

TECHNICAL DATA SHEET

SH Pod Soundproofed Casing

Description

SH Pod is the soundproofed casing for outdoor air conditioning units and heat pumps, leveraging the synergy of the innovative Slim Hurdle™ and Quiet Leaf™ technologies. Enables a substantial reduction in noise emissions from the units without introducing significant pressure drop, thus maintaining 100% system performance, in a compact footprint. Suitable for installation on both floor-mounted and suspended units.

Intended use

The SH Pod sound-absorbing casing can be installed:

- To attenuate noise emissions from outdoor units while preserving system performance.
- To protect units against weathering effects, including hail.
- For screening outdoor units, enabling full colour customisation.

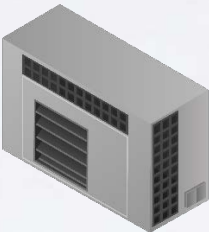
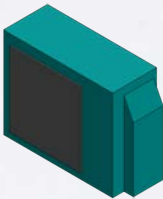
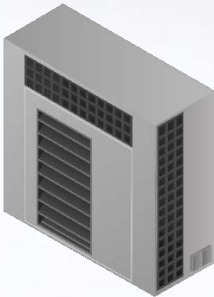

Features

- Internal baffles Thickness: 20 mm
- Net open area: up to 100%
- External Cladding Thickness: 13 mm
- Distance from the unit: 100–150 mm
SH Pod can always be positioned within the required clearance distances (tested)
- Internal sound-absorbing layer: Noise Layer™ 10 Black – 918 gr/m².
- Shear Damping Mass: Damping Bulk™ 7 Mag. – 5,1 kg/m²
- Operating Temperature Range: from -20°C to +70°C
- Sound Absorption Coefficient (α_w): 0,90 – 0,95

Fields of application

- Commercial buildings
- Offices and business centres
- Residential buildings
- Industrial plants and production facilities
- Healthcare environments

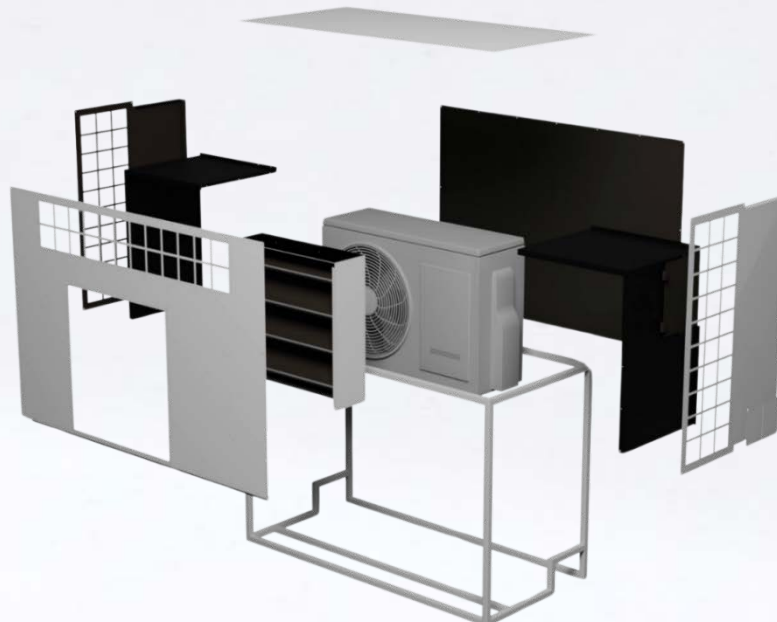
Variants

Product	Casing dimensions	Model	Machine dimensions	Machine
SH Pod Medium	<ul style="list-style-type: none"> L: 1550 D: 750 H: 1050 		<ul style="list-style-type: none"> L: 1000 D: 400 H: 800 	
SH Pod XL	<ul style="list-style-type: none"> L: 1800 D: 800 H: 1700 		<ul style="list-style-type: none"> L: 1150 D: 450 H: 1350 	

Accessories

- Anchoring brackets for suspended installation
- Bottom panel for underside closure when suspended

Detailed layout



Enhanced aesthetic finish

All casing components are made of galvanised steel.

Coating available in 3 finishes (gloss, matte, and textured), customised in any colour from the full RAL chart.

Pressure drop

<u>SH Pod M</u>	Calculation results	
Gas velocity in the duct	1.375	m/s
Internal wall roughness	0.012197	r/d
Reynolds number	78347	
Friction coefficient (Colebrook)	0.0413	
Distributed pressure drop	0,45	Pa
Localised pressure drop	1,17	Pa
Total dynamic pressure drop	1,62	Pa

Actual pressure drop: 1,62 Pa

Acoustic Performance

Tests performed on an experimental model in our in-house R&D laboratories.

→ $R_w = 16 \text{ dB(A)}$.

To ensure optimal results, the product must be installed following a thorough technical/acoustic assessment of the noise source. The unit must be installed at the correct distance from the rear wall, and all pipe passages must be properly sealed. For maximum effectiveness, installation by specialised personnel is strongly recommended.

The user is solely responsible for ensuring compliance with applicable laws and for obtaining necessary permits and authorisations.