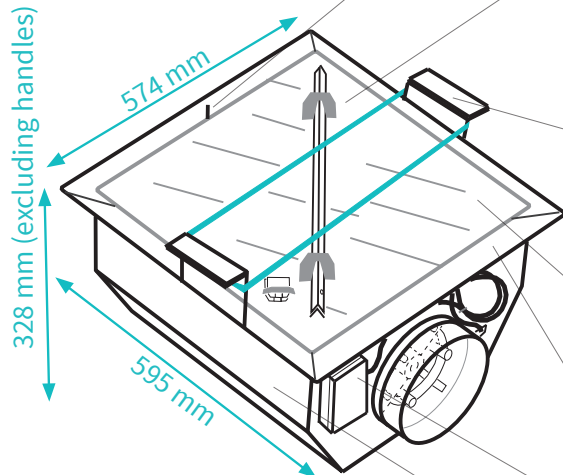


PRESENTATION OF DELIVERY UNIT ISQ-200

ISQ-200, like ISQ-160 and ISQ-M, is delivered on a pallet. The devices are ready for installation in suspended ceilings directly from the pallet.

ISQ-200 from pallet



Notice: Equipment for suspension such as threaded rod or strap as well as flexible aluminum hose for connection is not included.

The complete ISQ diffuser ready for mounting directly from the pallet.

Room temperature sensor

Mounted centrally on the outer edge of the diffuser plate. The sensor is located on the opposite side to the duct connection.

Detachable diffuser plate

Removable powder-coated metal sheet used both for horizontal air distribution and for internally attaching electronics with sensors.

Mounting handles with packaging bands

Two temporarily mounted metal handles fixed with plastic packing bands. The bands and handles are removed when the device is correctly positioned in the suspended ceiling.

Diffuser plate protection (Plastic or cardboard)

Protective cardboard that is to be kept in place until final cleaning.

Transport protection

The transport protection is now part of the protective cardboard. The cardboard is carrying both cover profiles and L-profiles, see below.

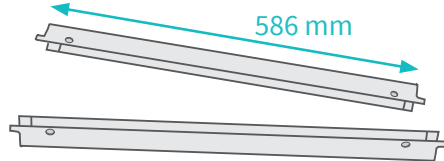
Cable and connection box (Only ISQ-200/-160)

Delivered with junction box CBD connected.

Plenum box with diffuser frame

A powder-coated frame is mounted on the plenum box. The frame is directing air flow, it is holding the diffuser plate and it provides necessary fit to the suspended ceiling. ISQ-200/-160 are equipped with a motor-controlled airflow valve and a measuring device. ISQ-M is equipped with a manually controlled valve without measuring device.

Cover profiles

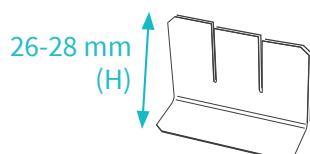


Two profiles used to close the mounting space/gap between the diffuser frame and the suspended ceiling.

Cover profiles

Two metal profiles to be placed in the suspended ceiling framework along both sides of the diffuser where there are gaps between the edge of the diffuser frame and the suspended ceiling.

L-profile



L-trim that can be used when in need to press down the frame against the suspended ceiling.

