

HPE 30 INDUSTRIALE

Monoblock inverter heat pump with integrated inertial storage tank that powers a "air heater" terminal for summer and winter air conditioning of industrial users



ECO-FRIENDLY
GAS



RENEWABLE
ENERGY



CONTROLLER
STANDARD



CIRCULATOR
INVERTER



DOUBLE-STAGE
COMPRESSOR



CONDITIONING



HEATING



HOT WATER
DOMESTIC

Technical and construction features

The HPE 30 INDUSTRIAL system consists of a monoblock heat pump unit with integrated inertial storage tank and a hot/cold unit heater with a 4-row coil. This product is designed for summer and winter air conditioning of industrial, commercial, and service sector buildings.

This highly efficient system can produce domestic hot water from a renewable source using an external boiler. The HPE 30 INDUSTRIAL system is composed of the following technological elements:

- Monoblock heat pump model HPE R32 30 inverter, equipped with an advanced permanent magnet compressor to guarantee quality, reliability, high performance at partial loads and particularly silent operation and equipped with full-DC electronic fans with a frequency conversion system, built to drastically reduce energy consumption (over 30%);
- Inertial accumulation of technical water of 140 litres (standard) high degree of thermal insulation (50 mm thick closed-cell extruded polystyrene foam), with integrated 2 kW anti-freeze electric resistance and additional 8-litre expansion vessel;
- Terminal unit of the "air heater" type system model Aeroclima STYLE 15, composed of a four-row coil and two axial fans to ensure suitable internal air conditioning of industrial premises.

This innovative technical system solution can be combined with our advanced B-TOUCH control (optional), ensuring maximum environmental comfort and energy efficiency.

The "SMART GEST" B-TOUCH electronic control system allows the unit heater's air flow to be continuously and consistently modulated, ensuring it only ventilates air at the correct temperature based on the selected operating mode. Furthermore, B-TOUCH automatically shuts down the internal air conditioning during loading and unloading to minimize heat loss from daily work activities.


This product is particularly suitable for winter air conditioning of industrial buildings equipped with photovoltaic systems, completely avoiding the use of fossil fuels and maximizing the use of self-generated electricity on-site. This solution, which uses only renewable aerothermal energy from a heat pump, is highly incentivized and, if used to replace an existing winter air conditioning system, can allow the buyer to claim the GSE Conto Termico 2.0 incentive or, alternatively, the ECOBONUS tax deduction.

Model HPE 30 INDUSTRIALE

	Thermal Power kW	Cooling capacity kW	Code	€
HPE 30 INDUSTRIALE	30,0	29,5	37921029	17.500,00

HPE 30 INDUSTRIALE

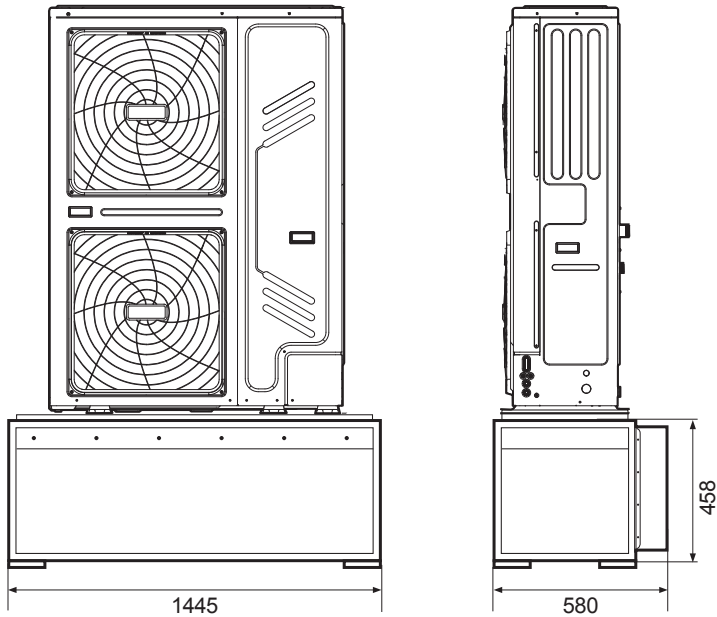
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Accessories HPE 30 INDUSTRIALE		Code	€
	First ignition	37920020	340,00
	Wired wall remote control with temperature sensor, weekly programming, management of operating parameters, display of error codes, smart grid function and integrated Wi-Fi module for control and monitoring managed via app.	INCLUDED	
	Temperature probe for activation of the "DHW production function" via a separate domestic hot water tank or inertial buffer tank with rapid DHW exchanger	INCLUDED	
	Mechanical "Y" filter in brass with removable metal mesh	INCLUDED	
	140-liter hot-cold thermal flywheel, with highly insulating rigid polyurethane foam, an 8-liter expansion tank, and a 2000W antifreeze heating element.	INCLUDED	
	Vulcanized rubber anti-vibration floor base (height from the ground 95 mm, length 600 mm) with screws (pack of 2 pieces)	75100042	120,00
	ATC storage support omega in galvanized sheet metal	75100043	80,00
	Automatic antifreeze valve, brass body, opening temperature 3 °C with 1" 1/4 connections	30403145	196,00
	Diverter valve kit	37920013	334,00
	Self-cleaning semi-automatic magnetic dirt remover, adjustable for vertical and horizontal installations with 1" 1/4 connections	30403137	480,00
	Thermal and anti-condensation insulation for 1" 1/4 self-cleaning magnetic dirt separator	30403132	48,00
	Advanced command and control system consisting of an electronic board on board the air heater, wired in the factory, and a smart user interface with a backlit B-TOUCH display equipped with an electronic room probe.	36205231	420,00
	3-speed electronic room thermostat	50005230	82,00
	Mechanical enable thermostat	36205214	36,00
	3-speed basic control	36205212	52,00
	Mechanical enable thermostat	36205214	36,00

