



High Induction Ceiling Diffusers

**Altus**

At Gerhman we are driven by a strong desire to continuously generate improvements. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability.



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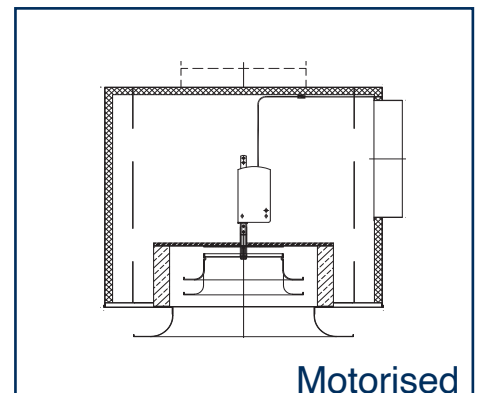
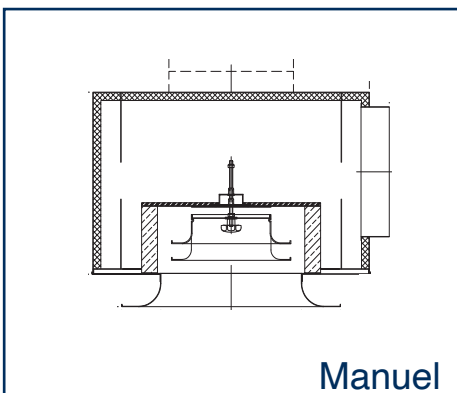
## High Induction Ceiling Diffusers

### Altus

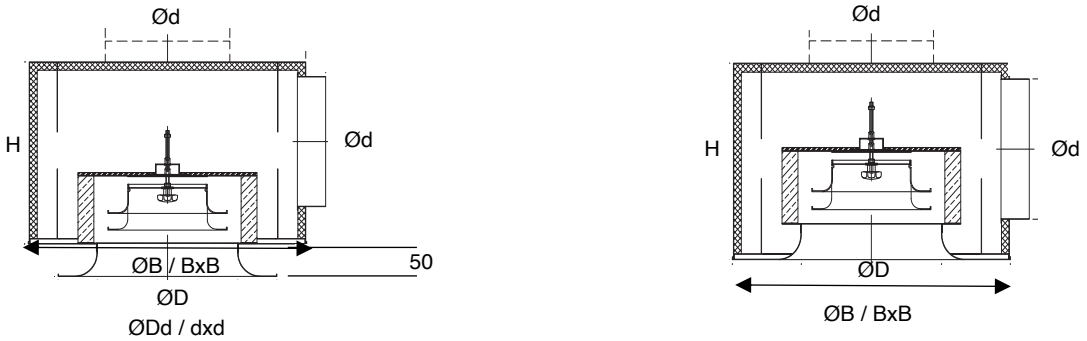


The ALTUS long throw Swirl Diffuser represents a distinctive outlet system designed to induce high primary airflow within the plenum box. It integrates an adaptable mechanism for modifying the air flow's structure. Its core constituents consist of a circular or square plenum box housing an internal cylindrical swirl element, accompanied by an adjustable deflection vane serving as a control nozzle, culminating in a rounded outlet diffuser. It's essential to note that the swirl diffuser is solely compatible when paired with a plenum box. Altus is manufactured in diverse configurations and surface finishes, tailored to meet various constructional and technical criteria and necessities.

- **Recommended for spaces with a maximum ceiling height of 3 - 15 m.**
- **Easy-to-install**
- **Manages large supply airflows**
- **Manuel adjustment in standard or motorized optional**



