7
Water connections							
Dimension (nominal external diameter)	[inch/DN]	1" 1/2 (DN 40)	1" 1/2 (DN 40)	1" 1/2 (DN 40)	2" (DN 50)	1" 1/2 (DN 40)	1" 1/2 (DN 40)
Noise levels (3)							
	[46/4/]	0.4	96	07	96	02	0.4
Total sound power (ST version)	[db(A)]	84	86	87	86	83	84
Total sound pressure (ST version) - at 1 m distance	[db(A)]	66	68	69	68	65	66
Total sound pressure (ST version) - at 10 m distance	[db(A)]	53	55	56	54	51	52
Total sound power (LN version)	[db(A)]	81	83	84	83	80	81
Total sound pressure (LN version) - at 1 m distance	[db(A)]	63	65	66	65	62	63
Total sound pressure (LN version) - at 10 m distance	[db(A)]	50	52	53	51	48	49
Total sound power (SL version)	[db(A)]	79	81	82	81	78	79
Total sound pressure (SL version) - at 1 m distance	[db(A)]	61	63	64	63	60	61

Total sound pressure (SL version) - at 10 m distance

Reference conditions:
(1) Condenser air intake temperature = 30 °C - Evaporator water temperature IN/OUT = -4/-8 °C - Fluid: ethilene glycol - Condensing coil: Cu/Al or microchannel according to models

[db(A)]

(2) Plate heat exchanger water temp. IN/OUT = 40/45 °C - Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = -4/-8 °C - Fluid: ethilene glycol - Condensing coil: Cu/Al or microchannel (1) - (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).

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- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

CRIO HE R290 range		60-2-2 PE	70-2-2 PE	83-2-2 PE	97-2-2 PE	116-2-2 PE
COOLING - A BP/ST/AS/EC/*S version						
Cooling capacity (1)	[kW]	60,1	70,4	83,2	97,2	116
Total power input (1)	[kW]	24,9	31,4	35,3	43,5	49,5
EER - Energy Efficiency Ratio	-	2,42	2,24	2,36	2,24	2,34
Saved CO2 equivalent Ton (*)	[CO ₂ Ton]	41,6	45,2	65,5	67,5	87,6
"Ecodesign" compliance for process application (SEPR)	-	3,94	3,65	3,58	3,56	3,70
REFRIGERANT CIRCUIT						
Refrigerant	-			R290		
GWP	-			3		
Charge of refrigerant - Base unit	[kg]	10,8	11,7	17,0	17,5	22,8
Independent gas circuits	[n°]	2	2	2	2	2
Compressors type	-			Semi-hermetic piston	S	
Compressors quantity	[n°]	2	2	2	2	2
Steps of capacity for each compressor (std)	-	1 (75%); 2 (50%)	1 (75%); 2 (50%)	1	. (83%); 2 (67%); 3 (50%	5)
Condensing coils type	-			Cu/Al		
Fans type	-			Axial EC		
Fans quantity	[n°]	3	3	3	3	4
Fans power input (1) (total)	[kW]	2,5	5,6	3,3	5,8	3,2
Total air flow	[m ³ /h]	36.800	51.500	55.550	68.400	63.800
Expansion valve type	-			Electronic	1	
Evaporator water flow (1)	[m³/h]	14,6	17,1	20,2	23,6	28,1
Evaporator pressure drop (1)	[kPa]	26	26	29	32	37
DESUPERHEATER (option) - A BP/ST/DS/EC/*S						
Heating capacity (2)	[kW]	8,99	10,1	13,3	16,2	20,5
Water flow	[m ³ /h]	1,55	1,74	2,29	2,79	3,53
Pressure drop (water side)	[kPa]	5,2	5,3	5,3	5,4	5,6
HEAT RECOVERY (option) - A BP/ST/HR/EC/*S						
Heating capacity (2)	[kW]	81	94,5	114	136	160
Water flow	[m³/h]	13,9	16,3	19,6	23,4	27,5
Pressure drop (water side)	[kPa]	36,1	30,5	29,2	27,2	35,7
				- /	,	,
Electrical data						
Power supply	=			400/3/50		
Emergency power supply	-			230/1/50		
Maximum power input without pump	[kW]	43,9	59,4	72,6	82,2	100,5
Locked rotor current – LRA without pump	[A]	245,3	282,4	307,1	348,0	414,6
Maximum absorbed current - FLA without pump	[A]	79,5	102,0	121,8	136,0	167,8
HYDRONIC KIT (option)						
Buffer tank capacity	[L]	290	200	500	500	
. ,						470
IPUMD type	- 1	290	290		500	470
Pump type		290	290	Centrifugal	500	470
Pump type Standard pump - 150 kPa useful head		290	290	Centrifugal	500	470
Standard pump - 150 kPa useful head Motor Efficiency				Centrifugal		
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power	- [kW]	1,1	2,2	Centrifugal IE3 2,2	2,2	2,2
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power				Centrifugal		
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current	- [kW]	1,1	2,2	Centrifugal IE3 2,2	2,2	2,2
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head	- [kW]	1,1	2,2	Centrifugal IE3 2,2 4,7	2,2	2,2
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head	- [kW]	1,1 3,3	2,2	Centrifugal IE3 2,2	2,2	2,2
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency	- [kW] [A]	1,1	2,2	Centrifugal IE3 2,2 4,7	2,2 4,7	2,2 4,7
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current	- [kW] [A] - [kW]	1,1 3,3	2,2 4,7	Centrifugal IE3 2,2 4,7 IE3 3	2,2 4,7	2,2 4,7
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections	- [kW] [A] - [kW] [A]	1,1 3,3 2,2 4,7	2,2 4,7 3 6,4	Centrifugal IE3 2,2 4,7 IE3 3 6,4	2,2 4,7 4 8,7	2,2 4,7 4 8,7
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections	- [kW] [A] - [kW]	1,1 3,3	2,2 4,7	Centrifugal IE3 2,2 4,7 IE3 3	2,2 4,7	2,2 4,7
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3)	- [kW] [A] - [kW] [A]	1,1 3,3 2,2 4,7 2" (DN 50)	2,2 4,7 3 6,4 2" (DN 50)	Centrifugal	2,2 4,7 4 8,7 2"1/2 (DN 65)	2,2 4,7 4 8,7 2"1/2 (DN 65)
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter)	- [kW] [A] - [kW] [A]	1,1 3,3 2,2 4,7 2" (DN 50)	2,2 4,7 3 6,4	Centrifugal IE3 2,2 4,7 IE3 3 6,4	2,2 4,7 4 8,7 2"1/2 (DN 65)	2,2 4,7 4 8,7 2"1/2 (DN 65)
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance	- [kW] [A] - [kW] [A] [inch/DN] [db(A)] [db(A)]	1,1 3,3 2,2 4,7 2" (DN 50)	2,2 4,7 3 6,4 2" (DN 50)	Centrifugal IE3 2,2 4,7 IE3 3 6,4 2" (DN 50)	2,2 4,7 4 8,7 2"1/2 (DN 65)	2,2 4,7 4 8,7 2"1/2 (DN 65)
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance	- [kW] [A] [M] [db(A)] [db(A)] [db(A)]	1,1 3,3 2,2 4,7 2" (DN 50) 85 67 53	2,2 4,7 3 6,4 2" (DN 50) 88 70 56	Centrifugal IE3 2,2 4,7 IE3 3 6,4 2" (DN 50)	2,2 4,7 4 8,7 2"1/2 (DN 65)	2,2 4,7 4 8,7 2"1/2 (DN 65) 89 70 57
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance Total sound power (LN version)	- [kW] [A] - [kW] [A] - [kW] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)]	1,1 3,3 2,2 4,7 2" (DN 50) 85 67 53 82	2,2 4,7 3 6,4 2" (DN 50) 88 70 56 85	Centrifugal IE3 2,2 4,7 IE3 3 6,4 2" (DN 50) 88 69 56 85	2,2 4,7 4 8,7 2"1/2 (DN 65) 90 71 58 87	2,2 4,7 4 8,7 2"1/2 (DN 65) 89 70 57 86
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance Total sound power (LN version) Total sound pressure (LN version) - at 1 m distance	[kW] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)]	1,1 3,3 2,2 4,7 2" (DN 50) 85 67 53 82 64	2,2 4,7 3 6,4 2" (DN 50) 88 70 56 85 67	Centrifugal IE3 2,2 4,7 IE3 3 6,4 2" (DN 50) 88 69 56 85 66	2,2 4,7 4 8,7 2"1/2 (DN 65) 90 71 58 87 68	2,2 4,7 4 8,7 2"1/2 (DN 65) 89 70 57 86 67
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance Total sound pressure (LN version) Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance	[kW] [A] [ab(A)] [db(A)] [db(A)] [db(A)] [db(A)]	1,1 3,3 2,2 4,7 2" (DN 50) 85 67 53 82 64 50	2,2 4,7 3 6,4 2" (DN 50) 88 70 56 85 67 53	Centrifugal IE3 2,2 4,7 IE3 3 6,4 2" (DN 50) 88 69 56 85 66 53	2,2 4,7 4 8,7 2"1/2 (DN 65) 90 71 58 87 68 55	2,2 4,7 4 8,7 2"1/2 (DN 65) 89 70 57 86 67 54
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance Total sound pressure (LN version) Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 10 m distance Total sound pressure (LN version) - at 10 m distance Total sound power (SL version)	[kW] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)]	1,1 3,3 2,2 4,7 2" (DN 50) 85 67 53 82 64 50 80	2,2 4,7 3 6,4 2" (DN 50) 88 70 56 85 67 53 83	Centrifugal IE3 2,2 4,7 IE3 3 6,4 2" (DN 50) 88 69 56 85 66 53 83	2,2 4,7 4 8,7 2"1/2 (DN 65) 90 71 58 87 68 55 85	2,2 4,7 4 8,7 2"1/2 (DN 65) 89 70 57 86 67 54
Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance Total sound power (LN version) Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance	[kW] [A] [ab(A)] [db(A)] [db(A)] [db(A)] [db(A)]	1,1 3,3 2,2 4,7 2" (DN 50) 85 67 53 82 64 50	2,2 4,7 3 6,4 2" (DN 50) 88 70 56 85 67 53	Centrifugal IE3 2,2 4,7 IE3 3 6,4 2" (DN 50) 88 69 56 85 66 53	2,2 4,7 4 8,7 2"1/2 (DN 65) 90 71 58 87 68 55	2,2 4,7 4 8,7 2"1/2 (DN 65) 89 70 57 86 67 54

- Reference conditions:
 (1) Condenser air intake temperature = 30 °C Evaporator water temperature IN/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to models
- (2) Plate heat exchanger water tempo. In/OUT = 40/45 °C Condenser air intake temperature IN/OUT = 40/45 °C Condensing coil: Cu/Al or microchannel (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

 (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant















130-2-2 PV ←→ 185-2-2 PV

Air to water chillers for medium temperature applications

High efficiency



• Low pressure safety valve • Double safety valve

Solution

- B Base
- I Integrata

Version

- ST Standard
- LN Low Noise
- SL Super Low Noise

Equipment

- AS Standard equipment
- DS Desuperheater

• Advanced control c.pCo

» For the complete list of accessories please see pages 54-55-56-57

HR - Total modulating Heat Recovery

	<mark>- ₩</mark>	Cooling capacity 130 - 185 kW
Safety system	dedicated power supply and Modbus output signal, has an alarm th	tified gas detector and an EC centrifugal extraction fan. The sensor, with externa reshold set at 10% of the lower flammable limit (LFL). The Propane alarm causes the an is switched on, which allows the ventilation of the compressor compartment and the bility limit.
Structure	sheet, oven-painted with polyurethane powders. Frame made of an	e to atmospheric agents and corrosion. Basement and panels made of galvanized stee odized aluminium profiles, with aluminium alloy corner joints that guarantee excellen anels are internally lined with sound-absorbing material. SL (Super Low Noise) version
Compressor	panel); oil charge; oil level sight glass and oil crankcase heater; and	onic control module and protection of the electric motor (installed inside the electrica ci-vibration rubber supports; anti-vibration pipes (suction and discharge); suction and SSH capacity control heads to guarantee an adaptation of the cooling capacity in case of information.
EC Fan	Premium-Axial-Fans with bionic shaped blades and high-efficient E thermal class THCL 155. The motor efficiency class complies with IE4.	C (Electronically Commutated) external rotor motors, sealed in protection IP54 and
Air heat exchanger	Microchannel technology increases the primary to secondary surfact through our condensers.	ce area ratio and reduces the tube's air shadow to provide maximum heat exchange
Water heat exchanger		mplete with water differential pressure switch, air vent valve and thermally insulated ager design provides high thermal exchange and high performance results, furthermore e.
Electrical board	installed components are identified by nameplates to better identify 204-1/EN60204-1 and it is complete with the following main composor compressor and fans - Cabinet minimum protection rating IP54.	at the factory. Wiring numeration and optimized layout facilitate troubleshooting. The the application and the type of action. Switchboard is made according to standards IEC nents: - Main isolator switch - Door interlock safety device - Contactor and protection and positioned on one side of the unit. The propane sensor is equipped with separate to ensure the monitoring of any leakage.
Control	The microprocessor controls the unit capacity by timing the compres	sors and checks the operating alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, moisture-liquid sight glass, electronic expansion valve, l safety high pressure valve (when required by EN 378-2016 standard).	nigh & low pressure gauge, high and low pressure transducers, high pressure switch,
Water circuit (Integrata)	- · · · · · · · · · · · · · · · · · · ·	ty valve, water discharge valve, centrifugal pump(s) suitable for glycol solutions up to trol equipment is fitted inside the electrical board of the unit and the microprocessor
ACCESSORI PRINCIPALI	 Anti-vibration rubber/spring mounts Air heat exchanger protection panel or filter Air heat exchanger with various coatings treatment Low pressure switch 	 Overpressure valve / automatic by-pass Double water pump (stand-by) - Standard/ High pressure Open / Closed expansion vessel with automatic filling unit RSH Capacity Control head / Inverter driven compressor

