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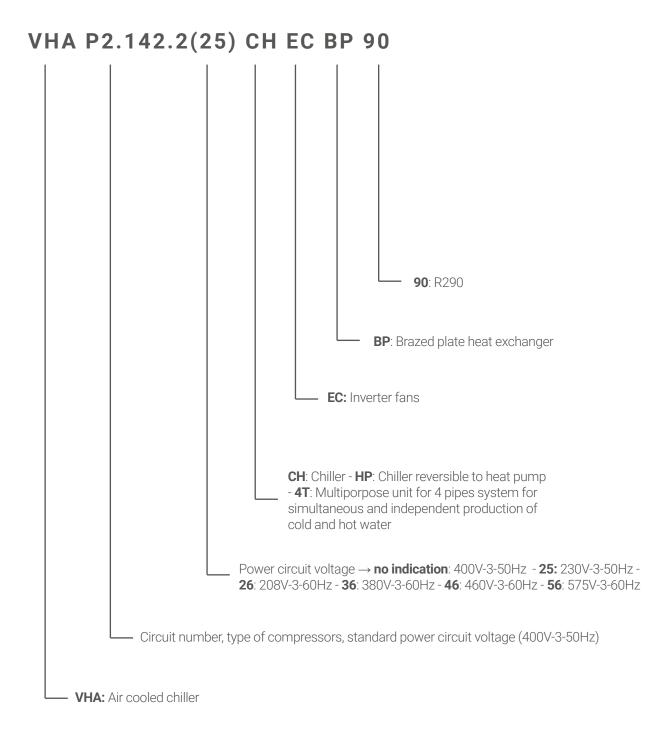
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Name description

Here you can see an example about nomencla- and EC fans is composed of the following bawith semi hermetic reciprocating compressors, R290 refrigerant gas, a brazed plate evaporator

ture of our units. The name of an air cooled chiller sic abbreviations. All specifications and options are subject to change without notice from the manufacturer.



Available options

Here you can see an example about available options of our units. If options will be present they are showed under the line of unit's name description.

HR LN EP1 CP1 V T FL RS485 AV1 SP SP: Special version AV1: Anti-vibration supports - AV2: Antivibration supports high performance RS485: Modbus serial card - BAC: Bacnet interface -LON: LonWorks interface - WEB: Web management FL: Flowswitch - MR: Refrigerant gauges - MH: Water gauges - RIF: Power factor correction system - LSC: Softstarter - TD7: Touch screen display 7" - TD10: Touch screen display 10" - PN: Special painting T: Inertia tank **V**: Variable speed pump (inverter) P1: Single pump low prevalence - P2: Double pumps low prevalence Condenser - P3: Single pump medium prevalence - P4: Double pumps medium prevalence - P5: Single pump high prevalence (on demand) - P6: Dou-Evaporator ble pumps high prevalence (on demand) **LNX:** Compressors housing - **XLNX:** Compressors housing with noise insulation

HR: Partial recovery (desuperheater) - HRT: Total recovery



Compressors

Compressors are reciprocating semi-hermetic type specially special designed for applications with R290.

The main technical features are:

- 4 or 6 cylinders depending on the size
- Mechanics optimized for the use of hydrocarbons
- Load special oil
- Equipotential connection of all electrical components
- Electrical connection box
- Oil heater
- PTC probes for discharge and engine temperature control
- Oil differential pressure switch
- Electronic control unit for the main functions of correct operation
- Oil level sensor in the case of compressors in parallel on the same circuit
- · Drive via inverter in the case of a single compressor unit
- Partialization ON / OFF in the case of two compressors in parallel on the same circuit



Microchannel / Finned coils

The exchangers for disposal toward the external air source are built to withstand the stresses of pressure and thermal shocks caused by the refrigeration cycle and are perfectly compatible with R290 refrigerant.

Chillers: microchannel batteries, painted with epoxy powders, with very low internal volume to minimize the refrigerant charge, and with high heat exchange performaces to maximize the cooling cycle efficiency.

Reversible heat pump chillers and multi-purpose units: finned coils with internally lined copper pipes and aluminum fins with hydrophilic treatment to maximize heat exchange and drain condensate that forms in the fins, in addition to ensuring a long life against corrosion.

