

## DS – CEILING VENTILATION DIFFUSERS WITH PLASTIC BLADES



### Description

- Diffusers are designed for air supply in the ventilation and air-conditioning installations with possibility for air discharge direction control. Suitable for premises with height up to 4 m.

### Construction

- Constructed of galvanized metal sheets with powder coating.
- Standard colour RAL 9010, upon customer request painting in all RAL colours is possible,
- Plastic blades are installed on the diffuser decorative part for manual control of the air flow direction.

### Installation

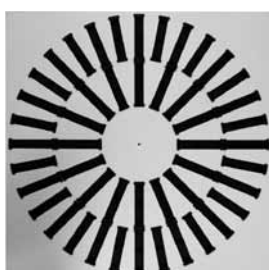
- Diffusers are mounted to the air duct system with plenum box and flexible duct. Fixing to the plenum box is arranged with a central bolt. (+P).

### Accessories

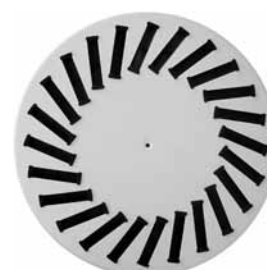
- Plenum box (+K)
- Regulation damper installed inside (+Di) or outside (+De) plenum box
- Internal insulation (+Ii) or external insulation (+Ie) of the plenum box
- Kit for plenum box fixing to Armstrong type ceiling (+MK), (for plenum box for diffuser models 300/8, 400/16, 500/24)

