



Ceiling diffusers

SDR



Ceiling diffusers SDR are intended to use in low- and medium-pressure ventilation systems installed in public utility and industrial buildings.

◀ **Diffuser SDR**
steel circular diffuser

Ceiling diffusers SDR



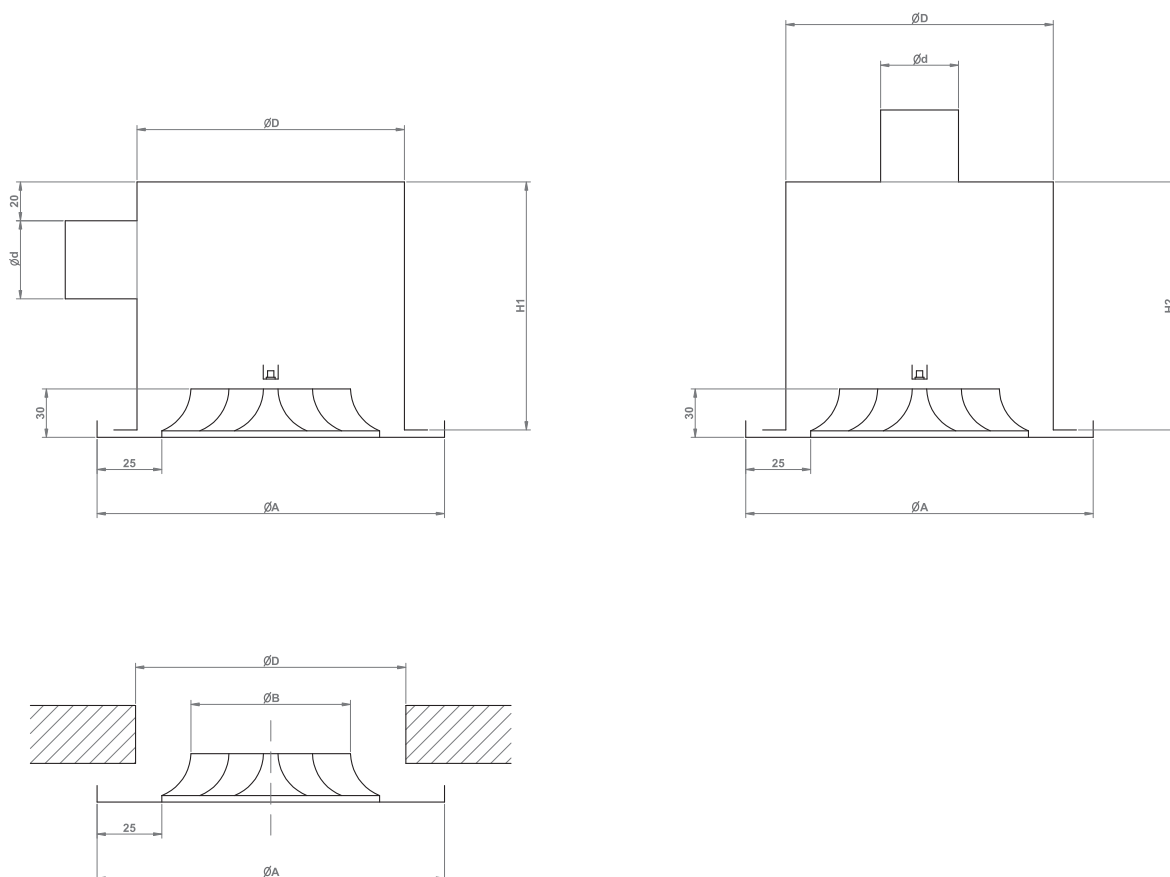
Material and finish

Diffusers SDR are equipped with circular front panel and fixed blades. Diffusers SDR are made of steel, powder coated to RAL 9010. On request it is possible to coat it to different RAL color.

Installation

Diffusers SDR can be installed with use of single screw through the opening located in the central part of the diffuser.

