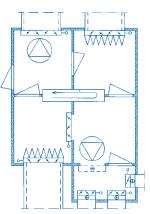


Isolamin Air Handling Unit A system with many advantages.

Isolamin's Air Handing Unit is a lightweight structure for floors, walls, ceilings, and doors to different AHU enclosures. The essential requirements for the construction of Air Handling Unit enclosures are density, stability, fire resistance, and sound and thermal insulation.







A system with many advantages

Isolamin wall-system for Air Handling Units and ducts.

Isolamin has a pressure-tested wall system C with an in-depth profile system, including a self-manufactured inspection door and obtained type-approval in Sealing Class D according to EU Standard 1507:2002, Density Class D according to Plumbing AMA 98,57, Air Conditioning System and Tightness Class C according to Eurovent 2/2-1996.

The Air Handling Units are complete built-in structures with walls, ceilings, doors, and necessary connection profiles for assembly. The panels are also tested in internationally approved test centers, currently:



- Fire: Class El30, El60
- · Sound reduction: 33 dB Rw
- Sound absorption: Class A (one perforated side)
- Strength: The elements can handle up to 2000 Pa at 3 meters range.
- · Corrosion: Up to C5

The Air Handling Units are also sound tested for use in ventilation ducts with parts of the duct element having a perforated interior. The Isolamin wall system replaces the use of splitter attenuators and provides the following advantages:

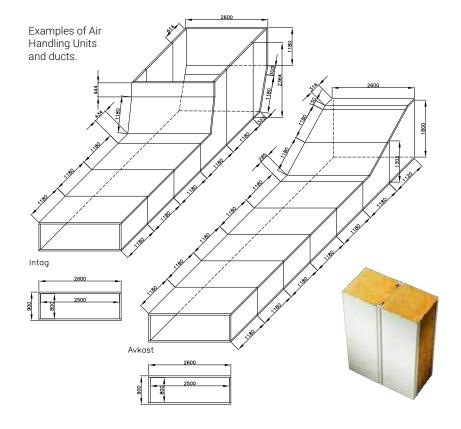
High noise attenuation at low frequencies

- No pressure drop
- · Low operating costs
- · No noise generation
- High reduction in the duct wall
- Condensation is obtained on outdoor ducts and exhaust ducts
- No cranes are required to lift the muffler
- The items can be ordered for quick assembly

Corrosion Classes:

- KI. C2 Z100 (galvanized sheet metal)
- KI. C3 Z275 (galvanized sheet metal)
- KI. C5 stainless steel alt Magnelis Z310





In addition to the C-joint system, the elements are very stable and minimize the size of the support frame. Isolamin's Air Handling Unit is intended for enclosed constructions and ventilation ducts exposed to pressure or negative pressure loads. For unstrai-

ned designs there are other suitable products offered from our range. For more information about the system, selection of materials, specification, and assembly, refer to the Isolamin Air Handling Unit manual.

Panel PA 33CL50

Thickness: 50 mm Weight: 2 1,1 kg/m²

Module Width: 565 mm, 1180 mm Module Length: max 6000 mm

Fire Class: Ei30

Sound Reduction: 33 dB Rw

Panel PA 33CL80

Thickness: 80 mm Weight: 26,1 kg/m²

Module Width: 565 mm, 1180 mm Module Length: max 6000 mm

Fire Class: Ei 60

Sound Reduction: 33 dB Rw

Panel PA 33CL50P*

Thickness: 50 mm Weight: 19,1 kg/m²

Module Width: 565 mm, 1180 mm Module Length: max 6000 mm

Fire Class: Ei30

Sound Reduction: 34 dB Rw **Sound Absorption**: Class A

Panel PA 33CL80P*

Thickness: 80 mm Weight: 24,2 kg/m²

Module Width: 565 mm, 1180 mm

Module Length: max 6000 mm

Fire Class: Ei 60

Sound Reduction: 38 dB Rw Sound Absorption: Class A

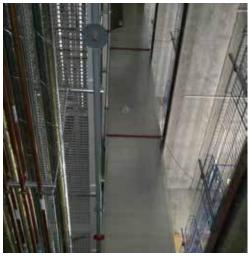
Density Isolamin Air Handling Unit meets density classes as below for 33CL50:

- Density Class C (max pressure 1600 Pa) according to EUROVENT 2/2 1996
- Density Class D (Pressure Class 2) according to PREN 1507: 2002 and VVS-AMA
- For perforated plate versions,
 Density Class B is met according to
 EUROVENT 2/2 1996
 - * Perforated plate with 3mm hole, Delta 6.















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Isolamin Sweden AB

Industrivägen 5, SE-95632 Överkalix, Sverige +46 (0)926 756 00 | info@isolamin.se www.isolamin.se

