



High Induction Ceiling Diffusers

DRACO

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.



gerhman.com

High Induction Ceiling Diffusers

DRACO

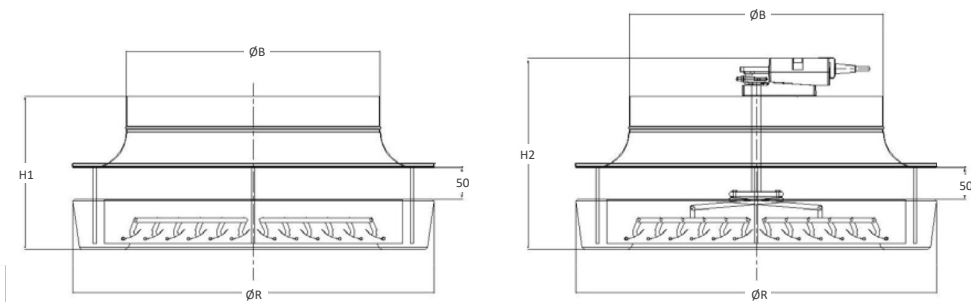


DRACO High-induction circular diffuser, for mixing primary air and inducted ambient air. Made in aluminium. Finished in any RAL colour upon request. Recommended installation height between 3 and 15 m. It can be set to a new position by hand or its setting can be changed by a motor.

- 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

General Dimension

Size	$\varnothing B$	$\varnothing R$	H1	H	$A_{\text{eff}} \text{ m}^2$
315	313	450	199	280	0,0885
400	398	570	223	305	0,126
630	628	870	298	380	0,245
800	798	1070	355	438	0,348

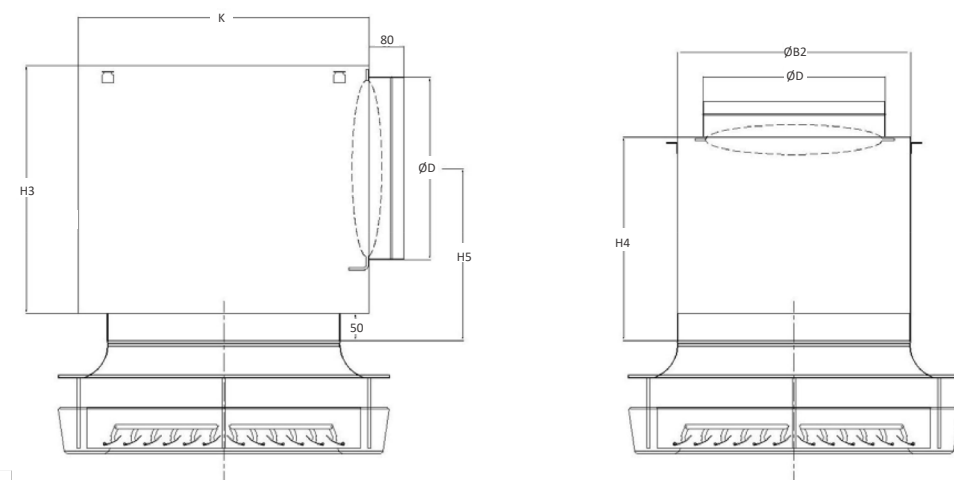


DRACO (Manuel)