### Modifications

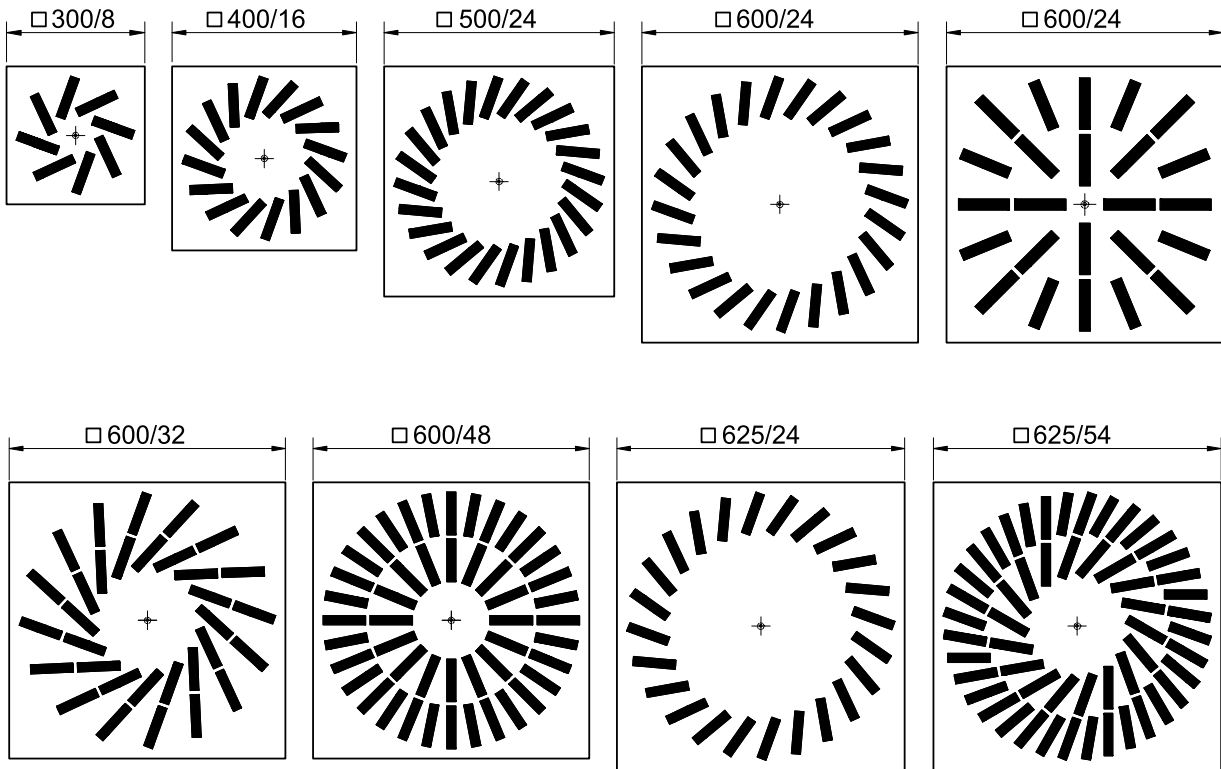
DS-S - Square swirl diffuser



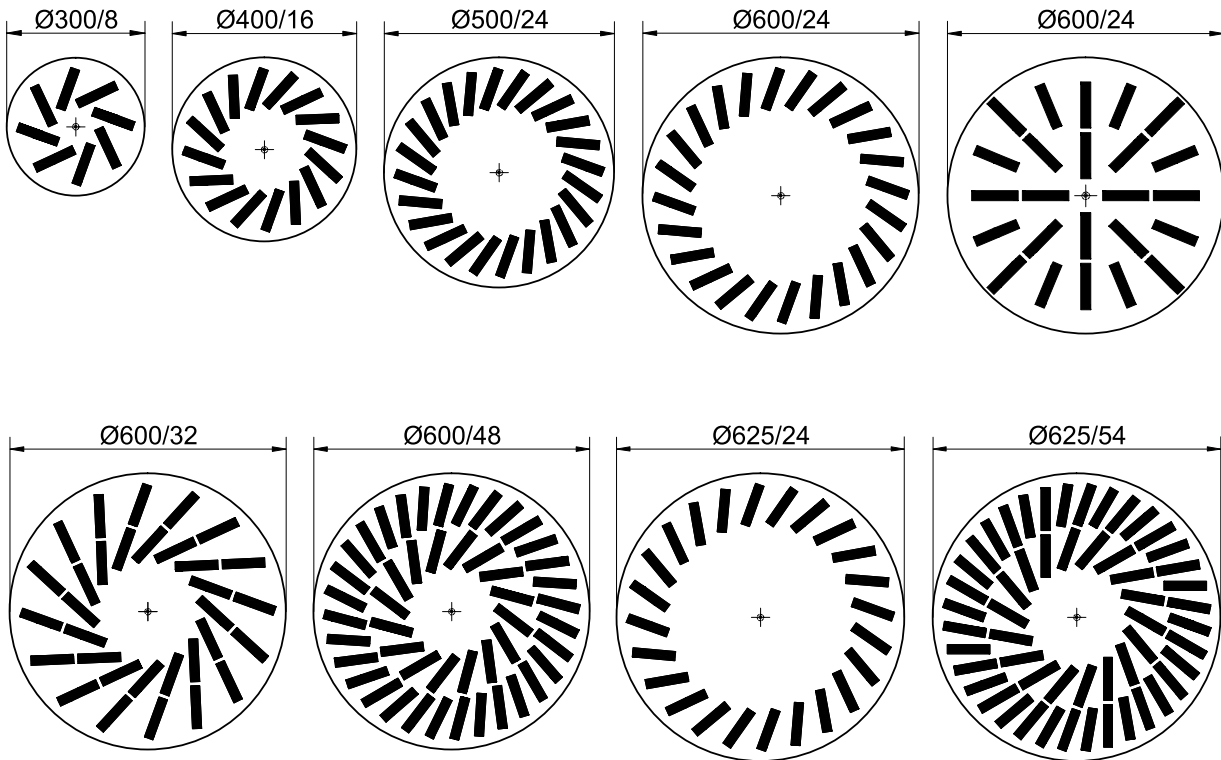
DS-R - Round swirl diffuser



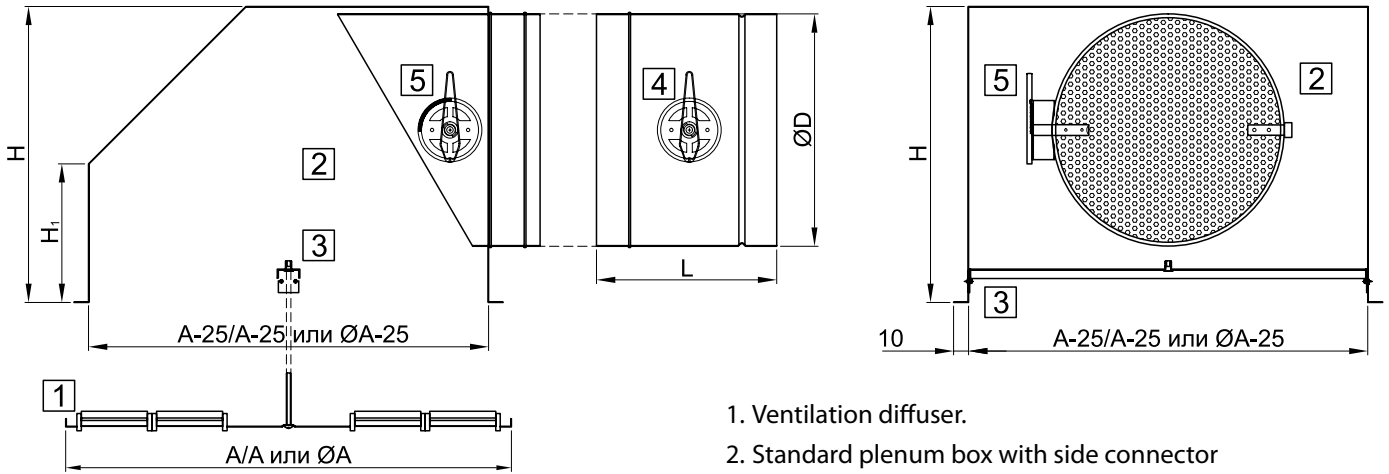
Overall and joined dimensions square diffusers (DS-S)



Overall and joined dimensions round diffusers (DS-R)



Overall and joined dimensions



1. Ventilation diffuser.
2. Standard plenum box with side connector
3. Profile for fixing of the diffuser to the plenum box with a central bolt.
4. Regulation valve - outside
5. Regulation valve installed into the plenum box and serviced through the diffuser.

Model	Number of blades	F <sub>eff</sub> [m <sup>2</sup> ]	A [mm]	H [mm]	H <sub>1</sub> [mm]	L [mm]	ØD [mm]
DS 300/8	8	0.0075	300	230	120	140	145
DS 400/16	16	0.0149	400	230	120	140	145
DS 500/24	24	0.0223	500	280	120	190	195
DS 600/24	24	0.0223	600	280	120	190	195
DS 600/32	32	0.0298	595	330	150	240	245
DS 600/48	48	0.0447	595	330	150	240	245
DS 625/24	24	0.0223	625	280	120	190	195
DS 625/54	54	0.0502	625	330	150	240	245

