

# Sinus-C

## Operation and maintenance instruction



### Cleaning

The diffuser will normally need no cleaning. But it may be cleaned with lukewarm water and mild detergent.

### Distribution pattern

Turn the nozzles to achieve different distribution patterns. An air gap of 20mm between the plenum box and the front plate can be achieved when necessary.

### Dismounting

Loosen the damper by loosening the two domed nuts on the outside of the connection.

### K-factor

K-factor size	Air gap	
	Closed	20 mm
Sinus-C-100	7,90	14,50
Sinus-C-125	13,70	22,50
Sinus-C-160	16,50	26,30
Sinus-C-200	34,30	47,60
Sinus-C-250	40,76	67,90
Sinus-C-315	48,30	88,40

### 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: Sinus-C - 100  
 Gap: Closed  
 K-factor: 7,9  
 Measured pressure: 10 Pa

Entered in the equation:  
 $q = 7,9 \cdot \sqrt{10} = 25 \text{ l/s}$

#### Adjustment

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