In the case of particularly corrosive atmospheres it is possible to protect the external surface of the batteries with special treatments.





Inverter

Inverters are foreseen for the single-compressor units to maximize the modulation capacity and the average seasonal efficiency of the unit.

Main features are:

- Generous dimensioning to guarantee the starting of the compressor
- High switching frequencies for the maximum duration of the driven motor
- Built-in EMC filter which, together with the use of special cables, reduce to minimum the electromagnetic emissions
- Electronic control of the maximum current absorbed by the motor



Refrigerant circuit

The refrigeration circuit is completely wired, its connections are made with copper pipes and includes: liquid shut-off valve and solenoid valve, hermetic filter drier, liquid and humidity indicator, electronic thermostatic valve, safety gauges on the high pressure transducer side and low pressure, pressure ports for filling and emptying the refrigerant. In the compressor suction there is a superheater which cools the liquid before reaching the electronic valve.

A liquid receiver allows the correct operation of the circuits in the various configurations of heat pumps and multipurpose units, while a special liquid accumulator protects the compressor against flooding by liquid refrigerant during breaks and/or in the inversions of the cycle for defrosting or in the changes of the multipurpose circuits.

In the case of units with two compressors per circuit there is an oil separator on the common discharge line of the compressors and two solenoid valves complete the oil supply circuit to the individual compressors.

The low pressure side is thermal insulated by a closed cell anticondensate mattress. The safety valves have the drains all conveyed in a single pipe which the user can then easily connect to a conveying pipe to a safe emission point.



Hidronic kit

Modules supplied separately from the units, low/medium/high head version, single or double pump both on the evaporator side and on the condenser side, on/off pumps or inverter with automatic speed adjustment to guarantee the prevalence required by the circuits.

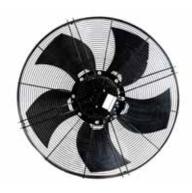
All solutions maintain the mandatory constant flow to the chiller heat exchangers. Inertial tanks can be supplied with the volumes suitable for the chillers supplied.

The new Pump energy saving function is available, which allows the pumps to be temporarily stopped when all the primary circuit loads are at zero for a certain time. The unit is able to control remote pumps where not supplied together



Switchboard

The switchboard is completely wired inside a watertight steel box IP54, produced according to the strictest European norms. Power circuit designed for the rated supply indicated in the datasheet, with fuse protection, counters, thermal relays for each compressor. The control circuit includes all control devices, including the thermostatic compressor insertion system. All switchboards are equipped with an IEC socket for service supply on the field. Moreover, the multi-compressor unit is provided with a thermostat-run ventilation and heating system.



Fans

The fans are axial type with inclined blades and directly coupled EC type motor to obtain the maximum average seasonal efficiency, a robust safety grill in galvanized and painted steel completes the equipment.

The electronic control allows a perfect modulation of the fan speed from zero to the maximum speed.











Brazed plate heat exchangers

They are specifically designed for high efficiency chillers and heat pumps. Perfectly compatible with the R290, thanks to their compactness and to the optimized design of the profile of the plates as well as to a generous dimensioning, they guarantee very high performances to the refrigeration cycle excellent drainage of the oil from their inside, as well as to reduced pressure losses on the hydronic circuit side reducing to a minimum the energy consumption of the always present water circulation.

Flammable Gas Sensor

The compressor compartment is monitored by a specially designed sensor capable of monitoring the concentration of R290 in the closed volume. Three levels of intervention guarantee maximum system safety by fan start-up for ventilation of the compressor compartment, machine shutdown and finally the possibility of controlling the opening of a remote switch that turns off the unit in the event of excessively refrigerant leakage that could generate an atmosphere potentially explosive.

Electronic controller

Electronic board for unit management: inlet/outlet water temperatures, cooling and/or heating capacity adjustment, working hours of each compressor, high/low pressure and maximum flow temperature alarms, high and low superheat alarms, condensing pressure regulation/evaporation, evaporator antifreeze protection through double control of the water flow and the minimum flow temperature, self-adaptive defrost (only reversible heat pumps and multi-function units), ON/OFF pump / s control, inverter constant flow pump / s control, pump shut-down function/and with still compressors, and other....

