



High Induction Ceiling Diffusers

BM-DY-01



High Induction Ceiling Diffusers

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BM-DY-01 high-induction square ceiling diffuser, for mixing primary air and induced 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
- For variable and constant volume flows
- For supply air to room air temperature differences from -12 to +15 K
- Angled or vertical air discharge in heating mode

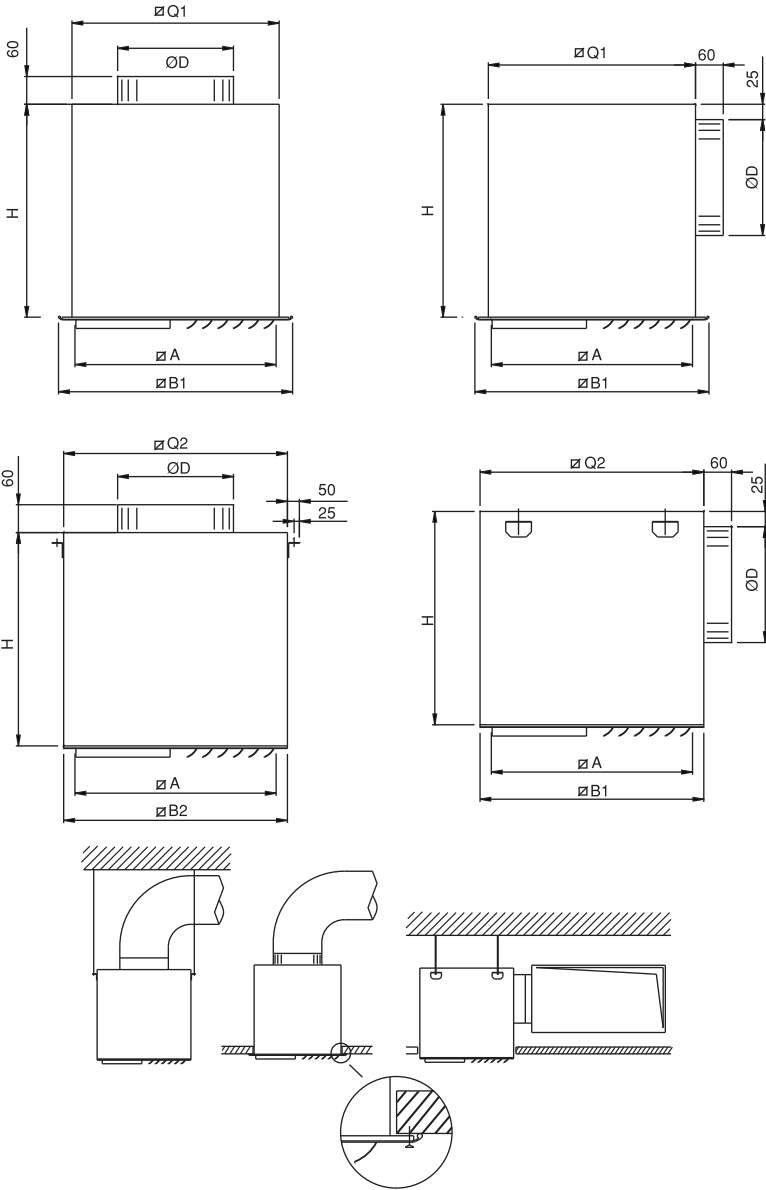
Quick sizing

Nominal size	m3/h	Pa	db(A)
425	350	7	22
	550	15	30
	775	30	40
	1000	51	50
600	750	8	27
	1100	20	35
	1500	35	45
	1850	55	50
775	1350	7	25
	1850	15	35
	2375	23	40
	3200	44	50
1050	2450	15	337
	3000	20	42
	3500	25	45
	4000	35	50

'Air conditioning systems employ ceiling swirl diffusers to create a swirling effect when supplying air to rooms. This airflow pattern effectively mixes the room air, leading to a rapid reduction in the velocity of the supplied air and the temperature difference between the supplied air and the room air. Ceiling swirl diffusers have the advantage of accommodating large volume flow rates. Consequently, they promote mixed flow ventilation in comfort zones, ensuring excellent overall room ventilation with minimal turbulence in the occupied area.'

