

Water-water geothermal heat pumps

GEO EASY-E HT/HTR

High temperature geothermal heat pump

Power from 6 to 33kW

Functions

- ✓ Production of very hot water for the installation
- ✓ Production of cold water for the installation (HTR version)
- ✓ Production of DHW (with accessory)

Main features

- ✓ High efficiency scroll-compressor
- ✓ On-off circulators on the three circuits as accessory to install on the outside of the device
- ✓ DHW production up to 65°C with kit to assembly on the outside of the device
- ✓ Tolomeus regulation for the whole system



Applications

Exchange on probe

Exchange on well



Models

GEO EASY-E HT

Heating and DHW production (accessory)

GEO EASY-E HTR

Heating-cooling and DHW production (accessory)

Compatibility

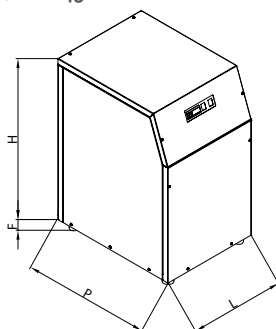
	Domestic diverter control kit	Easy diverter kit	MFREE	Control kit MFREE	Plant circulator kit	Geotherm circulator kit	Pressure switch kit	Solenoid kit	External air probe kit	Guard resistance kit	Exchangers resistance kit	Phase cut kit (t)	Compressor insulation kit
EASY-E HT geothermal probe	✓	✓	✓	✓	✓	✓	-	-	✓	✓	✓	-	✓
EASY-E HT well water	✓	✓	✓	✓	✓	-	-	✓	✓	✓	✓	-	✓
EASY-E HTR geothermal probe	✓	✓	✓	✓	✓	✓	-	-	✓	✓	✓	✓	✓
EASY-E HTR well water	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	-	✓

Technical data

GEO EASY-E HT/HTR

Sizes		6	8	12	16	20	24	33
Winter functioning BO/W35								
Energy label		A++	A++	A++	A++	A++	A++	A++
Thermal power	kW	5,8	7,5	10,2	13,2	17,1	21,1	28,3
Compressor's absorbed power	kW	1,3	1,7	2,2	2,9	3,7	4,6	6,1
COP		4,43	4,57	4,68	4,60	4,60	4,64	4,62
Device								
Device's water flow rate	m³/h	0,99	1,30	1,75	2,26	2,93	3,63	4,87
Exchanger pressure loss	mca	0,3	0,3	0,5	0,7	0,7	0,8	1,0
Geothermal								
Cooling power to exchange in probe	kW	4,5	6,0	8,1	10,5	13,5	16,8	22,5
Probe liquid flow rate	m³/h	1,30	1,71	2,32	3,00	3,87	4,82	6,45
Exchanger pressure loss	mca	0,7	0,7	1,1	1,4	1,4	1,4	1,7
Domestic W5/W35								
Thermal power	kW	7,5	9,9	13,3	16,7	22,2	27,5	37,2
Compressor's absorbed power	kW	1,3	1,6	2,2	2,8	3,8	4,7	6,3
COP		5,85	6,10	6,14	6,04	5,88	5,86	5,95
Device								
Domestic water flow	m³/h	1,27	1,67	2,24	2,82	3,75	4,64	6,28
Exchanger pressure loss	mca	0,46	0,51	0,78	1,00	1,10	1,19	1,62
Well								
Cooling power to exchange in well	kW	6,2	8,2	11,1	13,9	18,4	22,7	30,9
Well liquid flow rate	m³/h	1,06	1,40	1,88	2,37	3,14	3,87	5,26
Exchanger's pressure loss	mca	0,3	0,4	0,6	0,7	0,7	0,9	0,9
Summer functioning B30/W18								
Cooling power	kW	9,5	12,5	16,6	20,9	27,5	34,3	43,8
Compressor's absorbed power	kW	1,3	1,5	2,1	2,8	3,8	4,9	6,7
COP		7,39	8,19	7,84	7,44	7,33	6,97	6,55
Device								
Device's water flow rate	m³/h	1,63	2,14	2,85	3,59	4,55	5,90	7,53
Device's head pressure	mca	0,7	0,8	1,2	1,5	3,3	1,6	1,9
Geothermal								
Thermal power to exchange in probe	kW	10,7	13,9	18,6	23,6	31,0	39,0	50,5
Probe's liquid flow rate	m³/h	3,07	2,39	3,20	4,06	5,33	6,71	8,69
Exchanger pressure loss	mca	0,9	1,0	1,5	2,0	3,4	2,4	3,0
Refrigerant					R 410a			
Compressor type					Scroll			
Number of compressors					1			
Power supply	V/Ph/Hz	230-50/400-3N-50			400-3N-50			
Hydraulic coupling				1"			1 1/4"	
Sound pressure at 1m	dB(A)	48	49	50	52	54	59	61
Weight (unpacked)	kg	112	117	127	139	172	197	215
Weight (packed)	kg	130	135	145	157	192	217	235

