



CLADE

Customer: Maxfordham

Project: Dukes FAC 81 Belsize Park Av

Date: 20/11/2023 13:36

Dear Aaron

Thank you for your enquiry regarding a heat pump for your project. We have noted your requirements for extremely low noise levels and provision of both heating and cooling.

We are able to manufacturer a bespoke heat pump for this project that meets your requirements. This will be based on our standard Acer compressor pack with an acoustic enclosure similar to that used on an ultra-low noise design. Additionally we will use heat and cool technology from our Spruce range to provide both services.

Note that whilst this is a bespoke unit for your project and not generally available it is a combination of established technologies to achieve your requirements.

Acer compressor pack

- Single high quality Italian compressor with full oil management system, receiver, inverter drive, VSD export pump, PLC controls, Alpha Laval heat exchangers and full data availability.
- Available in 50, 75 and 100KW capacities at -5C ambient conditions
- Heating performance will be exactly the same as the standard Acer

Acoustic housing

- Manufactured to achieve the 33db(A) at one meter sound pressure levels
- This housing replaces the standard Acer housing, reducing space and cost vs. our competitors.
- Based on Acer ultra low noise model, n.b. this model was withdrawn from availability because the low-noise version met the market demand.
- Colour to suit your planning requirements, please specify at the time of order.

Clade Engineering Services Ltd
Unit R3 Gildersome Spur Industrial Estate
Stone Pits Lane, Morley
LEEDS
LS27 7JZ

Web www.clade-es.com
Email sales@clade-es.com
Tel. 0113 887 9604



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Cooling service

- Based on Clade Spruce technology to provide cooling.
- Heat or cool is provided within the heat pump operating envelope.
- We will size the compressor and coil to achieve whichever service is considered the lead, at the capacity and flow, return and ambient temperatures you require.

As this product is bespoke information will be limited until an order is placed, we will then complete the full design and provide all the relevant information.

As a manufacturer of bespoke heat pumps we understand that for some customers further assurance is required. Therefore we will offer a performance guarantee against the agreed specification.

Yours sincerely

T W Rook CEng MIMechE
CMO Clade Engineering.

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