Dimensions

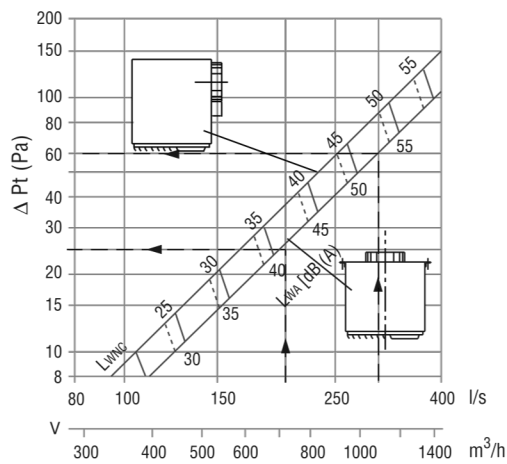
Size	A	D	H	Q1	Q2	B1	B2
425	425	248	400	440	469	489	469
600	600	300	550	615	644	664	644
775	775	350	600	790	819	839	819
1050	1050	400	650	1065	1094	1114	1094



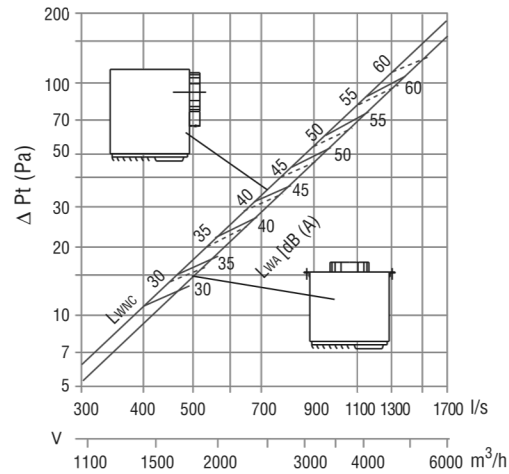
Technical data

Sound power level and differential pressures.