CRIO HE R290 range		130-2-2 PV	142-2-2 PV	161-2-2 PV	175-2-2 PV	185-2-2 PV
COOLING - A BP/ST/AS/EC/*S version						
Cooling capacity (1)	[kW]	130	142	161	175	185
Total power input ⁽¹⁾	[kW]	61,8	67,7	73,3	80,5	85
EER - Energy Efficiency Ratio		2,10	2,10	2,20	2,17	2,18
Saved CO2 equivalent Ton (*)	[CO ₂ Ton]	55,8	61,1	77	77,9	81,4
"Ecodesign" compliance for process application (SEPR)	-	2,99	3,02	3,08	3,05	3,07
DEFINICED ANT CIDCUIT						
REFRIGERANT CIRCUIT Refrigerant	<u> </u>			R290		
GWP				3		
Charge of refrigerant - Base unit	[kg]	14,5	15,9	20,0	20,2	21,2
Independent gas circuits	[n°]	2	2	2	2	2
Compressors type	- []			Semi-hermetic pistons		
Compressors quantity	[n°]	2	2	2	2	2
Steps of capacity for each compressor (std)	-		2	(75%); 3 (62,5%); 4 (50		
Condensing coils type	-			Microchannel	·	
Fans type	-			Axial EC		
Fans quantity	[n°]	4	4	6	6	6
Fans power input ⁽¹⁾ (total)	[kW]	4,3	5,9	3,3	4,3	5,3
Total air flow	[m³/h]	72.600	82.700	83.400	93.000	101.100
Expansion valve type			•	Electronic		
Evaporator water flow (1)	[m ³ /h]	31,5	34,4	39,0	42,4	44,8
Evaporator pressure drop (1)	[kPa]	41	35	33	38	34
F			·	·		
DESUPERHEATER (option) - A BP/ST/DS/EC/*S						
Heating capacity ⁽²⁾	[kW]	26,8	28,3	33	35,5	37,4
Water flow	[m ³ /h]	4,61	4,87	5,68	6,11	6,43
Pressure drop (water side)	[kPa]	5,8	6,0	14,7	15,0	15,1
HEAT RECOVERY (option) - A BP/ST/HR/EC/*S				•		
Heating capacity ⁽²⁾	[kW]	185	204	228	247	262
Water flow	[m ³ /h]	31,8	35,1	39,2	42,5	45,1
Pressure drop (water side)	[kPa]	39,5	47,1	50,4	52,3	38,4
Electrical data						
Power supply	- 1			400/3/50		
Emergency power supply	-			230/1/50		
Maximum power input without pump	[kW]	95,1	114,3	119,5	125,1	133,3
Locked rotor current – LRA without pump	[A]	390,3	472,9	568,3	670,1	713,7
Maximum absorbed current - FLA without pump	[A]	166,0	193,2	198,7	216,3	231,5
			•			
HYDRONIC KIT (option)						
HYDRONIC KIT (option) Buffer tank capacity	[L]	290	290	290	290	290
	[L]	290	290	290 Centrifugal	290	290
Buffer tank capacity Pump type		290	290		290	290
Buffer tank capacity Pump type Standard pump - 150 kPa useful head		290	290	Centrifugal	290	290
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency				Centrifugal		
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power	- [kW]	3	3	Centrifugal IE3 3	3	3
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency				Centrifugal		
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current	- [kW]	3	3	Centrifugal IE3 3	3	3
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head	- [kW]	3	3	Centrifugal IE3 3 6,4	3	3
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency	- [kW] [A]	3 6,4	3 6,4	Centrifugal IE3 3 6,4	3 6,4	3 6,4
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power	- [kW] [kW]	3 6,4	3 6,4	Centrifugal IE3 3 6,4 IE3 IE3 5,5	3 6,4 5,5	3 6,4 5,5
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency	- [kW] [A]	3 6,4	3 6,4	Centrifugal IE3 3 6,4	3 6,4	3 6,4
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current	- [kW] [kW]	3 6,4	3 6,4	Centrifugal IE3 3 6,4 IE3 IE3 5,5	3 6,4 5,5	3 6,4 5,5
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power	- [kW] [kW]	3 6,4	3 6,4	Centrifugal IE3 3 6,4 IE3 IE3 5,5	3 6,4 5,5	3 6,4 5,5
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter)	- [kW] [A] - [kW] [A]	3 6,4 4 8,7	3 6,4 4 8,7	Centrifugal	3 6,4 5,5 10,6	3 6,4 5,5 10,6
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter)	- [kW] [A] [inch/DN]	3 6,4 4 8,7 3" (DN 80)	3 6,4 4 8,7 3" (DN 80)	Centrifugal	3 6,4 5,5 10,6 3" (DN 80)	3 6,4 5,5 10,6 3" (DN 80)
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version)	- [kW] [A] [inch/DN] [db(A)]	3 6,4 4 8,7 3" (DN 80)	3 6,4 4 8,7 3" (DN 80)	IE3 3 6,4	3 6,4 5,5 10,6 3" (DN 80)	3 6,4 5,5 10,6 3" (DN 80)
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels [3] Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance	- [kW] [A] [hch/DN] [db(A)] [db(A)]	3 6,4 4 8,7 3" (DN 80)	3 6,4 4 8,7 3" (DN 80)	IE3 3 6,4	3 6,4 5,5 10,6 3" (DN 80)	3 6,4 5,5 10,6 3" (DN 80)
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance	- [kW] [A] [hm.h/DN] [db(A)] [db(A)] [db(A)]	3 6,4 4 8,7 3" (DN 80) 90 71 58	3 6,4 4 8,7 3" (DN 80) 94 75 62	Centrifugal	3 6,4 5,5 10,6 3" (DN 80)	3 6,4 5,5 10,6 3" (DN 80)
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound power (ST version) - at 10 m distance Total sound power (LN version)	- [kW] [A] [db(A)] [db(A)] [db(A)]	3 6,4 4 8,7 3" (DN 80) 90 71 58 87	3 6,4 4 8,7 3" (DN 80) 94 75 62 91	Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80) 95 75 63 92	3 6,4 5,5 10,6 3" (DN 80) 95 75 63 92	3 6,4 5,5 10,6 3" (DN 80) 97 77 65 94
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound power (LN version) Total sound power (LN version) - at 1 m distance	[kW] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)]	3 6,4 4 8,7 3" (DN 80) 90 71 58 87 68	3 6,4 4 8,7 3" (DN 80) 94 75 62 91 72	Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80) 95 75 63 92 72	3 6,4 5,5 10,6 3" (DN 80) 95 75 63 92 72	3 6,4 5,5 10,6 3" (DN 80) 97 77 65 94 74
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) Total sound pressure (LN version) Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance	[kW] [A] [kW] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)]	3 6,4 4 8,7 3" (DN 80) 90 71 58 87 68 55	3 6,4 4 8,7 3" (DN 80) 94 75 62 91 72 59	Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80) 95 75 63 92 72 60	3 6,4 5,5 10,6 3" (DN 80) 95 75 63 92 72 60	3 6,4 5,5 10,6 3" (DN 80) 97 77 65 94 74 62
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 10 m distance Total sound pressure (LN version) - at 10 m distance	[kW] [A] [a] [b] [b] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)]	3 6,4 4 8,7 3" (DN 80) 90 71 58 87 68 55 85	3 6,4 4 8,7 3" (DN 80) 94 75 62 91 72 59 89	Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80) 95 75 63 92 72 60 90	3 6,4 5,5 10,6 3" (DN 80) 95 75 63 92 72 60 90	3 6,4 5,5 10,6 3" (DN 80) 97 77 65 94 74 62 92
Buffer tank capacity Pump type Standard pump - 150 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance Total sound pressure (LN version) Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance	[kW] [A] [kW] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)]	3 6,4 4 8,7 3" (DN 80) 90 71 58 87 68 55	3 6,4 4 8,7 3" (DN 80) 94 75 62 91 72 59	Centrifugal IE3 3 6,4 IE3 5,5 10,6 3" (DN 80) 95 75 63 92 72 60	3 6,4 5,5 10,6 3" (DN 80) 95 75 63 92 72 60	3 6,4 5,5 10,6 3" (DN 80) 97 77 65 94 74 62

- Reference conditions:
 (1) Condenser air intake temperature = 30 °C Evaporator water temperature IN/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to models
- (2) Plate heat exchanger water tempo. In/OUT = 40/45 °C Condenser air intake temperature IN/OUT = 40/45 °C Condensing coil: Cu/Al or microchannel (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

 (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

Dimensions and weights

Mints Mint
Immy 1,880 1,880 1,880 1,830 2330 2330 2380 2380 2380 1,925 1,
Width
Image 17.1 1.1 1.2 1
DIMENSIONS - Large unit
DIMENSIONS - Large unit Length [mm] 2330 2330 2330 2980 2880 3920
Empht
Empht
Width
Height (SL)
Unit dimensions with hydronic kit Integrata IP 1-0 00
Integrata IP 1-0 00
Integrata IP 1-0 00
Integrata LP 1-0 OO and HR equipment
Integrata LP 1-1 00
Integrata MP 1-0 00
Integrata MP 1-0 OO and HR equipment
Integrata MP 1-1 OO
Integrata MP 1-1 OO and HR equipment
Standard
Base-P LP 1-0 OO and HR equipment
Base-P LP 1-1 OO
Base-P LP 1-1 OO and HR equipment - Standard Stan
Base-P MP 1-0 OO
Base-P MP 1-1 OO
Base-P MP 1-1 OO and HR equipment - Standard Stan
Standard
CRIO HE R290 range 35-1-1 PE 41-1-1 PE 48-1-1 PE 56-1-1 PE 41-2-2 PE 48-2-2 PE
CRIO HE R290 range 35-1-1 PE 41-1-1 PE 48-1-1 PE 56-1-1 PE 41-2-2 PE 48-2-2 PE DIMENSIONS AND WEIGHTS - Standard unit [mm] 2980 2980 3920 3920 3920 3920 Width [mm] 1025
DIMENSIONS AND WEIGHTS - Standard unit
DIMENSIONS AND WEIGHTS - Standard unit
Lenght [mm] 2980 2980 2980 3920 3920 3920 Width [mm] 1025 1025 1025 1025 1025 Height (ST - LN) [mm] 2221 2300 2300 2281 2281 2281 Height (SL) [mm] 2308 2360 2360 2368 2368 2368 Shipping weight (A BP/ST/AS/EC/** version) [kg] 740 810 850 960 940 970 Operating weight (A BP/ST/AS/EC/** version) [kg] 747 817 857 968 948 978 DIMENSIONS - Large unit Lenght [mm] 3920 3920 3920 - - - - Width [mm] 1025 1025 1025 - - - - Height (ST - LN) [mm] 2281 2360 2360 - - - -
Width [mm] 1025 <t< td=""></t<>
Height (ST - LN) [mm] 2221 2300 2300 2281 2281 2281 2281 Height (SL) [mm] 2308 2360 2360 2368 2368 2368 2368 2368 Shipping weight (A BP/ST/AS/EC/** version) [kg] 740 810 850 960 940 970 Operating weight (A BP/ST/AS/EC/** version) [kg] 747 817 857 968 948 978 DIMENSIONS - Large unit [mm] 3920 3920 3920 -
Height (SL) Emm] 2308 2360 2360 2368
Shipping weight (A BP/ST/AS/EC/** version) [kg] 740 810 850 960 940 970 Operating weight (A BP/ST/AS/EC/** version) [kg] 747 817 857 968 948 978 DIMENSIONS - Large unit Lenght [mm] 3920 3920 - - - - Width [mm] 1025 1025 - - - - Height (ST - LN) [mm] 2281 2360 2360 - - - -
DIMENSIONS - Large unit [mm] 3920 3920 - - - - Width [mm] 1025 1025 1025 - - - - Height (ST - LN) [mm] 2281 2360 2360 - - - -
Lenght [mm] 3920 3920 - - - - Width [mm] 1025 1025 1025 - - - - Height (ST - LN) [mm] 2281 2360 2360 - - - -
Lenght [mm] 3920 3920 - - - - Width [mm] 1025 1025 1025 - - - - - Height (ST - LN) [mm] 2281 2360 2360 - - - -
Width [mm] 1025 1025 - - - - Height (ST - LN) [mm] 2281 2360 2360 - - - -
Height (ST - LN) [mm] 2281 2360 - - - -
[Hill] 2500 2420 2420
Unit dimensions with hydronic kit
Integrata LP 1-0 OO - Standard Standard Standard Standard Standard Standard Integrata LP 1-0 OO and HR equipment - Standard Standard Standard Standard Standard Standard
Integrata I P 1-1 00 - Standard Standard Standard Standard Standard Standard Standard
Integrata LP 1-1 00 - Standard Standard Standard Standard Standard Standard Standard Standard Integrata LP 1-1 00 and HR equipment - Large Large Standard St
Integrata LP 1-1 OO and HR equipment - Large Large Standard Standard Standard
Integrata LP 1-1 OO and HR equipment - Large Large Standard Standard Standard Integrata MP 1-0 OO - Standard Standard Standard Standard Standard
Integrata LP 1-1 OO and HR equipment - Large Large Standard Standard Standard Integrata MP 1-0 OO - Standard Standard Standard Standard Standard Integrata MP 1-0 OO and HR equipment - Standard Standard Standard Standard Integrata MP 1-1 OO - Standard Standard Standard Standard Integrata MP 1-1 OO and HR equipment - Large Large Standard Standard Integrata MP 1-1 OO and HR equipment - Large Large Standard Standard
Integrata LP 1-1 OO and HR equipment - Large Large Standard Standard Standard Integrata MP 1-0 OO - Standard Standard Standard Standard Standard Integrata MP 1-0 OO and HR equipment - Standard Standard Standard Standard Integrata MP 1-1 OO - Standard Standard Standard Standard Integrata MP 1-1 OO and HR equipment - Large Large Standard Standard Base-P LP 1-0 OO - Standard Standard Standard Standard Standard
Integrata LP 1-1 OO and HR equipment - Large Large Large Standard Standard Standard Integrata MP 1-0 OO - Standard Standard Standard Standard Standard Integrata MP 1-0 OO and HR equipment - Standard Standard Standard Standard Standard Integrata MP 1-1 OO - Standard Standard Standard Standard Standard Integrata MP 1-1 OO and HR equipment - Large Large Standard Standard Base-P LP 1-0 OO - Standard Standard Standard Standard Standard Base-P LP 1-0 OO and HR equipment - Standard Standard Standard Standard Standard
Integrata LP 1-1 OO and HR equipment-LargeLargeLargeStandardStandardStandardIntegrata MP 1-0 OO-StandardStandardStandardStandardStandardIntegrata MP 1-0 OO and HR equipment-StandardStandardStandardStandardStandardIntegrata MP 1-1 OO-StandardStandardStandardStandardStandardIntegrata MP 1-1 OO and HR equipment-LargeLargeLargeStandardStandardBase-P LP 1-0 OO-StandardStandardStandardStandardStandardBase-P LP 1-0 OO and HR equipment-StandardStandardStandardStandardBase-P LP 1-0 OO and HR equipment-StandardStandardStandardStandardBase-P LP 1-1 OO-StandardStandardStandardStandardStandard
Integrata LP 1-1 OO and HR equipment-LargeLargeLargeStandardStandardStandardIntegrata MP 1-0 OO-StandardStandardStandardStandardStandardIntegrata MP 1-0 OO and HR equipment-StandardStandardStandardStandardStandardIntegrata MP 1-1 OO-StandardStandardStandardStandardStandardIntegrata MP 1-1 OO and HR equipment-LargeLargeStandardStandardStandardBase-P LP 1-0 OO-StandardStandardStandardStandardStandardStandardBase-P LP 1-0 OO and HR equipment-StandardStandardStandardStandardStandardStandardBase-P LP 1-1 OO-StandardStandardStandardStandardStandardStandardBase-P LP 1-1 OO and HR equipment-StandardStandardStandardStandardStandardBase-P LP 1-1 OO and HR equipment-StandardStandardStandardStandardStandard
Integrata LP 1-1 OO and HR equipment-LargeLargeStandardStandardStandardIntegrata MP 1-0 OO-StandardStandardStandardStandardStandardIntegrata MP 1-0 OO and HR equipment-StandardStandardStandardStandardStandardIntegrata MP 1-1 OO-StandardStandardStandardStandardStandardIntegrata MP 1-1 OO and HR equipment-LargeLargeStandardStandardStandardBase-P LP 1-0 OO-StandardStandardStandardStandardStandardStandardBase-P LP 1-0 OO and HR equipment-StandardStandardStandardStandardStandardStandardBase-P LP 1-1 OO-StandardStandardStandardStandardStandardStandardBase-P LP 1-1 OO and HR equipment-StandardStandardStandardStandardStandardStandardBase-P LP 1-1 OO and HR equipment-StandardStandardStandardStandardStandardStandardBase-P MP 1-0 OO-StandardStandardStandardStandardStandardStandard
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Integrata LP 1-1 OO and HR equipment