Remote monitoring option

System for remote monitoring via the Internet of chiller operating data. This innovative tool allows you to remotely view how the machine is working, fine-tune the operating parameters and customize them to the specific user system, make software updates when needed.



ProChill

Air cooled water chiller with semi-hermetic compressors and axial fans. For outdoor installation.



COOLING USER PLANT

- Reciprocating compressors
- Dry expansion BPHE evaporator
- EC axial fans 800 mm

General Description

The air-cooled ProSeries chillers are assembled on a self-supporting metal screwed structure, painted with epoxy powder suitably treated for outdoor installation.

All units are supplied completely wired and ready to be connected to the user's plant.

Before delivery, every machine is submitted to a performance test according to the strictest norms in force, with intervention tests of all the safety systems and components installed.

Each unit is available with low-speed fans and compressor sound insulation kit for installation in areas where noise emission must be extremely limited.

Compressors and components are specially manufactured for applications with R290.

The compressor cabinet is equipped by a leakage gas sensor and an extracting fan to guarantee maximum safety of the system.

All safety valve outlets are conveyed to a single pipe, and the user can easily connect it to a safe ejection point.

The hydronic kits are made up of constant water flow pumps and inertial tank, into splitted boxes.

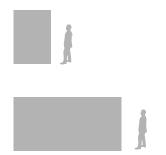
For the correct operation of the unit it is mandatory to equip the primary circuit with the necessary inertial water volumes.

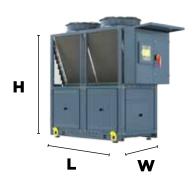
Typical units dimensions

Length: from 1700 to 4850 mm Width: from 1050 to 2100 mm

Height: 2430 mm

Operating Weight: from 820 kg to 4000 kg







ProChill

Air cooled water chiller with semi-hermetic compressors, axial fans, for outdoor installation

SIZE		P1.59.2	P1.71.2	P1.84.2	P1.103.2	P1.130.2	P1.142.2	P1.168.2	P1.196.2		
CHILLER PERFORMANCE											
Nominal cooling capacity (1)	kW	49,3	58,8	70,3	80,2	95,3	101,8	120,7	135,3		
Nominal power input (1)	kW	15,5	18,8	20,7	24,8	29,8	32,6	39,0	43,1		
E.E.R.	kW/kW	3,19	3,13	3,39	3,24	3,19	3,13	3,10	3,14		
SEER (EN 14511-2018) (2)		For more	For more details on Seasonal efficiency indicators ask to manufacturer or see calculation by Hecoselectool								
Sound Pressure Level at 10 m (3)	dB(A)	52,8	56,8	56,2	56,6	55,5	57,7	55,2	57,6		
Sound Pressure Level at 10 m (option LN unit) (3)	dB(A)	47,4	51,4	50,6	50,7	50,3	51,1	53,3	52,2		
MAIN COMPONENTS AND EL	ECTRICA	L DATA									
Compressors type	Туре	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating		
Compressors number	n°	1	1	1	1	2	2	2	2		
Circuit number	n°	1	1	1	1	1	1	1	1		
Condenser coil type (4)	Туре	F	F	F	F	F	F	F	F		
Fans number	n°	1	1	2	2	2	2	2	3		
Evaporator type (5)	Туре	BPHE	BPHE	BPHE	ВРНЕ	ВРНЕ	BPHE	BPHE	BPHE		
Refrigerant charge	kg	3,4	3,6	4,4	5,2	5,5	6,0	6,4	8,9		
Power circuit voltage	V/Ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50		
Total running current	А	26,3	32,0	35,2	42,1	50,7	55,4	66,2	73,2		
Total max current	А	32,8	41,9	47,6	50,6	73,2	80,8	94,6	95,2		
Max starting current	А	44	54	64	68	210	218	236	115		
DIMENSIONS											
Length with cabinet (6)	mm	1700	1700	2750	2750	2750	2750	2750	3800		
Width (6)	mm	1050	1050	1050	1050	1050	1050	1050	1050		
Height	mm	2430	2430	2430	2430	2430	2430	2430	2430		
Shipping weight (7)	kg	800	815	1071	1099	1341	1362	1377	1673		
Operating weight (7)	kg	822	837	1097	1126	1379	1399	1415	1721		

