geoTHERM mini

Wall-hung ground source heat pump

Technical specification



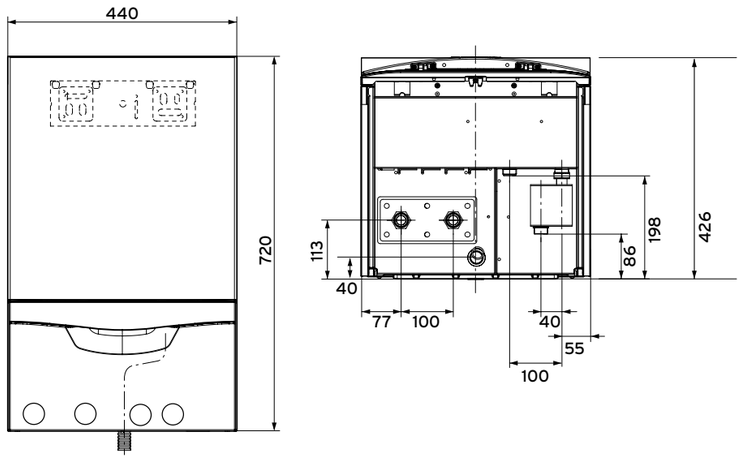
- Wall-hung ground source heat pump, which is compact for easy siting
- Ideal for multiple occupancy buildings such as high-rise flats, apartments and small buildings
- Provides an efficient solution for low-energy new build properties
- Compatible with shared ground array and bore hole systems which is also eligible for RHI

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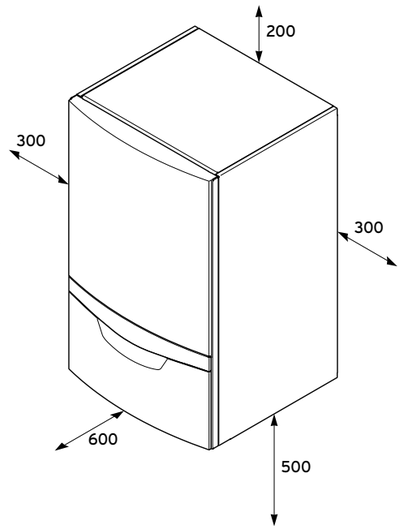
■ Heating ■ Hot water ■ Renewables

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Dimensions



Clearances



NOTE: all measurements are in mm

Technical specification	Unit	geoTHERM mini
Article number		0020260514
Heat pump type		Brine / water heat pump
Product dimensions, height	mm	720
Product dimensions, width	mm	440
Product dimensions, depth	mm	426
Weight, with packaging	kg	67
Weight, without packaging	kg	59
Weight, ready for operation	kg	66
Installation		Indoor / dry
Permissible ambient temperature at installation site	°C	7-40
Electrical data		
Heating circuit / compressor	V/Hz	230 / 50
Control circuit	V/Hz	230 / 50
Fuse characteristic, type B	A	16
Optional building earth leakage circuit breaker		RCB type A or RCB type B
Inrush current without soft starter	A	23
Minimum electrical power consumption for B10/W20	kW	0.6
Maximum electrical power consumption for B20/W55	kW	1
Maximum electrical power consumption in continuous operation	A	4.7
IP rating		IP 20
ErP rating at 35˚C	band	A++
ErP rating at 55˚C	band	A+
Hydraulic connections		
Heating and brine flow / return	mm	22

Heat circuit / brine circuit		
Volume of the brine circuit	l	3.5
Minimum pressure of brine fluid	bar	0.5
Maximum pressure of brine fluid	bar	3.0
Minimum brine input temperature when heating	°C	-10
Maximum brine input temperature when heating	°C	20
Nominal flow rate ΔT 3K for B0/W35	l/hr	600
Nominal flow rate B0 ΔT 3K/W55 ΔT 8K	l/hr	450
Maximum rest pressure head B0 ΔT 3K/W35 ΔT 5K	mbar	590
Maximum rest pressure head B0 ΔT 3K/W55 ΔT 8K	mbar	640
Electrical power / rated power brine pump	W	3-70
Electrical power for brine pump at B0/W35 ΔT 3K at 250 mbar pressure drop in the external source circuit	W	21
Brine type		Ethylene glycol 30% volume
Heating circuit		
Volume of the heating circuit in the heat pump	l	3.5
Minimum pressure	bar	0.5
Maximum pressure	bar	3.0
Minimum flow temperature heating	°C	20
Maximum flow temperature heating	°C	60
Nominal flow rate B0 ΔT 3K/W35 ΔT 5K	l/hr	470
Rest pressure head B0 ΔT 3K/W35 ΔT 5K	mbar	400
Nominal flow rate B0 ΔT 3K/W55 ΔT 8K	l/hr	250
Pressure head B0 ΔT 3K/W55 ΔT 8K	mbar	680
Electrical power / rated power heating circuit pump	W	4-63
Electrical power heating circuit pump at B0/W35 ΔT 5K at 250 mbar pressure drop in the external heating circuit	W	21
Heating output B0/W35 ΔT 5K	kW	2.5
Power consumption B0/W35 ΔT 5K	kW	0.7
Output figure B0/W35 ΔT 5K / coefficient of performance EN 14511		4
Heating output B0/W45 ΔT 5K	kW	2.3
Power consumption B0/W45 ΔT 5K	kW	0.8
Output figure B0/W45 ΔT 5K / coefficient of performance EN 14511		3.1
Heating output B0/W55 ΔT 8K	kW	2.2
Power consumption B0/W55 ΔT 8K	kW	0.9
Output figure B0/W55 ΔT 8K / coefficient of performance EN 14511		2.5
Sound power level B0/W35 EN 12102/EN 14511 L_{WI} in heating mode	dB(A)	45
Refrigerant circuit		
Refrigerant type		R 410 A
Volume of refrigerant circuit in the heat pump	kg	0.7
Global warming potential in accordance with EU No. 517/2014		2088
CO_2 equivalent	t	1.46
Expansion valve type		Electrical
Calculation pressure maximum	bar	41.5
Compressor type		Rotary piston
Oil type		FV50S
Oil filling quantity	l	0.3

MCS SCoP performance table	
35˚C	3.99
40˚C	3.53
45˚C	3.06
50˚C	3.02
55˚C	2.97

Customer service support contact details

Sales Support

Vaillant products are available to purchase from reputable heating merchants in the UK. To find contact details for your nearest Vaillant sales representative:
Telephone: 0345 602 0262

Technical Enquiries

For technical assistance:
Telephone: 0330 100 3540
Email: aftersales@vaillant.co.uk

General Enquiries

If you have a general enquiry our friendly reception staff will happily point you in the right direction:
Telephone: 0345 602 2922

Renewable Service

For renewable products aftersales servicing and commissioning:
Telephone: 0330 100 3540
Email: aftersales@vaillant.co.uk

Training Enquiries

Vaillant provide many different training courses. For more information:
Telephone: 0345 601 8885
Email: training.enquiriesuk@vaillant-group.com

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