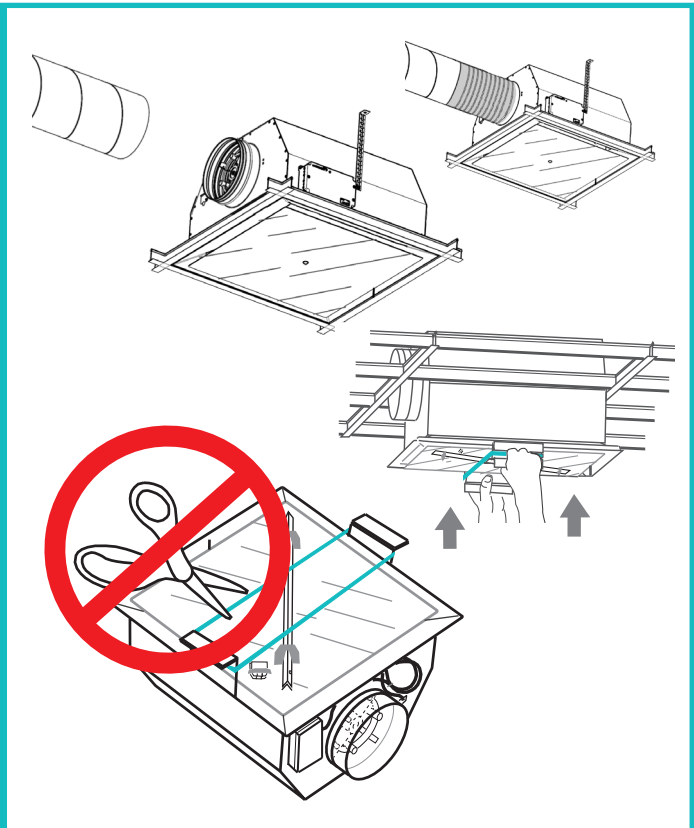
L-profile

Metal profile that is only used when unevenness in the suspended ceiling means that the diffuser frame needs to be pressed down against the suspended ceiling beam structure to create a connection without visible gaps.

Installation instructions

NOTE BEFORE ASSEMBLY:

- The unit is ready to assemble directly from the pallet and consists of both a plenum box and diffuser part.
- A correct and simple assembly requires that space has been left for duct connection via a flexible aluminum hose or push nipple.
- Duct connection must not load the diffuser and thus the supporting structure.
- Do not remove the handles and the protective cardboard with attached profiles!
- The protective cardboard is removed after the final cleaning.



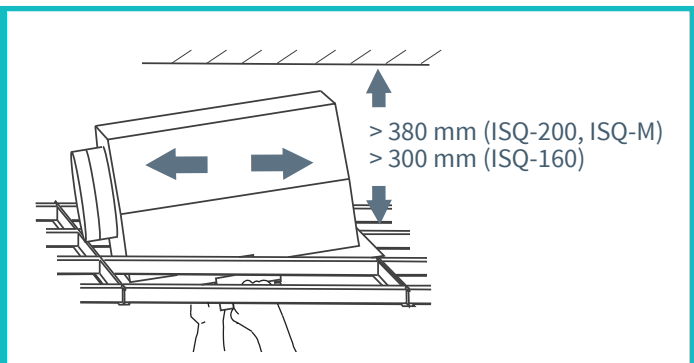
INSTALLATION ORDER

The installation must be carried out in the following order from 1 to 6:

1. PLACEMENT

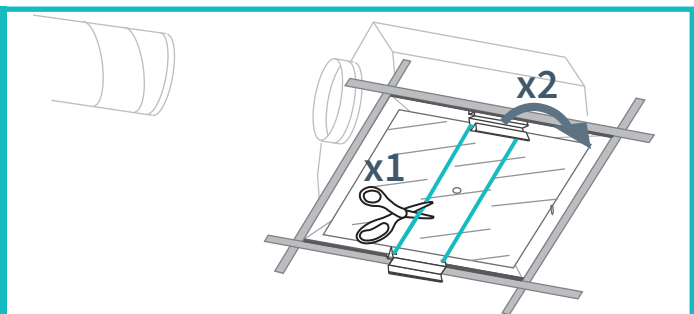
A clear height of 380 or 300 mm is required depending on the model.

- Lift up and angle the device to get in over the suspended ceiling support structure.
- The device is then backed so that it comes down into the framework.
- Centering the device is done in step 3, installation of cover strips.



2. DISMANTLING OF HANDLES

- Cut the packing bands.
- For each handle: Push the device slightly to the side, angle and unhook.
- The protective cover over the diffuser plate is left on. It is to be removed after final cleaning.

