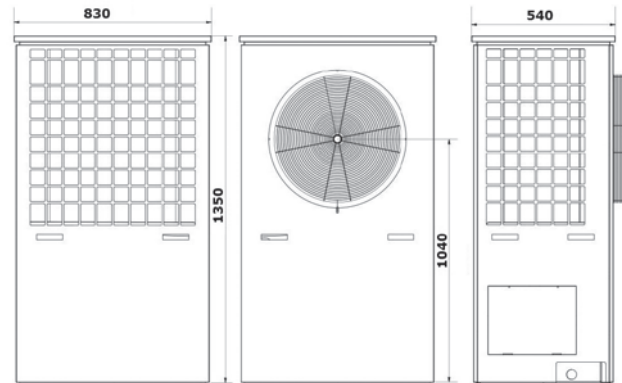


DATASHEET THURSO

Air Source Heat pump

| | | |
|--|---|------|
| Product Name | Thurso | |
| Product Number | THUR410MOD1 | |
| Heat Pump Space Heater - 55°C | ErP Rating | A++ |
| | SSHEE*2(η_s) | 125% |
| | SCOP | 3.20 |
| Heat Pump Space Heater - 35°C | ErP Rating | A++ |
| | SSHEE*2(η_s) | 153% |
| | SCOP | 3.91 |
| Heat pump Combination Heater - Extra large Profile | ErP Rating | A |
| | Water Heating Energy Efficiency (η_{wh}) | 85% |
| Heating (Air -3°C/ Water 35°C) | Rated Output (kW) | 8.3 |
| | Power Consumption (kW) | 3.0 |
| | COP | 2.8 |
| Maximum Outlet Temperature (°C) | 65 | |
| Weight (kg) | 150 | |
| Heat Pump Voltage / Frequency | 230V AC 50Hz | |
| Max Running Current (A) Compressor / Booster | 20 / 27 | |
| Max Electrical Power (kW) Compressor / Booster | 4.5 / 6.1 | |
| Sound Pressure Level @ 1m (dba) * 1,3 | 55 | |
| Operating Ambient Temperature (°C) | -20 / +30 | |
| Maximum Starting Current (A) | 10 | |



| Model | H | W | D |
|--------|------|-----|-----|
| Thurso | 1350 | 825 | 535 |

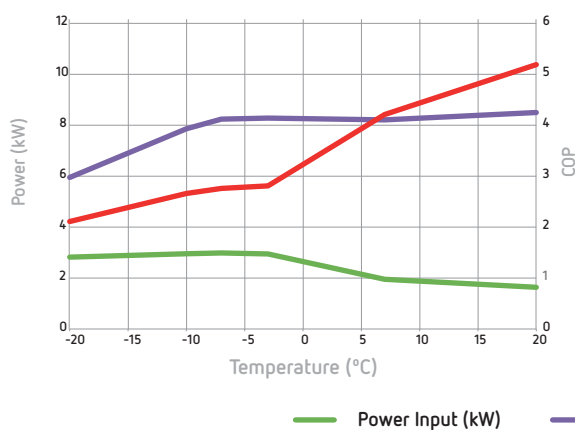
All sizes in mm

*1 - Tested at Outdoor temp 7deg.C DB/ 6deg.C WB, Inlet / Outlet water temp 30/35deg.C as per BS EN 14511.

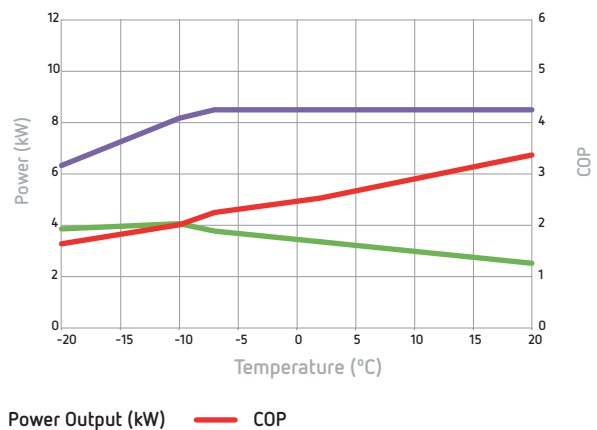
*2 - Seasonal Space Heating Energy Efficiency

*3 - Sound power level is 63.4dBA as tested to BS EN 12102

Thurso Performance at 35°C Outlet Temperature



Thurso Performance at 55°C Outlet Temperature



CASE STUDY 1

- ✓ New build
- ✓ Under floor heating
- ✓ Hot water
- ✓ 1x Global Energy Systems Air Source Heat Pump

GARDEN CENTRE CAFE

The owner of this Garden Centre was extending the premises to include a Cafe, requiring under floor heating and hot water.

After the build was complete Global Energy Systems installed an air source heat pump to provide the full heat and hot water demand.

Since installation in April 2018 the owner has benefitted from reduced running costs as well as being accredited onto the non-domestic RHI Scheme which will earn payments of up to £1,044 Per year for the next 20 years.



CASE STUDY 2

- ✓ Victorian semi detached house
- ✓ 4 bedrooms
- ✓ Radiators
- ✓ Hot water
- ✓ 1 x Global Energy Systems Air Source Heat Pump
- ✓ RHI eligible

DOMESTIC RETRO FIT

The owners of this Victorian semi detached house are benefitting from constant warmth and reduced energy bills thanks to an air source heat pump by Global Energy Systems.

They chose a heat pump when the boiler for their existing heating needed to be replaced. Having already made their home increasingly energy efficient, they sought the best possible heating option.

Choosing Global Energy Systems on recommendation from friends, they had a Global Energy Systems air source heat pump installed, and upgraded the radiators to ensure maximum efficiency. They chose this particular heat pump because it is ideal for providing high levels of heat and hot water.

The switch to renewable heating has saved the owners a considerable amount of money on their heating bills. It has also made the whole house feel much warmer and comfortable.



CASE STUDY 3

- ✓ Indoor swimming pool
- ✓ 7m x 3m pool size
- ✓ 1 x Global Energy Systems Air Source Heat Pump
- ✓ 2018 running cost estimate £1,200
- ✓ Estimated saving vs oil £600

INDOOR DOMESTIC POOL

This customer wanted to run their pool all year round without the exposure to the cost of standard heating methods. The pool is used daily and is covered whenever not on use to ensure that energy is not lost unnecessarily.

The single air source heat pump is located in the plant room drawing air from the pool room. This recycles lost heat from the pool, captures any solar gain and acts as a dehumidifier when the heat pump is running.

Heating costs have averaged £100 a month since the installation of the heat pump, this includes hot water for the house and heating for the pool room.

When asked to comment, the owners said that they were "delighted" with the system.



For more information visit www.globalenergysystems.co.uk or call +44 (0) 3333 444 414