- (1) Nominal data for inlet/outlet water temperature 12/7 °C; Outdoor air 35 °C
- (2) Index valid only for units with EC fans option. For more details on Seasonal efficiency indicators ask to manufacturer or see calculation by Hecoselectool
- (3) Sound pressure on free field reflecting surface (directivity fact. 2) according to ISO 3744
- (4) M: microchannels; F: finned coil; R: Remote condenser
- (5) BPHE: Brazed plate heat exchanger; S&T: Shell and tube exchanger
- (6) Excluded footprint of hydronic connections and lifting brackets
- (7) LN option

 $\ensuremath{\mathsf{All}}$ specifications are subject to change without notice from the manufacturer

ProChill

Air cooled water chiller with semi-hermetic compressors, axial fans, for outdoor installation

P1.229.2	P1.252.2	P2.260.2	P2.284.2	P2.336.2	P2.374.2	P2.393.2	P2.458.2	P2.518.2	P2.560.2	P2.616.2	
154,9	172,9	191,1	204,2	238,0	264,0	278,7	307,6	345,5	365,0	402,7	
51,1	57,5	60,0	65,4	77,0	86,6	86,3	101,5	116,6	119,4	133,7	
3,03	3,01	3,18	3,12	3,09	3,05	3,23	3,03	2,96	3,06	3,01	
	For more details on Seasonal efficiency indicators ask to manufacturer or see calculation by Hecoselectool										
59,4	59,7	58,5	60,7	58,2	61,9	62,6	65,1	67,1	65,4	63,8	
55,5	55,6	53,3	54,2	56,3	57,1	56,0	57,3	60,3	58,0	59,8	
reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	
2	2	4	4	4	4	4	4	4	4	4	
1	1	2	2	2	2	2	2	2	2	2	
F	F	F	F	F	F	F	F	F	F	F	
3	3	4	4	4	4	6	6	6	8	8	
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	ВРНЕ	BPHE	BPHE	BPHE	BPHE	
9,5	9,2	11,7	12,6	13,5	14,8	17,7	19,7	20,7	25,1	26,0	
400-3-50	230-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	
86,8	97,7	102,0	111,2	130,9	147,1	146,6	172,6	198,2	203,0	227,3	
117,9	131,9	146,4	161,6	189,2	195,2	195,8	226,8	269,8	282,4	324,8	
137	151	287	302	331	334	345	336	394	419	441	
3800	3800	4850	4850	4850	4850	3800	3800	3800	4850	4850	
1050	1050	1050	1050	1050	1050	2110	2110	2110	2110	2110	
2430	2430	2430	2430	2430	2430	2430	2430	2430	2430	2430	
1738	1772	2468	2529	2549	2602	2916	3116	3249	3757	3770	
1786	1809	2560	2621	2652	2722	3042	3250	3383	3937	3973	



Air cooled water chiller reversible to heat pump, with semi-hermetic compressors and axial fans.

For outdoor installation



COOLING USER PLANT



HEATING USER PLANT

- Reciprocating compressors
- Dry expansion BPHE reversible evaporator
- EC axial fans 800 mm

General Description

The 2Pro air-cooled chillers reversible to heat pump are assembled on a self-supporting metal screwed structure, painted with epoxy powder suitably treated for outdoor installation.

All units are supplied completely wired and ready to be connected to the user's plant.

Prior to delivery every machine is submitted to a performance test according to the strictest norms in force, with intervention tests of all the safety systems and components installed.

Each unit is available with low-speed fans and compressor sound insulation kit for installation in areas where noise emission must be extremely limited.

Large operative range of outdoor air temperature (-10 °C up to 45 °C in heating and cooling mode), are used on two-pipe seasonal switching systems, during winter produces hot water up to 55 °C, and during summer produces cold water.

Compressors and main components are specially manufactured for applications with R290.

The compressor cabinet is equipped by a leakage gas sensor and an extracting fan to guarantee maximum safety of the system.

All safety valve outlets are conveyed to a single pipe, and the user can easily connect it to a safe ejection point.

Advanced electronic defrost control with optimization of the number of cycles depending on the climatic conditions and the actual operating time of the compressors.

The hydronic kits are made up of constant water flow pumps and inertial tank, into splitted boxes.