Sizes, effective areas, weight



Size	$\varnothing D$	$\varnothing B$	$\varnothing A$	H1	H2	$\varnothing d$	A _{eff}	Weight
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[m ²]	[mm]
1	180	104	220	270	200	123	0,0056	1,2
2	230	152	270	270	200	158	0,0110	1,5
3	280	200	320	270	200	158	0,0180	1,8
4	330	253	370	330	300	198	0,0265	2,3
5	380	298	420	330	300	198	0,0365	2,7
6	430	348	470	380	300	248	0,0479	3,2

Selection of the diffusers SDR

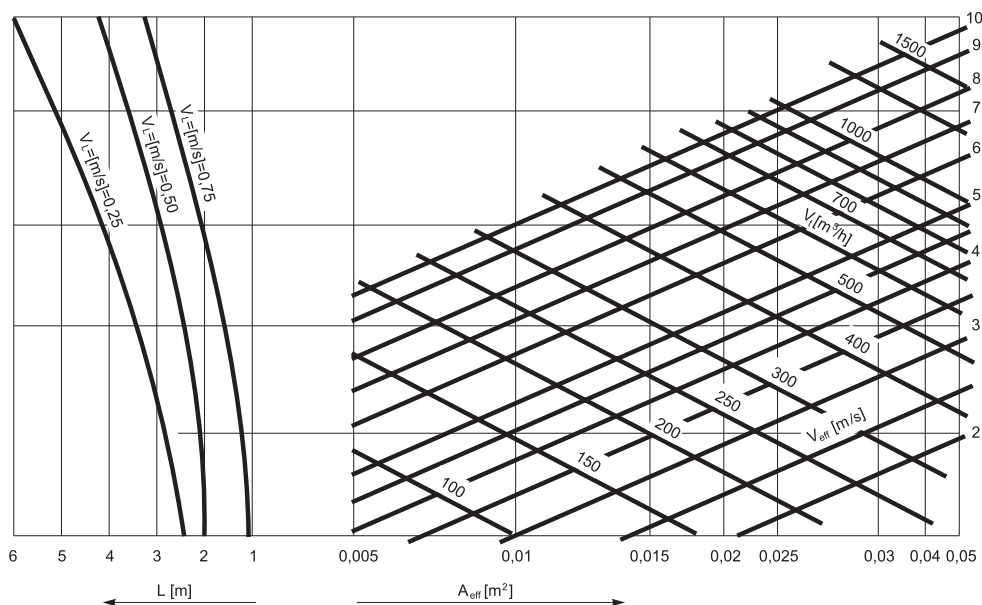


Designation:

V_t	[m ³ /h]	volumetric air flow
V_{eff}	[m/s]	effective air flow velocity
V_L	[m/s]	airflow velocity at distance L
A_{eff}	[m ²]	effective area of the difuser
Δp	[Pa]	local pressure drop
L	[m]	airflow range
L_W	[dB _(A)]	sound power level

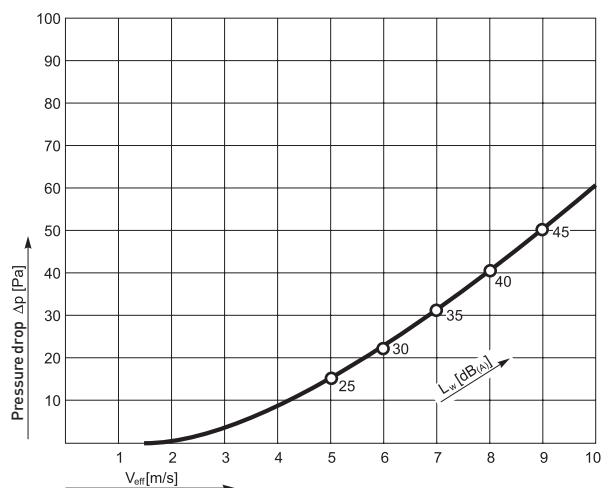
Nomograph I

Selection of the parameters



Nomograph I

The effect of air flow velocity V_{eff} on pressure drop Δp and sound power level



Accessories and order code of the diffuser SDR



While ordering, please provide the information using the following method:

SDR - <W> - SL<RAL> / <ADD>

Where:

- <W> - size of the diffuser: 1, 2, 3, 4, 5, 6
- SL - finish: coated steel
- <RAL> - color (for SL finish)*
- <ADD> - Additional accessories shall be specified here, according to the list below:

Accessories**

Plenum box according to the configuration as follows:

<SRR><I>-<H>-<K><D><R>

- <I> - Insulation: *
 - none – no insulation**
 - t – insulated
- <H> - height of the plenum box in mm *
- <K> - connector position: *
 - b = side**
 - g = top
- <D> - diameter of the connector in mm
- <R> - damper in the connector: *
 - none- no damper**
 - P - damper with adjustment outside the plenum box

*optional values - default values will be used if optional values are not specified

** more information about accessories in grilles and diffusers accessories data sheet

Order example:

SDR - 3 - SL9010 / SRRt - 270 - b160P