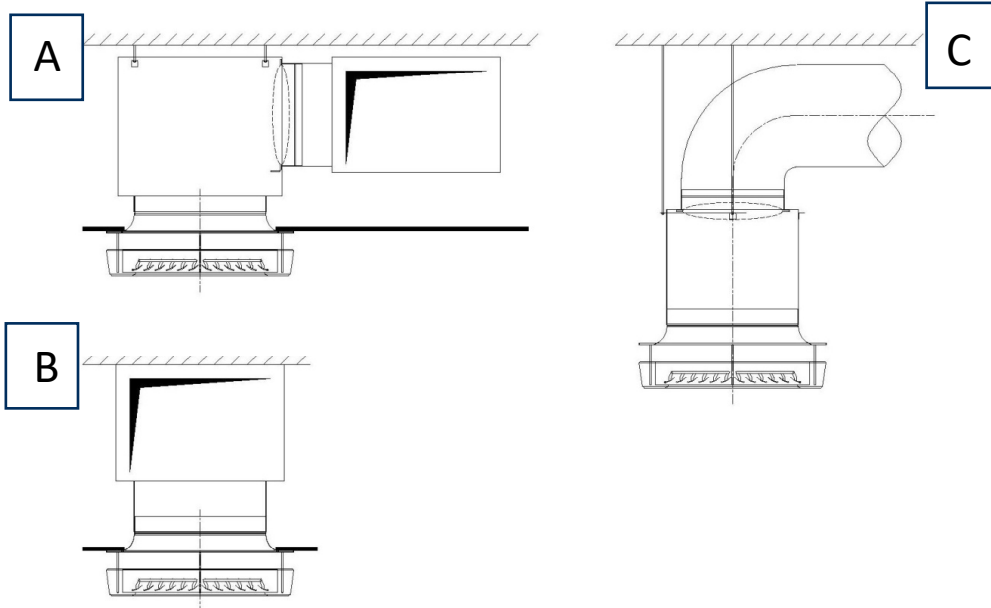
DRACO (Motorized)

Plenum Dimension

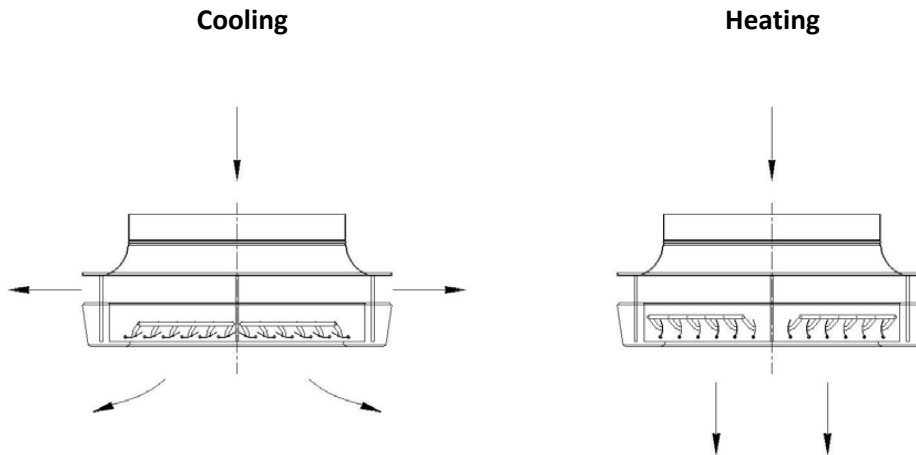
Size	K	ØB2	ØD	H3	H4	H5
315	415	314	248	350	250	225
400	500	399	313	425	350	265
630	750	629	398	490	425	295
800	920	799	498	590	490	345