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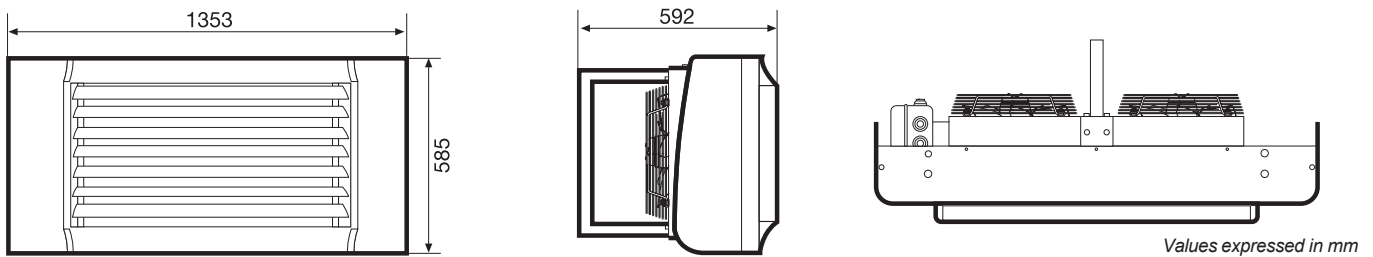
Dimensions of the integrated 140 litre inertial technical storage tank



DESCRIPTION	U.M.	140
Useful capacity	l	140
Insulation thickness	mm	50
Thermal conductivity coefficient	W/mK	0,03
Max operating temp	°C	95
Max working pressure	bar	3
Maximum test pressure	bar	6
Empty weight	Kg	85
Operating weight	Kg	225