Dimensions and weights

CRIO HE R290 range		60-2-2 PE	70-2-2 PE	83-2-2 PE	97-2-2 PE	116-2-2 PE	130-2-2 PV
DIMENSIONS AND WEIGHTS - Standard unit							
Lenght	[mm]	3920	3920	4200	4200	5500	3100
Width	[mm]	1025	1025	1185	1185	1535	2345
Height (ST - LN)	[mm]	2281	2360	2320	2320	2350	2465
Height (SL)	[mm]	2368	2420	2380	2380	2410	2525
Shipping weight (A BP/ST/AS/EC/** version)	[kg]	1080	1150	1460	1510	1710	1855
Operating weight (A BP/ST/AS/EC/** version)	[kg]	1088	1158	1470	1520	1720	1870
DIMENSIONS - Large unit							
Lenght	[mm]	-	-	5000	5000	Contact EK	4450
Width	[mm]	ı	-	1185	1185	Contact EK	2345
Height (ST - LN)	[mm]	ı	-	2320	2320	Contact EK	2465
Height (SL)	[mm]	-	=	2380	2380	Contact EK	2525
Unit dimensions with hydronic kit							
Integrata LP 1-0 OO	-	Standard	Standard	Large	Large	Standard	Standard
Integrata LP 1-0 OO and HR equipment	-	Standard	Standard	Large	Large	Contact EK	Large
Integrata LP 1-1 00	-	Standard	Standard	Large	Large	Standard	Large
Integrata LP 1-1 OO and HR equipment	-	Standard	Standard	Large	Large	Contact EK	Large
Integrata MP 1-0 OO	-	Standard	Standard	Large	Large	Standard	Standard
Integrata MP 1-0 OO and HR equipment	-	Standard	Standard	Large	Large	Contact EK	Large
Integrata MP 1-1 00	-	Standard	Standard	Large	Large	Standard	Large
Integrata MP 1-1 OO and HR equipment	-	Standard	Standard	Large	Large	Contact EK	Large
Base-P LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 00	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-T	-	Standard	Standard	Standard	Standard	Standard	Standard
Base-T and HR equipment	-	Standard	Standard	Large	Large	Contact EK	Large

142-2-2 PV 161-2-2 PV 175-2-2 PV 185-2-2 PV

DIMENSIONS AND WEIGHTS - Standard unit					
Lenght	[mm]	3100	4450	4450	4450
Width	[mm]	2345	2345	2345	2345
Height (ST - LN)	[mm]	2465	2465	2465	2465
Height (SL)	[mm]	2525	2525	2525	2525
Shipping weight (A BP/ST/AS/EC/** version)	[kg]	1900	2560	2575	2590
Operating weight (A BP/ST/AS/EC/** version)	[kg]	1915	2578	2593	2608
DIMENSIONS - Large unit					
Lenght	[mm]	4450	-	-	-
Width	[mm]	2345	-	-	-
Height (ST - LN)	[mm]	2465	-	-	-
Height (SL)	[mm]	2525	-	-	-
Unit dimensions with hydronic kit					
Integrata LP 1-0 OO	-	Standard	Standard	Standard	Standard
Integrata LP 1-0 OO and HR equipment	-	Large	Standard	Standard	Standard
Integrata LP 1-1 OO	-	Large	Standard	Standard	Standard
Integrata LP 1-1 OO and HR equipment	-	Large	Standard	Standard	Standard
Integrata MP 1-0 OO	-	Standard	Standard	Standard	Standard
Integrata MP 1-0 OO and HR equipment	-	Large	Standard	Standard	Standard
Integrata MP 1-1 00	-	Large	Standard	Standard	Standard
Integrata MP 1-1 OO and HR equipment	-	Large	Standard	Standard	Standard
Base-P LP 1-0 OO	-	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard
Base-P LP 1-1 00	-	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard
Base-P MP 1-0 00	-	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard
Base-P MP 1-1 00	-	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard
Base-T	-	Standard	Standard	Standard	Standard
Pace T and HP equipment		Largo	Standard	Standard	Standard

CRIO HE R290 range



R290 | GWP=3















10-1-1 PE ← 116-2-2 PE

Air to water chillers for medium temperature applications

High efficiency plus



• Double safety valve

Solution

B - Base

I - Integrata

Version

ST - Standard

LN - Low Noise

SL - Super Low Noise

Equipment

AS - Standard equipment

DS - Desuperheater

HR - Total modulating Heat Recovery

Cooling capacity 10 - 116 kW

» For the complete list of accessories please see pages 54-55-56-57

Safety system	dedicated power supply and Modbus output signal, has an alarm three	fied gas detector and an EC centrifugal extraction fan. The sensor, with externa eshold set at 10% of the lower flammable limit (LFL). The Propane alarm causes the is switched on, which allows the ventilation of the compressor compartment and the lity limit.				
Structure	Structure specifically designed and built to guarantee total resistance to atmospheric agents and corrosion. Basement and panels made of galvanis sheet, oven-painted with polyurethane powders. Frame made of anodized aluminium profiles, with aluminium alloy corner joints that guarantee mechanical resistance and low weight. LN (Low Noise) version: the panels are internally lined with sound-absorbing material. SL (Super Low Noise) the panels are sandwich and insulated with rock wool.					
Compressor	Reciprocating semi-hermetic type compressor equipped with: electronic control module and protection of the electric motor (installed inside the elepanel); oil charge; oil level sight glass and oil crankcase heater; anti-vibration rubber supports; anti-vibration pipes (suction and discharge); suction discharge valves. The compressor can be supplied with one or more RSH capacity control heads to guarantee an adaptation of the cooling capacity in contemporary thermal load's reduction; please see the list of accessories for further information.					
EC Fan	Premium-Axial-Fans with bionic shaped blades and high-efficient EC thermal class THCL 155. The motor efficiency class complies with IE4.	(Electronically Commutated) external rotor motors, sealed in protection IP54 and				
Air heat exchanger	Finned coil made with copper pipes arranged on staggered rows, med area.	chanically expanded inside a pack of aluminium fins offering a high exchange surface				
Water heat exchanger		plete with water differential pressure switch, air vent valve and thermally insulated er design provides high thermal exchange and high performance results, furthermore				
Electrical board	Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. The installed components are identified by nameplates to better identify the application and the type of action. Switchboard is made according to standards It 204-1/EN60204-1 and it is complete with the following main components: - Main isolator switch - Door interlock safety device - Contactor and protection compressor and fans - Cabinet minimum protection rating IP54. To ensure higher level of security, the cabinet is outside the machine and positioned on one side of the unit. The propane sensor is equipped with separa power supply: this power supply must always be guaranteed in order to ensure the monitoring of any leakage.					
Control	The microprocessor controls the unit capacity by timing the compressor	ors and checks the operating alarms with the possibility to connect to BMS.				
Refrigerant circuit	Filter drier, moisture-liquid sight glass, electronic expansion valve, hig safety high pressure valve (when required by EN 378-2016 standard).	gh & low pressure gauge, high and low pressure transducers, high pressure switch,				
Water circuit (Integrata)		rvalve, water discharge valve, centrifugal pump(s) suitable for glycol solutions up to ol equipment is fitted inside the electrical board of the unit and the microprocessor				
ACCESSORI PRINCIPALI	 Anti-vibration rubber/spring mounts Air heat exchanger protection panel or filter Air heat exchanger with various coatings treatment Low pressure switch Low pressure safety valve 	 Overpressure valve / automatic by-pass Double water pump (stand-by) - Standard/ High pressure Open / Closed expansion vessel with automatic filling unit RSH Capacity Control head / Inverter driven compressor Advanced control c.pCo 				

CRIO HE+ R290 range		10-1-1 PE	14-1-1 PE	17-1-1 PE	21-1-1 PE
COOLING - A BP/ST/AS/EC/*S version		10-1-1 PE	14-1-1 PE	1/-1-1 PE	21-1-1 PE
Cooling capacity (1)	[kW]	9,6	13,8	17,3	21,1
Total power input (1)	[kW]	4,2	5,9	7,6	9,2
EER - Energy Efficiency Ratio	[KVV]	2,30	2,36	2,28	2,28
Saved CO2 equivalent Ton (*)	[CO ₂ Ton]	8,3	10,7	11,5	15,1
"Ecodesign" compliance for process application (SEPR)	-	3,59	3,41	3,60	3,40
	L		-,:-	-,	5,15
REFRIGERANT CIRCUIT					
Refrigerant	-		R	290	
GWP	-			3	
Charge of refrigerant - Base unit	[kg]	2,2	2,8	3,0	3,9
Independent gas circuits	[n°]	1	1	1	1
Compressors type	=			netic pistons	1
Compressors quantity	[n°]	1	1	1	1
Steps of capacity for each compressor (std)	-	1 (75%); 2 (50%)	1 (75%); 2 (50%)	1 (75%); 2 (50%)	1 (75%); 2 (50%)
Condensing coils type	-			u/Al	
Fans type	-			ial EC	1 -
Fans quantity	[n°]	1	1	1	2
Fans power input (1) (total)	[kW]	0,2	0,3	0,7	0,4
Total air flow	[m³/h]	6.900	7.400	10.900	13.800
Expansion valve type		2.2	T	etronic 4.2	F 1
Evaporator water flow (1) Evaporator pressure drop (1)	[m³/h] [kPa]	2,3 24	3,3 27	4,2 29	5,1 28
Evaporator pressure grop · ·	[KPa]	24		79	
DESUPERHEATER (option) - A BP/ST/DS/EC/*S					
Heating capacity (2)	[kW]	1,8	2,35	3,13	3,72
Water flow	[m³/h]	0,31	0,40	0,54	0,64
Pressure drop (water side)	[kPa]	5,1	5,2	5,2	0,2
ressure drop (nate: side)	[0]	5)1	3,2	3,2	0)2
HEAT RECOVERY (option) - A BP/ST/HR/EC/*S					
Heating capacity (2)	[kW]	13	18,2	23,8	28,2
Water flow	[m ³ /h]	2,2	3,1	4,1	4,9
Pressure drop (water side)	[kPa]	13,5	24,3	25,1	24,6
	<u> </u>				
Electrical data					
Power supply	-)/3/50	
Emergency power supply	=)/1/50	1
Maximum power input without pump	[kW]	9,3	13,1	14,1	17,7
Locked rotor current – LRA without pump	[A]	65,0	89,2	104,2	120,9
Maximum absorbed current - FLA without pump	[A]	15,7	22,5	23,5	32,5
Investoria (III)					
HYDRONIC KIT (option)	5.3		1	1	1
Buffer tank capacity	[L]	60	60	60	160
Pump type	-		Cent	trifugal	
Standard numn 150 kBa usaful haad					
Standard pump - 150 kPa useful head Motor Efficiency	_	_	_	_	_
Pump motor nominal power	[kW]	0,37	0,37	0,55	0,55
Pump motor nominal current	[A]	1,4	1,4	1,9	1,9
, sing motor nominal current	[^]	±,⊤	±,™	1,5	1,3
Standard pump - 250 kPa useful head					
Motor Efficiency	-	-	IE3	IE3	IE3
Pump motor nominal power	[kW]	0,55	0,75	0,9	0,9
Pump motor nominal current	[A]	2	1,9	2,5	2,5
	, , , ,				
Water connections					
Dimension (nominal external diameter)	[inch/DN]	1/2" (DN15)	1" (DN 25)	1" (DN 25)	1" (DN 25)
Noise levels (3)					
Total sound power (ST version)	[db(A)]	73	76	79	80
Total sound pressure (ST version) - at 1 m distance	[db(A)]	56	59	62	63
Total sound pressure (ST version) - at 10 m distance	[db(A)]	43	45	48	49
Total sound power (LN version)	[db(A)]	70	73	76	77
Total sound pressure (LN version) - at 1 m distance	[db(A)]	53	56	59	60
Total sound pressure (LN version) - at 10 m distance	[db(A)]	40	42	45	46
Total sound power (SL version)	[db(A)]	68	71	74	75
Total sound pressure (SL version) - at 1 m distance	[db(A)]	51	54	57	58
Total sound pressure (SL version) - at 10 m distance	[db(A)]	38	40	43	44

