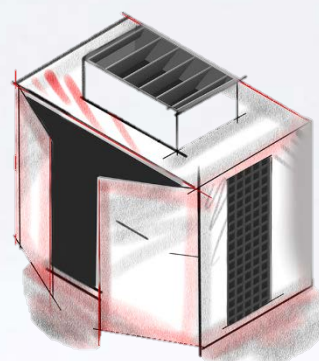


TECHNICAL DATA SHEET

SH Pod Advanced VRF

Soundproofed casing for VRF and VRV units



Description

SH Pod Advanced VRF is a soundproofed casing designed to enable a compact footprint, leveraging the synergy of the innovative Slim Hurdle™ and Quiet Leaf™ technologies. The casing, featuring unique aphonic grilles with the Baffleless™ system, fully encloses the condensing unit, allowing a substantial reduction in noise emissions on all sides, while providing straightforward access for maintenance.

Intended use

The SH Pod Advanced VRF sound-absorbing casing can be installed:

- To attenuate noise emissions from outdoor units while preserving system performance.
- To protect units against atmospheric agents, such as hail.
- For screening outdoor units, enabling full colour customisation.

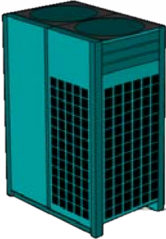
Features

- Exclusive Baffleless™ aphonic grille on suction side
- Upper 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

Applications

- VRF units, VRV units, direct expansion units, condensation units
- Commercial buildings, offices and business centres
- Residential buildings
- Industrial plants and production facilities
- Healthcare environments

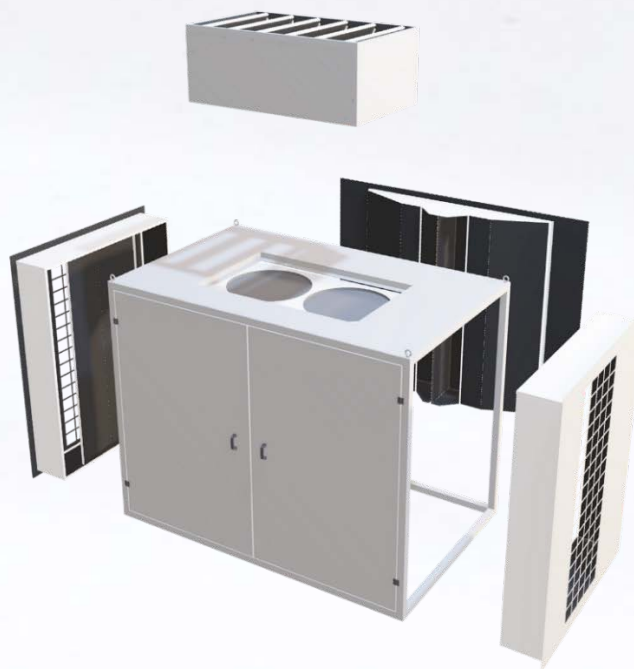
Variants

Product	Casing dimensions	Model	Equipment dimension	Equipment
SH Pod VRF 1	• L: 1600 • P: 1200 • H: 2150		• L: 950 • P: 800 • H: 1750	
SH Pod VRF 2	• L: 1950 • P: 1200 • H: 2150		• L: 1300 • P: 800 • H: 1750	

Accessories

- Handles to facilitate panel removal
- Lever lock with key on hinged access doors

Detailed layout



Uniqueness and Performance

Thanks to innovative, one-of-a-kind Baffleless™ aphonic grilles, the net open area of the casing's intake module is equivalent to that of the equipment's heat exchanger. This configuration, devoid of internal baffles, enables a silent and efficient airflow, and eliminates bypass phenomena and flow separation.

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 Advanced VRF 1</u>	Calculation results	
Gas velocity in the duct	4.994	m/s
Internal wall roughness	0.064484	r/d
Reynolds number	118495	
Friction coefficient (Colebrook)	0.0813	
Distributed pressure drop	3,52	Pa
Localised pressure drop	12,65	Pa

Total dynamic pressure drop

16,17

Pa

Actual pressure drop: 16,17 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.