

## SPECIFICATION OF COMPONENTS

### ENVIRON ELV ACOUSTIC ENCLOSURE – Air Conditioning & Heat Pumps

Environ ELV is a proprietary high performance acoustic housing specifically designed to DIN ISO 8015 standards.

Acoustic housing consists of the following components.

- 1) Intake & Discharge Airways
- 2) Ventilation Grilles
- 3) Acoustic Foam
- 4) Plenum Panels
- 5) Anti-Vibration Mounts
- 6) Drain Tray
- 7) Standard RAL7015 (can be specified)

#### Enclosure Construction

Acoustic enclosure panels are fabricated in Zintec Cold Rolled sheet steel to DIN ISO 9001 manufacturing standards. All exterior panels have a Polyester Powder Coat finish. All relevant internal faces have 25mm FT-70 high performance acoustic foam applied.

#### Structure Walls/Panels

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

Typical Panel Performance;

Octave Band Centre Frequency Hz	63	125	250	500	1k	2k	4k	8k
Insertion Loss dB	18	21	27	33	40	40	43	42

#### Anti-Vibration Base Assembly

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

#### ELV Enclosure System – Acoustic Performance

Octave Band Centre Frequency Hz	63	125	250	500	1k	2k	4k	8k
Insertion Loss dB	10	12	18	27	34	36	36	37

#### In-situ sound reduction performance 18-22dBA (free field)

**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 quadrant 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