Installation



Operation Mode



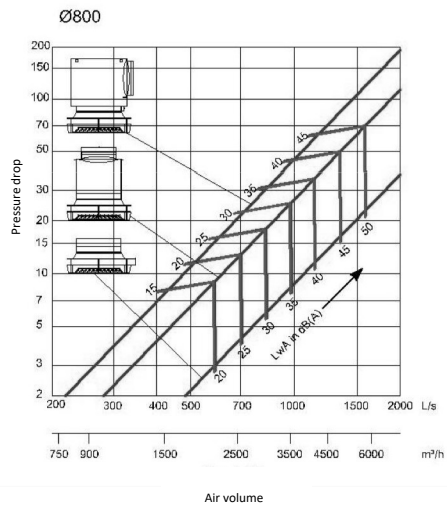
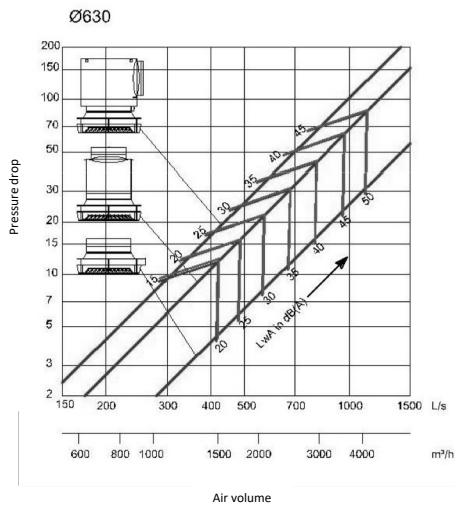
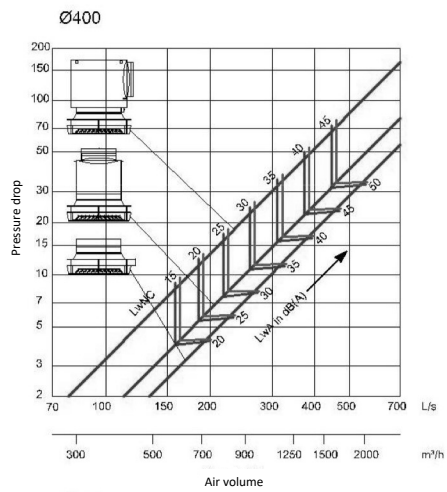
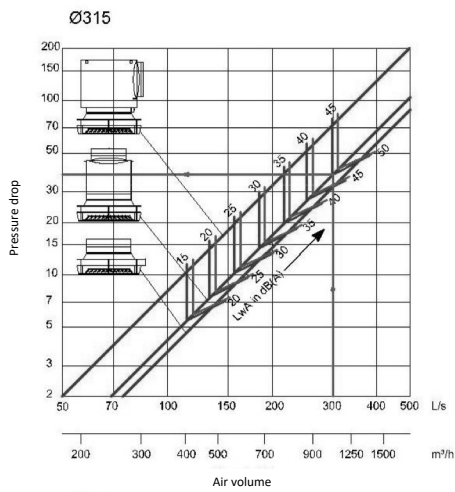
Function

Ceiling diffusers serve to guide conditioned air from HVAC systems into a space. This airflow creates a balanced circulation, swiftly minimizing the airflow speed and temperature gap between the supplied air and the room's air. These diffusers facilitate substantial air volume, ensuring a blended ventilation system suitable for both industrial areas and comfort zones. This method ensures effective overall room air distribution while minimizing disruptions in occupied spaces. DRACO ceiling diffusers feature adaptable blades, allowing customization to suit specific local needs. The horizontal air release provides all-around coverage, while vertical discharge is feasible during heating cycles. The temperature disparity between supplied air and room air can fluctuate from -10 to +15 K.

Optionally, an actuator can regulate the blades based on demand.

