

Solflex acoustic housing for air-conditioning, heat pump and refrigeration units with horizontal air discharge

Type: HT100NPZ

Acoustic cabin designed for 1 pc. air-conditioning, refrigeration or heat-pump outdoor unit as air-cooled compressor-heat exchanger-unit with horizontal air intake and horizontal air discharge

Technical description:

Stable, acoustic enclosure with fully demountable structure. Construction in galvanized steel, thickness: 1.0mm, with Magnelis as surface protection, which is optionally available in a RAL powder coating. Sound insulation made a high-quality combination of materials for airborne sound absorption made from internal non-combustible insulating material, 50 mm thick, with abrasion-resistant and water-repellent glass fiber coating. Integrated special lamella packs on the rear for large-area and laminar air intake, as well as on the front for air discharge. The slats are made of galvanized steel, thickness: 0.8mm, with Magnelis as surface protection, and of internal non-combustible insulating material, thickness 25mm, with abrasion-resistant and water-repellent glass fiber coating. Fire behaviour according to DIN4102 A2. Functional and yet design-oriented construction with downward deflection of the air flow with very low pressure loss, and two acoustic weather protection grilles that can be easily removed for maintenance purposes, on the intake and exhaust side. An integrated thermal separation is provided for the exact separation of the air flow between intake and exhaust, which should be adapted to the outdoor unit on site during installation. The complete construction is completely weatherproof and also optimized for the operation of heat pumps. The construction of the completely dismountable acoustic housing can be carried out by 2 fitters (each approx. 1 hour/external unit) without additional aids, such as expensive crane services; possible. All screw points with stainless M8 thread inserts.

Technical data:

Manufacturer:	Solflex
Type:	HT100NPZ
Exterior surface:	Magnelis
Housing type designed for:	1 outdoor unit with fan blowing horizontally
Principle:	Rear suction, front discharge
Housing external dimensions (HxWxD):	1080 x 1400 x 1500 mm
Weight:	190 kg
Max. dimensions for installation (HxWxD) ⁽²⁾ :	1010 x 1250 x 1050 mm
Nominal sound level reduction:	12 dB(A), measured according to DIN EN ISO 3744

f (Hz)	63	125	250	500	1k	2k	4k	8k	16k
De (dB)	2	1	4	7	12	18	18	16	18

The acoustic result depends on the installed device and is prone to differences because of the conditions at the site.

Pressure loss:

HT100NPZ	5500 m ³ /h	8200 m ³ /h	10900 m ³ /h
ΔPt (Pa)	7	16	28
v (m/s)	1	1,5	2

Options:

HTFOOTZ

1 mounting bracket L: 1050mm incl. 2 rubber dampers
Silentblock \varnothing 30 H20 and fastening screws.

HTFEETMLZ

2 mounting brackets L: 1050mm mounting H: 190/290mm.

HTDRAINPANZ

Condensate tray made of aluminum, including
temperature-controlled electronic condensate tray heating,
leaf retention grid and oil separator.

HTBOTTOMPLATEZ

Sound attenuated base plate to mount the acousting
housing on e.g. when standing onto metal grid base.

HT100NPZRALCUSTOM

Soundproof housing, powder-coated in RAL color of your
choice.

HTTRANSPORTEU

Indicative price for 1 piece DAP delivered to a named
location within the EU (mainland), unloaded with tail lift,
without installation.

HTTRANSPORTCH

Indicative price for 1 piece DDP delivered to a named
location within Switzerland, unloaded with tail lift; without
installation."