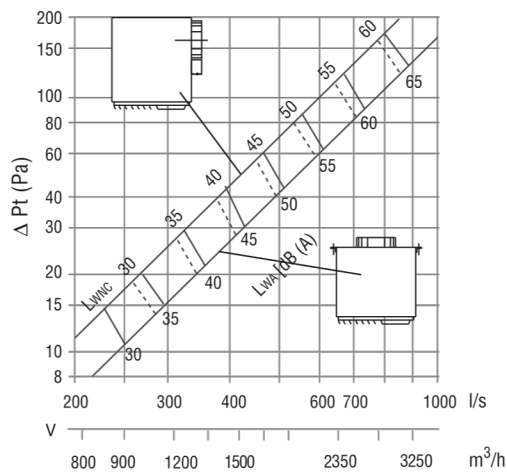
BM-DY-01 425



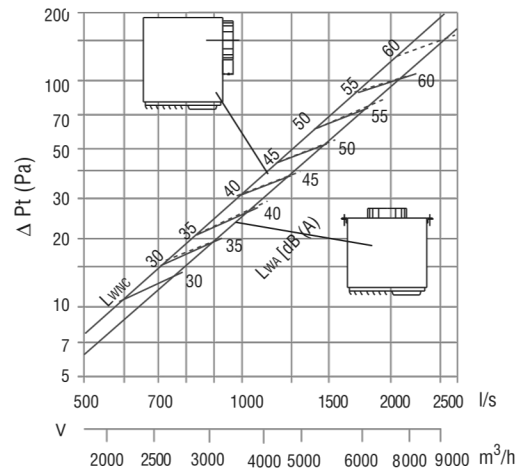
BM-DY-01 775



BM-DY-01 600



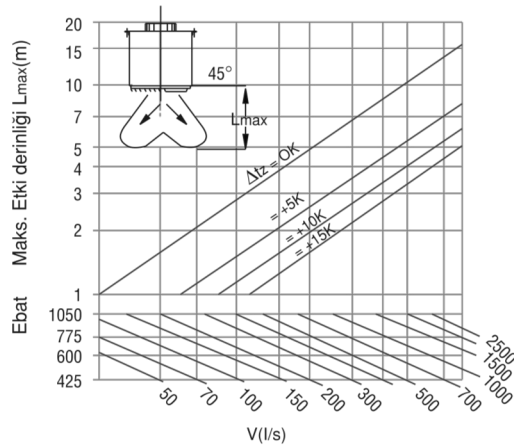
BM-DY-01 1050



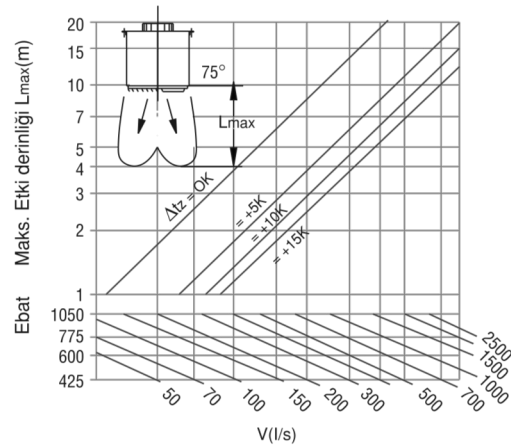
Technical data

High induction results according to blade angle / heating

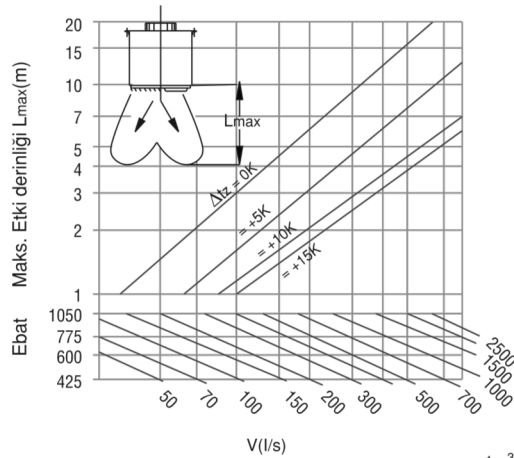
45° blade angle.



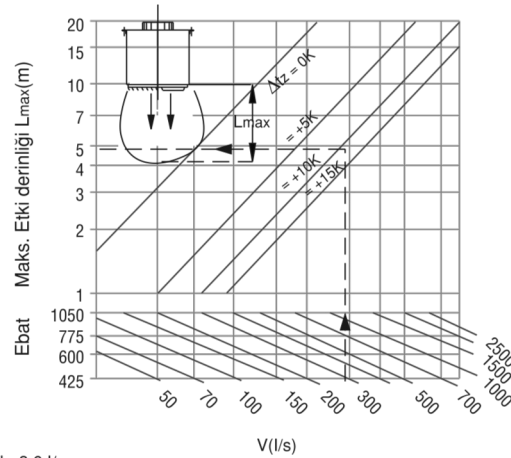
75° blade angle.



60° blade angle.



90° blade angle.

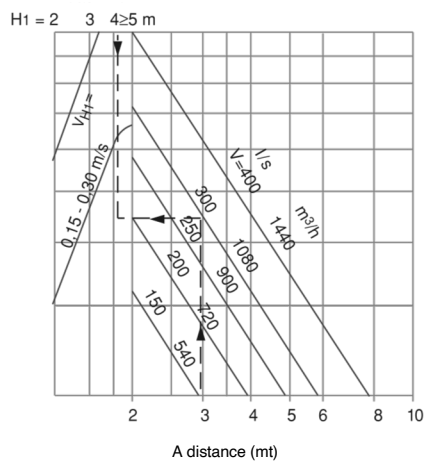


1m³/h=3,6 l/s

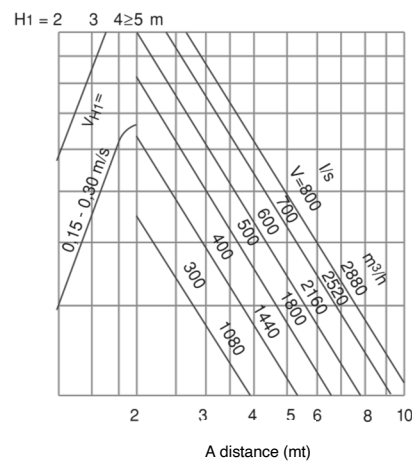
Technical data

High induction results according to blade angle /
cooling temperature difference -10°