All indicated working conditions comply with the regulation EN14511



Dim.	Sizes	
	6-16	20-33
L	500	670
P	660	855
H	835	935
F	30	30

Code GEO EASY-E HT/HTR



EASY geothermal systems					
gas	model	Only hot GEO EASY-E HT		Hot/cold GEO EASY-E HTR	
		code	price	code	price
R410a	6 M	444100001		444100012	
	6 M + SMART START	444100002		444100013	
	6 T	444100003		444100014	
	8 M	444100004		444100015	
	8 M + SMART START	444100005		444100016	
	8 T	444100006		444100017	
	12 M	444100009		444100018	
	12 M + SMART START	444100007		444100019	
	12 T	444100008		444100020	
	16 T	444100010		444100021	
	20 T	444100011		444100022	
	24 T	444010023		444010025	
	33T	444010024		444010026	

*R indicated that the heat pump is reversible

Accessories

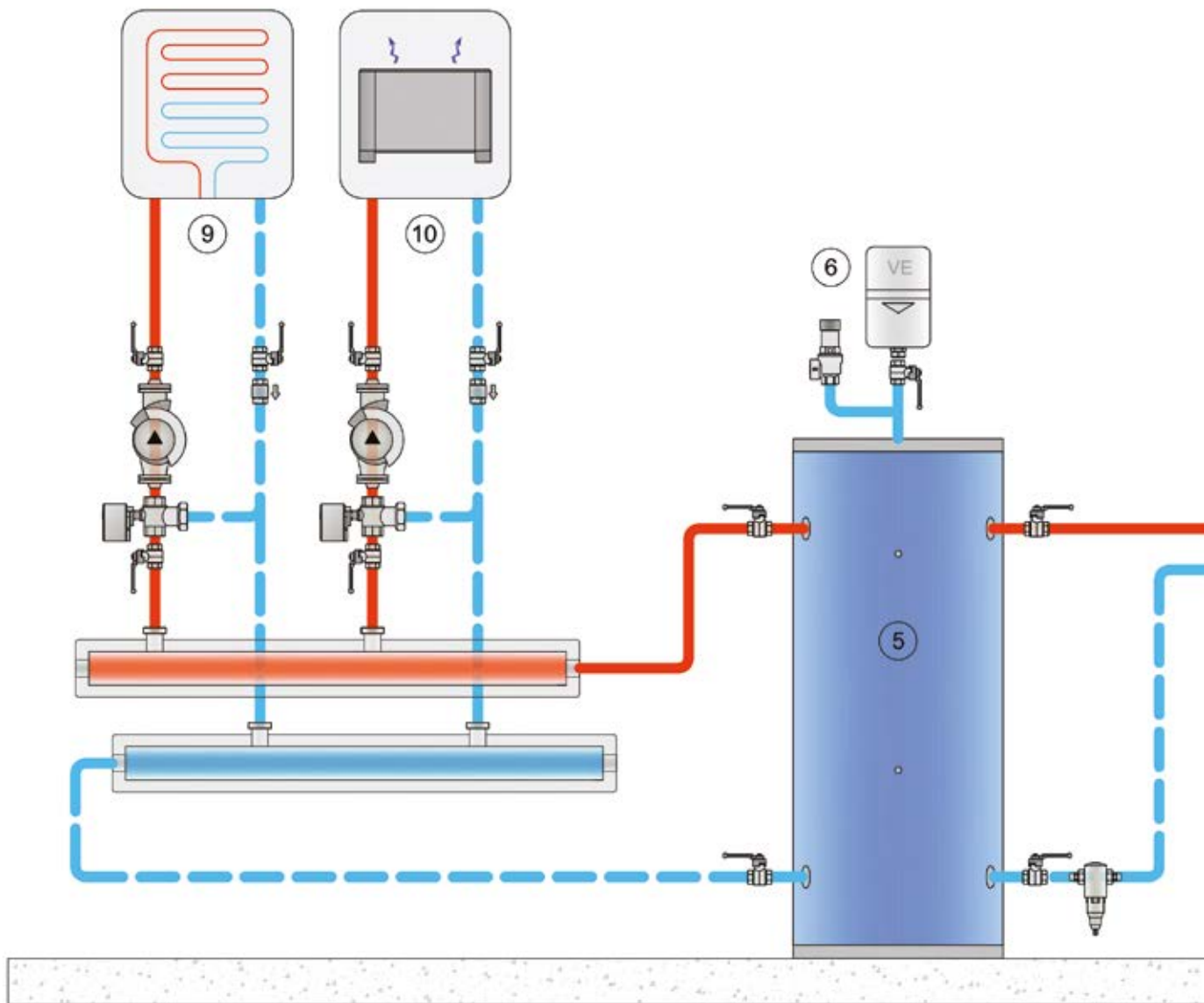
