



High Induction Ceiling Diffusers

**VENIO**



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# High Induction Ceiling Diffusers

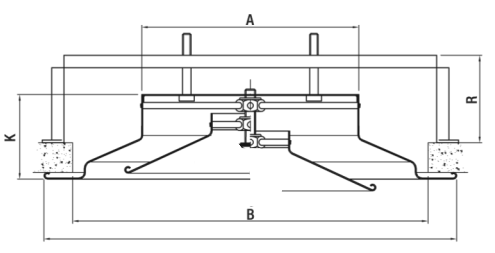


## VENIO

VENIO 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 10 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 - 10 m.
- Easy-to-install
- Manages large supply airflows
- Manuel adjustment in standard or motorized optional

## General Dimension



Diffuser	Ø A	Ø B	Ø C	R	K
100	99	187	225	116	74,5
160	159	245	291	116	86
200	199	324	378	116	94,5
250	249	390	454	116	103,5
315	314	468	537	141	120,5
355	354	545	624	158	133,5
400	399	614	704	198	171,5
450	449	689	788	-	187,5
500	499	764	872	-	200
630	629	955	1063	-	222
710	709	1070	1180	-	217
800	799	1200	1323	-	248
900	899	1350	1470	-	281

Unit mm

## Selection Table

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.

Ø nominal	Q (m³/h)	L <sub>wa</sub> [dB(A)]	ΔP <sub>t</sub> (Pa)	X (m)	V <sub>k</sub> (m/s)
100	90	24	13	1.3	3.5
	120	32	24	1.7	4.8
	170	40	44	2.4	6.6
160	150	24	7	1.7	4.0
	200	32	13	2.3	5.4
	270	40	24	3.2	7.3
200	350	24	14	3.0	5.2
	460	32	25	4.0	6.9
	620	40	44	5.4	9.2
250	560	24	15	3.9	5.4
	740	32	25	5.1	7.1
	970	40	44	6.8	9.3
315	810	24	12	4.5	4.9
	1050	32	20	5.8	6.4
	1370	40	35	7.6	8.3
355	1070	24	12	5.1	4.8
	1380	32	21	6.6	6.2
	1780	40	34	8.5	8.0
400	1300	24	12	5.7	4.9
	1660	32	20	7.2	6.3
	2120	40	33	9.2	8.0
450	1540	24	12	6.2	5.0
	1940	32	19	7.9	6.4
	2460	40	31	10.0	8.1
500	1780	24	12	6.8	5.2
	2230	32	19	8.6	6.5
	2800	40	30	10.7	8.2
630	2570	24	12	8.4	5.5
	3150	32	18	10.4	6.8
	3890	40	28	12.8	8.3

### LEGEND

Q (m³/h): Air flow.

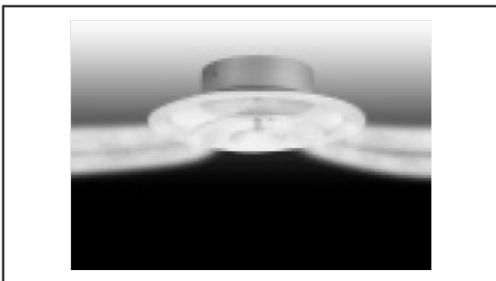
L<sub>wa</sub> [dB(A)]: Sound power level.

ΔP<sub>t</sub> (Pa): Total pressure loss.

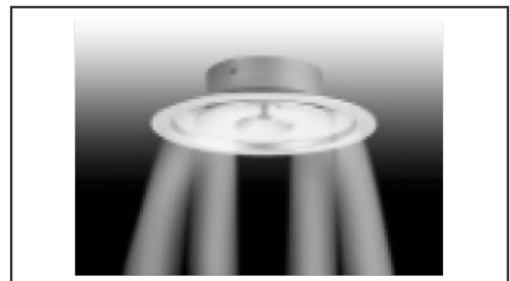
X (m): Throw for a maximum velocity of 0.25 m/s at the occupied zone

ΔT = -10 °C (cold), installed at a height of 3 m, with ceiling effect.

V<sub>k</sub> (m/s): Effective velocity.



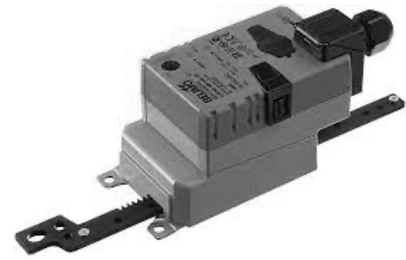
Cooling



Heating

# Controller

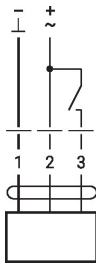
## Controller for motor-actuated air diffusers



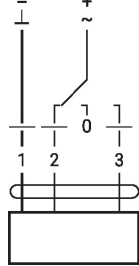
The air diffuser is available as from size 315 and upward with motorized actuation of the cone position in order to via thermostat, or other external switch, control from horizontal to vertical air diffusion or vice versa.

### Wiring diagrams

AC/DC 24 V, open/close



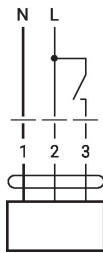
AC/DC 24 V, 3-point



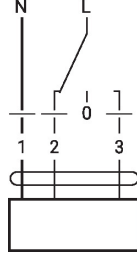
1	2	3		
			stop	stop

### Wiring diagrams

AC 230 V, open/close

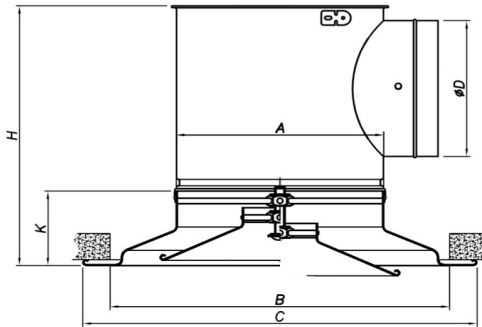


AC 230 V, 3-point



1	2	3		
			stop	stop

# Plenum Box



DIFFUSER	Ø A	Ø B	Ø C	K	Ø D	H
100	99	187	225	74,5	99	228
160	159	245	291	86	159	300
200	199	324	378	94,5	199	348
250	249	390	454	103,5	249	407
315	314	468	537	120,5	314	489
355	354	545	624	133,5	354	542
400	399	614	704	171,5	399	625
450	449	689	788	187,5	449	691
500	499	764	872	200	499	754
630	629	955	1063	222	629	906
710	709	1070	1180	217	-	-
800	799	1200	1323	248	-	-
900	899	1350	1470	281	-	-



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• +90 0850 303 4766



• [info@gerhman.com](mailto:info@gerhman.com)



• [gerhman.com](http://gerhman.com)