

HPE 25÷60 INVERTER - HPE LT 25÷50 INVERTER

High efficiency air / water inverter heat pumps with axial fans and steam injection version



Model	Power Refrigeration kW	Power Thermal kW	Code	
HPE 25 INVERTER	30,45÷33,50	24,72÷27,20	37980802	
HPE 35 INVERTER	36,37÷39,30	32,50÷35,10	37980803	
HPE 50 INVERTER	48,86÷51,80	48,70÷51,60	37980804	
HPE 60 INVERTER	57,20÷60,60	52,00÷55,10	37980805	
HPE LT 25 INVERTER (iniezione di vapore)	30,67÷33,70	25,80÷28,40	37980806	
HPE LT 35 INVERTER (iniezione di vapore)	36,37÷39,30	32,50÷35,10	37980807	
HPE LT 50 INVERTER (iniezione di vapore)	47,56÷50,40	49,26÷52,20	37980808	

Accessories HPE 25÷60 - HPE LT 25÷50

First ignition	37980000
EC Integrated Circulator HPE/HPE LT 25-35	37980001
EC Integrated Circulator HPE/HPE LT 50	37980002
EC Integrated Circulator HPE/HPE LT 60	37980003
HPE / HPE shut-off valve LT 25-35	37980004

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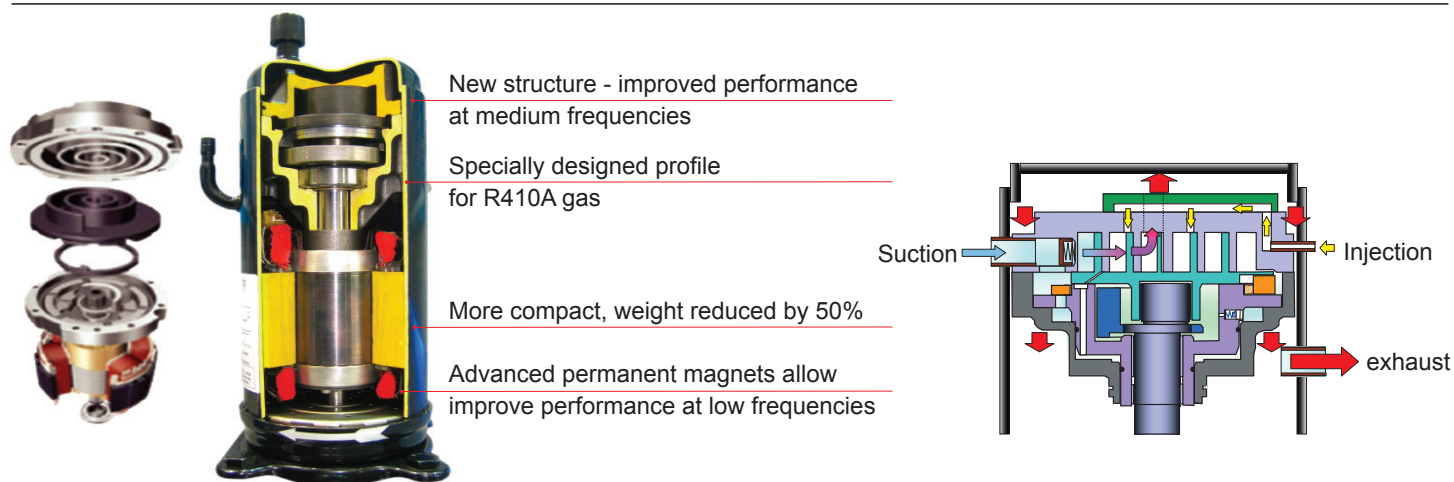
Accessories HPE 25÷60 - HPE LT 25÷50 INVERTER

	Code
A_CF External thermal flywheel for storage of technical water insulated with rigid polyurethane insulation 50 mm thick for mod. up to 1000 liters and in 100 mm thick flexible polyester for mod. 1500 and 2000 liters	A_CF 200 37306120 A_CF 300 37306130 A_CF 500 37306150 A_CF 800 37306160 A_CF 1000 37306170 A_CF 1500 37306180 A_CF 2000 37306190
HPE / HPE shut-off valve LT 50-60	37980005
Antifreeze kit	37980006
Plant management module for HPE	37980007
Silencing kit HPE / HPE LT 25	37980008
Silencing kit HPE/HPE LT 35-50-60	37980009
HPE / HPE super-silencing kit LT 25	37980010
HPE / HPE super-silencing kit LT 35	37980011
HPE / HPE super-silencing kit LT 50-60	37980012

Optional accessories HPE 25 ÷ 60 - HPE LT 25 ÷ 50

Touchscreen remote control	37980013
System management module	37980014
Antivibration	37980015

DC Inverter injection compressor

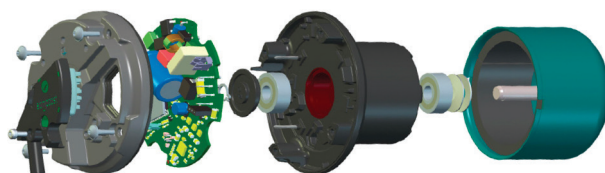


EC technology

The EC technology at the base of the fan motor allows an efficiency of up to 90% and allows high levels of savings energy, extending its duration considerably and making it almost maintenance free.