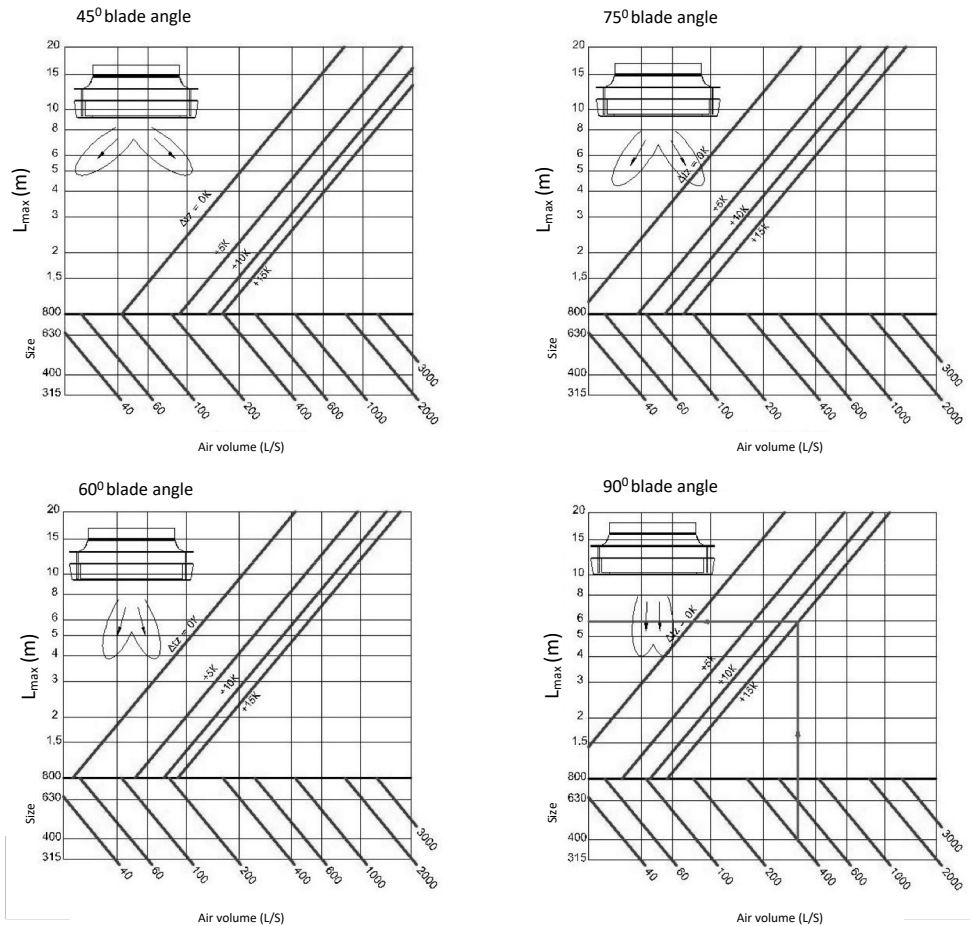
Performance

Sound power level and total differential pressure



Performance

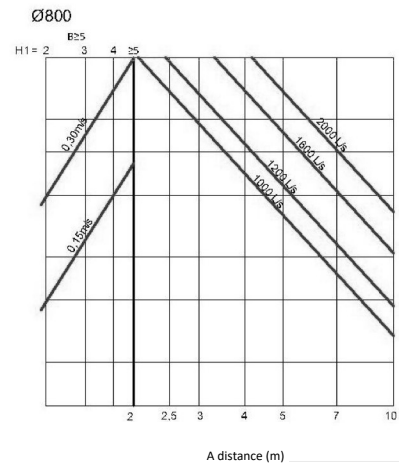
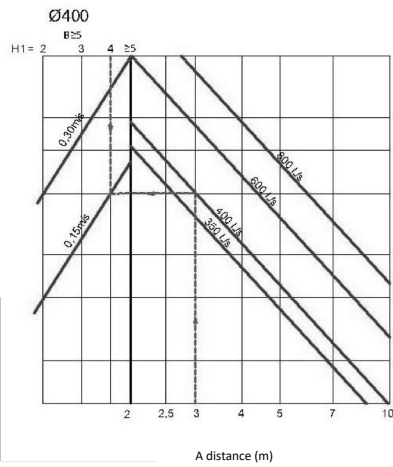
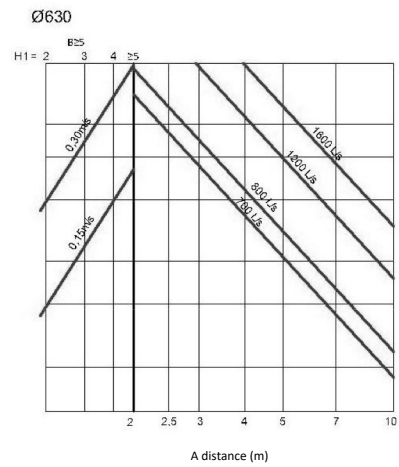
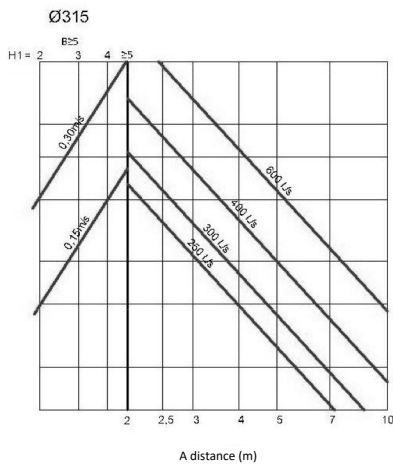
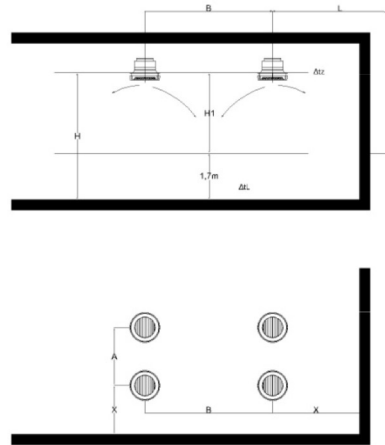
High induction results



