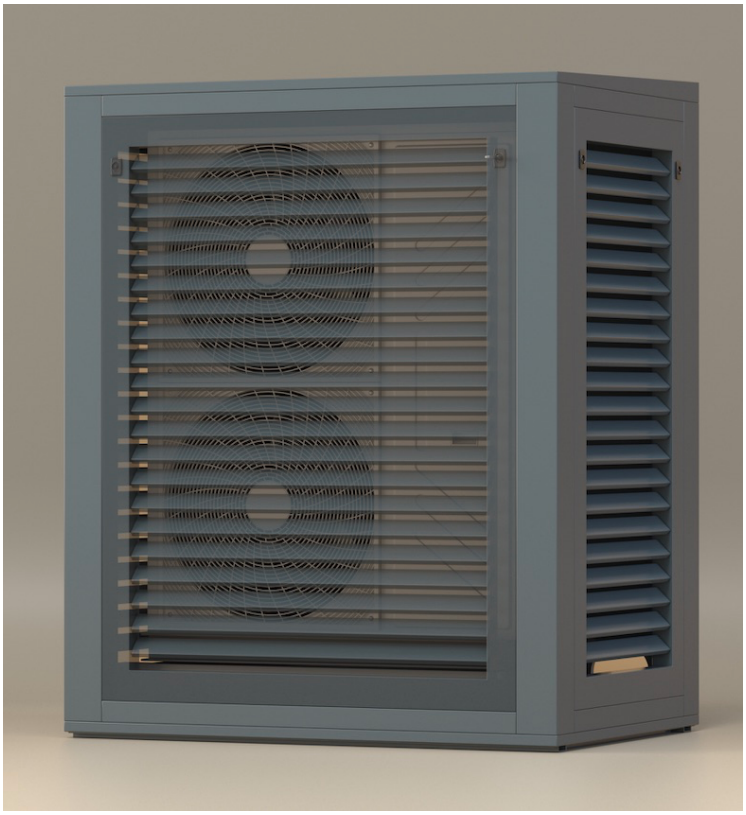
SPECIFICATION OF COMPONENTS

ENVIRON SC LOUVRED ACOUSTIC ENCLOSURE FOR HORIZONTAL FLOW AIR CONDITIONING AND AIR SOURCE HEAT PUMPS

AC Model: Daikin RXYSQ5TV1
Dimensions W900 x D320 x H1345

Environ SC100
Dimensions W1250 x D1000 x H1700



Environ SC100 is a proprietary high performance acoustic housing specifically designed for small / medium sized air conditioning and air sourced heat pump systems.

Acoustic housing consists of the following components.

1) Air Intake Acoustic Louvres
2) Fan Discharge Acoustic Louvres
3) Acoustic Walls/Panels
4) Anti-Vibration Base Assembly

Air intake acoustic louvres

Each louvre module consists of two fabricated galvanised steel channel frames fabricated from 1.8mm galvanised steel sheet into which are fitted an array of horizontal parallel blades at a 40 degree angle. The upper surface of each blade is fabricated from 1.2mm galvanised steel sheet and the lower surface is fabricated from 0.8mm galvanised perforated or expanded steel sheet. Each louvres blade is 150mm in depth.

FT-30 high performance acoustic foam material is applied to all inner blade faces minimising disruption to air movement. Air intake louvres are located at the rear of the SC100 housing.

Octave Band Centre Frequency Hz	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Insertion Loss dB High Spec	5	6	9	14	19	20	17	16
Overall 7-9dBA sound reduction range								

Acoustic Walls/Panels

All external & Internal panelling is fabricated using 1.8mm galvanised steel sheet applied with 25mm FT-70 high performance acoustic foam.

Anti-Vibration Base Assembly

M8 30x20 Anti-vibration mounts integrated into base design.

Test Standard:

BS EN ISO 140-3 Acoustics - Measurement of Sound Insulation in Buildings and of Building Elements - Part 1: Airborne Sound Insulation

Sound Level Measuring Equipment:

Norsonic 830 RTA Precision Sound Analyser Type 1
CEL 284/2 Acoustic Calibrator Type 1
JBL Loudspeaker driven by CEL Loudspeaker driven by 830 White Noise Source

Support Information:

Measurement carried out using the BS3740 technique, insofar as measurements were taken in each quad- rant and the results averaged. Test Room: W 6m x D 16m x H 5m. Background noise in the semi-reverberant test room was such as not to interfere with the practical measurements