

Technical specification

Ground source heat pumps						
		geoTHERM 6kW	geoTHERM 8kW	geoTHERM 10kW	geoTHERM 14kW	geoTHERM 17kW
	Unit	VWS 61/2	VWS 81/2	VWS 101/2	VWS 141/2	VWS 171/2
Dimensions						
Height without connections	mm	1200	1200	1200	1200	1200
Width	mm	600	600	600	600	600
Depth without/with column	mm	650/840	650/840	650/840	650/840	650/840
Weight with/without packaging	kg	156/141	163/148	167/152	187/172	194/179
Electric connection						
Compressor and auxiliary heater		1/N/PE 230V 50Hz	1/N/PE 230V 50Hz	1/N/PE 230V 50Hz	3/N/PE 400V 50Hz	3/N/PE 400V 50Hz
Control circuit		1/N/PE 230V 50Hz	1/N/PE 230V 50Hz	1/N/PE 230V 50Hz	1/N/PE 230V 50Hz	1/N/PE 230V 50Hz
Slow-blow fuse	A	16/20	25/25	25/25	3x25	2x25
Starting current without limiter	A	-	-	-	64	74
Starting current with limiter	A	<45	<45	<45	<25	<25
Electric power consumption						
- max. at B20W60	kW	2.8	4.0	4.9	6.8	7.7
- Auxiliary heating (backup heater)	kW	2/4	2/4	2/4	2/4/6	2/4/6
System of protection EN 60529		IP 20	IP 20	IP 20	IP 20	IP 20
Heat source circuit/ground loop circuit						
Brine type		ethylene glycol 30%	ethylene glycol 30%	ethylene glycol 30%	ethylene glycol 30%	ethylene glycol 30%
Max. operating pressure	bar	3	3	3	3	3
Min. inlet temperature	°C	-10	-10	-10	-10	-10
Max. inlet temperature	°C	20	20	20	20	20
Rated volume flow ΔT 3K	l/h	1453	1936	2530	3334	3939
Residual pump head ΔT 3K	mbar	381	332	263	252	277
Electric power consumption of the pump	W	132	132	132	205	210
Heating circuit						
Max. operating pressure	bar	3	3	3	3	3
Min. flow temperature	°C	25	25	25	25	25
Max. flow temperature	°C	62	62	62	62	62
Rated volume flow ΔT 10K	l/h	517	697	848	1187	1538
Residual pump head ΔT 10K	mbar	486	468	450	551	603
Electric power consumption of the pump	W	93	93	93	132	205
Refrigerant circuit						
Refrigerant type		R407C	R407C	R407C	R407C	R407C
Quantity	kg	1.9	2.2	2.05	2.9	3.05
Admissible operating over pressure	bar	29	29	29	29	29
Compressor type/oil		Scroll/Ester	Scroll/Ester	Scroll/Ester	Scroll/Ester	Scroll/Ester
Inside acoustic power	dB(A)	49	51	53	52	53
Performance data						
Heating output (BOW35 ΔT 5K acc. to EN 14511)	kW	6.0	8.1	10.5	13.8	17.3
Connected (power) consumption	kW	1.4	1.9	2.5	3.2	4.1
COP		4.2	4.2	4.2	4.3	4.3
Heating output (BOW55 ΔT 5K acc. to EN)	kW	5.5	7.5	9.4	13.6	16.1
Connected (power) consumption	kW	2.1	2.8	3.4	4.6	5.6
COP		2.6	2.7	2.8	2.9	2.9