



EPH HE

Water cooled heating only heat pump



- Reversible heat pump
- A++ high efficiency
- Load-bearing and robust structure
- Low noise level

EPH HE (standard): Single unit mounted on powder painted galvanised steel bearing structures. Scroll compressor with crankcase resistance, brazed plate evaporator and condenser.

The cooling circuit has a dehydration filter and liquid/humidity indicator, 4 way valve.

Microprocessor regulation also controls all the working parameters and active components in the circuit. General isolation switch with door blocking device.



Accessories

Refrigerants gauges
Top remote control
Anti-vibration mount feet
Crankcase heater (INCLUDED)
Head press. ctrl water valve
Amb. temp. Sensor (DYNAMIC SET POINT)



Eph HE Technical Data

Eph HE		151	092	102	122	152
Energetic class		A++	A++	A++	A++	A++
Cooling capacity (1)	kW	43,3	49,8	57,9	75,7	86,0
Heating capacity (2)	kW	49,3	57,5	66,6	86,4	99,0
EER (1)	-	4,8	4,8	4,9	4,8	4,7
COP (2)	-	4,8	5,7	5,3	5,2	5,2
Scroll Compressors	n°	1	2	2	2	2
Refrigerant Circuits	n°	1	1	1	1	1
Capacity steps	n°	1	2	2	2	2
Supply voltage	V/Ph/Hz	400/3/50				
Sound power LwA (3)	dB(A)	79,7	76,1	78,3	78,8	82,7
Sound pressure LpA (4)	dB(A)	68,7	65,1	67,3	67,8	71,7
COMPRESSOR						
Power input *	kW	9,3	5,3	6,1	8,1	9,3
Current input *	A	19	11	13	16	19
Max current *	A	35	20	29	32	35
Current at start*	A	175	130	130	145	175
USER PLANT SIDE						
Brazed plate exchanger	n°	1	1	1	1	1
Water flow	l/s	2,07	2,38	2,77	3,62	4,11
Pressure drops	kPa	7,4	9,8	10,9	11,5	10,6
EXTERNAL SOURCE						
Brazed plate exchanger	n°	1	1	1	1	1
Water flow in summer	l/s	0,820	0,942	1,093	1,434	1,63
Pressure drops	kPa	1,2	1,5	1,7	1,8	1,7
Water flow in winter	l/s	1,78	2,38	2,76	3,67	4,19
Pressure drops	kPa	5,5	9,8	10,8	11,9	11
TOTAL ELECTRIC ABSORPTION						
Power input in summer (1)	kW	9,09	10,41	11,92	15,93	18,18
Current input in summer (1)	A	18,6	22,6	26,2	31,7	37,2
Power input in winter (2)	kW	10,32	11,93	13,70	18,24	20,81
Current input in winter (2)	A	20,2	24,2	28,0	34,3	40,3
Max current	A	35,0	40,0	58,0	64,0	70,0
Current at start	A	175	141	143	161	194
SIZES AND WEIGHT						
Length	mm	600	1300	1300	1300	1300
Depth	mm	570	680	680	680	680
Height	mm	1365	1220	1220	1220	1220
Weight	Kg	270	365	370	372	422

(1) Cooling Operating conditions: plant exchanger water (inlet/outlet) 12/7°C - external source water temperature (inlet/outlet) 15/30°C

(2) Heating Operating conditions: plant exchanger water (inlet/outlet) 30/35°C - external source water temperature (inlet/outlet) 10/7°C

(3) Noise pressure according to ISO 3744

(4) Sound pressure at 1 meters in free field

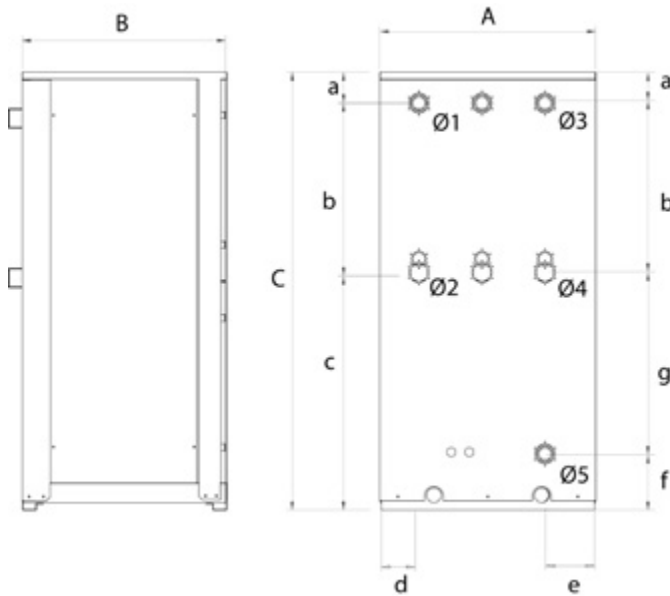
* Consumptions referred to a single compressor

Water flow and pressure drop plant exchanger are calculated with clean water.

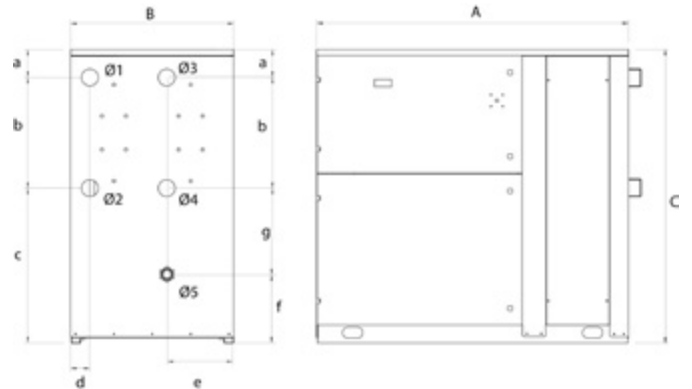
COP Referred to compressor only

Technical Drawings Eph HE

EPH/HE151



EPH/HE 092-102-122-152



EPH HE

	A	B	C	a	b	c	d	e	f	g	h	i	Ø1	Ø2	Ø3	Ø4	Ø5
151	600	570	1365	65	442	838	80	85	442	714	125	240	2"	2"	2"	2"	2"
092	1300	680	1220	116	460	624	80	116	460	360	284	280	2"	2"	2"	2"	2"
102	1300	680	1220	116	460	624	80	116	460	360	284	280	2"	2"	2"	2"	2"
122	1300	680	1220	116	460	624	80	116	460	360	284	280	2"	2"	2"	2"	2"
152	1300	680	1220	116	460	624	80	116	460	360	284	280	2"	2"	2"	2"	2"

EPH HE

EPH HE + VPE

	EPH HE	EPH HE + VPE
Ø1	plant exchanger outlet water	plant exchanger outlet water
Ø2	plant exchanger inlet water	plant exchanger inlet water
Ø3	well water inlet temperature	well water inlet temperature
Ø4	well water outlet temperature	not available
Ø5	not available	not available