

HPE 05÷16 INVERTER

High efficiency air / water inverter heat pumps with axial fans for Hot / Cold production



mod. HPE 05 / 07 kW
INVERTER Single phase



Command
Machine Edge
standard






mod. HPE10÷12 kW
INVERTER iSingle phase

mod. HPE12T÷16T kW
INVERTER Three-phase

MITSUBISHI
COMPRESSOR

Model	Power Thermal kW	Power Refrigeration kW	Code	€
HPE 05 INVERTER Monofase	6,2 (2,1÷7,0)	5,0 (1,9÷5,8)	37950901	4.710,00
HPE 07 INVERTER Monofase	8,0 (2,3÷9,0)	7,0 (2,1÷7,8)	37960901	5.130,00
HPE 10 INVERTER Monofase	11,0 (3,2÷12,0)	10,0 (3,0÷10,5)	37970901	7.750,00
HPE 12 INVERTER Monofase	12,3 (3,3÷13,2)	11,2 (3,1÷12,0)	37980901	7.780,00
HPE 12 INVERTER Trifase	12,3 (3,3÷13,2)	11,2 (3,1÷12,0)	37980902	8.000,00
HPE 14 INVERTER Trifase	13,8 (3,5÷15,4)	12,5 (3,3÷14,0)	37990901	8.400,00
HPE 16 INVERTER Trifase	16,0 (3,7÷17,0)	14,5 (3,5÷15,5)	37990902	8.800,00

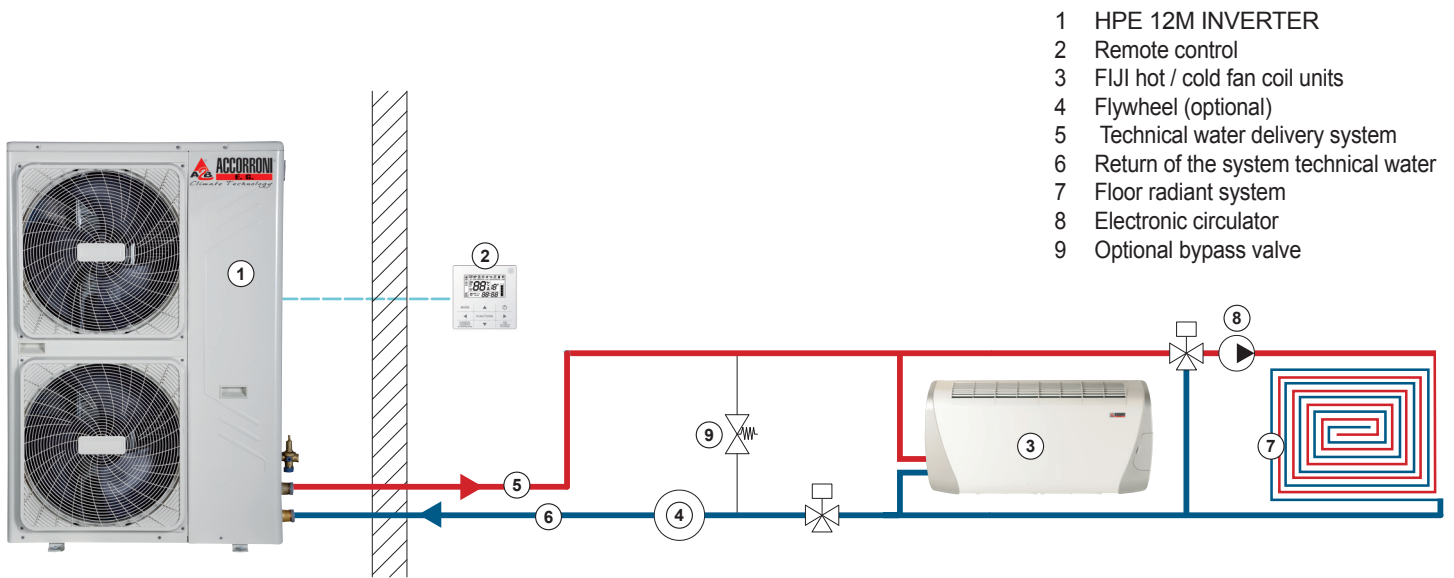
Accessories HPE 05÷16 INVERTER

	Wired control	37990903	190,00
	Wire control for MODBUS protocol	37990904	240,00
	A_CF 200 Thermal flywheel for storage of insulated technical water with rigid polyurethane insulation, 50 mm thick	37306120	610,00