## Dimension

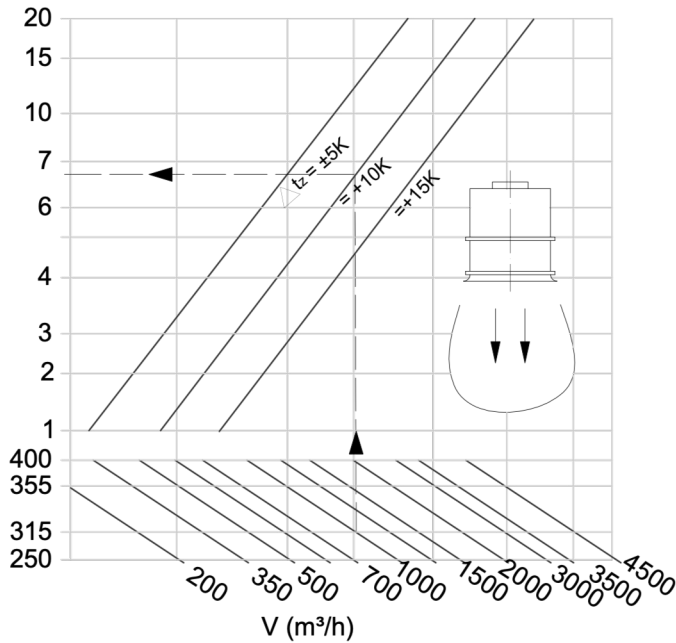


Type	ØD	ØDd	dxd	ØB	BxB	H	Ød
150	150	240	600x600	350	350x350	275	123
200	200	300	600x600	400	400x400	275	148
250	250	390	600x600	600	450x450	275	198
315	315	455	600x600	600	515x515	275	248
350	350	490	600x600	700	550x550	275	315
400	400	540	600x600	800	600x600	350	350
500	500	640	600x600	900	700x700	350	400

## Selection

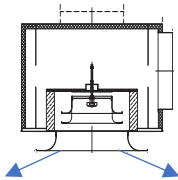
Type	L <sub>WA</sub> =30 db		L <sub>WA</sub> =35 db		L <sub>WA</sub> =40 db		L <sub>WA</sub> =45 db	
	V m <sup>3</sup> /h	Pa	V m <sup>3</sup> /h	Pa	V m <sup>3</sup> /h	Pa	V m <sup>3</sup> /h	Pa
200	170	10	250	18	275	26	365	34
250	325	14	375	19	450	26	530	38
315	625	21	725	28	850	52	1040	54
350	850	25	975	32	1130	41	1390	62
400	1200	30	1400	41	1600	51	1950	79
500	1800	35	2100	50	2350	62	2930	90

## Maximum Impact Depth

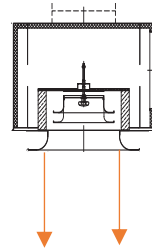


## Function

### Cooling



### Heating



The inner cylindrical swirl element initiates a highly inductive airflow pattern within the enclosure, inducing a negative pressure at its core. Consequently, ambient air is drawn into the enclosure, facilitating its integration with the supplied air, thereby significantly minimizing the temperature differential of the supplied air. This effect is further accentuated through secondary air induction at the periphery of the outlet, resulting in the attainment of nearly uniform temperature conditions within close proximity to the diffuser. The resultant swirling airflow remains consistently uniform and flat, maintaining stability independent of installation conditions (whether flush with the ceiling or freely suspended). Using a manually or motor-operated adjustable deflection vane, strategically positioned at the diffuser's center, the airflow direction can be adjusted from horizontal to vertical. Thus, the swirl diffuser is particularly well-suited for applications in spaces with ceilings exceeding 3 meters, catering to diverse heating or cooling requirements and offering the flexibility to adjust airflow depth at variable flow rates or temperature gradients.

# Controller

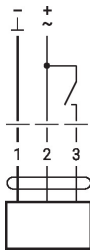


## Controller for motor-actuated air diffusers

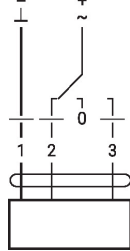
The air diffuser is available as from size 315 and upward with motorized actuation of the cone position in order to via thermostat, or other external switch, control from horizontal to vertical air diffusion or vice versa.

### Wiring diagrams

AC/DC 24 V, open/close



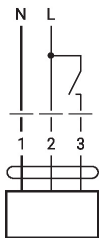
AC/DC 24 V, 3-point



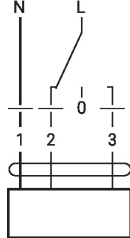
1	2	3		
			↓	↑
			↑	↓
			stop	stop
			↑	↓

### Wiring diagrams

AC 230 V, open/close



AC 230 V, 3-point



1	2	3		
			↓	↑
			↑	↓
			stop	stop
			↑	↓



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