

## High-efficiency ground-to-water heat pump

### SI90TU

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	SI90TU
Max. flow temperature	62 °C
Brine operating temperatures	-5 to 25 °C
Heat output B0/W35 / COP B0/W35*	
1 compressor	45.50 kW / 5.00
2 compressors	86.00 kW / 4.70
Heat output B0/W45 / COP B0/W45	
1 compressor	42.50 kW / 3.80
2 compressors	81.70 kW / 3.60
Nominal power consumption at B0/W35*	18.5 kW
Sound power level	66 dB (A)
Refrigerant	R410A / 23 kg
Max. heating water flow rate / Pressure drop	15.1 m <sup>3</sup> /h / 8500 Pa
Heat source flow (min.)	17.1 m <sup>3</sup> /h
Heating circulation pump / control**	PP65-80F / 0-10V
Brine circulation pump / control**	PP65-120F / 0-10V
Dimensions (W x H x D)	1350 x 1900 x 805 mm
Weight	604 kg
Rated voltage	3/PE ~400 V, 50 Hz
Starting current with soft starter	53 A
Fuse protection***	C 80 A
Connection heating	Rp 2 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