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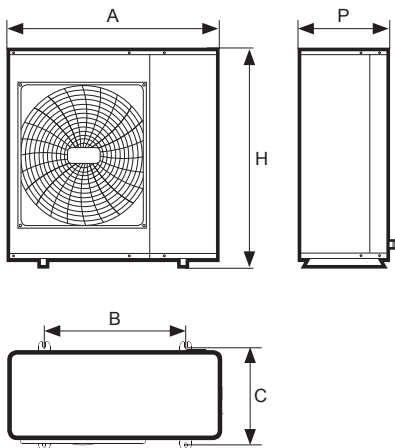
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Example of HPE 06÷16 INVERTER system



- 1 HPE 12M INVERTER
- 2 Remote control
- 3 FIJI hot / cold fan coil units
- 4 Flywheel (optional)
- 5 Technical water delivery system
- 6 Return of the system technical water
- 7 Floor radiant system
- 8 Electronic circulator
- 9 Optional bypass valve

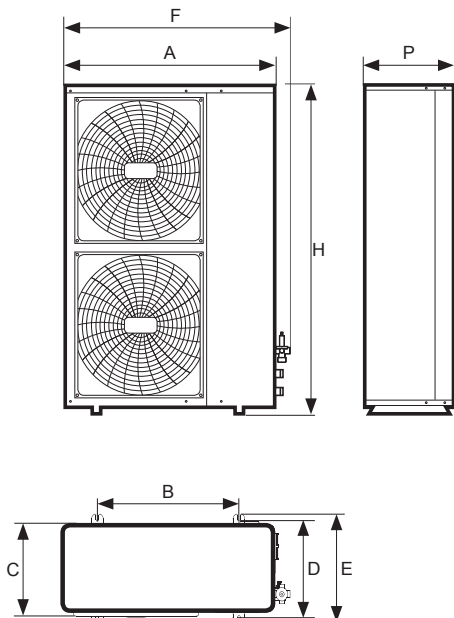
Dimensions HPE 05÷07 INVERTER



HPE INV	05	07
A	990	990
B	624	624
C	366	366
H	966	966
P	354	354

Values in mm

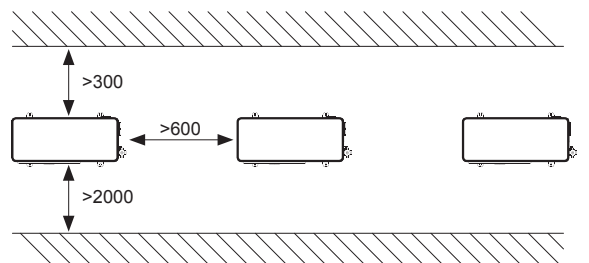
Dimensions HPE10÷16 INVERTER



HPE INV	10	12M	12T	14T	16T
A	900	900	900	900	900
B	600	600	600	600	600
C	348	348	348	348	348
D	360	360	360	360	360
E	400	400	400	400	400
F	970	970	970	970	970
H	1327	1327	1327	1327	1327
P	320	320	320	320	320

Values in mm

Parallel connection of 2 or more units



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Technical datasheet refrigerators HPE 06÷16 INVERTER