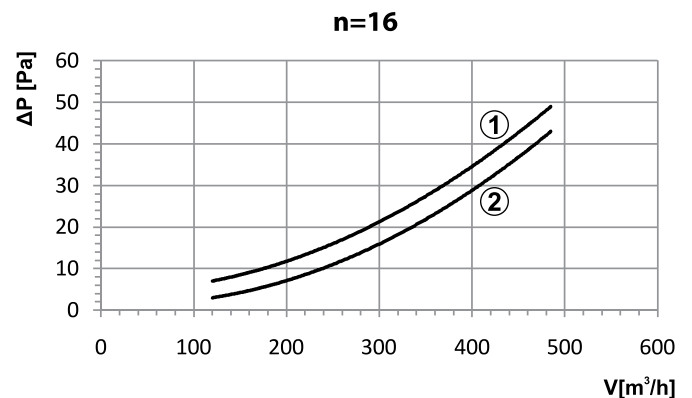
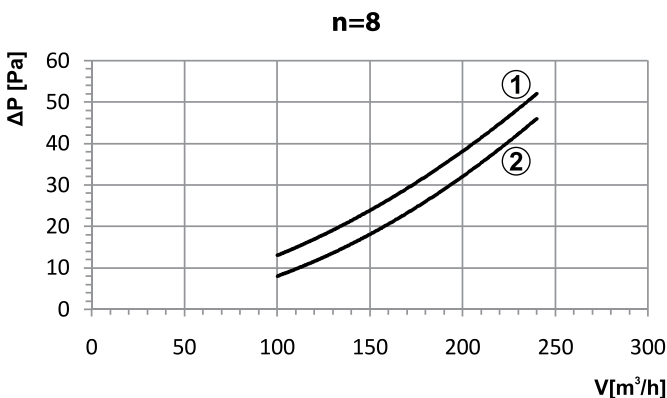
Note: Possibility for production of plenum boxes with different dimensions – on request

Pressure drop [Pa]

$\Delta P = f(n)$ , (n=8, 16, 24, 32, 48, 54), n – number of blades

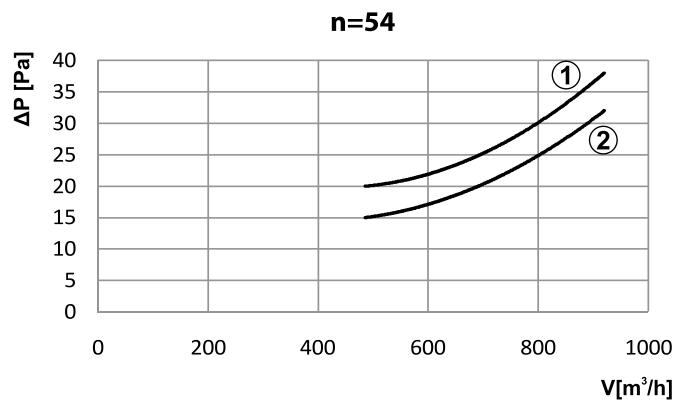
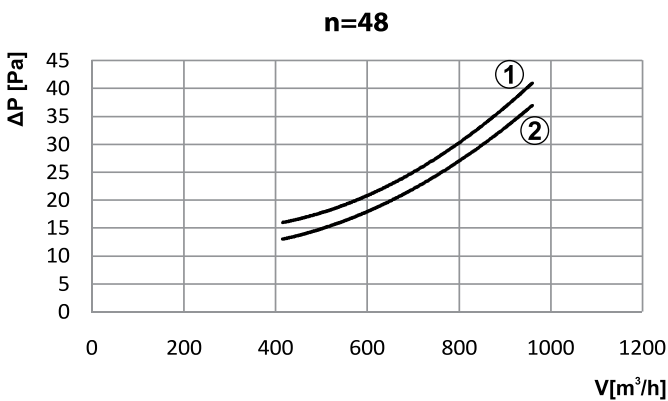
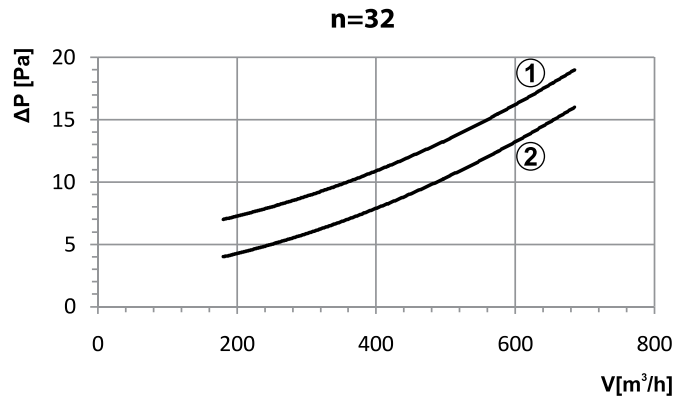
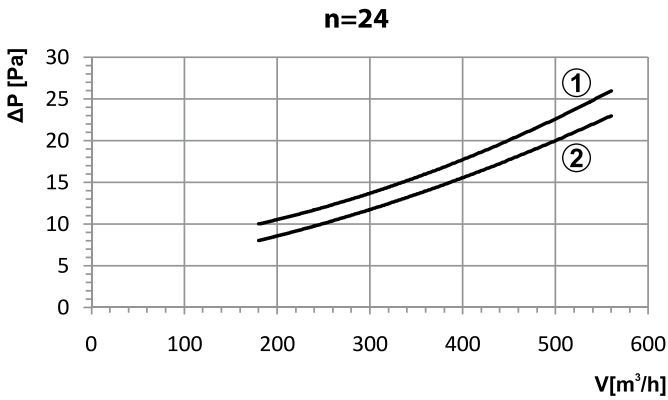
Curve 1 – position of the blades 0° (vertical discharge) – winter mode

