



EWH-H HE GEO

Geothermal heating only heat pump



- Compact dimensions
- Load-bearing and robust structure
- Optional hydronic kit included
- Low noise level

EWH-H HE GEO is a geothermal heat pump, for heating only, for indoor installation.

Ewh-H/STD (standard version):

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. Microprocessor regula-

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

Ewh-H/AP (with storage tank and pump):

Fitted like the basic version, but with 1 circulation unit or axial pump fitted, water storage tank, expansion tank, safety valve, flow switch.

Accessories

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

Technical Data

EWB-H HE GEO		05-1	06-1	09-1	11-1	14-1	19-1	25-1	29-1	36-1	151	092	102	122	152	
Energetic class		A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	
Heating capacity (1)	kW	4,8	6,1	8,5	10,1	11,9	16,2	21,5	25,4	33,1	37,9	43,0	50,8	66,0	75,3	
COP	-	4,0	4,0	4,0	4,0	4,0	4,2	4,0	4,1	4,1	4,1	4,0	4,1	4,1	4,1	
Scroll Compressors	n°	1	1	1	1	1	1	1	1	1	1	2	2	2	2	
Refrigerant circuits	n°	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Capacity steps	n°	1	1	1	1	1	1	1	1	1	1	2	2	2	2	
Supply voltage	V/Ph/Hz	230/1/50					400/3/50									
Sound power LwA (2)	dB(A)	63,4	63,4	67,9	66,7	67,3	70,3	73,1	75,3	75,8	79,7	76,1	78,3	78,8	82,7	
Sound pressure LpA (3)	dB(A)	52,4	52,4	56,9	55,7	56,3	59,3	62,1	64,3	64,8	68,7	65,1	67,3	67,8	71,7	
COMPRESSOR																
Power input *	kW	1,3	1,7	2,4	2,8	3,4	4,4	6,0	6,9	9,1	10,3	6,0	6,9	9,1	10,3	
Current input *	A	7	8	11	14	7	9	12	14	17	20	12	14	17	20	
Max current *	A	11	15	23	24	11	15	20	29	32	35	20	29	32	35	
Current at start *	A	47	61	100	114	66	101	130	130	145	175	130	130	145	175	
USER PLANT SIDE																
Brazed plate exchanger	n°	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Water flow	l/s	0,23	0,30	0,42	0,51	0,62	0,84	1,12	1,30	1,71	2,07	2,38	2,77	3,62	3,88	
Pressure drops	kPa	3,2	5,4	3,6	5,3	4,9	8,8	7,9	10,6	14,1	7,4	9,8	10,9	11,5	9,5	
EXTERNAL SOURCE																
Brazed plate exchanger	n°	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Water flow	l/s	0,28	0,37	0,51	0,62	0,76	1,02	1,37	1,59	2,09	2,39	2,75	3,19	4,18	4,76	
Pressure drops	kPa	7,4	12,3	8,3	12,1	9,7	17,3	16,4	22,1	28,8	13,0	17,2	18,4	19,4	17,0	
Water flow in winter	l/s	0,28	0,36	0,50	0,61	0,73	1,01	1,30	1,52	2,03	2,31	2,60	3,05	4,06	4,63	
Pressure drops	kPa	6,9	11,6	7,9	11,6	8,9	16,8	14,7	20,2	27,1	12,2	15,4	16,8	18,4	13,5	
TOTAL ELECTRIC ABSORPTION																
Power input in summer	kW	1,20	1,54	2,14	2,50	3,01	3,90	5,37	6,20	8,09	9,30	10,74	12,41	16,18	18,60	
Current input in summer	A	6,0	7,3	10,2	13,1	6,7	8,5	11,4	13,3	16,0	18,7	22,9	26,5	31,9	37,4	
Max current	A	11,4	14,8	23,1	23,5	11,0	15,0	20,0	29,0	32,0	35,0	40,0	58,0	64,0	70,0	
Current at start	A	47	61	100	114	66	101	130	130	145	175	142	144	162	195	
SIZES AND WEIGHT																
STD Length	mm	660	660	600	600	600	600	600	600	600	600	1300	1300	1300	1300	
STD Depth	mm	450	450	570	570	570	570	570	570	570	570	680	680	680	680	
STD Height	mm	1112	1112	1220	1220	1220	1220	1220	1220	1220	1375	1220	1220	1220	1220	
STD Weight	Kg	69	73	85	95	114	129	180	185	202	270	365	370	372	422	
AP Length	mm	660	660	1000	1000	1000	1000	1000	1000	1000	-	-	-	-	-	
AP Depth	mm	450	450	570	570	570	570	570	570	570	-	-	-	-	-	
AP Height	mm	1112	1112	1220	1220	1220	1220	1220	1220	1220	-	-	-	-	-	
AP Weight	Kg	115	118	129	136	181	196	248	253	268	-	-	-	-	-	
VERSION WITH WATER VESSEL AND PUMP																
Contentence	l	30	30	70	70	70	70	70	70	70	-	-	-	-	-	
Pump externe pressure	kPa	42	32	64	59	184	161	155	141	117	-	-	-	-	-	
Pump power input	KW	0,09	0,09	0,21	0,21	0,37	0,37	0,37	0,37	0,37	-	-	-	-	-	
Pump current input	A	0,4	0,4	1,0	1,0	3,0	3,0	1,4	1,4	1,4	-	-	-	-	-	
EXPANSION VESSEL																
Capacity	l	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	-	-	-	-	-	
Max. water pressure	kPa	300	300	300	300	300	300	300	300	300	-	-	-	-	-	
Nitrogen pre-charge pressure	kPa	150	150	150	150	150	150	150	150	150	-	-	-	-	-	
Quantity	n°	1	1	1	1	1	1	1	1	1	-	-	-	-	-	