Model			U.M.	HPE 05	HPE 07	HPE 10	HPE 12M	HPE 12T	HPE 14T	HPE 16T	
Power supply				230V/1/50Hz				380V/3/50Hz			
Cooling	Rated power	Aria 35 °C - Acqua 18 °C	kW	5,6	8,0	10,6	12,0	12,2	14,2	15,6	
	Electric absorption		kW	1,15	1,85	2,30	2,65	2,60	3,10	3,60	
Heating	Rated power	Aria 35 °C - Acqua 7 °C	kW	5,0	7,0	10,0	11,2	11,2	12,5	14,5	
	Electric absorption		kW	1,55	2,25	2,95	3,50	3,38	3,90	4,70	
Heating	Rated power	Aria 7 °C - Acqua 35 °C	kW	6,2	8,6	11,5	13,0	13,0	15,1	16,5	
	Electric absorption		kW	1,35	2,10	2,65	2,92	2,85	3,35	3,92	
Heating	Rated power	Aria 7 °C - Acqua 45 °C	kW	6,2	8,0	11,0	12,3	12,3	13,8	16,0	
	Electric absorption		kW	1,90	2,50	3,14	3,78	3,72	4,25	4,85	
Range power	Heating	Aria 35 °C - Acqua 7 °C	kW	5,0 (1,9+5,8)	7,0 (2,1+7,8)	10,0 (2,9+10,5)	11,2 (3,1+12,0)	11,2 (3,1+12,0)	12,5 (3,3+14,0)	12,5 (3,3+15,5)	
	Heating	Aria 7 °C - Acqua 45 °C	kW	6,2 (2,1+7,0)	8,0 (2,3+9,0)	11,0 (3,2+12,0)	12,3 (3,3+13,2)	12,3 (3,3+13,2)	13,8 (3,5+15,4)	16,0 (3,7+17,0)	
EER		Aria 35 °C - Acqua 18 °C	W/W	4,87	4,32	4,61	4,60	4,69	4,58	4,33	
EER		Aria 35 °C - Acqua 7 °C	W/W	3,23	3,11	3,39	3,20	3,31	3,21	3,09	
SEER		Aria 35 °C - Acqua 18 °C	W/W	5,83	6,07	5,7	6,0	6,0	7,0	7,0	
COP		Aria 7 °C - Acqua 35 °C	WW	4,59	4,10	4,34	4,45	4,56	4,51	4,21	
COP		Aria 7 °C - Acqua 45 °C	WW	3,26	3,20	3,50	3,25	3,31	3,25	3,30	
SCOP		Aria 7 °C - Acqua 35 °C	WW	3,55	3,46	3,34	3,46	3,66	3,78	3,39	
Seasonal heating efficiency (ηs)				142,0%	138,4%	133,6%	138,4%	146,4%	151,2%	135,6%	
Heating energy efficiency class				A+							
Air temperature	Cooling		°C	- 5÷46 °C							
	Heating		°C	- 15÷27 °C							
Water temperature	Cooling		°C	4÷20 °C							
	Heating		°C	30÷55 °C							
Maximum electrical absorption			kW	2,1	2,6	4,7	3,6	5,0	5,4	5,7	
			A	11,4	13,7	25,0	19,1	8,9	9,6	10,1	
Compressor	Type		Twin Rotary DC Inverter								
Refrigerant	Type		R410A								
	Charge		Kg	2,5	2,8			2,9	3,2		
Expansion valve			Tipo	Electronics							
Air exchanger			Tipo	Grooved copper tube entirely with hydrophilic aluminum fins							
Circulator	Flow		litri/h	240							
	Prevalence		m	5,5	8,5						
	Type		Electronic								
	Brand		WILO								
Nominal water flow			m³/h	0,86	1,20	1,72	1,92		2,15	2,49	
Scambiatore acqua	Type		Brazen plate INOX								
	Volume		l	5,3		7,0	7,8			10,6	
	Flow		litri/h	860	1200	1720	1920		2150	2490	
	Losses of load		kPa	15		18	18			19	
Maximum / minimum water pressure			bar	5,0 / 1,5							
Expansion vessel	Volume		l	2		3					
	Preload		bar	1							
Flow	Engine		Tipo	Brushless DC							
			n.	1			2				
	Preload		m³/h	5100			7000				
Sound pressure level(*)			dB(A)	58		59			62		
Sound power level			dB(A)	63	66	68			70	72	
Electric cables	Power	n. x mm²		3 x 2,5	3 x 4			5 x 4			
	Signal (shielded)	n. x mm²		3 x 0,75							
Hydraulic connections				1"			1" 1/4				
Net / gross weight				81 / 91			110 / 121		111 / 122		

(*) Sound pressure measured at 1 m distance in open field.

Data reported above referred 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.