

Systemair PER Installation instruction



Cleaning

Remove the damper by pulling it straight out. The wire lock keep the damper adjustment fixed during the cleaning.

K-factor Size	Supply air	Exhaust air
PER-100-125	5,4	15,0
PER-125-160	9,5	19,4
PER-160-200	17,3	25,6
PER-200-250	27,7	34,8
PER-250-315	39,2	43,6
PER-315-400	73,5	62,7

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

Example

Formula given

$$q = k \cdot \sqrt{P_i}$$

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

Using the formula to calculate airflow

Size	PER-100-125
Required airflow	25 litres per second
K-factor (from label)	5,4
Measured pressure	22 Pa

Entered in the equation:
 $q = 5,4 \cdot \sqrt{22} = 25 \text{ l/s}$

Adjustment

Use the wire to adjust the damper until the required airflow is reached acc. to formula.

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



Supply air

Measure the adjustment pressure using the two transparent hoses.

Exhaust air (together with TSO)

Measure the adjustment pressure in the coloured plastic hose (compared to atmospheric pressure).