



TWIST AIR

VARIABILNI VRTINČNI DIFUZOR VARIABLE SWIRL DIFFUSER

OPIS:

Variabilni vrtinčni difuzor Twist air je namenjen hlajenju in ogrevanju velikih prostorov višine od 4 do 12 m. Omogoča turbulenten tok zraka, dolge domete pri ogrevanju in enakomerno razpršitev zraka pod stropom pri hlajenju – Coanda efekt.

KONSTRUKCIJA: Difuzor sestavlja lijakasto oblikovano ohišje in 10 centralno nastavljivih lopatic s kovinskim mehanizmom.

MATERIAL: aluminijasta pločevina

BARVA: bela barva RAL 9010 MAT ali na željo kupca poljubna barva po RAL lestvici

DODATKI:

PP - perforirana plošča v vratu difuzorja
PB 3 - priključna komora PB3

POGON:

C - centralna ročna nastavev položaja lopatic

E - pripravljen za montažo elektromotornega pogona.

Na željo kupca se elektromotor tudi namesti na ohišje difuzorja.

- LM230A
- LM230A SR
- LM24A
- LM24A SR

T - difuzor ima vgrajen termostatski pogon, ki zaznava temperaturo vpihanega zraka in samodejno uravnava položaj lopatic. Termostatski element deluje v temperaturnem območju 22 °C do 38 °C. Deluje avtomatsko in ne potrebuje dodatnih virov energije in s tem povezanih instalacij. Difuzor je nastavljen na optimalen položaj in aktiviran že v tovarni. Lopatice so pri temperaturi 38 °C odprte pod kotom 85°. Pri temperaturi 20 °C mehanska blokada zaustavi zapiranje lopatic pod kotom 35°.

DESCRIPTION:

The Twist air variable swirl diffuser can be used for various ceiling heights from 4 m to 12 m. It enables turbulent airflow, long-range constant airflow and the Coanda effect – where cold air is dispersed below the ceiling.

CONSTRUCTION: The diffuser consists of a nozzle-shaped housing and 10 centrally adjustable blades with a metal mechanism.

MATERIAL: aluminium sheet metal

FINISH: white RAL 9010 MATT or any RAL colour according to the customer's request.

ACCESSORIES:

PP - perforated plate placed on the neck of the diffuser
PB 3 - plenum box PB3

DRIVE:

C - central manual drive

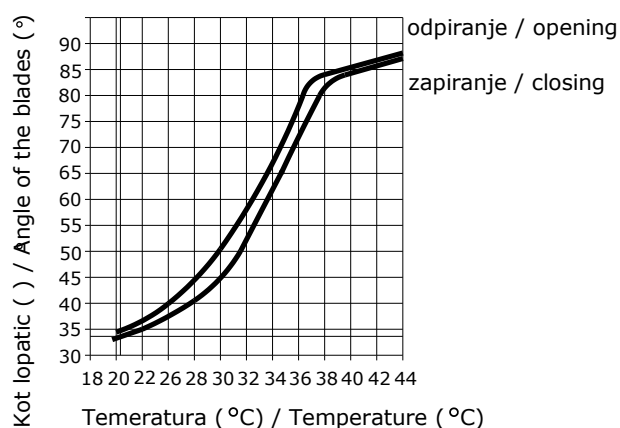
E - ready for electric drive

Upon request, the electric motor drive can be added on the diffuser:

- LM230A
- LM230A SR
- LM24A
- LM24A SR

T - thermostatic drive installed inside diffuser perceives a surroundings temperature and automatically adjusts the position of the blades. It does not need any additional source of energy, installations or settings. Diffuser is set in an optimal position and activated in the production. The wax element works in a temperature range from 22 °C to 38 °C. At temperature 38 °C the blades are open at 85° angle. At temperature 20 °C the blockade fixed on the holder stops the blades in position of 35° angle.