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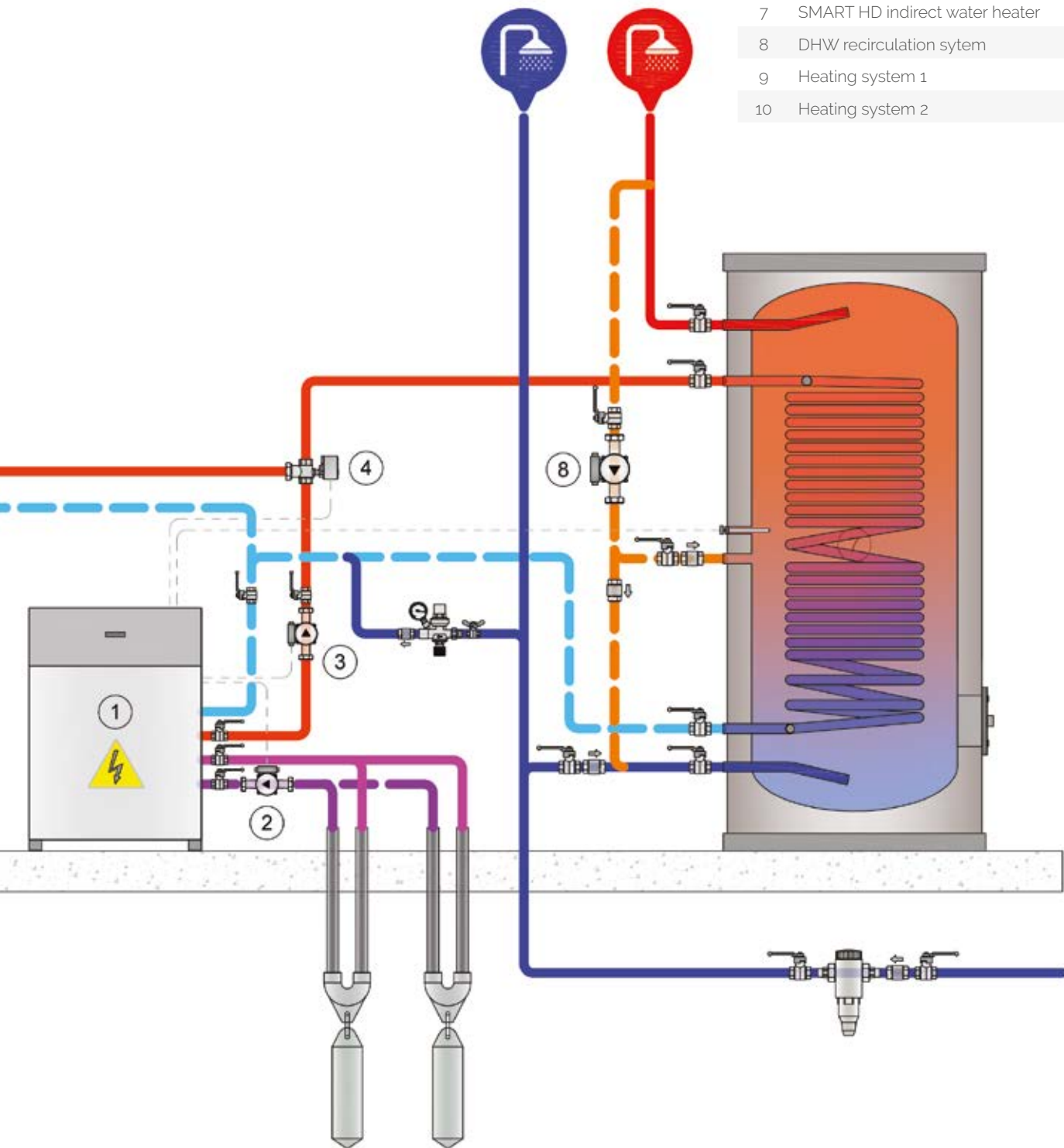
Device accessories			
code	description	price	function
421120017	MFREE EASY-E : 6-8		Module for passive cooling – applied to size 6-8
421120018	MFREE EASY-E : 12-16		Module for passive cooling – applied to size 12-16
421120019	MFREE EASY-E : 20-24-33		Module for passive cooling – applied to size 20-24-33
452010025	MFREE X EASY-E HTR control kit		Makes the functioning of the MFREE EASY kit possible with the GEO easy HTR
452010026	MFREE X EASY-E HT control kit		Makes the functioning of the MFREE EASY kit possible with the GEO easy HT
452020028	EASY-E Domestic deviation valve kit		Deviation valve for DHW production
452010024	EASY-E contr. Domestic deviation valve kit		Makes the functioning of the easy domestic deviation valve kit possible