For the correct operation of the unit it is mandatory to equip the primary circuit with the necessary inertial water volumes

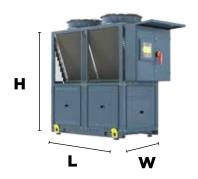
Typical units dimensions

Length: from 1700 to 4850 mm Width: from 1050 to 2100 mm

Height: 2430 mm

Operating Weight: from 820 kg to 4000 kg







Air cooled water chiller reversible to heat pump, with semi-hermetic compressors and axial fans. For outdoor installation

SIZE		P1.59.2	P1.71.2	P1.84.2	P1.103.2	P1.130.2	P1.142.2	P1.168.2	P1.196.2		
CHILLER PERFORMANCE											
Nominal cooling capacity (1)	kW	48,9	59,8	67,7	78,7	94,8	101,2	115,6	136,2		
Nominal power input (1)	kW	16,3	18,3	21,4	25,9	31,6	34,4	39,5	45,4		
E.E.R.	kW/kW	3,00	3,26	3,16	3,03	3,00	2,94	2,93	3,00		
SEER (EN 14511-2018) (2)		For more	For more details on Seasonal efficiency indicators ask to manufacturer or see calculation by Hecoselectool								
Nominal heating capacity (8)	kW	51,6	63,4	72,4	85,0	102,9	109,7	127,4	144,3		
Nominal power input (8)	kW	14,9	17,2	19,6	23,5	28,7	30,9	34,8	42,2		
C.O.P.	kW/kW	3,46	3,69	3,70	3,61	3,59	3,55	3,66	3,42		
SCOP (EN 14511-2018) (2)		For more	details on Sea	sonal efficienc	y indicators asl	k to manufactu	rer or see calc	ulation by Heco	selectool		
Sound Pressure Level at 10 m (3)	dB(A)	54,0	56,6	56,2	56,6	56,8	58,5	53,9	58,8		
Sound Pressure Level at 10 m (option LN unit) (3)	dB(A)	50,6	50,7	50,6	50,7	53,6	54,0	51,2	55,4		
MAIN COMPONENTS AND EL	ECTRICA	L DATA									
Compressors type	Туре	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating		
Compressors number	n°	1	1	1	1	2	2	2	2		
Circuit number	n°	1	1	1	1	1	1	1	1		
Condenser coil type (4)	Туре	F	F	F	F	F	F	F	F		
Fans number	n°	1	2	2	2	2	2	3	3		
Evaporator type (5)	Туре	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE		
Refrigerant charge	kg	6,5	8,0	8,8	11,7	11,9	13,1	14,4	19,2		
Power circuit voltage	V/Ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50		
Total running current	А	27,7	31,1	36,4	44,1	53,7	58,5	67,1	77,1		
Total max current	А	34,3	42,2	47,6	50,6	76,2	83,8	93,4	99,7		
Max starting current	А	44	57	64	68	210	218	240	115		
DIMENSIONS		,		,			,	,			
Length with cabinet (6)	mm	1700	2750	2750	2750	2750	2750	3800	3800		
Width (6)	mm	1050	1050	1050	1050	1050	1050	1050	1050		
Height	mm	2430	2430	2430	2430	2430	2430	2430	2430		
Shipping weight (7)	kg	920	1179	1204	1233	1531	1557	1871	1901		
Operating weight (7)	kg	943	1201	1231	1260	1569	1594	1910	1950		

⁽¹⁾ Nominal data for inlet/outlet water temperature 12/7 °C; Outdoor air 35 °C

⁽²⁾ Index valid only for units with EC fans option. For more details on Seasonal efficiency indicators ask to manufacturer or see calculation by Hecoselectool

⁽³⁾ Sound pressure on free field reflecting surface (directivity fact. 2) according to ISO 3744

⁽⁴⁾ M: microchannels; F: finned coil; R: Remote condenser

⁽⁵⁾ BPHE: Brazed plate heat exchanger; S&T: Shell and tube exchanger

Air cooled water chiller reversible to heat pump, with semi-hermetic compressors and axial fans. For outdoor installation