- Reference conditions:
 (1) Condenser air intake temperature = 30 °C Evaporator water temperature IN/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to models
- (2) Plate heat exchanger water temp. IN/OUT = 40/45 °C Condenser air intake temperature = 35 °C Evaporator water temperature IN/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

CRIO HE+ R290 range		30-1-1 PE	36-1-1 PE	56-1-1 PE	41-2-2 PE
COOLING - A BP/ST/AS/EC/*S version		30-1-1 PE	30-1-1 PE	20-1-1 PE	41-2-2 PE
Cooling capacity (1)	[kW]	30,2	36	56,4	41,1
Total power input (1)	[kW]	12,4	14,1	25,1	17,9
EER - Energy Efficiency Ratio	-	2,44	2,55	2,25	2,30
Saved CO2 equivalent Ton (*)	[CO ₂ Ton]	20,4	27,9	39	32,9
"Ecodesign" compliance for process application (SEPR)	-	3,91	3,69	3,61	3,69
REFRIGERANT CIRCUIT	Т		C	2290	
Refrigerant GWP	-		г	3	
Charge of refrigerant - Base unit	[kg]	5,3	7,2	10,1	8,5
Independent gas circuits	[n°]	1	1	1	2
Compressors type	-	_		metic pistons	
Compressors quantity	[n°]	1	1	1	2
Steps of capacity for each compressor (std)	-	1 (75%); 2 (50%)	1 (75%); 2 (50%)	1 (83%); 2 (67%); 3 (50%)	1 (75%); 2 (50%)
Condensing coils type	-		C	u/Al	
Fans type	-		Ax	ial EC	
Fans quantity	[n°]	2	2	3	3
Fans power input ⁽¹⁾ (total)	[kW]	0,9	0,9	2,4	1,3
Total air flow	[m³/h]	21.200	19.700	36.000	30.900
Expansion valve type	- 2			ctronic	
Evaporator water flow (1)	[m³/h]	7,3	8,7	13,7	10,0
Evaporator pressure drop (1)	[kPa]	35	18	29	19
DESUPERHEATER (option) - A BP/ST/DS/EC/*S					
Heating capacity (2)	[kW]	4,54	5,09	10,1	7,27
Water flow	[m³/h]	0,78	0,88	1,74	1,25
Pressure drop (water side)	[kPa]	5,2	0,3	5,6	5,2
		· · · · · · · · · · · · · · · · · · ·	<u>'</u>		*
HEAT RECOVERY (option) - A BP/ST/HR/EC/*S					
Heating capacity (2)	[kW]	40,3	46,7	79,3	57,3
Water flow	[m ³ /h]	6,9	8,0	13,6	9,9
Pressure drop (water side)	[kPa]	30	8,1	28,7	19,8
Florantial data					
Electrical data	T I		400	0/3/50	
Power supply Emergency power supply	-			0/1/50	
Maximum power input without pump	[kW]	22,5	27,5	47,7	34,3
Locked rotor current – LRA without pump	[A]	206,5	228,2	327,1	151,5
Maximum absorbed current - FLA without pump	[A]	40,7	47,8	80,3	63,1
		,		,	•
HYDRONIC KIT (option)					
Buffer tank capacity	[L]	290	290	290	290
Pump type	-		Cen	trifugal	
n. 1 1 45010 411 1					
Standard pump - 150 kPa useful head	Т			IE3	
Motor Efficiency Pump motor nominal power	- [kW]	0,9	0,9	1,1	1,1
Pump motor nominal current	[A]	2,5	2,5	3,3	3,3
	ניז	2,3	1 2,3	5,5	5,5
Standard pump - 250 kPa useful head					
Motor Efficiency	-			IE3	
Pump motor nominal power	[kW]	1,5	1,5	2,2	1,5
Pump motor nominal current	[A]	4,1	4,1	4,7	4,1
Water connections	f: 1 /pa/2	411 4 /2 /251 421	4 4 /2 /25 42	2ll (D2: 50)	411.4 /2 /22: 40
Dimension (nominal external diameter)	[inch/DN]	1" 1/2 (DN 40)	1" 1/2 (DN 40)	2" (DN 50)	1" 1/2 (DN 40)
Noise levels (3)					
Total sound power (ST version)	[db(A)]	81	84	86	83
Total sound pressure (ST version) - at 1 m distance	[db(A)]	63	66	68	65
Total sound pressure (ST version) - at 10 m distance	[db(A)]	50	53	54	51
Total sound power (LN version)	[db(A)]	78	81	83	80
Total sound pressure (LN version) - at 1 m distance	[db(A)]	60	63	65	62
Total sound pressure (LN version) - at 10 m distance	[db(A)]	47	50	51	48
Total sound power (SL version)	[db(A)]	76	79	81	78
Total sound pressure (SL version) - at 1 m distance	[db(A)]	58	61	63	60
Total sound pressure (SL version) - at 10 m distance	[db(A)]	45	48	49	46

- (1) Condenser air intake temperature = 30 °C Evaporator water temperature IN/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to models
- (2) Plate heat exchanger water temp. In/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

 (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

CDIO LIE I D200 renge		40.2.2.DE	02.2.2.05	00.2.2.05	11C 2 2 DE
CRIO HE+ R290 range		48-2-2 PE	83-2-2 PE	99-2-2 PE	116-2-2 PE
COOLING - A BP/ST/AS/EC/*S version Cooling capacity (1)	flast1	40	02.2	00.4	110
Total power input ⁽¹⁾	[kW] [kW]	48 19,5	83,2 35,3	99,4 38,1	116 49,5
EER - Energy Efficiency Ratio	[KVV]	2,46	2,36	2,61	2,34
Saved CO2 equivalent Ton (*)	[CO ₂ Ton]	39,4	65,5	85,8	87,6
"Ecodesign" compliance for process application (SEPR)	-	3,74	3,58	3,62	3,70
Economics for process application (SEL N)		5,7.	5,55	3,02	3,7.0
REFRIGERANT CIRCUIT					
Refrigerant	-		R	290	
GWP	-			3	
Charge of refrigerant - Base unit	[kg]	10,2	17,0	22,3	22,8
Independent gas circuits	[n°]	2	2	2	2
Compressors type	-			netic pistons	
Compressors quantity	[n°]	2	2	2 (020() 2 (070() 2 (000()	2
Steps of capacity for each compressor (std)	-	1 (75%); 2 (50%)		1 (83%); 2 (67%); 3 (50%) u/Al)
Condensing coils type				ial EC	
Fans type Fans quantity	[n°]	3	3	4	4
Fans power input ⁽¹⁾ (total)	[kW]	1,1	3,3	1,8	3,2
Total air flow	[m³/h]	27.150	55.550	51.100	63.800
Expansion valve type	- [111 /11]			etronic	12.000
Evaporator water flow (1)	[m ³ /h]	11,6	20,2	24,1	28,1
Evaporator pressure drop (1)	[kPa]	25	29	33	37
DESUPERHEATER (option) - A BP/ST/DS/EC/*S					
Heating capacity ⁽²⁾	[kW]	7,61	13,3	17,1	20,5
Water flow	[m³/h]	1,31	2,29	2,94	3,53
Pressure drop (water side)	[kPa]	5,2	5,3	0,4	5,6
HEAT RECOVERY (option) - A BP/ST/HR/EC/*S	El sed			1 407	100
Heating capacity ⁽²⁾ Water flow	[kW]	64,7 11,1	114 19,6	137 23,6	160 27,5
Pressure drop (water side)	[m³/h] [kPa]	24,4	29,2	33,1	35,7
Pressure drop (water side)	[KFd]	24,4	29,2	33,1	33,7
Electrical data					
Power supply	-		400	0/3/50	
Emergency power supply	-		230	0/1/50	
Maximum power input without pump	[kW]	39,3	72,6	85,3	100,5
Locked rotor current – LRA without pump	[A]	177,8	307,1	352,6	414,6
Maximum absorbed current - FLA without pump	[A]	77,5	121,8	140,6	167,8
HYDRONIC KIT (option)	1 6.3		T	1	T
Buffer tank capacity	[L]	290	500	470	470
Pump type	-		Cent	trifugal	
Standard pump - 150 kPa useful head					
Motor Efficiency	1 - 1			IE3	
Pump motor nominal power	[kW]	1,1	2,2	2,2	2,2
Pump motor nominal current	[A]	3,3	4,7	4,7	4,7
	1 6.4	-,-	, ,	,	, ,
Standard pump - 250 kPa useful head					
Motor Efficiency	-			IE3	
Pump motor nominal power	[kW]	2,2	3	4	4
Pump motor nominal current	[A]	4,7	6,4	8,7	8,7
Water connections	p	411.4 (0.4=++++++++++++++++++++++++++++++++++++	Oll (5.1.5.)	0114 (0 (= :: ==)	2 4 /2 /= · · · = · \
Dimension (nominal external diameter)	[inch/DN]	1" 1/2 (DN 40)	2" (DN 50)	2"1/2 (DN 65)	2"1/2 (DN 65)
Noise levels (3)					
Noise levels (ST version)	[db(A)]	84	88	89	89
Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance	[db(A)]	66	69	70	70
Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance	[db(A)]	52	56	57	57
Total sound power (LN version)	[db(A)]	81	85	86	86
Total sound pressure (LN version) - at 1 m distance	[db(A)]	63	66	67	67
Total sound pressure (LN version) - at 10 m distance	[db(A)]	49	53	54	54
Total sound power (SL version)	[db(A)]	79	83	84	84
Total sound pressure (SL version) - at 1 m distance	[db(A)]	61	64	65	65
Total sound pressure (SL version) - at 10 m distance	[db(A)]	47	51	52	52

- Reference conditions:
 (1) Condenser air intake temperature = 30 °C Evaporator water temperature IN/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to models
- (2) Plate heat exchanger water temp. In/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

 (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant



Refrigerant R290 | GWP=3











Microchannel condensing colils





130-2-2 PV ←→ 185-2-2 PV

Air to water chillers for medium temperature applications

High efficiency plus



• Double safety valve

Solution

B - Base

I - Integrata

Version

ST - Standard

LN - Low Noise

SL - Super Low Noise

Equipment

AS - Standard equipment

DS - Desuperheater

HR - Total modulating Heat Recovery

Cooling capacity 130 - 185 kW

» For the complete list of accessories please see pages 54-55-56-57

	and the second s	Cooling capacity 130 - 185 kW
Safety system	dedicated power supply and Modbus output signal, has an alarm three	fied gas detector and an EC centrifugal extraction fan. The sensor, with external eshold set at 10% of the lower flammable limit (LFL). The Propane alarm causes the is switched on, which allows the ventilation of the compressor compartment and the lity limit.
Structure	sheet, oven-painted with polyurethane powders. Frame made of another	to atmospheric agents and corrosion. Basement and panels made of galvanized steel dized aluminium profiles, with aluminium alloy corner joints that guarantee excellent nels are internally lined with sound-absorbing material. SL (Super Low Noise) version:
Compressor	panel); oil charge; oil level sight glass and oil crankcase heater; anti-	nic control module and protection of the electric motor (installed inside the electrical vibration rubber supports; anti-vibration pipes (suction and discharge); suction and H capacity control heads to guarantee an adaptation of the cooling capacity in case of formation.
EC Fan	Premium-Axial-Fans with bionic shaped blades and high-efficient EC thermal class THCL 155. The motor efficiency class complies with IE4.	(Electronically Commutated) external rotor motors, sealed in protection IP54 and
Air heat exchanger	Microchannel technology increases the primary to secondary surface through our condensers.	area ratio and reduces the tube's air shadow to provide maximum heat exchange
Water heat exchanger		plete with water differential pressure switch, air vent valve and thermally insulated er design provides high thermal exchange and high performance results, furthermore
Electrical board	installed components are identified by nameplates to better identify the 204-1/EN60204-1 and it is complete with the following main compon for compressor and fans - Cabinet minimum protection rating IPS4.	It the factory. Wiring numeration and optimized layout facilitate troubleshooting. The ne application and the type of action. Switchboard is made according to standards IEC ents: - Main isolator switch - Door interlock safety device - Contactor and protection and positioned on one side of the unit. The propane sensor is equipped with separate to ensure the monitoring of any leakage.
Control	The microprocessor controls the unit capacity by timing the compressor	ors and checks the operating alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, moisture-liquid sight glass, electronic expansion valve, hig safety high pressure valve (when required by EN 378-2016 standard).	gh & low pressure gauge, high and low pressure transducers, high pressure switch,
Water circuit (Integrata)		valve, water discharge valve, centrifugal pump(s) suitable for glycol solutions up to ol equipment is fitted inside the electrical board of the unit and the microprocessor
ACCESSORI PRINCIPALI	 Anti-vibration rubber/spring mounts Air heat exchanger protection panel or filter Air heat exchanger with various coatings treatment Low pressure switch Low pressure safety valve 	 Overpressure valve / automatic by-pass Double water pump (stand-by) - Standard/ High pressure Open / Closed expansion vessel with automatic filling unit RSH Capacity Control head / Inverter driven compressor Advanced control c.pCo