Accessories for control and regulation			
code	description	price	function
452010008	External air probe kit		Makes it possible to check the outside air temperature for the EASY series with box, external assembly

Accessori Macchina			
code	description	price	function
452020097	Circ with inverter kit EASY-E 6-8-12-16 for device		Circulator with inverter for the installation (external assembly) sizes 6 to 16 kW
452020098	Circ with inverter kit EASY-E 20 for device		Circulator with inverter for the installation (external assembly) size 20 kW
452020099	Circ with inverter kit EASY-E 24 for device		Circulator with inverter for the installation (external assembly) size 24 kW
452020100	Circ with inverter kit EASY-E 33 for device		Circulator with inverter for the installation (external assembly) size 33 kW
452020101	Circ with inverter kit EASY-E 6-8 for geothermal		Circulator with inverter for the installation (external assembly) sizes 6 to 8 kW
452020102	Circ with inverter kit EASY-E 12-16 for geothermal		Circulator with inverter for the installation (external assembly) sizes 12 to 16 kW
452020103	Circ with inverter kit EASY-E 20 for device		Circulator with inverter for the installation (external assembly) size 20 kW
452020104	Circ with inverter kit EASY-E 24 for device		Circulator with inverter for the installation (external assembly) size 24 kW
452020105	Circ with inverter kit EASY-E 33 for device		Circulator with inverter for the installation (external assembly) size 33 kW
452010068	Pump control kit Modulating geothermal unit phase cut 0-10 V		Regulates the velocity of the geothermal circulator, through evaporation and condensation of the installation
452020047	Solenoid kit for well EASY-E HT/HTR 6-8-12		To use in case of connection to the well
452020052	Solenoid kit for well EASY-E HT/HTR 16-20		To use in case of connection to the well
452020048	Solenoid kit for well EASY-E HT/HTR 24		To use in case of connection to the well
452020051	Solenoid kit for well EASY-E HT/HTR 33		To use in case of connection to the well
452020026	Pressostat kit for well EASY-E HTR 6-8		To use on the HTR in case of connection to the well, for cooling purposes
452020044	Pressostat kit for well EASY-E HTR 12-16		To use on the HTR in case of connection to the well, for cooling purposes
452020045	Pressostat kit for well EASY-E HTR 20-24		To use on the HTR in case of connection to the well, for cooling purposes
452020046	Pressostat kit for well EASY-E HTR 33		To use on the HTR in case of connection to the well, for cooling purposes
452020116	Soundproof cover kit GEO 6-8-12-16		Soundproofing for compressor, size 6 to 16 kW
452020117	Soundproof cover kit GEO 20		Soundproofing for compressor, size 20 kW
452020120	Soundproof cover kit EASY-E HT/HTR 24		Soundproofing for compressor, size 24 kW
452020121	KIT CAPPOTTINO INSON. EASY-E HT/HTR 33		Insonorizzante per compressore, taglia 33 kW
452020023	Carter resistor kit EASY-E 6-20		Resistance for heating the oil in the compressor
452020024	Carter resistor kit EASY-E 24-33		Resistance for heating the oil in the compressor
452020025	Anti-freeze resistor kit for exchanger EASY-E 6-33		Anti-freeze resistor for the exchanger

Layout GEO EASY-E HT / HTR





- 1 GEO EASY-E HT/HTR heat pump
- 2 Geothermal pump kit
- 3 System pump kit
- 4 3 way diverting valve for DHW sytem
- 5 Accumulator tank, VKG-HC model
- 6 Safety kit
- 7 SMART HD indirect water heater
- 8 DHW recirculation sytem
- 9 Heating system 1
- 10 Heating system 2