P1.229.2	P2.248.2	P2.260.2	P2.284.2	P2.336.2	P2.374.2	P2.393.2	P2.458.2	P2.518.2	P2.560.2	P2.616.2
154,0	174,0	183,0	200,6	228,2	260,0	273,5	303,9	332,4	357,3	386,1
53,4	59,2	62,3	69,2	78,4	85,6	91,5	107,5	118,6	126,8	141,0
2,89	2,94	2,94	2,90	2,91	3,04	2,99	2,83	2,80	2,82	2,74
	Fo	or more details	on Seasonal e	fficiency indica	tors ask to ma	nufacturer or s	ee calculation l	by Hecoselecto	ool	
161,8	193,8	201,8	221,1	251,9	280,2	294,9	335,2	369,6	397,4	429,0
47,8	53,3	55,8	63,5	70,5	76,9	84,3	96,3	104,0	116,9	126,8
3,39	3,63	3,62	3,48	3,58	3,64	3,50	3,48	3,55	3,40	3,38
	Fo	or more details	on Seasonal e	fficiency indica	tors ask to ma	nufacturer or s	ee calculation I	by Hecoselecto	ool	
59,4	56,9	58,5	61,5	56,9	61,4	63,4	65,6	66,9	66,0	63,8
55,5	52,8	53,3	57,0	54,2	55,5	58,8	59,6	58,9	60,5	59,8
	I		I	I	I	I	I		I	I
reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocatin
2	4	4	4	4	4	4	4	4	4	4
1	2	2	2	2	2	2	2	2	2	2
F	F	F	F	F	F	F	F	F	F	F
3	4	4	4	6	6	6	6	8	8	8
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	ВРНЕ	BPHE	BPHE
20,6	23,0	24,8	27,1	29,3	37,7	38,4	42,3	46,8	53,8	56,1
400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
90,7	100,6	105,9	117,6	133,2	145,5	155,5	182,8	201,6	215,6	239,7
117,9	138,8	146,4	167,6	186,8	192,8	204,8	235,8	264,4	294,4	324,8
137	279	287	302	339	342	345	336	401	419	441
3800	4850	4850	4850	3800	3800	3800	3800	4850	4850	4850
1050	1050	1050	1050	2110	2110	2110	2110	2110	2110	2110
2430	2430	2430	2430	2430	2430	2430	2430	2430	2430	2430
2000	2818	2868	2919	3284	3380	3364	3606	4267	4338	4392
2049	2898	2960	3011	3394	3506	3491	3740	4404	4518	4595

⁽⁶⁾ Excluded footprint of hydronic connections and lifting brackets (7) LN option



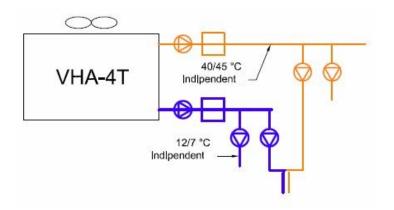
⁽⁸⁾ Nominal data for inlet/outlet water temperature 40/45 °C; outdoor air 7 °C - RH 87% All specifications are subject to change without notice from the manufacturer

Air-cooled multipurpose unit for 4 pipes system, with simultaneous and independent production of cold and hot water, with semi-hermetic compressors and axial fans.

For outdoor installation.



HEATING
USER PLANT
COOLING
USER PLANT



Available for (including but not limited to):

- 4-pipe fan-coils
- · 2-pipe fan-coils with seasonal switching
- AHU with double coil (hot/cold)
- Domestic hot water
- · Other applications

NOTES:

Highly recommended: water storage 10-30 l/kW for hot circuit

- Reciprocating compressors
- Dry expansion BPHE evaporator
- BPHF condenser
- EC axial fans 800 mm

General Description

The 4Pro air cooled multipurpose units are assembled on a self-supporting metal screwed structure, painted with epoxy powder suitably treated for outdoor installation.

All units are supplied completely wired and ready to be connected to the user's plant. Prior to delivery every machine is submitted to a performance test according to the strictest norms in force, with intervention tests of all the safety systems and components installed.

Each unit is available with low-speed fans and compressor sound insulation kit for installation in areas where noise emission must be extremely limited.

With large operative range of outdoor air temperature (-10 °C up to 45 °C all year round), multipurpose units are machines that produce cold and hot water both at the same time but proportionally independent of each other

The application are on four-pipe systems where heating and cooling are needed all year round on each circuit.