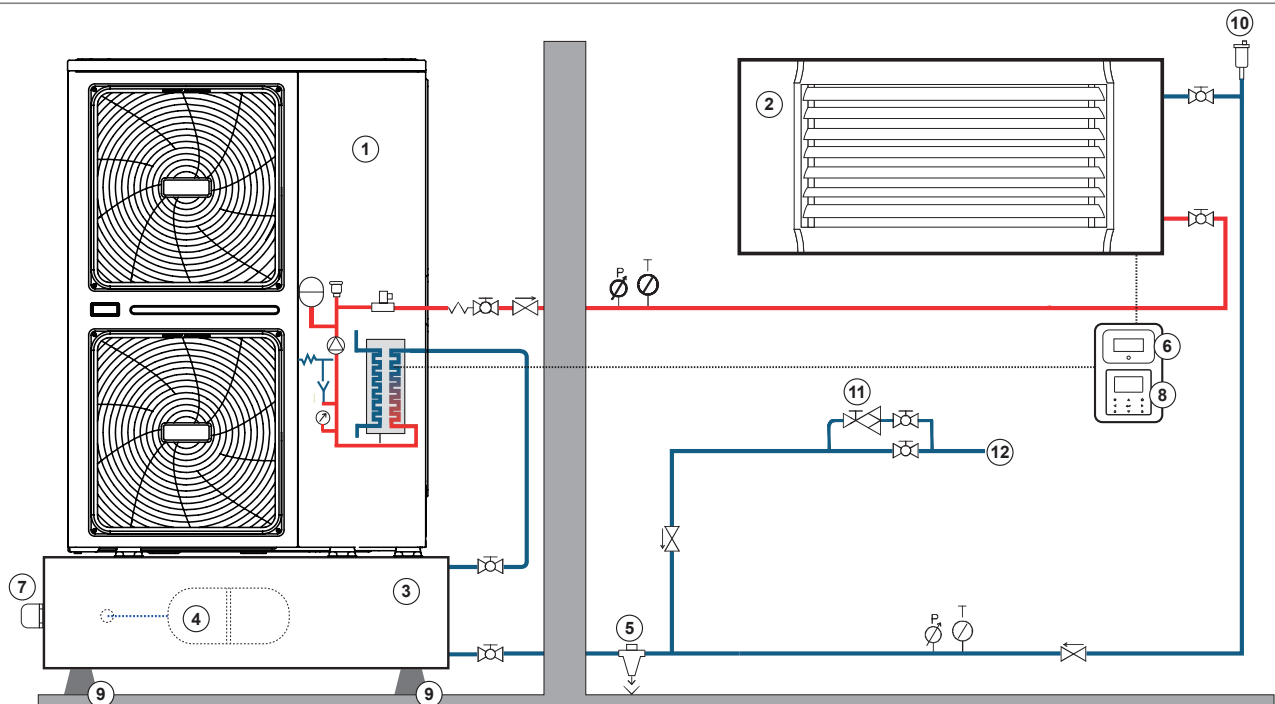
Values expressed in mm

Air heater size Aeroclima STYLE 15



Values expressed in mm

Application example HPE 30 INDUSTRIALE



1 HPE R32 - 30 INVERTER PdC
2 Aeroclima STYLE 15
3 Integrated 140-liter puffer

4 Additional expansion vessel
5 Magnetic dirt separator
6 Advanced B-TOUCH control

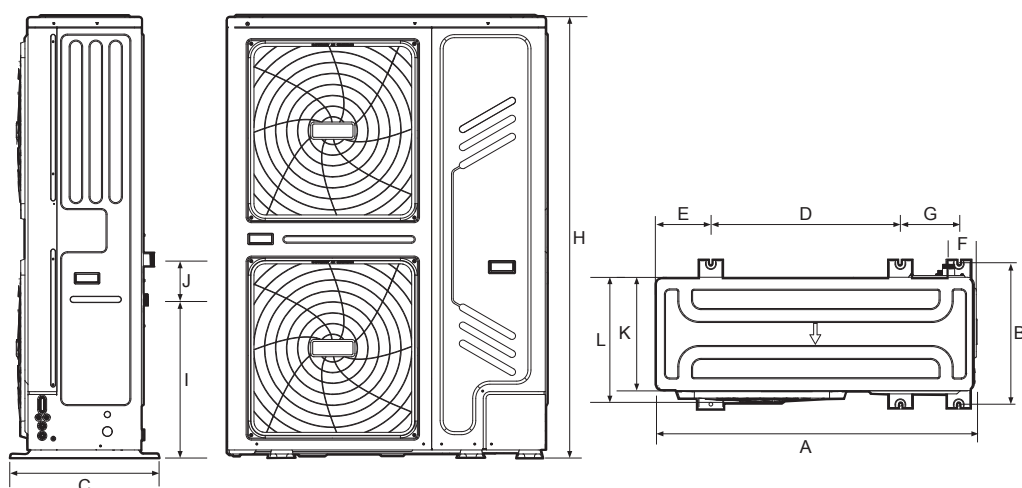
7 2000W antifreeze electric heating element
8 Heat pump remote control with integrated WI-FI
9 Vulcanized rubber anti-vibration base

10 Automatic air vent valve
11 Automatic filling group
12 Water mains inlet

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Dimensions HPE R32 30 INVERTER