CRIO HE+ R290 range		130-2-2 PV	142-2-2 PV	161-2-2 PV	175-2-2 PV	185-2-2 PV
COOLING - A BP/ST/AS/EC/*S version						
Cooling capacity (1)	[kW]	130	142	161	175	185
Total power input ⁽¹⁾	[kW]	61,8	67,8	73,3	80,5	85
EER - Energy Efficiency Ratio	- 1	2,10	2,10	2,20	2,17	2,18
Saved CO2 equivalent Ton (*)	[CO ₂ Ton]	55,8	61,1	77	77,9	81,4
"Ecodesign" compliance for process application (SEPR)	-	2,99	3,02	3,08	3,05	3,07
DEED CODANIT CIDCUIT						
REFRIGERANT CIRCUIT Refrigerant	<u> </u>			R290		
GWP				3		
Charge of refrigerant - Base unit	[kg]	14,5	15,9	20,0	20,2	21,2
Independent gas circuits	[n°]	2	2	2	2	2
Compressors type	-			Semi-hermetic pistons		
Compressors quantity	[n°]	2	2	2	2	2
Steps of capacity for each compressor (std)	- 1		21	75%); 3 (62,5%); 4 (50	%)	
Condensing coils type	-		·	Microchannel	•	
Fans type	-			Axial EC		
Fans quantity	[n°]	4	4	6	6	6
Fans power input ⁽¹⁾ (total)	[kW]	4,3	5,9	3,3	4,3	5,3
Total air flow	[m ³ /h]	72.600	82.700	83.400	93.000	101.100
Expansion valve type	-			Electronic		
Evaporator water flow (1)	[m ³ /h]	31,5	34,4	39,0	42,4	44,8
Evaporator pressure drop (1)	[kPa]	41	35	33	38	34
F 2000 2 0 0 F						
DESUPERHEATER (option) - A BP/ST/DS/EC/*S						
Heating capacity ⁽²⁾	[kW]	26,8	28,3	33	35,5	37,4
Water flow	[m ³ /h]	4,61	4,87	5,68	6,11	6,43
Pressure drop (water side)	[kPa]	5,8	6,0	14,7	15,0	15,1
HEAT RECOVERY (- a time) A RR (CT I) IP (C I to						
HEAT RECOVERY (option) - A BP/ST/HR/EC/*S Heating capacity (2)	[LAA/]	185	204	228	247	262
Water flow	[kW]		_			
	[m³/h]	31,8	35,1	39,2	42,5	45,1
Pressure drop (water side)	[kPa]	39,5	47,1	50,4	52,3	38,4
Electrical data						
Power supply	-			400/3/50		
Emergency power supply	-			230/1/50		
Maximum power input without pump	[kW]	95,1	114,3	119,5	125,1	133,3
Locked rotor current – LRA without pump	[A]	390,3	472,9	568,3	670,1	713,7
Maximum absorbed current - FLA without pump	[A]	166,0	193,2	198,7	216,3	231,5
HYDRONIC KIT (option)	6.3	200	200	200	200	200
Buffer tank capacity	[L]	290	290	290	290	290
Pump type	-			C+-:f1		
Chandendamon AFOLDs 6 !!				Centrifugal		-
istangarg pump - 150 kPa useful head				Centrifugal		
Standard pump - 150 kPa useful head Motor Efficiency	- T			Centrifugal		
Motor Efficiency	- [kW]	3	3		3	3
Motor Efficiency	- [kW]	3 6,4	3 6,4	IE3	3 6,4	
Motor Efficiency Pump motor nominal power Pump motor nominal current				IE3		3
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head				IE3 3 6,4		3
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency	[A]	6,4	6,4	IE3 3 6,4	6,4	3 6,4
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power	[A]	6,4	6,4	IE3 3 6,4 IE3 5,5	6,4 5,5	3 6,4 5,5
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency	[A]	6,4	6,4	IE3 3 6,4	6,4	3 6,4
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current	[A]	6,4	6,4	IE3 3 6,4 IE3 5,5	6,4 5,5	3 6,4 5,5
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power	[A]	6,4	6,4	IE3 3 6,4 IE3 5,5	6,4 5,5	3 6,4 5,5
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter)	[A] - [kW] [A]	6,4 4 8,7	6,4 4 8,7	IE3 3 6,4 IE3 5,5 10,6	5,5 10,6	3 6,4 5,5 10,6
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3)	[A] - [kW] [A] [inch/DN]	6,4 4 8,7 3" (DN 80)	6,4 4 8,7 3" (DN 80)	IE3 3 6,4 IE3 5,5 10,6	5,5 10,6 3" (DN 80)	3 6,4 5,5 10,6 3" (DN 80)
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version)	[A] - [kW] [A] [inch/DN]	6,4 4 8,7 3" (DN 80)	6,4 4 8,7 3" (DN 80)	IE3 3 6,4 IE3 5,5 10,6 3" (DN 80)	5,5 10,6 3" (DN 80)	3 6,4 5,5 10,6 3" (DN 80)
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance	[A] - [kW] [A] [inch/DN] [db(A)] [db(A)]	6,4 4 8,7 3" (DN 80) 90 71	6,4 4 8,7 3" (DN 80) 94 75	IE3 3 6,4 IE3 5,5 10,6 3" (DN 80)	5,5 10,6 3" (DN 80)	3 6,4 5,5 10,6 3" (DN 80)
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance	[A] - [kW] [A] [inch/DN] [db(A)] [db(A)] [db(A)]	6,4 4 8,7 3" (DN 80) 90 71 58	6,4 4 8,7 3" (DN 80) 94 75 62	IE3 3, 6,4 IE3 5,5 10,6 3" (DN 80)	5,5 10,6 3" (DN 80) 95 75 63	3 6,4 5,5 10,6 3" (DN 80)
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound power (LN version)	[A] - [kW] [A] [inch/DN] [db(A)] [db(A)]	6,4 4 8,7 3" (DN 80) 90 71 58 87	6,4 4 8,7 3" (DN 80) 94 75 62 91	IE3 3, 6,4 IE3 5,5 10,6 3" (DN 80)	5,5 10,6 3" (DN 80) 95 75 63 92	3 6,4 5,5 10,6 3" (DN 80) 97 77 65 94
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance Total sound power (LN version) Total sound pressure (LN version) - at 1 m distance	[A] - [kW] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)]	6,4 4 8,7 3" (DN 80) 90 71 58 87 68	6,4 4 8,7 3" (DN 80) 94 75 62 91 72	3" (DN 80) 95 75 63 92 72	5,5 10,6 3" (DN 80) 95 75 63 92 72	3 6,4 5,5 10,6 3" (DN 80) 97 77 65 94 74
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance Total sound pressure (LN version) Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance	[A] - [kW] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)]	6,4 4 8,7 3" (DN 80) 90 71 58 87 68 55	6,4 4 8,7 3" (DN 80) 94 75 62 91 72 59	3" (DN 80) 95 75 63 92 72 60	5,5 10,6 3" (DN 80) 95 75 63 92 72 60	3 6,4 5,5 10,6 3" (DN 80) 97 77 65 94 74 62
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound pressure (ST version) - at 10 m distance Total sound pressure (LN version) Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 10 m distance Total sound pressure (LN version) - at 10 m distance Total sound power (SL version)	[A]	6,4 4 8,7 3" (DN 80) 90 71 58 87 68 55 85	6,4 4 8,7 3" (DN 80) 94 75 62 91 72 59 89	IE3 3 6,4 IE3 5,5 10,6 3" (DN 80) 95 75 63 92 72 60 90	5,5 10,6 3" (DN 80) 95 75 63 92 72 60 90	3 6,4 5,5 10,6 3" (DN 80) 97 77 65 94 74 62 92
Motor Efficiency Pump motor nominal power Pump motor nominal current Standard pump - 250 kPa useful head Motor Efficiency Pump motor nominal power Pump motor nominal current Water connections Dimension (nominal external diameter) Noise levels (3) Total sound power (ST version) Total sound pressure (ST version) - at 1 m distance Total sound power (LN version) - at 10 m distance Total sound pressure (LN version) - at 1 m distance Total sound pressure (LN version) - at 1 m distance	[A] - [kW] [A] [inch/DN] [db(A)] [db(A)] [db(A)] [db(A)] [db(A)]	6,4 4 8,7 3" (DN 80) 90 71 58 87 68 55	6,4 4 8,7 3" (DN 80) 94 75 62 91 72 59	3" (DN 80) 95 75 63 92 72 60	5,5 10,6 3" (DN 80) 95 75 63 92 72 60	3 6,4 5,5 10,6 3" (DN 80) 97 77 65 94 74 62

- Reference conditions:
 (1) Condenser air intake temperature = 30 °C Evaporator water temperature IN/OUT = -4/-8 °C Fluid: ethilene glycol Condensing coil: Cu/Al or microchannel according to models
- (2) Plate heat exchanger water tempo. In/OUT = 40/45 °C Condenser air intake temperature IN/OUT = 40/45 °C Condensing coil: Cu/Al or microchannel (1) (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