Unlike total recovery chillers, the heating capacity is totally independently from cooling capacity, so that they can meet all specific demands for the hot circuit and the cold circuit.

Compressors and components are specially manufactured for applications with R290.

The compressor cabinet is equipped by a leakage gas sensor and an extracting fan to guarantee maximum safety of the system.

All safety valve outlets are conveyed to a single pipe, and the user can easy connect it to an safe ejection point.

Advanced electronic defrost control with optimization of the number of cycles depending on the climatic conditions and the actual operating time of the compressors.

The hydronic kits are made up of constant water flow pumps and inertial tank, into splitted boxes. For the correct operation of the unit it is mandatory to equip the primary circuit with the necessary inertial water volumes.

Examples of complex types of circuits that a multi-purpose 4T unit can satisfy.

Note that there is always a primary circuit with constant flow, while the secondary circuits can be managed indifferently with constant or variable flow.

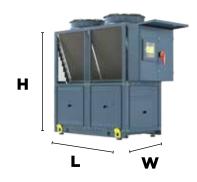
Typical units dimensions

Length: from 1700 to 4850 mm Width: from 1050 to 2100 mm

Height: 2430 mm

Operating Weight: from 820 kg to 4000 kg







Air-cooled multipurpose unit for 4 pipes system, with simultaneous and independent production of cold and hot water, with semi-hermetic compressors and axial fans. For outdoor installation.

SIZE		P1.59.2	P1.71.2	P1.84.2	P1.103.2	P1.130.2	P1.142.2	P1.168.2	P1.196.2
CHILLER PERFORMANCE									
Nominal cooling capacity (1)	kW	48,4	59,5	67,3	77,7	93,5	101,8	116,0	135,9
Nominal power input (1)	kW	16,4	18,4	21,6	25,6	31,5	34,8	40,0	45,9
E.E.R.	kW/kW	2,96	3,23	3,12	3,04	2,97	2,93	2,90	2,96
Nominal heating capacity (8)	kW	52,3	77,9	88,9	103,2	125,0	136,6	156,0	181,8
Nominal power input (8)	kW	14,7	17,0	19,1	23,0	27,9	30,8	34,3	41,5
C.O.P.	kW/kW	3,57	4,60	4,65	4,48	4,48	4,43	4,54	4,38
SCOP (EN 14511-2018) (2)		For more	details on Sea	sonal efficienc	y indicators asl	k to manufactu	rer or see calc	ulation by Heco	selectool
Cooling capacity at cooling+heating mode (9)	kW	50,97	60,75	70,52	80,27	99,31	108,60	124,90	138,40
Heating capacity at cooling+heating mode (9)	kW	65,4	78,0	89,9	103,9	127,6	139,3	160,3	179,1
Power input at cooling+heating mode	kW	14,6	17,4	19,6	24,0	28,7	31,3	32,3	41,5
T.E.R.	kW/kW	7,99	7,95	8,18	7,68	7,91	7,93	8,84	7,65
Sound Pressure Level at 10 m (3)	dB(A)	54,0	56,6	56,2	56,6	56,8	58,5	53,9	58,8
Sound Pressure Level at 10 m (option LN unit) (3)	dB(A)	50,6	50,7	50,6	50,7	53,6	54,0	51,2	55,4
MAIN COMPONENTS AND ELE	CTRICA	L DATA							
Compressors type	Туре	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating
Compressors number	n°	1	1	1	1	2	2	2	2
Circuit number	n°	1	1	1	1	1	1	1	1
Condenser coil type (4)	Туре	F	F	F	F	F	F	F	F
Fans number	n°	1	2	2	2	2	2	3	3
Evaporator type (5)	Туре	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
Refrigerant charge	kg	7,6	9,2	10,1	13,5	13,7	15,1	16,5	22,1
Power circuit voltage	V/Ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
Total running current	А	27,8	31,3	36,7	43,5	53,5	59,1	68,0	78,0
Total max current	А	34,3	42,2	47,6	50,6	76,2	83,8	93,4	99,7
Max starting current	А	44	57	64	68	210	218	240	115
DIMENSIONS									
Length with cabinet (6)	mm	1700	2750	2750	2750	2750	2750	3800	3800
Width (6)	mm	1050	1050	1050	1050	1050	1050	1050	1050
Height	mm	2430	2430	2430	2430	2430	2430	2430	2430
Shipping weight (7)	kg	1024	1289	1322	1354	1721	1764	2069	2121
Operating weight (7)	kg	1047	1312	1349	1380	1758	1804	2108	2170