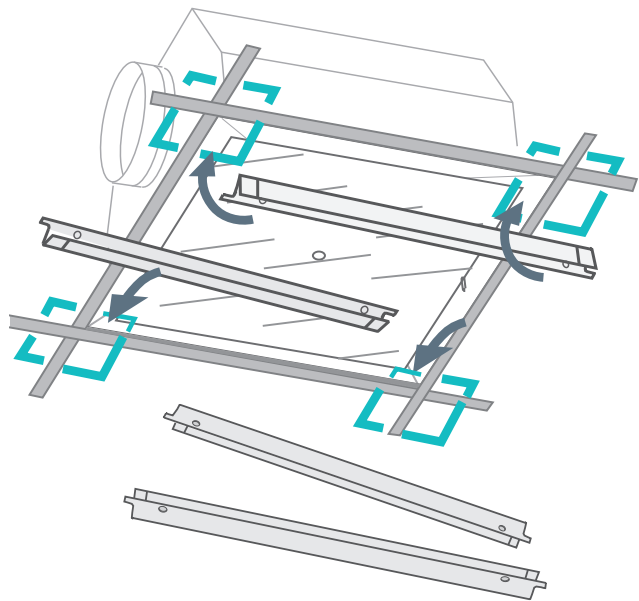


3. COVER PROFILES

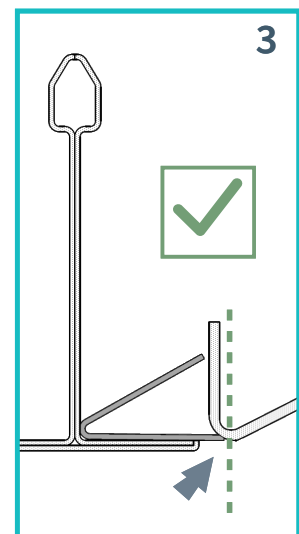
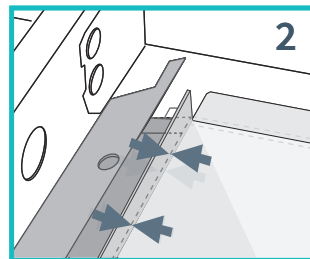
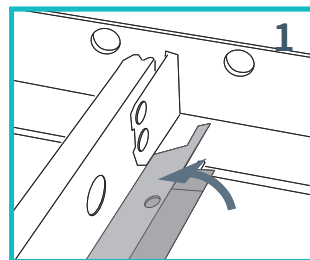
Both included V-shaped cover profiles must be placed in the suspended ceilings support structure to eliminate the gaps that otherwise remain between the beam in the support structure and the diffuser frame.

The profiles are mounted from below.

- Angle up the long side on one side of the diffuser slightly from the suspended ceiling support structure and place the profile oriented as illustration 1 shows. Lower the unit back onto the support structure. Then angle up the opposite side and place the second profile in the corresponding way.
- **Note:** Each profile has two flanges. The one with circular holes should point up from the suspended ceiling structure.
- Center the diffuser over the opening in the support structure. The cover profiles must be positioned so that the flange (without holes), which rests on the support structure, just touches/meets the edge of the diffuser frame, see pictures 2 and 3.
- The gaps along the device's long sides (seen from the floor) shall now have been eliminated.



NOTICE: When the cover profiles are in place, the side with holes must point upwards from the suspended ceiling support structure.

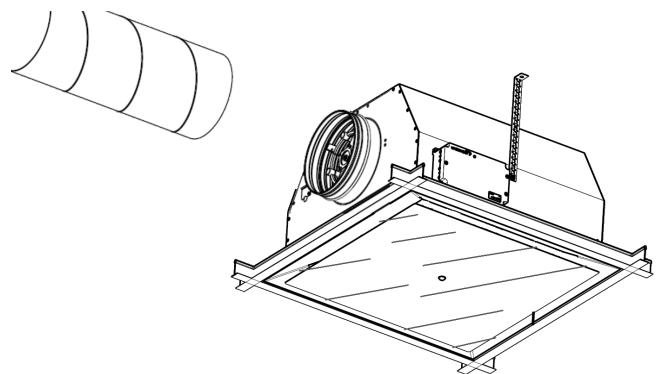


4. SUSPENSION

BEFORE connecting the duct:

The diffuser must be suspended via mounting straps or equivalent with the length that relieves the load-bearing structure without creating gaps between the diffuser and the suspended ceiling.