 (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

CRIO HE+ R290 range

DIMENSIONS AND WEIGHTS - Standard unit

Dimensions and weights

Lenght	[mm]	1680	1680	1680	2330	2980
Width	[mm]	1025	1025	1025	1025	1025
Height (ST - LN)	[mm]	2121	2121	2121	2221	2221
Height (SL)	[mm]	2208	2208	2208	2308	2308
Shipping weight (A BP/ST/AS/EC/** version)	[kg]	350	360	410	560	720
Operating weight (A BP/ST/AS/EC/** version)	[kg]	355	365	415	565	727
					L	l .
DIMENSIONS - Large unit						
	[mama]	2220	2220	2220	2000	2020
Lenght	[mm]	2330	2330	2330	2980	3920
Width	[mm]	1025	1025	1025	1025	1025
Height (ST - LN)	[mm]	2221	2221	2221	2221	2281
Height (SL)	[mm]	2308	2308	2308	2308	2368
Unit dimensions with hydronic kit						
Integrata LP 1-0 OO	_	Standard	Standard	Standard	Standard	Standard
Integrata LP 1-0 OO and HR equipment	-	Large	Large	Large	Large	Standard
Integrata LP 1-1 00	-	Large	Large	Large	Standard	Standard
Integrata LP 1-1 OO and HR equipment	-	Large	Large	Large	Large	Large
Integrata MP 1-0 00	-	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-0 OO and HR equipment	-	Large	Large	Large	Large	Standard
Integrata MP 1-1 00	-	Large	Large	Large	Standard	Standard
Integrata MP 1-1 OO and HR equipment	-	Large	Large	Large	Large	Large
Base-P LP 1-0 00	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 00	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 00	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 00	_	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 00 and HR equipment	_	Standard	Standard	Standard	Standard	Standard
Base-T	1	Standard	Standard	Standard	Standard	Standard
Base-T and HR equipment	-	Large	Large	Large	Standard	Standard
CRIO HE+ R290 range		36-1-1 PE	56-1-1 PE	41-2-2 PE	48-2-2 PE	83-2-2 PE
		36-1-1 PE	56-1-1 PE	41-2-2 PE	48-2-2 PE	83-2-2 PE
DIMENSIONS AND WEIGHTS - Standard unit	[mm]					
DIMENSIONS AND WEIGHTS - Standard unit Lenght	[mm]	2980	3920	3920	3920	4200
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width	[mm]	2980 1025	3920 1025	3920 1025	3920 1025	4200 1185
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN)	[mm]	2980 1025 2221	3920 1025 2281	3920 1025 2281	3920 1025 2281	4200 1185 2320
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL)	[mm]	2980 1025	3920 1025	3920 1025	3920 1025 2281 2368	4200 1185
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN)	[mm]	2980 1025 2221	3920 1025 2281	3920 1025 2281	3920 1025 2281	4200 1185 2320
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL)	[mm] [mm]	2980 1025 2221 2308	3920 1025 2281 2368	3920 1025 2281 2368	3920 1025 2281 2368	4200 1185 2320 2380
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version)	[mm] [mm] [mm] [kg]	2980 1025 2221 2308 760	3920 1025 2281 2368 960	3920 1025 2281 2368 940	3920 1025 2281 2368 970	4200 1185 2320 2380 1460
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version)	[mm] [mm] [mm] [kg]	2980 1025 2221 2308 760	3920 1025 2281 2368 960	3920 1025 2281 2368 940	3920 1025 2281 2368 970	4200 1185 2320 2380 1460
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version)	[mm] [mm] [mm] [kg]	2980 1025 2221 2308 760	3920 1025 2281 2368 960	3920 1025 2281 2368 940	3920 1025 2281 2368 970	4200 1185 2320 2380 1460
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght	[mm] [mm] [mm] [kg] [kg]	2980 1025 2221 2308 760 767	3920 1025 2281 2368 960 968	3920 1025 2281 2368 940 948	3920 1025 2281 2368 970 978	4200 1185 2320 2380 1460 1470
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width	[mm] [mm] [mm] [kg] [kg] [mm]	2980 1025 2221 2308 760 767	3920 1025 2281 2368 960 968	3920 1025 2281 2368 940 948	3920 1025 2281 2368 970 978	4200 1185 2320 2380 1460 1470 5000 1185
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN)	[mm] [mm] [mm] [kg] [kg] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281	3920 1025 2281 2368 960 968	3920 1025 2281 2368 940 948	3920 1025 2281 2368 970 978	4200 1185 2320 2380 1460 1470 5000 1185 2320
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width	[mm] [mm] [mm] [kg] [kg] [mm]	2980 1025 2221 2308 760 767	3920 1025 2281 2368 960 968	3920 1025 2281 2368 940 948	3920 1025 2281 2368 970 978	4200 1185 2320 2380 1460 1470 5000 1185
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL)	[mm] [mm] [mm] [kg] [kg] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281	3920 1025 2281 2368 960 968	3920 1025 2281 2368 940 948	3920 1025 2281 2368 970 978	4200 1185 2320 2380 1460 1470 5000 1185 2320
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281 2368	3920 1025 2281 2368 960 968	3920 1025 2281 2368 940 948	3920 1025 2281 2368 970 978	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 00	[mm] [mm] [mm] [kg] [kg] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281 2368	3920 1025 2281 2368 960 968	3920 1025 2281 2368 940 948	3920 1025 2281 2368 970 978	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281 2368	3920 1025 2281 2368 960 968	3920 1025 2281 2368 940 948	3920 1025 2281 2368 970 978	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281 2368	3920 1025 2281 2368 960 968	3920 1025 2281 2368 940 948	3920 1025 2281 2368 970 978	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO and HR equipment	[mm] [mm] [kg] [kg] [kg]	2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard Standard Standard	3920 1025 2281 2368 960 968 	3920 1025 2281 2368 940 948 	3920 1025 2281 2368 970 978 	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large Large Large Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (ST - LN) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (ST - LN) Integrata LP 1-0 00 Integrata LP 1-1 00 and HR equipment	[mm] [mm] [kg] [kg] [kg] [mm] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard Standard Standard Large	3920 1025 2281 2368 960 968 	3920 1025 2281 2368 940 948 	3920 1025 2281 2368 970 978 Standard Standard Standard Standard	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large Large Large Large Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO lintegrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO and HR equipment	[mm] [mm] [kg] [kg] [kg] [mm] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard Standard Standard Large Standard	3920 1025 2281 2368 960 968 	3920 1025 2281 2368 940 948 	3920 1025 2281 2368 970 978 Standard Standard Standard Standard Standard Standard	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large Large Large Large Large Large Large Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [mm] [mm] [mm] [m	2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard Standard Standard Large Standard Standard Standard	3920 1025 2281 2368 960 968 Standard Standard Standard Standard Standard Standard Standard Standard	3920 1025 2281 2368 940 948 Standard Standard Standard Standard Standard Standard Standard Standard	3920 1025 2281 2368 970 978 Standard Standard Standard Standard Standard Standard Standard Standard	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large Large Large Large Large Large Large Large Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO ond HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [mm] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard Standard Large Standard Standard Standard Standard Standard Standard Standard	3920 1025 2281 2368 960 968 Standard	3920 1025 2281 2368 940 948 Standard	3920 1025 2281 2368 970 978 Standard	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO ond HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Integrata MP 1-1 OO and HR equipment	[mm] [mm] [kg] [kg] [kg] [mm] [mm] [mm] [mm] [mm] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard Standard Standard Large Standard Standard Standard Standard Large Standard Large	3920 1025 2281 2368 960 968 Standard	3920 1025 2281 2368 940 948 Standard	3920 1025 2281 2368 970 978 Standard	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 00 Integrata LP 1-1 00 Integrata LP 1-1 00 and HR equipment Integrata MP 1-0 00 Integrata MP 1-0 00 Integrata MP 1-0 00 Integrata MP 1-0 00 and HR equipment Integrata MP 1-0 00 and HR equipment	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [mm] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard Standard Large Standard Standard Standard Standard Standard Standard Standard	3920 1025 2281 2368 960 968 Standard	3920 1025 2281 2368 940 948 Standard	3920 1025 2281 2368 970 978 Standard	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO ond HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Integrata MP 1-1 OO and HR equipment	[mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [mm] [mm] [mm] [m	2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard Standard Standard Large Standard Standard Standard Standard Large Standard Large	3920 1025 2281 2368 960 968 Standard	3920 1025 2281 2368 940 948 Standard	3920 1025 2281 2368 970 978 Standard	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-1 OO and HR equipment Integrata LP 1-1 OO Integrata MP 1-0 OO Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO Integrata MP 1-1 OO and HR equipment	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [mm] [2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard Standard Standard Large Standard Large Standard Large Standard Large Standard Large Standard Standard Large Standard Standard Standard Standard Standard Standard	3920 1025 2281 2368 960 968 Standard	3920 1025 2281 2368 940 948 Standard	3920 1025 2281 2368 970 978 Standard	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large Standard Standard
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DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 00 Integrata LP 1-0 00 and HR equipment Integrata LP 1-1 00 and HR equipment Integrata MP 1-0 00 Integrata MP 1-0 00 and HR equipment Integrata MP 1-1 00 and HR equipment Base-P LP 1-1 00 Base-P LP 1-1 00 Base-P LP 1-1 00 Base-P LP 1-1 00 and HR equipment Base-P LP 1-1 00 Base-P LP 1-1 00 and HR equipment Base-P LP 1-1 00 Base-P LP 1-1 00 and HR equipment	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [mm] [2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard	3920 1025 2281 2368 960 968 Standard	3920 1025 2281 2368 940 948 Standard	3920 1025 2281 2368 970 978	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large Large Large Large Large Large Large Large Standard Standard Standard Standard Standard Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (St - LN) Height (St) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (St - LN) Height (St) Unit dimensions with hydronic kit Integrata LP 1-0 00 Integrata LP 1-1 00 Integrata LP 1-1 00 Integrata MP 1-0 00 and HR equipment Integrata MP 1-0 00 Integrata MP 1-0 00 and HR equipment Integrata MP 1-1 00 Integrata MP 1-1 00 and HR equipment Base-P LP 1-1 00 Base-P MP 1-0 00	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [mm] [2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard	3920 1025 2281 2368 960 968 Standard	3920 1025 2281 2368 940 948 Standard	3920 1025 2281 2368 970 978 Standard	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large Large Large Large Large Large Large Large Standard Standard Standard Standard Standard
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DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (St - LN) Height (St) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (St - LN) Height (St) Unit dimensions with hydronic kit Integrata LP 1-0 00 Integrata LP 1-1 00 Integrata LP 1-1 00 Integrata MP 1-0 00 and HR equipment Integrata MP 1-0 00 Integrata MP 1-0 00 and HR equipment Integrata MP 1-1 00 Integrata MP 1-1 00 and HR equipment Base-P LP 1-1 00 Base-P MP 1-0 00	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard	3920 1025 2281 2368 960 968 Standard	3920 1025 2281 2368 940 948 Standard	3920 1025 2281 2368 970 978	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large Large Large Large Large Large Large Standard Standard Standard Standard Standard Standard Standard
DIMENSIONS AND WEIGHTS - Standard unit Lenght Width Height (ST - LN) Height (SL) Shipping weight (A BP/ST/AS/EC/** version) Operating weight (A BP/ST/AS/EC/** version) DIMENSIONS - Large unit Lenght Width Height (ST - LN) Height (ST - LN) Height (SL) Unit dimensions with hydronic kit Integrata LP 1-0 OO Integrata LP 1-0 OO and HR equipment Integrata LP 1-1 OO and HR equipment Integrata MP 1-0 OO Integrata MP 1-0 OO and HR equipment Integrata MP 1-1 OO and HR equipment Integrata MP 1-1 OO and HR equipment Base-P LP 1-1 OO and HR equipment Base-P MP 1-0 OO Base-P MP 1-0 OO Base-P MP 1-0 OO Base-P MP 1-1 OO and HR equipment Base-P MP 1-1 OO Base-P MP 1-1 OO and HR equipment	[mm] [mm] [mm] [kg] [kg] [mm] [mm] [mm] [mm] [mm]	2980 1025 2221 2308 760 767 3920 1025 2281 2368 Standard	3920 1025 2281 2368 960 968 Standard	3920 1025 2281 2368 940 948 Standard	3920 1025 2281 2368 970 978 Standard	4200 1185 2320 2380 1460 1470 5000 1185 2320 2380 Large Large Large Large Large Large Large Standard

10-1-1 PE 14-1-1 PE 17-1-1 PE

21-1-1 PE

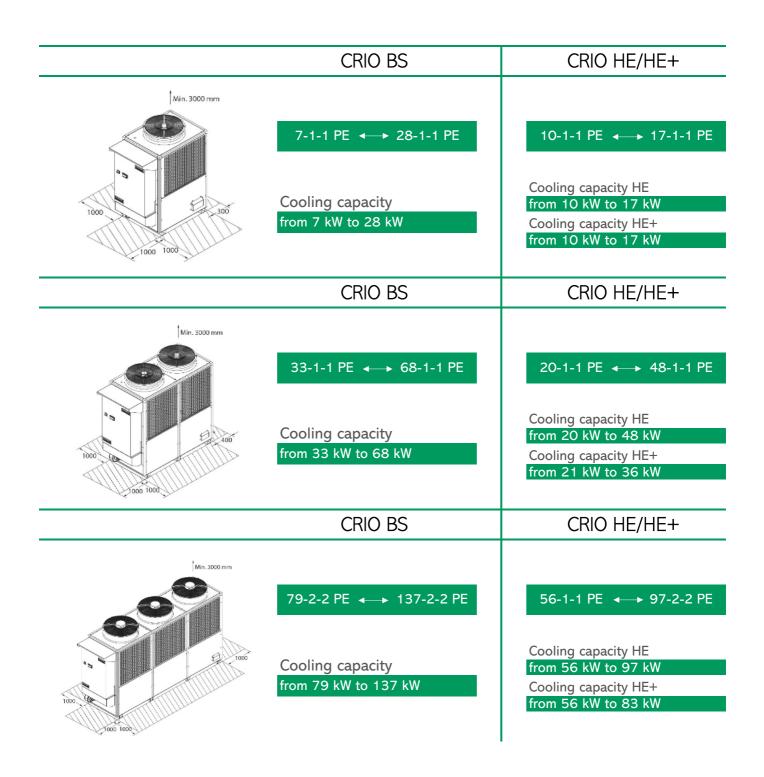
30-1-1 PE

Dimensions and weights

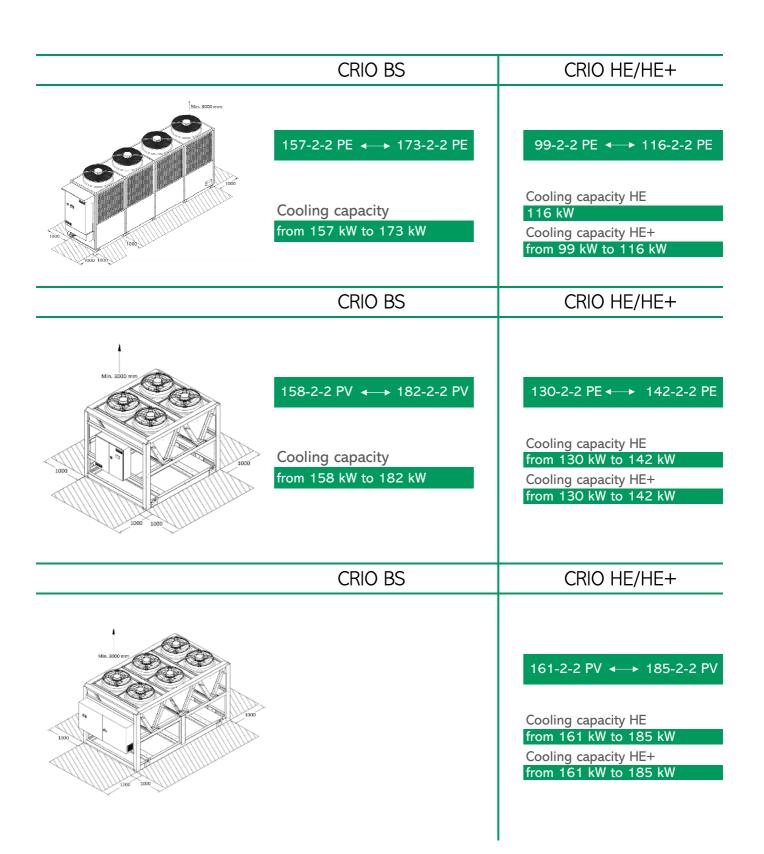
CRIO HE+ R290 range		99-2-2 PE	116-2-2 PE	130-2-2 PV	142-2-2 PV	161-2-2 PV
DIMENSIONS AND WEIGHTS - Standard unit						
Lenght	[mm]	5500	5500	3100	3100	4450
Width	[mm]	1535	1535	2345	2345	2345
Height (ST - LN)	[mm]	2350	2350	2465	2465	2465
Height (SL)	[mm]	2410	2410	2525	2525	2525
Shipping weight (A BP/ST/AS/EC/** version)	[kg]	1690	1710	1855	1900	2560
Operating weight (A BP/ST/AS/EC/** version)	[kg]	1700	1720	1870	1915	2578
DIMENSIONS - Large unit						
Lenght	[mm]	Contact EK	Contact EK	4450	4450	-
Width	[mm]	Contact EK	Contact EK	2345	2345	_
Height (ST - LN)	[mm]	Contact EK	Contact EK	2465	2465	_
Height (SL)	[mm]	Contact EK	Contact EK	2525	2525	-
					•	
Unit dimensions with hydronic kit						
ntegrata LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
ntegrata LP 1-0 OO and HR equipment	-	Contact EK	Contact EK	Large	Large	Standard
ntegrata LP 1-1 00	-	Standard	Standard	Large	Large	Standard
ntegrata LP 1-1 OO and HR equipment	-	Contact EK	Contact EK	Large	Large	Standard
ntegrata MP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
ntegrata MP 1-0 OO and HR equipment	-	Contact EK	Contact EK	Large	Large	Standard
ntegrata MP 1-1 00	-	Standard	Standard	Large	Large	Standard
ntegrata MP 1-1 OO and HR equipment	-	Contact EK	Contact EK	Large	Large	Standard
Base-P LP 1-0 00	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 00	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 00	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 00	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-T	-	Standard	Standard	Standard	Standard	Standard
Base-T and HR equipment	-	Contact EK	Contact EK	Large	Large	Standard

CRIO HE+ R290 range		142-2-2 PV	175-2-2 PV
DIMENSIONS AND WEIGHTS - Standard unit			
Lenght	[mm]	4450	4450
Width	[mm]	2345	2345
Height (ST - LN)	[mm]	2465	2465
Height (SL)	[mm]	2525	2525
Shipping weight (A BP/ST/AS/EC/** version)	[kg]	2575	2590
Operating weight (A BP/ST/AS/EC/** version)	[kg]	2593	2608
DIMENSIONS - Large unit			
Lenght	[mm]	-	-
Width	[mm]	-	-
Height (ST - LN)	[mm]	-	-
Height (SL)	[mm]	=	=
Unit dimensions with hydronic kit			
Integrata LP 1-0 00	T . T	Standard	Standard
Integrata LP 1-0 OO and HR equipment		Standard	Standard
Integrata LP 1-1 00		Standard	Standard
Integrata LP 1-1 OO and HR equipment	_	Standard	Standard
Integrata MP 1-0 00	_	Standard	Standard
Integrata MP 1-0 OO and HR equipment	_	Standard	Standard
Integrata MP 1-1 00	_	Standard	Standard
Integrata MP 1-1 OO and HR equipment	-	Standard	Standard
Base-P LP 1-0 OO	-	Standard	Standard
Base-P LP 1-0 OO and HR equipment	-	Standard	Standard
Base-P LP 1-1 00	-	Standard	Standard
Base-P LP 1-1 OO and HR equipment	-	Standard	Standard
Base-P MP 1-0 OO	-	Standard	Standard
Base-P MP 1-0 OO and HR equipment	-	Standard	Standard
Base-P MP 1-1 00	-	Standard	Standard
Base-P MP 1-1 OO and HR equipment	-	Standard	Standard
Base-T	-	Standard	Standard
Base-T and HR equipment	1 -	Standard	Standard

CRIO range



CRIO range



Standard equipment and Accessories

General

Optional accessories

Anti-vibration rubber mounts (supplied separately)



Rubber vibration isolation mounting (Kit). The system prevent the transmission of vibrations to the structure where the unit is located.

