SPECIFICATION CLAUSE

AMICUS LAHP-2004HT, 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 42.7kW
- Heating capacity of 183kW as measured according to EN14511 at 35°C flow temperature and 7°C ambient air temperature
- COP of 4.2 as measured according to EN14511 at 35°C flow temperature and 7°C ambient air temperature
- Sound pressure at 10m according to ISO9614 52db
- 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-Higher temperature			
Rated Heat Output (Average Climate Conditions)	P-rated	kW	134.1
Seasonal Space Heating Energy Efficiency (Average Climate Conditions)	η	%	106
Annual Energy Consumption (Average Climate Conditions)	Qhe	GJ	101668
Seasonal Space Heating Efficiency Class (Average Climate Conditions)	-	-	A+
Sound Power Level Outdoors (Average Climate Conditions)	Lwa	dB	52

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