

High-efficiency ground-to-water heat pump

SI50TU

The SITU range of ground source heat pumps is able to meet heat loads from 18kW to 138kW with a single unit and if banked together can achieve outputs up to 1932kW. The high efficiency design delivers excellent seasonal performance which helps to meet building regulations and reduce running costs.



- High efficiency and high output ground source heat pump with electronic expansion valve and electronic pump control. Designed for indoor installation.
- Two scroll compressors to flexibly and efficiently adapt to fluctuating heat demand with intelligent load switching between compressors to maximise compressor life.
- Supplied complete with integrated WPM Econ5Plus heat pump manager.
- Reduced operational noise through the use of an encapsulated compressor housing and a free-swinging compressor base plate.



Model Reference	SI50TU
Max. flow temperature	62 °C
Brine operating temperatures	-5 to 25 °C
Heat output B0/W35 / COP B0/W35*	
1 compressor	27.40 kW / 5.40
2 compressors	52.00 kW / 5.00
Heat output B0/W45 / COP B0/W45	
1 compressor	25.10 kW / 4.00
2 compressors	47.80 kW / 3.70
Nominal power consumption at B0/W35*	10.4 kW
Sound power level	61 dB (A)
Refrigerant	R410A / 16.8 kg
Max. heating water flow rate / Pressure drop	8.8 m ³ /h / 5000 Pa
Heat source flow (min.)	9.6 m ³ /h
Heating circulation pump / control**	PP32-100G / 0-10V
Brine circulation pump / control**	PP40-120F / 0-10V
Dimensions (W x H x D)	1000 x 1665 x 805 mm
Weight	465 kg
Rated voltage	3/PE ~400 V, 50 Hz
Starting current with soft starter	56 A
Fuse protection***	C 40 A
Connection heating	Rp 1 ½ inch
Heat source connection	Rp 2 ½ inch
ETL listed	No
MCS Certified	N/A
SAP Q listed	No

*Determined in accordance with EN14511 when used with the stated circulation pumps.

**Circulation pumps supplied separately

***Fuse and cable to be determined in accordance with BS7671