Note: Material for suspension is not included with the diffuser upon delivery.



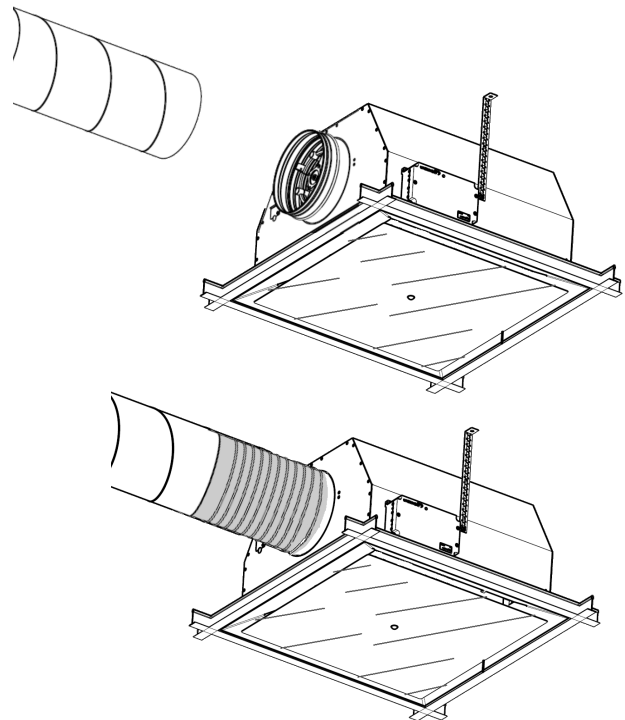
5. DUCT CONNECTION

- Connection via flexible aluminum hose is recommended.
- A push nipple can work if the channel is in line with and centered to the inlet.

The duct connection must not strain the diffuser and thus the suspended ceiling.

Aluminium hose versus duct

- The risk of straining the diffuser and thus the supporting structure is removed when connecting with flexible hose.
- From an acoustic point of view, they are equally good. Sound generation from the diffuser is very low.
- Using an aluminium hose gives flexibility when the diffuser needs to be dismantled or temporarily lifted up from the suspended ceiling.



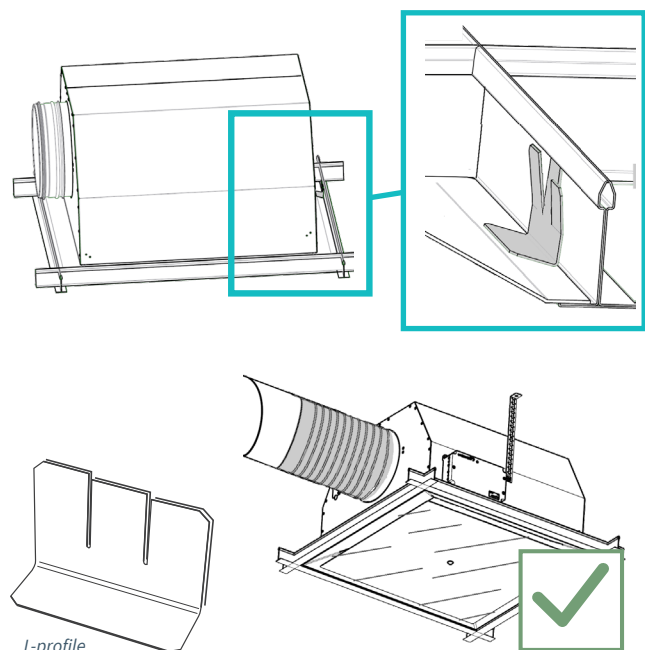
Connection by a flexible aluminium hose.

6. L-PROFILE & FINAL CHECK

L-PROFILE: Used only when there is a need to hold down the diffuser frame to achieve a flat connection between the diffuser and the suspended ceiling support structure.

The L-profile can be adjusted manually in height to achieve the necessary holding pressure.

CORRECT INSTALLATION: All steps are carried out in sequence according to this instruction. The diffuser must be correctly positioned without visible gaps and properly relieved so that the supporting structure has not been affected.



L-profile.