

Equipment Specification

Air Source Heat Pumps



CLIENT NAME

Shuttleworth College

SITE LOCATION

Old Warden Park
Biggleswade
Bedfordshire
SG18 9DX

PROJECT DESCRIPTION

Public Sector Decarbonization Scheme – Phase 3b

CONSULTANT

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SCOPE OF DELIVERY

Supply, deliver and commission **two** air-to-water air source heat pumps that meet or exceed the following specifications.

UNIT CHARACTERISTICS

Unit Type: Package air to water heat pump
Installation Type: Outdoor
Refrigerant Type: R32
Reverse Cycle Heating/Cooling: Heating only
Heating Capacity at Design Conditions: $\pm 250\text{kW}$
Minimum Capacity Turndown: 25%

DESIGN CONDITIONS

Heating

Outdoor Dry Bulb Temperature: -5.0°C
Outdoor Coincidental Relative Humidity: 90%
Leaving Water Temperature: 47.0°C
Differential Water Temperature: 10.0K

Cooling

Not applicable

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UNIT FEATURES & OPTIONS

- EC fans
- Low noise
- Soft start
- Coil fin corrosion Protection
- Hydronic Module:
 - Twin-pump
 - Variable speed
 - Constant differential temperature control
 - 150kPa available external head at design flow based on maximum capacity at design conditions
- Heat exchanger & hydronic module frost protection
- Insulated evaporator lines
- Compressor suction & discharge valves
- Electric coil defrost
- Remote start/stop input for volt-free contact
- Fault indication output with volt-free contact

TENDER PROCESS

Tender Submission: tenders@bedford.ac.uk

Submission Date: On or before October 13, 2023

Evaluation: Tender evaluation will include but not be limited to; cost, delivery time, after sales service & support and technical merit (build quality, energy efficiency, operating range, noise levels etc.)

Submission Notes: Tenders are considered invalid if any other parties other than those shown above are included in the mailing list