

# Balance-S

## Installation instruction



### Cleaning

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

The diffuser is loosened by pulling it straight out from the mounting frame.

### Mounting

Balance-S is mounted by pushing it into the frame RFP. The diffuser is held in place by friction springs in the back.

K-factor Size	Air gap (a) mm					
	2,5	4	5	7,5	10	20
Balance-E 100	1,08	1,67	2,16	3,10	4,05	5,17
Balance-E 125	1,15	1,96	2,92	3,73	4,79	7,59
Balance-E 160	1,86	2,75	3,43	4,81	6,62	10,32

### Example

#### Formula given

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

Where

- q = airflow (l/s)
- k = K-factor
- P<sub>i</sub> = adjustment pressure drop (Pa)

#### Using the formula to calculate airflow

Size	Balance-E 100
	25 Pa
Air gap (a)	10 mm
K-factor	4,05

Entered in the equation:

$$q = 4,05 \cdot \sqrt{25} = 20 \text{ l/s}$$

### Adjustment

Turn the front plate until the air gap (a) reaches 10mm. If the pressure meter shows 24,4 Pa the airflow is 20 l/s.



The adjustment pressure can be measured by inserting the probe in the centre hole situated behind the plastic cover plug in the middle of the front plate.