These values pay off for environmental protection and savings for the user.

This product presents today the greatest connection possible between economy and ecology.



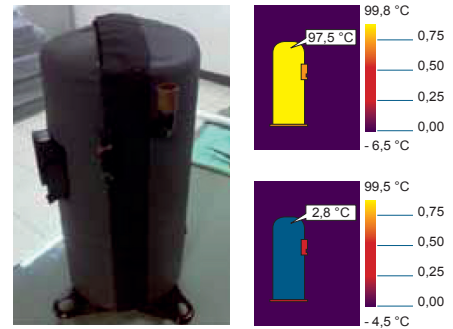
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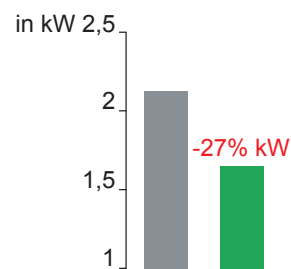
Silencing kit

The innovative thermoacoustic coat allows a reduction of the noise up to 10% at certain rotation frequencies of compressor.

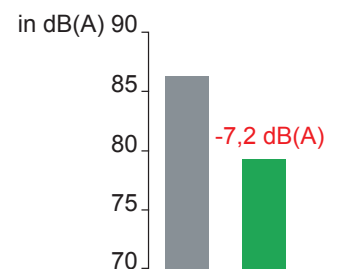
The particular multilayer structure allows thermal insulation that at very low temperatures reduces losses up to 2% compared to a standard insulation.



Super silencing kit

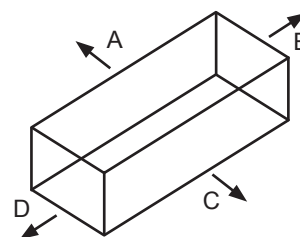
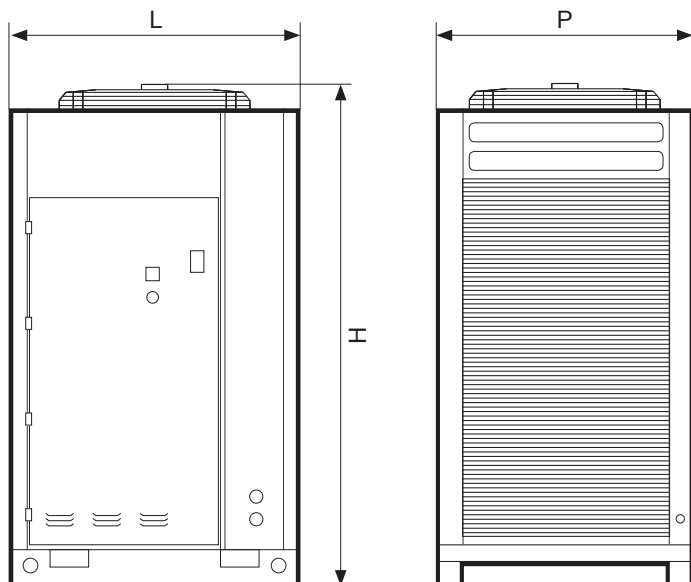


Less energy consumption at the same volume of air



Noise reduction at equal volume of air

Dimensions HPE 25 ÷ 60 - HPE LT 25 ÷ 50 INVERTER



Minimum distances to be respected

A	1000
B	850
C	500
D	1550

Values in mm

HPE - HPE LT INVERTER	HPE 25	HPE 35	HPE 50	HPE 60	HPE LT 25	HPE LT 35	HPE LT 50
L	1198	1198	1198	1198	1198	1198	1198
P	1198	1198	1198	1198	1198	1198	1198
H	1673	1673	1741	1741	1741	1741	1741
H Super Silenced version (optional)	1906	1906	1906	1906	1906	1906	1906

Valori espressi in mm

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Technical data table HPE 25 ÷ 60 - HPE LT 25 ÷ 50 INVERTER

