

## SPECIFICATION CLAUSE

### AMICUS LAHP-602HT, HIGH TEMPERATURE LOW NOISE AIR SOURCE HEAT PUMP

The **Amicus Air Source Heat Pump** is a high efficiency heat pump optimised to provide heating or domestic hot water. It captures low-grade energy from the surrounding air and in combination with an electrically driven compressor raises the temperature for use with LTHW systems at exceptional efficiencies. A Co-efficient of Performance (COP) of up to 4.4 can be achieved with a flow temperature of 35°C and an ambient temperature of 7°C according to EN14511. The unit is suitable for external installation only, can operate at temperatures as low as -20°C, and is equipped with an antifreeze kit. LTHW can be supplied at up to 63°C for heating and domestic hot water applications.

#### Specifications shall be as follows:-

- Scroll compressors with Economised Vapour Injection
- Microprocessor control including DHW control, Anti-Legionella 0-10V and fault signal for BMS
- Floating frame Acoustic damping system
- Total Power input of 14.9kW
- Heating capacity of 63.7kW as measured according to EN14511 at 35°C flow temperature and 7°C ambient air temperature
- COP of 4.29 as measured according to EN14511 at 35°C flow temperature and 7°C ambient air temperature
- Sound pressure at 10m according to ISO9614 46db
- Refrigerant pressure gauges
- Condensate drip tray
- Antifreeze kit
- Hydraulic kit including LTHW Primary pump, expansion vessel, safety valve

#### Ancillaries (delete as appropriate)

Primary Buffer Vessel

HSV Thermal Store

Anti-vibration mountings single unit

Remote control panel

Electronic soft start

| ErP Data according to EN811/2013                                      |                 |     |       |
|---|-----------------|-----|-------|
| Rated Heat Output (Average Climate Conditions)                        | P-rated         | kW  | 46.9  |
| Seasonal Space Heating Energy Efficiency (Average Climate Conditions) | $\eta$          | %   | 116   |
| Annual Energy Consumption (Average Climate Conditions)                | Q <sub>he</sub> | kWh | 32646 |
| Seasonal Space Heating Efficiency Class (Average Climate Conditions)  | -               | -   | A+    |
| Sound Power Level Outdoors (Average Climate Conditions)               | L <sub>wa</sub> | dB  | 74    |