L_{max} (m) = throw distance"

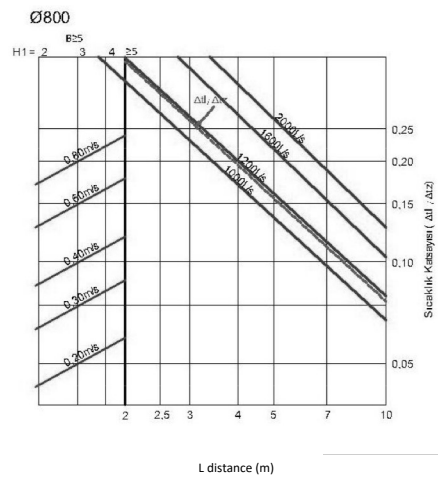
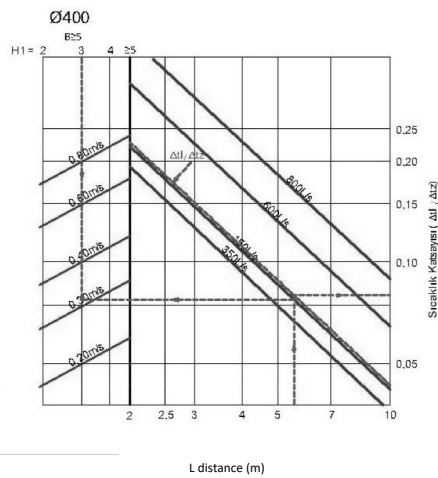
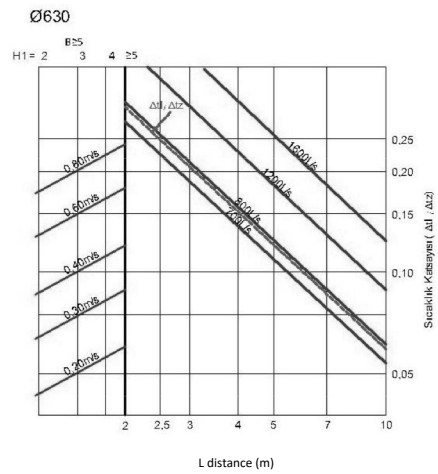
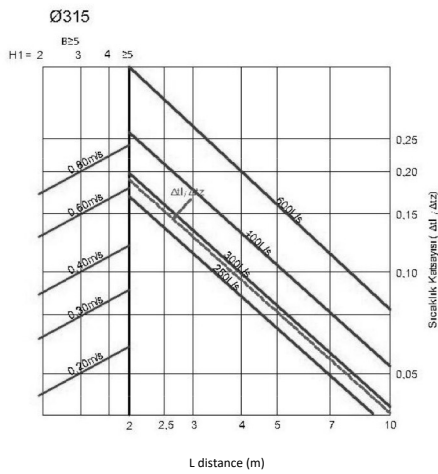
Performance

High induction results



Performance

High induction results



Controller

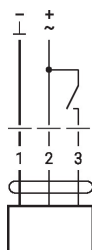
Controller for motor-actuated air diffusers



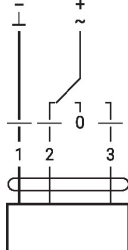
The air diffuser is available as from size 315 and upward with motorized actuation of the cone position in order to via thermostat, or other external switch, control from horizontal to vertical air diffusion or vice versa.

Wiring diagrams

AC/DC 24 V, open/close



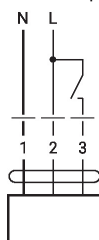
AC/DC 24 V, 3-point



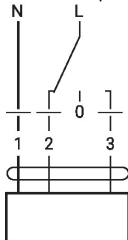
1	2	3	1 0	1 0
			↑	↓
			stop	stop
			↑	↓

Wiring diagrams

AC 230 V, open/close



AC 230 V, 3-point



1	2	3	1 0	1 0
			↑	↓
			stop	stop
			↑	↓



High Induction Ceiling Diffusers

Draco



• +90 0850 303 4766



• info@gerhman.com



• gerhman.com