DESCRIZIONE	U.M.	HPE 25 INV	HPE 35 INV	HPE 50 INV	HPE 60 INV	HPE LT 25 INV	HPE LT 35 INV	HPE LT 50 INV	
Cooling capacity ⁽¹⁾	kW	30,65 (33,50*)	36,37 (39,30*)	49,32 (51,80*)	57,14 (60,60*)	30,67	36,37	47,56	
Power consumption ⁽¹⁾	kW	6,62	8,91	12,06	17,07	7,34	8,91	12,52	
EER ⁽¹⁾	W/W	4,63	4,08	4,09	4,06	4,18	4,08	3,83	
Cooling capacity ⁽²⁾	kW	21,15 (23,10*)	27,07 (29,10*)	36,36 (38,30*)	42,97(45,60*)	22,50	26,90	37,60	
Power consumption ⁽²⁾	kW	6,35	8,96	12,45	13,75	7,26	9,10	12,83	
EER ⁽²⁾	W/W	3,33	3,02	2,92	3,12	3,10	2,96	2,93	
SEER ⁽²⁾	W/W	3,98	4,08	4,03	4,16	3,93	4,04	3,91	
ESEER ⁽⁸⁾	W/W	5,34	5,47	5,04	6,07	5,28	5,47	5,30	
Thermal power ⁽³⁾	kW	24,57 (27,10*)	32,65 (35,30*)	48,25 (51,20*)	52,04 (55,10*)	25,80	32,50	49,26	
Absorbed power ⁽³⁾	kW	5,47	7,89	11,42	12,64	6,17	7,98	12,93	
COP ⁽³⁾	W/W	4,49	4,14	4,22	4,12	4,18	4,07	3,81	
Thermal power ⁽⁴⁾	kW	22,05 (24,40*)	32,33 (35,10*)	41,07 (43,50*)	49,33 (52,30*)	25,65	32,50	47,26	
Absorbed power ⁽⁴⁾	kW	6,33	9,80	12,07	15,15	7,27	9,96	14,40	
COP ⁽⁴⁾	W/W	3,49	3,30	3,40	3,26	3,53	3,26	3,28	
SCOP ⁽⁶⁾	W/W	3,83	3,88	3,82	4,00	4,02	4,03	3,82	
Efficienza energetica**		A+							
		A++							
Type of compressor		DC Inverter	DC Inverter	2 DC Inverter	2 DC Inverter	DC Inverter	2 DC Inverter	2 DC Inverter	
Fans ⁽²⁾	n°x kW	1 x 0,60	1 x 0,72	1 x 1,10	1 x 1,58	1 x 0,60	1 x 0,72	1 x 1,10	
Air flow	m ³ /h	18000	20016	24984	27792	18000	20016	24984	
Supply		400V/3+N/50Hz							
Sound pressure ⁽⁷⁾	dB(A)	54,4	56,5	59,7	61,6	54,4	56,5	59,7	
Sound pressure Silencing ⁽⁵⁾	dB(A)	52,4	54,7	58,7	60,8	52,4	54,7	58,7	
Sound pressure Super Silencing ⁽⁵⁾	dB(A)	50,7	53,0	56,5	58,6	50,7	53,0	56,5	
External temperature	°C	-15 / +46				-25 / +46			
Pump power	W	270	310	440	730	280	310	450	
Water flow	l/s	1,01	1,31	1,72	2,05	1,07	1,31	1,80	
Useful prevalance	kPa	88	79	70	90	84	79	65	
Hydraulic connections		2" F							
Min. Water volume	l	75	105	150	180	75	105	150	
Weight standard version	Kg	355	412	428	454	355	412	420	

Performance referred to the following conditions:

(1) Cooling: outdoor air temperature 35 °C; water temperature ent./iss. 23/18 °C.

(2) Cooling: outdoor air temperature 35 °C; water temperature ent./iss. 12/7 °C.

(3) Heating: outdoor air temperature 7 °C b.d. 6 °C b.h. ; temp.water ent./iss. 30/35 °C.

(4) Heating: outdoor air temperature 7 °C b.d. 6 °C b.h. ; temp.water ent./iss. 40/45 °C.

(5) Cooling: water temperature ent./iss. 23/18 °C

(6) Heating: average climate conditions; T_{biv} = -7 °C; temp.water ent./iss. 30/35 °C

(7) Sound pressure level measured in free field at 1m from the unit, according to ISO 3744. Reported values also for installed SL and SSL

(8) The ESEER values are calculated with water temperatures of 18 °C and air temperature 35 °C

* Maximum power with Hz Max function not enabled by default.

** Water 35 °C / 55 °C

Operating parameters HPE 25 ÷ 60 - HPE LT 25 ÷ 50 INVERTER

Water chiller mode	U.M.	min	max	Units are designed and built for operate in summer, with control condensation, with air temperature external temperature between -10 °C and 46 °C.
Room temperature	°C	-10	+46	
Outlet water temperature	°C	-5	+25	In heat pump operation, the allowed temperature range outdoor air ranges from -15 °C to +40 °C depending on the water temperature in output as shown in the table.
Heat pump mode		min	max	
Ambient temperature HPE / HPE LT version	°C	-15 / -25	+30	* With electrical resistance in operation. The resistance can not be installed on board
Outlet water temperature HPE / HPE LT version	°C	+25	+60 / +65*	
Heat pump for domestic hot water		min	max	
Ambient temperature with water at maximum 48 °C	°C	-15 / -25	+40	
Ambient temperature with water at 56 °C maximum	°C	-15 / -25	+35	
Outlet water temperature HPE / HPE LT version	°C	+25	+60 / +65*	