Anti-vibration seismic spring mounts (supplied separately)



Seismic vibration isolation mounting (Kit). The system prevent the transmission of vibrations to the structure where the unit is located.

Aluminum panels (fan panel not included)



Aluminium-based panels, with the exception of fan(s) bellmouth, allow to reduce the weight of tje unit and ensure higher wethering resistance.

Panels insulated with polyurethane foam sheets



Painted galvanized sheet panels, insulated with polyurethane foam sheets, polyester based, anthracite colour, selfextinguishing non dripping. **Standard for LN version.**

Anti-vibration spring mounts (supplied separately)



Spring vibration isolation mounting (Kit). The system prevent the transmission of vibrations to the structure where the unit is located.

Condensing coil protection panel



Metal protection anti-intrusion grid for condensing coil against accidental impacts. Available for "PE" and "PV" models. The picture on the left refers to "PE" shaped coils.

Metallic filters for condensing coils



Metallic filters specially designed for condensing coils applications on industrial chillers, made of an aluminum sheet frame and microextruded aluminum mesh. These filters ensure very low pressure drops and their design allow to cover large suction surfaces.

Stainless steel panels (AISI 304) - (fan panel not included)



Stainless steel-based (AISI 304) panels, with the exception of fan(s) bellmouth, allow higher rusting resitance.

Sandwich soundproofing galvanized sheet panels



Sandwich soundproofing galvanized sheet panels, painted outside and isolated with high- density rock wool (100 Kg/m³).

Standard for SL version



Condensing section

Optional accessories

Condensing coil with ElectroFin® treatment



ElectroFin® treatment delivers corrosion durability protection for fins and tubes, increasing efficiency and length of service.

Condensing coil with Thermoguard treatment



The Thermoguard treatment is a polyurethane-based anticorrosive coating with high flexibility that protects the exchangers from the hostile conditions of corrosive environments, ensuring longer life of the unit. The product includes aluminum pigments that improve its thermal conductivity and resistance to UV rays. The purpose of the product is to provide protection and prevention against the chemical and galvanic corrosion of the heat exchangers.

Condensing coil with Blygold® treatment



The Blygold® treatment provides a long-lasting corrosion protection to heat exchangers, without affecting heat transfer and pressure drop. The heat conductive pigmentation in the coating is oriented in such a way that it creates a very high chemical resistance at a low layer thickness.

Condensing coil with AiAX Coatings treatment



The AiAX Coatings treatment protects the exchangers from the hostile conditions of the most aggressive environments. The treatment is specially designed to resist thermal contractions and expansions, UV rays, it is dirt repellent, mechanically resistant and with very limited heat transfer losses. It has practically no effects on air side pressure drop.

Condensing coil with Heresite P413 treatment



The Heresite P413 treatment is a thin film, high performance coating used for protecting heat exchangers. It is the first HVAC-R coil coating to meet the ISO 20340 Standard for severe offshore marine environments. The corrosion resistance of Heresite P413 coatings significantly extends the service life of heat exchangers. In addition to marine and salt air environments, the P413 coatings will withstand exposure to an extensive variety of high and low pH corrosive and chemical fumes and condensate.

Cu/Cu condensing coil



Stainless steel-based (AISI 304) panels, with the exception of fan(s) bellmouth, allow higher rusting resitance.

Standard equipment and Accessories

Refrigerant circuit section

Standard accessories

High & Low pressure manometers



Gauges for the control of low and high refrigerant pressures, embedded in glycerine.

Suction and discharge compressor's valves



Intercepting valves on compressor's suction and discharge sides to facilitate maintenance activities.

Pressure switch-HP side



Pressure switch installed on HP side according to EN-378:2016 standard to protect the circuit against highpressure risk.

Compressor crankcase oil heater



Crankcase oil heater directly installed on the compressor in order to increase compressor reliability and ensure adequate oil temperature.

Electronic expansion valve



Electronic expansion valve for the accurate and timely control of the superheater level, after evaporation and many others operative functions.

Safety valve - HP side



Safety valve(s) installed on HP side according to EN-378:2016 standard to protect the circuit against highpressure risk. The safety valve(s) is (are) standard for some models only, according to EN-378:2016 requirements. See accessories Table for more details. All safety valves are conveyed outside the unit.

Optional accessories

Pressure switch - LP side



Pressure switch installed on LP side to prevent risks related to excessively low evaporating temperatures.

Double Safety valve with changeover valve



Double safety vale with changeover valve installed to ensure easy maintenance. This solution is available both for HP and LP side. All safety valves are conveyed outside the unit.

Safety valve – LP side



Safety valve(s) installed on LP side to protect refrigeration circuit against low pressure risk. All safety vals are conveyed outside the unit

Gauges



Gauges for the control of oil pressure, embedded in glycerine.



Electrical cabinet section

Standard accessories

Electrical panel installed outside the unit



To ensure higher security level, the cabinet is mounted outside the machine. The propane sensor is equipped with separate power supply.

Standard power supply: 400V/3ph/50hz. Emergency power supply: 230V/1ph/50hz

Double- barrier



The cable entry plates consist of a robust hard frame made of plastic which ensure the tightness of the electrical panel.

Optional accessories

Phase monitoring sequence relay



Sequence phases relay mounted directly inside the electrical box and with the function of stopping the unit in the case where the phase sequence is not correct.

Min./Max. voltage relay



Min and max power supply relays mounted directly inside the electrical box and with the function of stopping the unit in case the power supply voltage is outside the tolerance range.

Anti-condensation heater with thermostat



System ables to ensure, inside the enclosure, temperature value properely above the dew point.

Power factor correction capacitors for compressors



Power factor compressor capacitor to keep the value of the $\cos \phi$ higher than 0,9.

Emergency power electronic expansion valve (Ultracap module)



Ultracap is a emergency power supply device for systems that use electronic expansion valves: this device ensures complete closing of the valves even when there are sudden mains power failures.

Device for measuring the electric energy consumed (Energy meter)



Measuring instrument dedicated to the detection of the main electrical parameters and the consumption of the connected loads. Energy meter records consumption and allows for a complete and detailed analysis.

Compressors' capacity steps – RSH Heads



The innovative RSH technology limits overheating and avoid the compressor to work unbalanced, ensuring optimized operation at partial loads even for long operation periods. One RSH head is standard for HE+ models.

Inverter



Inverter driven compressor allows to increase drastically the efficiency at part loads.

Standard for HEI version.

Control section

Otpional accessories

Remote control panel



Remote user terminal can be used to get all the readings and duplicate commands on a second display located at a distance and in more accessible site compared to the microprocessor on board the machine.

Connectivity











Water circuit section

Standard accessories

Differential pressure switch



Differential pressure switch with function to control the failure or reduced water flow.

Air vent valve (manual)



Manual air vent valve for discharging air from water circuit.

Electromechanical water flow switch (supplied separately)



Electromechanical flow switch with function to control the failure or reduced water flow.

Increased thermal insulation - 19 mm



Closed-cell thermal insulation with special thickness of 19 mm, which ensures an adequate protection against moisture from condensation. For Integrated version adequate insulation is provided also for the pump.

Optional accessories

Pressure relief valve (4,5 bar setting)



Pressure relief valve for hydraulic circuit. Default setting: 4.5 Bar

Automatic overpressure by-pass valve



Water circuit automatic overpressure by-pass valve.



Sacrificial anode installed inside the unit prevents the

Sacrificial anode installed inside the unit



evaporator corrosion by means cathodic protection.

High pressure water pump (increased pump pressure)



Pumping group consisting of high head centrifugal electric pump (peripheral for models 21 and 31), suitable for water circuits with high pressure drops.

Open expansion tank



Open expansion vessel for the containment of pressure variations in the water circuit. The fluid is in direct contact with the atmosphere.

Flanged connections



Flanged couplings for water connections. Available materials: carbon steel and AISI 304L steel (only for nonferrous circuits).

Electronic water flow switch (supplied separately)



Electronic flow switch with function to control the failure or reduced water flow.

Air vent valve (automatic)



Automatic air vent valve for discharging air from water

Non-ferrous water circuit



Water circuit made entirely from non-ferrous material.

Double water pump (stand-by) - Standard pressure



Pumping group consisting of two centrifugal electric pumps one in stand-by (peripheral for model 21), with standard pressure drops.

Closed expansion tank with automatic filling valve



Closed expansion vessel for the containment of pressure variations in the water circuit. The fluid is separated from the gas chamber by a diaphragm and the tank is equipped with an automatic filling valve.

Victoulic couplings



Victoulic couplings for water connections, which ensure easy start-up operations.



Safety section

Standard accessories

ATEX certified Gas detector



The unit is equipped with a stand-alone gas detection system. The sensor is ATEX certified and is pre-calibrated at the factory. The standard setting is set at 10% of LFL (Low Flammability Limit).

EC emergency fan



The centrifugal EC fan, managed by the microprocessor, is activated in case of R290 leakage and the ventilation lasts until the dilution of the refrigerant gas is completed. Additional accessories are available to convey the air discharge. Power supply: 230V-1ph-50Hz

Optional accessories

Double gas detector



The redundancy of the ATEX certified gas detector allows a higher level of security to be achieved.

Flanged connection for emergency fan air outlet



Flange to convey the air discharge in rectangular section air ducts. The flange is supplied separately.

Calibration kit



The R290 leak detector requires periodic maintenance: the calibration must be carried out according to the indications of the manual. The calibration kit, which allows calibration to be carried out quickly and easily, consists of:

- adapter;
- pressure regulator and pressure gauge;
- service tool

Emergency stop button



Safety switch for emergency stop installed on the electrical panel.

Sound alarm



The sound alarm, installed on the electrical panel, is activated in case of R290 leakage.

EK code	Transport and packaging	PE	PV
3517-010	Locking system for long distance transport	0	0
3517-036	Standard packaging (heat-shrinkable plastic film)	•	•
3517-037	Standard packaging with wooden base	0 *	-
3517-031	Packaging with wooden cage without base (fumigated wood)	0	-
3517-032	Packaging with wooden crate (non-fumigated wood)	0	0
3517-033	Packaging with wooden crate (fumigated wood)	0	0
3517-034	Packaging with wooden crate (fumigated wood) and barrier bag	0	0
3517-050	Unit charged with R290 (ADR transport, if required, must be managed the customer)	•	•
3517-060	Unit discharged - circuit under pressure with nitrogen charge	0	0

EK code	Anti-vibration mounts	PE	PV
3514-010	Anti-vibration spring mounts (supplied separately)	0 *	0
3514-020	Anti-vibration seismic spring mounts (supplied separately)	0 *	0
3514-030	Anti-vibration rubber mounts (supplied separately)	0	0
3514-040	Bell anti-vibration mounts (supplied separately)	0	0

EK code	Paint	PE	PV
3100-010	Standard painting, colour RAL 7035	•	•
3100-011	Standard painting, RAL on request	0	0

EK code	Mechanical protections	PE	PV
3113-010	Stainless steel panels (AISI 304)	0	-
3113-011	Aluminium panels	0	-
3113-020	Anti-intrusion grills - upper part	-	0
3113-021	Anti-intrusion grills - lower part	=	0
3113-030	Air heat exchangers protection panel	0	-
3113-040	Metal filter with micro-stretched mesh for air heat exchangers	0	0

EK code	Compressors casing	PE	PV
3114-010	Compressor(s) casing	=	•
3114-011	Compressor(s) casing LN	• for LN	• for LN
3114-012	Compressor(s) casing SL	• for SL	• for SL

EK code	Compressor	PE	PV
5010-030	Compressor crankcase oil heater	•	•
5010-060	Compressor oil pressure gauge	• *	•
5010-070	Compressor oil charge	•	•
5010-014	N°1 compressors capacity control step (RSH Head)	0	-
5010-015	N°2 compressors capacity control step (RSH Heads)	0 *	0
5010-016	N°3 compressors capacity control step (RSH Heads)	0 *	0
5010-017	N°4 compressors capacity control step (RSH Heads)	0 *	0

Codice EK	Exchanger treatments	PE	PV
=	Microchannel heat exchanger (made of aluminum)	-	•
5017-000	Finned pack heat exchanger Copper/Aluminum	•	0
5017-010	Finned pack heat exchanger Copper/Aluminum with cataphoresis painting treatment (E-Coating)	0	0
5017-020	Finned pack heat exchanger Copper/Copper	0	0
5017-040	Finned pack heat exchanger with Blygold® treatment	0	0
5017-050	Finned pack heat exchanger with Heresite P413 treatment	0	0
5017-060	Finned pack heat exchanger with Thermoguard treatment	0	0
5017-070	Microchannel heat exchanger with cataphoresis painting treatment (E-Coating)	-	0
5017-080	Microchannel heat exchanger with Blygold® treatment	-	0

EK code	Refrigerant circuit	PE	PV
5030-010	Pressure transducer (LP side - low pressure)	•	•
5030-011	Pressure transducer (HP side - high pressure)	•	•
5030-020	Safety pressure switch (LP side - low pressure)	0	0
5030-021	Safety pressure switch (HP side - high pressure)	•	•
5030-030	Glycerine pressure gauges (high and low pressure sides)	•	•
5030-041	Compressor suction valve	•	•
5030-042	Compressor discharge valve	•	•
5030-051	Electronic expansion valve	•	•
5030-060	Safety valve with conveyed discharge (HP side - high pressure) (1)	•*	-
5030-061	Safety valve with conveyed discharge (LP side - low pressure)	0	0
5030-062	Double safety valve with changeover valve and conveyed discharge (HP side - high pressure) (*)	0	•
5030-063	Double safety valve with changeover valve and conveyed discharge (LP side - low pressure)	0	0