- (1) Nominal data for inlet/outlet water temperature 12/7 °C; Outdoor air 35 °C
- (2) Index valid only for units with EC fans option. For more details on Seasonal efficiency indicators ask to manufacturer or see calculation by Hecoselectool
- (3) Sound pressure on free field reflecting surface (directivity fact. 2) according to ISO 3744
- (4) M: microchannels; F: finned coil; R: Remote condenser
- (5) BPHE: Brazed plate heat exchanger; S&T: Shell and tube exchanger

Air-cooled multipurpose unit for 4 pipes system, with simultaneous and independent production of cold and hot water, with semi-hermetic compressors and axial fans. For outdoor installation.

P1.229.2	P2.248.2	P2.260.2	P2.284.2	P2.336.2	P2.374.2	P2.393.2	P2.458.2	P2.518.2	P2.560.2	P2.616.2
153,6	175,3	183,0	200,6	228,2	260,0	273,5	303,9	332,4	358,6	386,5
54,0	59,3	62,3	69,2	78,6	85,9	91,5	107,5	118,6	129,1	140,9
2,84	2,96	2,94	2,90	2,90	3,03	2,99	2,83	2,80	2,78	2,74
207,6	234,6	245,3	269,8	306,8	345,9	365,0	411,4	451,0	487,7	527,4
47,1	53,1	55,2	62,2	67,7	75,2	83,2	94,9	102,3	116,3	125,4
4,41	4,42	4,45	4,34	4,53	4,60	4,39	4,33	4,41	4,19	4,21
	Fo	or more details	on Seasonal e	fficiency indica	tors ask to ma	nufacturer or s	ee calculation l	oy Hecoselecto	ool	
159,80	184,80	194,00	211,70	243,80	274,00	282,70	320,20	352,00	370,50	404,50
207,5	239,5	251,0	273,0	313,0	351,1	363,3	413,6	457,2	481,2	526,6
48,8	55,9	58,5	62,6	70,7	78,8	82,7	95,8	107,9	113,6	124,6
7,53	7,59	7,61	7,74	7,87	7,93	7,81	7,66	7,50	7,50	7,47
59,4	56,9	58,5	61,5	56,9	61,4	63,4	65,6	66,9	66,0	63,8
55,5	52,8	53,3	57,0	54,2	55,5	58,8	59,6	58,9	60,5	59,8
			,	,	,				,	
reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating	reciprocating
2	4	4	4	4	4	4	4	4	4	4
1	2	2	2	2	2	2	2	2	2	2
F	F	F	F	F	F	F	F	F	F	F
3	4	4	4	6	6	6	6	8	8	8
BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE	BPHE
23,6	26,4	28,3	31,0	33,4	43,1	44,0	48,2	53,4	61,4	64,0
400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
91,8	100,8	105,9	117,6	133,6	146,0	155,5	182,8	201,6	219,5	239,5
117,9	138,8	146,4	167,6	186,8	192,8	204,8	235,8	264,4	294,4	324,8
137	279	287	302	339	342	345	336	401	419	441
3800	4850	4850	4850	3800	4850	4850	4850	4850	4850	4850
1050	1050	1050	1050	2110	2110	2110	2110	2110	2110	2110
2430	2430	2430	2430	2430	2430	2430	2430	2430	2430	2430
2234	3186	3264	3322	3692	4081	4067	4376	4830	4951	5030
2283	3266	3356	3413	3802	4209	4195	4512	4967	5131	5233

⁽⁶⁾ Excluded footprint of hydronic connections and lifting brackets

⁽⁷⁾ LN option
(8) Nominal data for inlet/outlet water temperature 40/45 °C; outdoor air 7 °C - RH 87%

⁽⁹⁾ Nominal data for cold water inlet/outlet 12/7 °C, hot water inlet/outlet 40/45 °C All specifications are subject to change without notice from the manufacturer



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