HPE R32	30
A	1129
B	494
C	528
D	668
E	192
F	98
G	206
H	1558
I	558
J	143
K	400
L	440

Values expressed in mm

Heat pump technical data table HPE R32 30 INVERTER

Model	U.M.	HPE 30
HEATING		
Rated power	A7/W35 (1)	kW
Electrical absorption		kW
COP		
Rated power	A7/W45 (2)	kW
Electrical absorption		kW
COP		
Seasonal energy efficiency (η _s)	35/55	%
Energy efficiency class	35/55	A++ / A+
COOLING		
Rated power	A35/W18 (3)	kW
Electrical absorption		kW
ERR		
Rated power	A35/W7 (4)	kW
Electrical absorption		kW
ERR		

OPERATING LIMITS

Outside air temperature	Heating	°C	-25 / +35
	Cooling	°C	-5 / +46
	DHW	°C	-25 / +43
Delivery water temperature	Heating	°C	+25 / +60
	Cooling	°C	+5 / +25
	DHW	°C	+40 / +60
Refrigerant	Type (GWP)		R32 (675)
	Quantity (Tons CO ₂)	Kg/(t)	5 (3,375)
	Control system		electronic expansion valve
Type of compressor			Twin Rotary - DC inverter
Internal circulator			Wilco Yonos Para RS 25/7.5 RKC
Expansion vessel	Volume	l	8
	Preload	bar	1,0
Hydraulic connections - water inlet/outlet			1"1/4
Electrical supply			400V/3+N/50Hz
Max. current	A		22,80
Power cord	mm ²		5x6
Wired control			Wired remote control
Sound pressure at 1 m	dB(A)		63,5
Sound level	dB(A)		77
Net weight	Kg		177

(1) Heating: external air temperature 7 °C d.b. 6 °C w.b.; inlet/outlet water temp. 30/35 °C - (2) Heating: external air temperature 7 °C d.b. 6 °C w.b.; inlet/outlet water temp. 40/45 °C (3) Cooling: external air temperature 35 °C; inlet/outlet water temp. 23/18 °C - (4) Cooling: external air temperature 35 °C; inlet/outlet water temp. 12/7 °C The above data refer to the following standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU) No.811:2013; (EU) No.813:2013; OJ 2014/C 207/02:2014;

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Technical data table AEROCLIMA STYLE 15

DESCRIPTION	U.M.		STYLE 15
Inlet water heating power 70°C (ΔT 10°C) room air temperature 20°C	kW	max	42,50
		med	32,40
		min	26,70
Water flow rate	l/h		3655
Pressure drops	kPa		14,1
Hydraulic circuit volume	l		6,0
Air-side temperature difference	°C	max	31,5
		med	34,9
		min	37,2
Inlet water heating power 50°C (ΔT 5°C) room air temperature 20°C	kW	max	25,80
		med	19,60
		min	16,20
Water flow rate	l/h		4438
Pressure drops	kPa		21,4
Air-side temperature difference	°C	max	19,1
		med	21,1
		min	22,6
Total cooling capacity water in. 7°C (DT 5°C) d.b. air temperature 27°C, b.u. 19°C (47% R.H.)"	kW	max	17,40
		med	13,90
		min	11,80
Cooling capacity Sensible water in. 7°C (DT 5°C) temp. low air 27°C, b.u. 19°C (47% R.H.)"	kW	max	14,50
		med	11,10
		min	9,20
Water flow rate	l/h		2993
Pressure drops	kPa		11,4
Air flow	m³/h	max	4000
		med	2750
		min	2130
Auxiliary speeds(*)	n. / (m³/h)		15 / (1080÷4600)
Number of fans	n.		2
Sound pressure (5 meters in free field with directionality factor = 2)	dB(A)	max	49,6
		med	42,3
		min	37,7
Sound power	dB(A)	max	71,6
		med	64,3
		min	59,7
Sound pressure auxiliary speed min-max (**)	dB(A)		34,8÷65,3
Electrical supply			230V/1/50Hz
Launch	m	vel. max	22
		vel. min	15
Absorbed electrical power	W	max	220
		med	200
		min	180
Max current absorbed	A		1,20
Degree of protection of fan(s)			IP44
Degree of protection of the appliance			IP24
OPERATING LIMITS			
Inlet water temperature min÷max	°C		3÷80
Pression max	kPa		800
Inlet air temperature max	°C		45
Weight	Kg		59

(*) Fan speeds can be selected in addition to the standard ones.

(**) Sound pressure level at 1 meter, in a free field with a directionality factor of 2, at the minimum and maximum values of the available auxiliary speeds.