(1) Heating Operating conditions: plant exchanger water (inlet/outlet) 30/35°C - external source water temperature (inlet/outlet) 0/-3 °C

(2) Noise pressure according to ISO 3744

(3) Sound pressure at 1 meters in free field

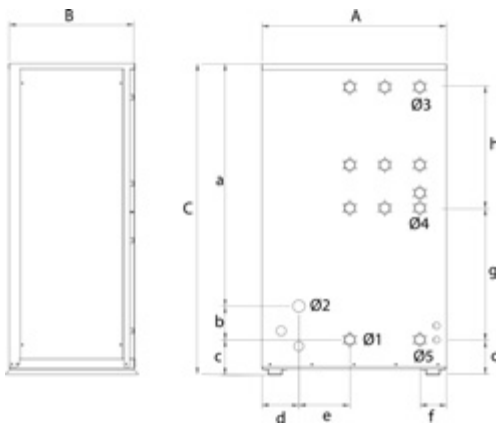
* Consumptions referred to a single compressor

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

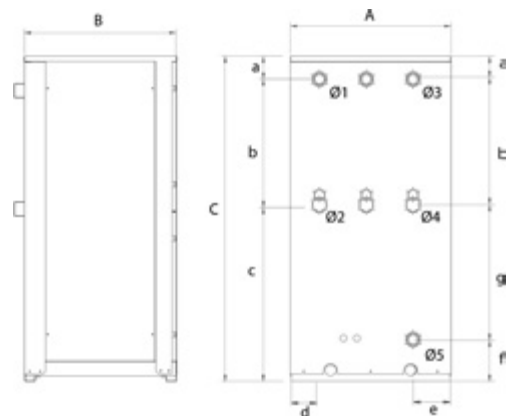
COP Referred to compressor only

Technical Drawings

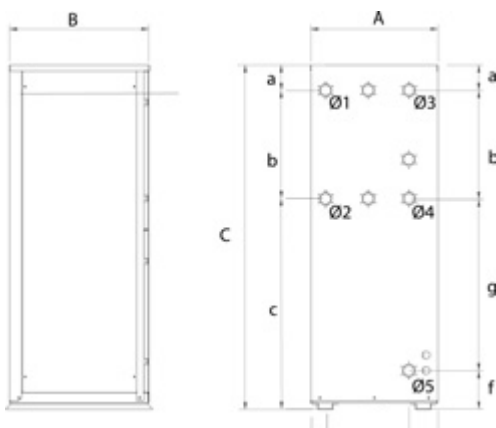
EWH-H/AP 05-06/1



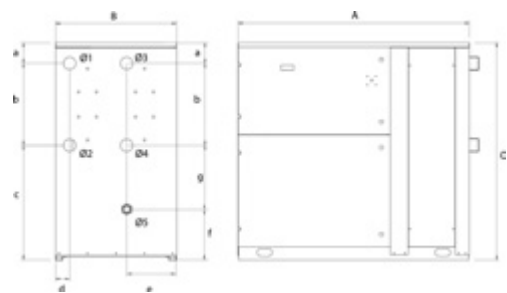
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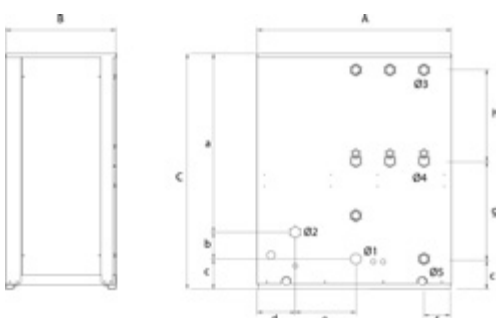
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EWH-H 092-102-122-152



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SYMBOLS LEGEND

- Ø1 = plant exchanger inlet water
- Ø2 = plant exchanger outlet water
- Ø3 = well water inlet
- Ø4 = well water outlet
- Ø5 = not available