Curve 2 – position of the blades 45° (angle discharge) – summer mode

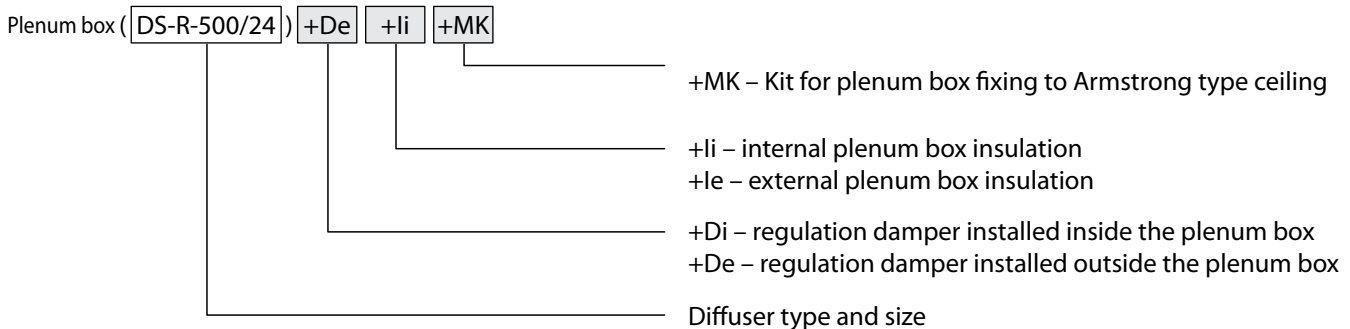
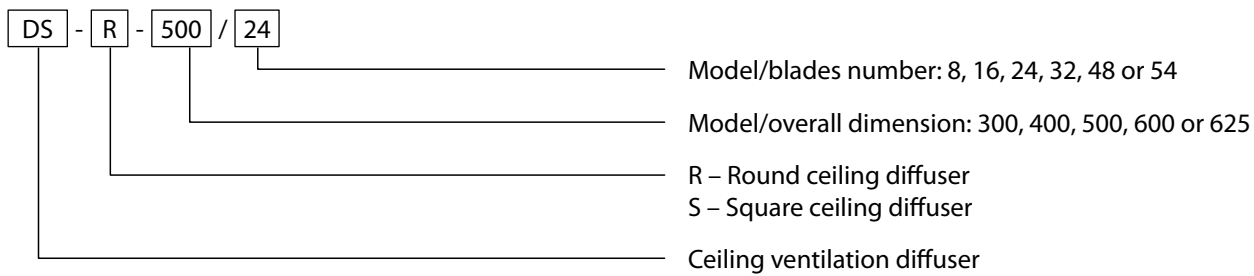


Pressure drop [Pa]

$\Delta P = f(n)$ , (n=8, 16, 24, 32, 48, 54), n – number of blades



Order designation



- Main parameters
- Optional parameters