



AirPro Supply Diffuser SDA

AirPro means carefully selected products with high quality at a good price.

SDA

- 5 sizes from Ø 80 to 200 mm
- Easy to install and adjust
- Mounted directly in duct or with bracket (accessory)
- Low noise levels



Usage

The SDA diffuser is used for quick and easy regulation of supply air flows in ventilation systems. Thanks to its construction, the diffuser has a large flow range that can be adjusted steplessly and then fixed.

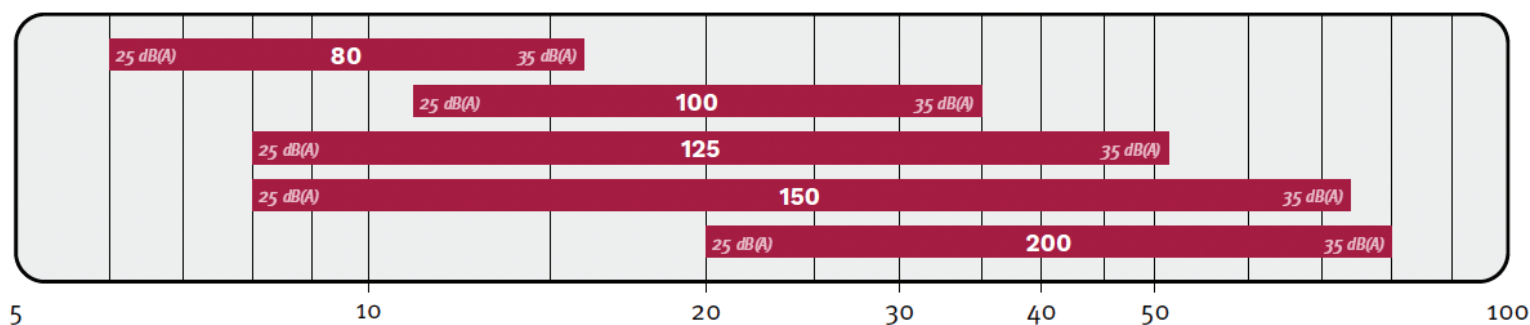
Design

The unit is made of galvanized steel sheet and powder-coated in white RAL9003. The aesthetic design makes the unit suitable for most interiors such as offices and residential areas, and the included sector list can be used to adjust the distribution pattern as needed. The ventilation housing is equipped with mounting springs for direct installation in the duct and a foam seal to prevent air leakage. The mounting bracket for the centrally threaded bolt that is fixed in the cone used to adjust the air flow (see adjustment) is also located on the ventilation housing.

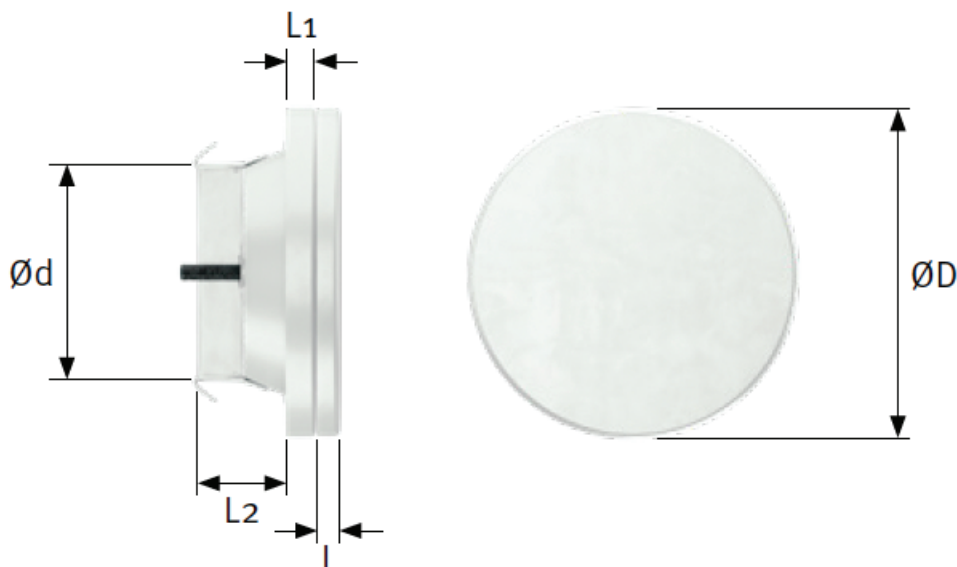
Installation

For installation in the ceiling directly in a circular duct via the unit's mounting springs or with the accompanying mounting bracket MBA, which is attached to the duct (see accessories).

Quick selection guide



Airflow, l/s



Size	$\varnothing d$ mm	$\varnothing D$ mm	L mm	L_1 mm	L_2 mm	Weight g	Art nr
80	79	108	12	13,5	50	250	SDA80
100	99	134	12	13,5	50	300	SDA100
125	124	160	12	13,5	50	370	SDA125
150	159	195	12	13,5	50	470	SDA150
200	199	230	12	13,5	50	720	SDA200

Air Adjustment

The air flow and throw length are adjusted by rotating the cone and thus changing the gap opening (S). Read the pressure difference, i.e., the so-called measurement pressure (Δp_m) in pascals (Pa), and then calculate the air flow using the k-factors in the table below.

Example: $\varnothing 125$ mm / $S = 10$ mm / $\Delta p_m = 16$ Pa »
 $5.3 \times \sqrt{16} = 21$ l/s

After the adjustment is complete, the unit is fixed with the nut on the centrally threaded bolt that is fixed in the cone against the ventilation housing.

Maintenance

The unit's exterior is cleaned with a lightly dampened cloth as needed.

Remember to note the unit's location if several units are removed simultaneously for easy restoration of the performed adjustment.

K-factors

K-factor ($q_v = \sqrt{\Delta p_m}$) at gap opening

 360°	5 mm		10 mm		15 mm		20 mm	
	k							
	m³/h	l/s	m³/h	l/s	m³/h	l/s	m³/h	l/s
SDA-80	6,9	1,9	7,5	2,1	8,1	2,3	8,7	2,4
SDA-100	11,7	3,2	12,1	3,4	12,6	3,5	13,0	3,6
SDA-125	13,9	3,8	17,9	5,0	21,9	6,1	25,9	7,2
SDA-150	15,6	4,3	22,2	6,2	28,8	8,0	35,4	9,8
SDA-160	16,4	4,6	23,4	6,5	30,3	8,4	37,3	10,4
SDA-200	18,4	5,1	25,3	7,0	32,2	9,0	39,1	10,9