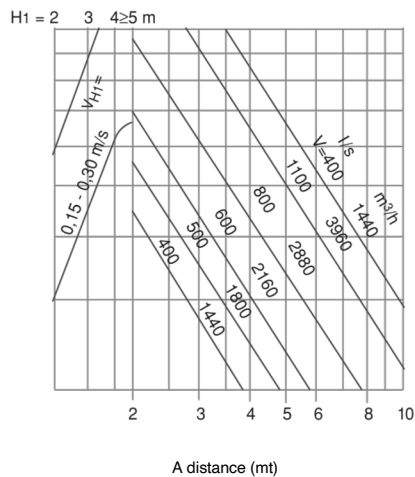
BM-DY-01 425



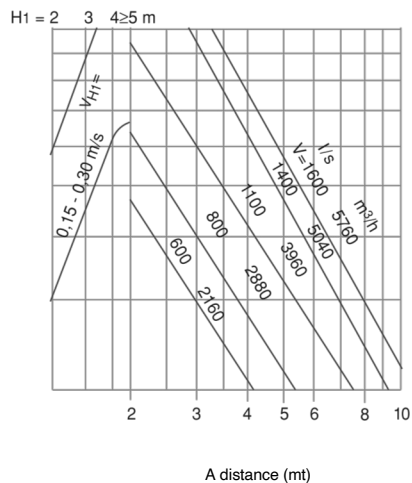
BM-DY-01 775



BM-DY-01 600

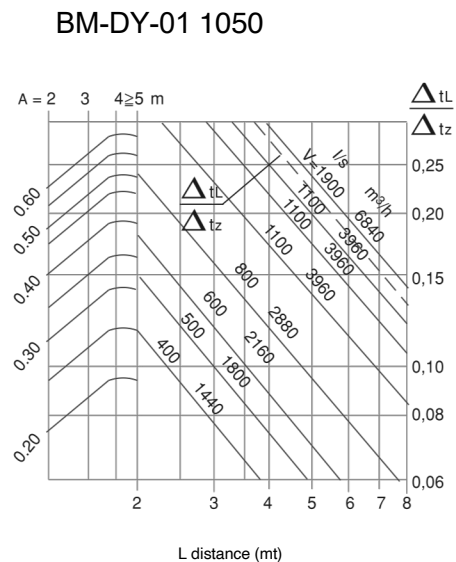
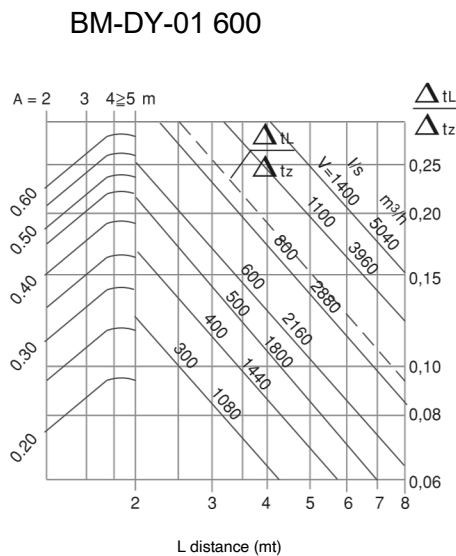
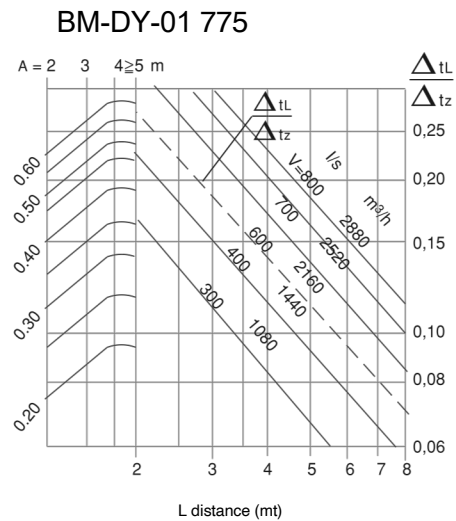
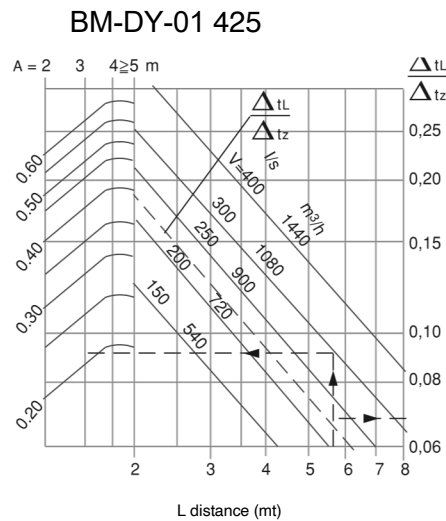


BM-DY-01 1050



Technical data

Average velocity and temperature section on the wall / cooling temperature difference -10°



Controller

Controller for motor-actuated air diffusers



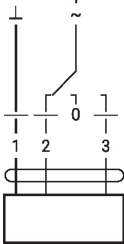
The air diffuser is available with motorized actuation of the blade position via thermostat, or other external switch, control from horizontal to vertical air diffusion or vice versa.

Wiring diagrams

AC/DC 24 V, open/close



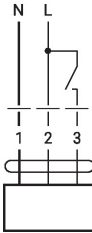
AC/DC 24 V, 3-point



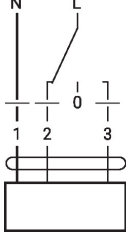
1	2	3	1	2
			stop	stop

Wiring diagrams

AC 230 V, open/close



AC 230 V, 3-point



1	2	3	1	2
			stop	stop



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