EK code	Water circuit	PE	PV
6010-010	Differential pressure switch hydraulic circuit	•	•
6010-021	Electromechanical flow switch hydraulic circuit - Evaporator	•	•
6010-023	Electronic flow switch hydraulic circuit - Evaporator	0	0
6010-040	Manual air vent valve	•	•
6010-041	Automatic air vent valve	0	0
6010-050	Overpressure safety valve (set at 4.5 bar)	•*	•*
6010-061	Increased thermal insulation (19 mm thickness) for pipes, evaporator, pump and storage tank	•	•
6010-072	Water filter 350 microns (supplied separately)	0 *	=
6010-075	Water filter 800 microns (supplied separately)	0*	0
6010-080	Water pipes with electric resistance for antifreeze and thermostat	0	0
6010-090	Manual by-pass valve hydraulic circuit	0	0
6010-091	Automatic overpressure by-pass valve hydraulic circuit	0	0
6010-100	Victaulic® type water connections	0	0

 standard equipment 	optional	- not available
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^{*} Only avaiable for some model

EK code	Water circuit	PE	PV
6010-101	Flanges for water fittings (carbon steel A105 - PN10 EN 1092-1)	0	0
6010-102	Flanges for water fittings (AISI 304L - PN10 EN 1092-1) (2)	0	0
6010-103	Flanges and counter-flanges for water fittings (carbon steel A105 - PN10 EN 1092-1)	0	0
6010-104	Flanges and counter-flanges for water fittings (AISI 304L - PN10 EN 1092-1) (2)	0	0
6010-110	Open expansion tank	0	0
6010-112	Closed expansion tank without filling valve/pressure reducer	0	0
6010-131	Stainless steel pump	0	0
6010-132	Hydraulic circuit pipes in stainless steel	0	0
6010-133	Non-ferrous water circuit	0	0
6010-140	Sacrificial anode installed inside the unit	0	0
6010-150	Pump suction and discharge valve	0	0
6010-160	Buffer tank (800 liters) in carbon steel - Available only in combination with increased carpentry	-	0

EK c	code	Fans	PE	PV
-	-	EC Fans (brushless motor)	•	•

EK code	Safety devices	PE	PV
5033-011	Gas detector with separate electrical supply	•	•
5033-012	Double gas detector with separate electrical supply	0	0
5033-020	Calibration kit for refrigerant leak detector (supplied separately)	0	0
5033-032	Extraction pressing fan activated in case of loss of R290	•	•
5033-040	Rectangular flange for extraction fan's discharge side (supplied separately)	0	0
5033-041	Circular flange for extraction fan's discharge side (supplied separately)	0	0
5033-060	Audible alarm activated in case of R290 leak detection	0	0

EK code	Electric switchboard	PE	PV
-	Electrical panel installed outside the unit	•	•
8550-020	Anti-condensation heater with thermostat	0	0
8550-030	LED cabinet lighting	0	0
8550-040	Service socket outlet 230V AC - max. 150 Watt	0	0
8550-050	Emergency button	0	0
8550-060	Emergency power supply for electronic expansion valve (Ultracap module)	0	0
8550-070	Device for measuring the electric energy consumed (Energy meter)	0	0
8550-080	Electrical panel weather protection cover (50 mm projection)	•	•
8550-081	Electrical panel weather protection cover (300 mm projection - supplied separately)	-	0
8550-090	Device locking doors windproof cabinet	•	•
8550-110	Power supply without neutral	•	•
8550-120	Phase monitoring sequence relay (3)	0	0
8550-121	Minimum and maximum voltage control relay	0	0
8550-130	Power factor correction capacitors for compressors (3)	0	0
8550-150	Separate power supply for propane safety devices 230V/1ph/50Hz	•	•
8062-020	Part winding compressors (PWS)	•*	•

■ standard equipment	e	l
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^{*} Only avaiable for some model

EK code	Electronic control	PE	PV
-	Display with 3 digits and digital point	•	•
8065-011	Integrated Electronic Security module installed inside the electrical board	•	•
8065-020	Set point compensation by outside temperature	0	0
8065-030	ModBus® interface (RS 485) - optoisolated	0	0
8065-031	LonWorks® interface (RS 485)	0	0
8065-032	BACnet® MS/TP interface	0	0
8065-033	BACnet® TCP/IP interface	0	0
8065-040	Software updates via USB port	•	•
8065-041	Updates with transferring files through FTP	0	0
8065-051	"Cloud GATE" device for monitoring and remote management services - Ethernet connection	0	0
8065-053	"Cloud GATE" device for monitoring and remote management services - 4G connection	0	0
8065-054	Device for monitoring and remote management services - VPN connection	0	0
8065-062	Advanced electronic controller (c.pCO)	•	•
8065-071	Token for remote monitoring and service management "Cloud GATE" - Ethernet connection - AREA 1 (1 year) (4)	0	0
8065-073	Token for remote monitoring and service management "Cloud GATE" - 4G connection - AREA 1 (1 year) (4)	0	0
8065-080	Remote control panel (supplied separately)	0	0
8065-100	Operating hour meter	•	•
8065-112	Floating HP control	•	•
8065-121	Clock card - Alarm history	•	•
8065-130	Second set-point from digital input	0	0
8065-140	Remote On/Off digital input	•	•
8065-150	UNIT COLLECT Cascade unit management system (max. 6 units). Composed of c.pCO small + terminal + 2 NTC probes 12 mt.	0	0
8065-160	Automatic main disconnector with release coil	0 *	0

 standard equipment 	optional	- not available
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^{*} Only avaiable for some model

Euroklimat firmly believes that Customer Satisfaction is an indispensable factor for success. A priority objective to achieve this result is the constant improvement of our products, services and the relative production processes. For this reason, we work every day to create reliable products that can help our customers in their business. To achieve this goal, for every single unit we produce there is a lot of work. Therefore, we are pleased to tell you how Euroklimat's CRIO Medium Temperature Chillers are made.

1 Products design and development



Starting from market's needs we draft a concept which is then transformed into a product. The design involves many people of the company and results in the production of all the necessary documentation such as installation and operating manual, P&ID diagrams, wiring diagrams, 3D drawings and much more.

2 Supply chain



The materials procurement process is the result of a constant partnership with all our suppliers and a careful management of the timing. To do this we use modern manufacturing techniques such as MRP (Material Requirements Planning), trend analysis, which are some of the tools that feed the issuance of orders.

Euroklimat's supply chain ends with the reception of the materials and their quality check.

3 Mechanical assembly



The production of the units starts at the mechanical assembly station. Here the structures are assembled and the main components such as compressors and heat exchangers are positioned and fixed.

Water circuit



Then the production continues at the water circuit assembly station where all the components of this circuit are mounted.

How it is made

The whole production cycle is subjected to Euroklimat's Quality Management System, that complies with the international standard UNI EN ISO 9001:2015, ensuring quality and long-term reliability.

5 Refrigerant circuit



The next stop is at refrigerant circuit assembly station. Here the pipes of the circuit are assembled and brazed welded, which will connect the various elements of the unit, such as compressor(s), condenser(s), evaporator(s), etc. The refrigerant circuit is specifically designed in order to minimize load losses and to avoid capacity reduction. The circuit is entirely made of copper tube brazed with silver alloy and it is isolated on the suction part, in order to avoid condensation.

Electrical wiring



Once completed the refrigeration and water circuit, we perform the electrical wiring and the connection between electric board and compressor, fan, pump, etc. .Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. The installed components are identified by nameplates to better identify the application and the type of action.

7 Running test area



The production cycle draws to a close at the running test station. Here all models are individually tested in order to check correct operation, refrigerant charge and settings of microprocessor.

Once all the checks and inspections are completed and successfully passed, the units are disconnected from the testing station and moved to the last station: the shipping area.

Final inspection and packaging area



The last phase of the production cycle concerns the finishing of the units and the packaging for shipping. Here all the units are subjected to a final check and prepared for the shipping. If a special packaging has not been requested the standard one is realized with heat-shrinkable plastic film that cover the whole unit and protect it from dust, water and other atmospheric agents. Polystyrol corners are also foreseen in order to protect the unit from potential damages caused during transports. The units are then ready for transportation and final installation.

Websevice²

What do I receive with my order?

When you order an Euroklimat product, after the order confirmation, you get your user ID and password to access to WebService².

With the advent of information technology, there are several possibilities for communication and transmission of information in real-time.

Euroklimat wanted to exploit these instruments creating a website, which provides an important support to all customers: WebService².



WebService² - web portal 24/7

The simple and intuitive interface of the site allows you to "browse" quickly and easily reach the information you need. Planned and designed for the specific competences, "webservice" is a web portal that enables customers or support centres to access the detailed documentation for each single machine:

- » order confirmation, waybill and invoice
- » declaration of conformity
- » instructions manual
- » electric diagram
- » construction drawing
- » complete list of spare parts
- » ... and much much more.







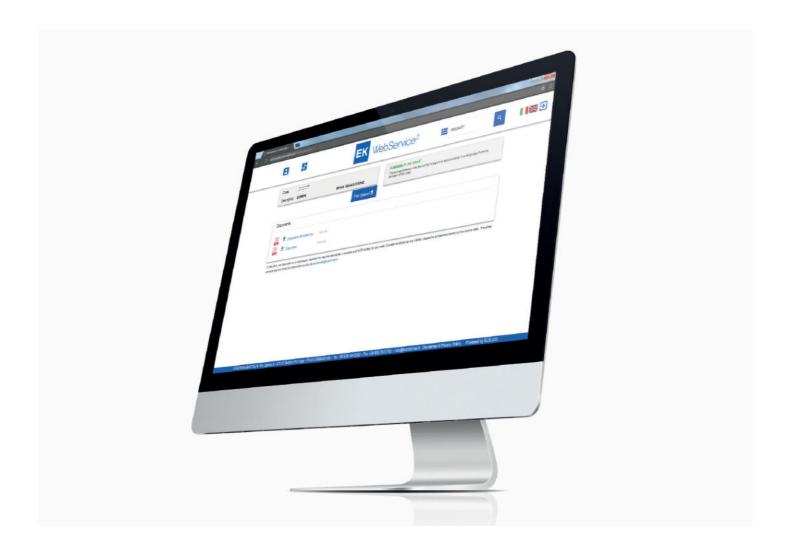
Websevice²



The information is consequently always available and upto-date, also when you are physically at the site of installation.

Thanks to the new features of WebService2, it is now possible to check in real time the availability of spare parts for each serial number, simply by accessing the service with your own web credentials.

The "mission" of Euroklimat is always to improve the service offered to customers.



R290 References

Customers who have chosen us







Nestlè Metro Roche Diagnostic







Coop Waitrose Danish Technological Institute







E.ON Kernkraft Carrefour Del Monte Foods







Colruyt STEF Clauger







John Lewis Birmingham Cityringen Copenhagen The Coca Cola Company

Some R290 Installations



























Our plants and quality management

Over 50 years of business

Since we set up business in 1963, the company's head offices have always been in Italy, near Milan. Today, our aim is to be a market leader in chillers with natural refrigerant (propane): by doing this, we are helping the industry to become more efficient, preserving natural resources and protecting the environment.

Organization in Italy

At our Italian plant spread over an area of 6,000 square metres, with a work force of 60 people, Euroklimat designs and produces refrigeration units, heat pumps and precision air conditioners that can be used both in industrial processes and traditional comfort applications.

Infinite quality

Euroklimat firmly believes that Customer Satisfaction is an indispensable factor for success. A priority objective to achieve this result is the constant improvement of our products, services and the relative production processes.

This objective means involving all of the company's resources with planned, systematic activities for Quality; for this reason, our system complies with the international standard UNI EN ISO 9001:2015.

Organization in China

Our plant covers a surface of approximately 100,000 square metres, with over 1,000 people and includes a large test chamber and a sophisticated R&D laboratory, in addition to real production departments, where the performance of the units is measured before being placed on the market.



COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =



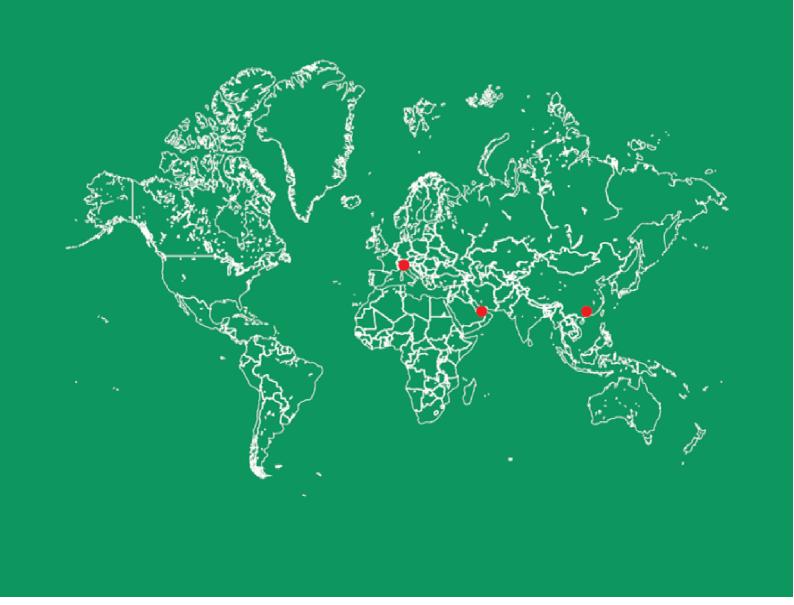














EUROKLIMAT SpA

Factory Italy

Via Liguria, 8 27010 Siziano (PV) Italy

T: +39 038 2610282 E: in fo@euroklimat.it

www.euroklimat.it

Euroklimat Co., Ltd

Factory China

Euroklimat Industrial Park Huangjiang, Dongguan, Guangdong, China

T: +86 0769 8366 0888 ext. 8260 E: in fo@euroklimat.it

www.euroklimat.com.cn

EUROKLIMAT FZCO

Office Dubai

High Bay Office 24, Dubai Silcon Oasis, UAE PO Box 28178, Dubai, UAE

T: +971 4 3423152 E: info@ek-me.com

www.euroklimatme.com

