Sinus-F
Installation instruction



Cleaning

The diffuser can be cleaned with lukewarm water and a mild detergent.

To loosen the diffuser plate, remove a nozzle and grab the plate through the hole where the nozzle was and gently pull the plate down. The plate is attached to a chain.

Distribution pattern

Turn the nozzles to achieve various airflow patterns.

Adjustment

Description with PER plenum box.

K-factor

Size	Supply air
PER-100-125	5,4
PER-125-160	9,5
PER-160-200	17,3
PER-200-250	27,7
PER-250-315	39,2

The K-factors for supply air applies for combination with all Systemair diffusers.
Correct adjustment requires a straight path, 4 x the diameter before the PER plenum box.

Example

Formula given

$$\left(\frac{q}{k}\right)^2 = \Delta P_i$$

Where q = airflow (l/s)
k = K-factor
ΔP_i = adjustment pressure drop (Pa)

Using the formula to calculate airflow

Size	PER-100-125
Required airflow	25 litres per second
K-factor (from label)	5.4

Entered in the equation:

$$\left(\frac{25}{5{,}4}\right)^2 = 21{,}4Pa$$

Adjustment
Adjust the damper until the pressure meter shows 21.4 Pa. The airflow is then 25 l/s.

Note! Tighten the screw on the wire to fix the setting.



Measure the adjustment pressure using the two transparent hoses.

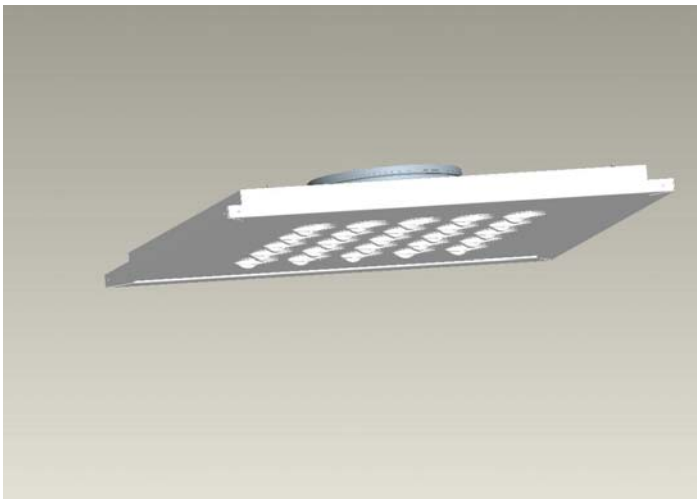
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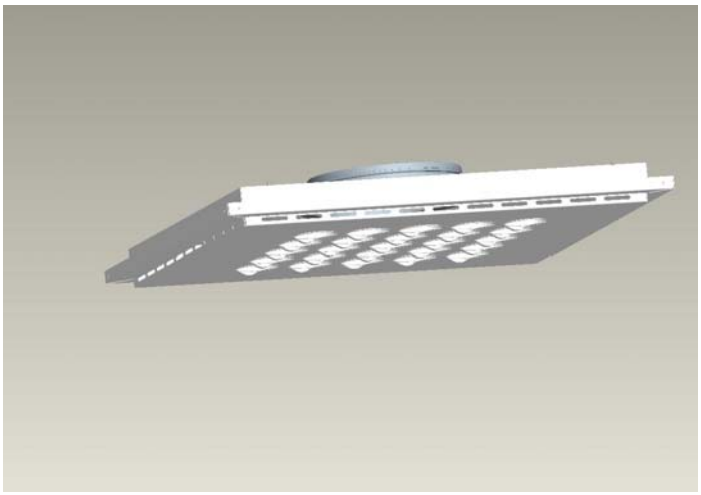
Mounting instructions

The diffuser is specially designed for flush mounting in false ceiling. The diffuser is mounted resting against the T-load carrying structure, and then fixed with the help of the connecting duct or the PER-box.



Distribution pattern

If a bigger air flow and a shorter throw length is required, one can achieve this because the diffuser part is adjustable in height. By gently pulling down the diffuser parts one notch you uncover the slots. Reversed the slots are covered by pressing up the diffuser part.



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