Delovanje difuzorja s termostatskim pogonom: / Operation of diffuser with thermostatic drive:

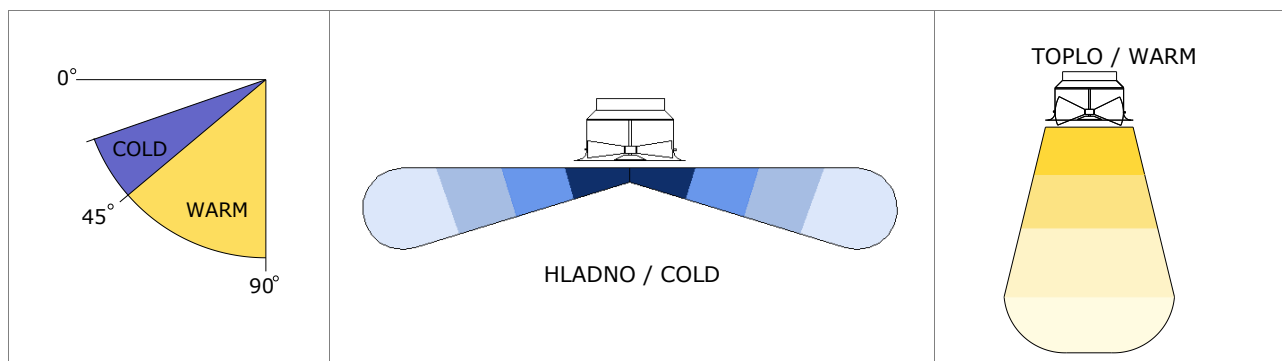


MINIMALNA RAZDALJA MED DIFUZORJI: / MINIMUM DISTANCE BETWEEN DIFFUSERS:

Minimalna razdalja med difuzorjema mora biti pri minimalnem pretoku zraka vsaj 5x premer difuzorja in vsaj 10x premer difuzorja pri maksimalnem pretoku zraka.

Minimum distance between two diffusers must be at least 5 times the diameter of the diffuser at minimum flow and 10 times the diameter of the diffuser at maximum flow.

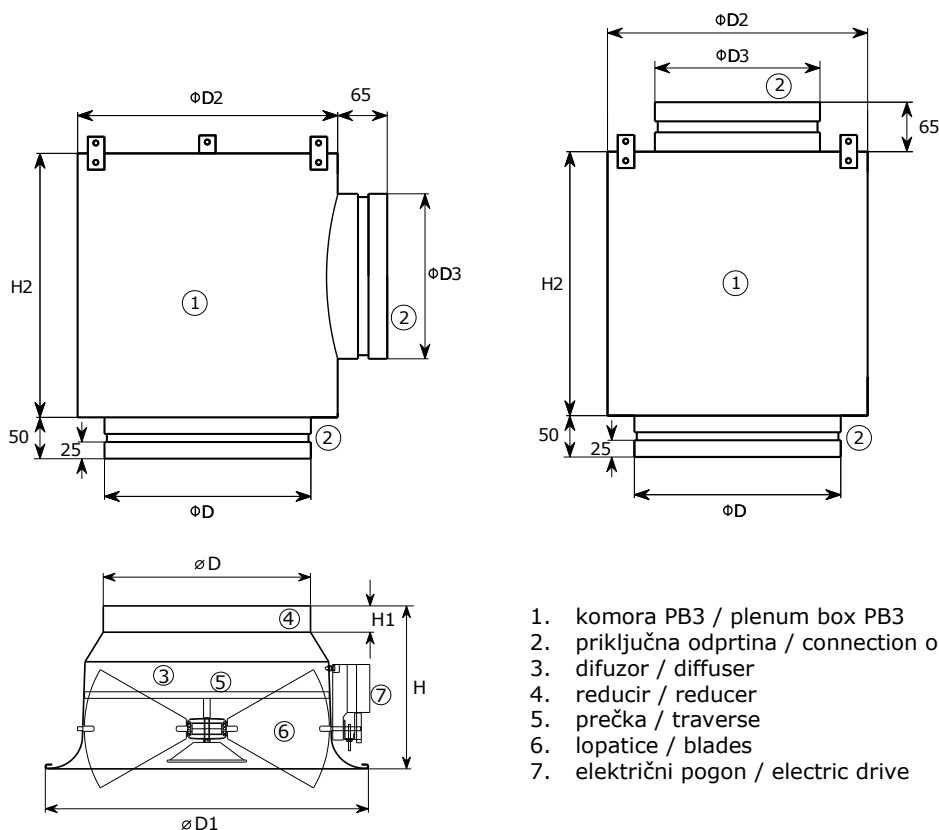
KOT LOPATIC IN SMER ZRAČNEGA CURKA: / ANGLE OF BLADES AND DIRECTION OF AIR FLOW:



MONTAŽA / INSTALLATION:

Pritrditev na cev / Fitting on air shaft.	Pritrditev na priključno komoro PB3 / Fitting on plenum box PB3

DIMENZIJE / DIMENSIONS:



1. komora PB3 / plenum box PB3
2. priključna odprtina / connection opening
3. difuzor / diffuser
4. reducir / reducer
5. prečka / traverse
6. lopatice / blades
7. električni pogon / electric drive

D	Ø D	Ø D1	Ø D2	Ø D3	H	H1	H2
500	498	790	630	398	320	60	470
630	628	920	800	498	320	80	570

NAČIN NAROČANJA / HOW TO ORDER:

TWIST AIR	C	630	RAL 9010M	PP	PB 3	630	/	500	H	L	ISO 6mm
izolacija / insulation 6 mm, 10 mm, 13 mm, 19 mm loputka / damper pozicija priključka / connection position H – horizontalen / horizontal V – vertikalni / vertical priključek / connection opening standard poljuben / optional dimenzija komore / plenum dimension komora / plenum PB3 komora / plenum dodatki / supplements PP – perforirana razpršilna plošča / perforated dispersing plate barva / colour standard RAL 9010 MAT optional dimenzija difuzorja / diffuser dimension 500, 630 pogon / drive C – centralni ročni pogon / central manual drive E – pripravljeno za elektromotorni pogon / ready for electric drive E + BELIMO ... – montiran el. pogon / mounted electric drive T – montiran termični pogon / mounted thermostatic drive tip difuzorja / diffuser type											

HITRA IZBIRA Z IZBORNIM PROGRAMOM / FAST SELECTION WITH SELECTION TOOL: <https://izdelki.kosanc.si>

IZBIRNA TABELA / SELECTION TABLE:

Q [m³/h]	dim	500	630
1200	Lh [m]	3,5	
	PT [Pa]	<5	
	NH [db(A)]	<20	
	Lv [m]	7,5	
	PT [Pa]	<5	
	NH [db(A)]	<20	
1400	Lh [m]	3,6	
	PT [Pa]	6	
	NH [db(A)]	21	
	Lv [m]	7,8	
	PT [Pa]	<5	
	NH [db(A)]	<20	
1600	Lh [m]	3,7	
	PT [Pa]	8	
	NH [db(A)]	23	
	Lv [m]	8,0	
	PT [Pa]	<5	
	NH [db(A)]	<20	
1800	Lh [m]	3,8	
	PT [Pa]	10	
	NH [db(A)]	25	
	Lv [m]	8,2	
	PT [Pa]	<5	
	NH [db(A)]	<20	
2000	Lh [m]	3,9	3,5
	PT [Pa]	13	<5
	NH [db(A)]	27	<20
	Lv [m]	8,4	7,5
	PT [Pa]	5	<5
	NH [db(A)]	20	<20
2500	Lh [m]	4,1	3,7
	PT [Pa]	21	7
	NH [db(A)]	32	22
	Lv [m]	8,9	7,9
	PT [Pa]	8	<5
	NH [db(A)]	23	<20

Q [m³/h]	dim	500	630
3000	Lh [m]	4,3	3,8
	PT [Pa]	31	10
	NH [db(A)]	37	25
	Lv [m]	9,3	8,2
	PT [Pa]	12	<5
	NH [db(A)]	27	<20
3500	Lh [m]		3,9
	PT [Pa]		14
	NH [db(A)]		28
	Lv [m]		8,5
	PT [Pa]		5
	NH [db(A)]		20
4000	Lh [m]		4,1
	PT [Pa]		18
	NH [db(A)]		31
	Lv [m]		8,8
	PT [Pa]		7
	NH [db(A)]		22
4500	Lh [m]		4,2
	PT [Pa]		24
	NH [db(A)]		33
	Lv [m]		9
	PT [Pa]		9
	NH [db(A)]		24
5000	Lh [m]		4,3
	PT [Pa]		29
	NH [db(A)]		36
	Lv [m]		9,2
	PT [Pa]		12
	NH [db(A)]		26

Domet zraka je izračunan do hitrosti 0,2 m/s / Air flow range is calculated up to the velocity of 0.2 m/s

Q - količina zraka [m³/h] / amount of air [m³/h]

Lh - dolžina horizontalnega dometa zraka pri kotu lopatic 30° [m] / length of horizontal air flow range at 30° blade angle [m]

Lv - dolžina vertikalnega dometa zraka pri kotu lopatic 70° [m] / length of vertical air flow range at 70° blade angle [m]

PT - padec tlaka [Pa] / pressure drop [Pa]

NH - nivo hrupa [db (A)] / noise level [db (A)]

A - meritev jakosti zvoka je izvedena pri 1 m od izvora / measurement of sound intensity is carried out at m from the source

