



SWIRL DIFFUSERS



Different types of anemostats

RADR and RADQ ceiling swirl diffuser elements provide high comfort level by supplying the fresh air radially. We produce RADR swirl diffusers with round front plate and RADQ swirl diffusers with square front plate fitting into modular structure ceiling.

Ceiling swirl diffusers are designed to install primary in a way that swirl diffuser front plates are coplanar with the ceiling. Not necessary to follow this installation method in order to operate the system properly. When swirl diffuser front plate is not coplanar with the ceiling, diffusers are delivered without plastic air flow blades..

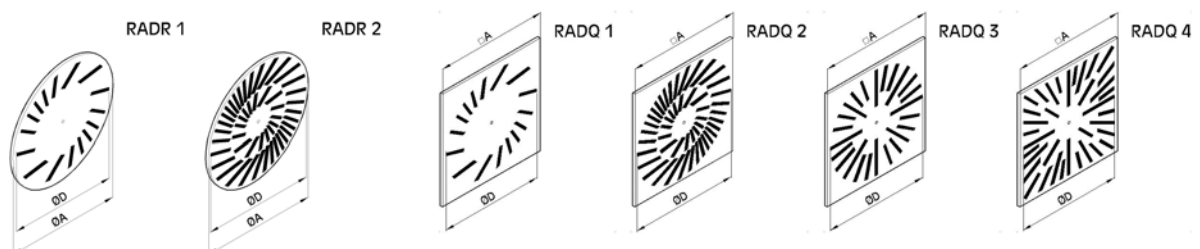


The number of the plastic airflow blades and their allocation can be chosen optionally based on customer request. So any kind of inner architecture idea can be performed.

Depending on building into the ceiling structure the connection branch can be placed on top or side of the box

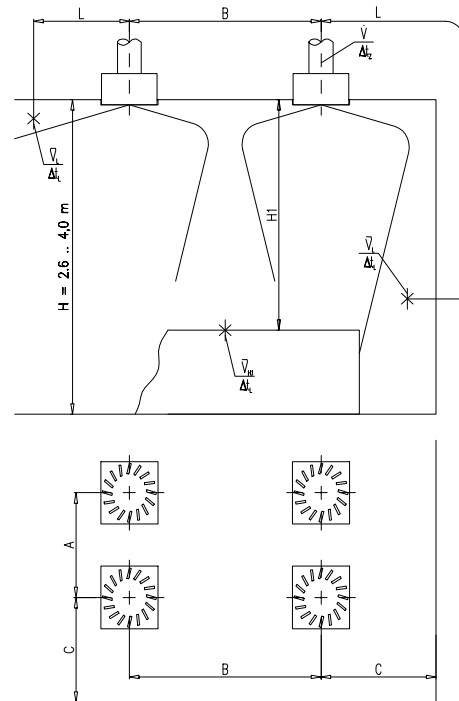
Sizes	Number of the slots	D	A	
			RADR	RADQ
310 x	8	276	310	310
	10			
400 x	16	366	396	396
500 x	16	466	496	496
	24			
600 x	16	566	600	596
	24			
	32			
	38			
625 x	16	566	625	623
	24			
	32			
	38			

Possible allocation of plastic airflow blades



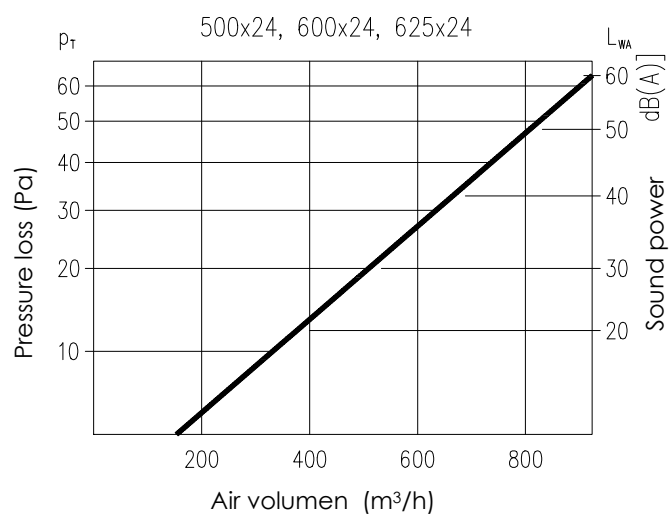
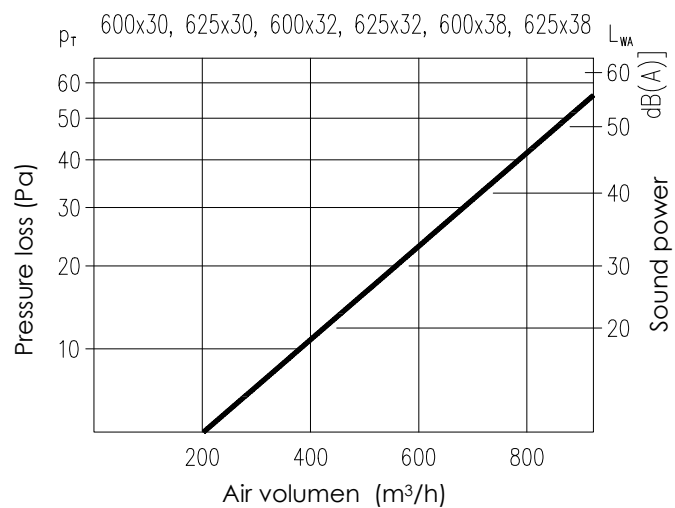
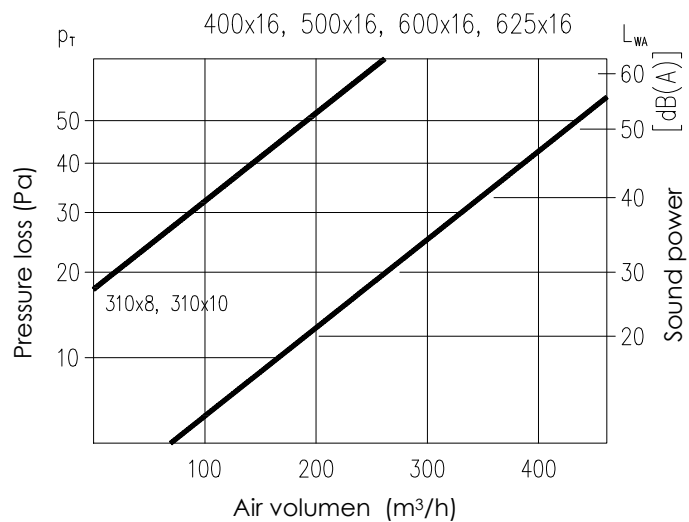
Swirl diffusers selection

V [m ³ /h]	Air volume / diffuser
A, B [m]	Distance between 2 diffusers
C [m]	Distance between the middle of the diffuser and the wall
$H1$ [m]	Distance between the ceiling and the occupied zone.
V_L [m/s]	Airstream velocity measured in L throw distance
L [m]	Horizontal and vertical distance ($C+H1$) when air is blown opposite the wall
V_{H1} [m/s]	Average airflow velocity measured between 2 diffusers in $H1$ distance
D_{pT}	Pressure drop
L_{WA} [dB(A)]	Acoustic Power Level
D_{tz} [K]	Difference between room temperature and supply air temperature
D_{tL} [K]	Difference between room temperature and airstream temperature

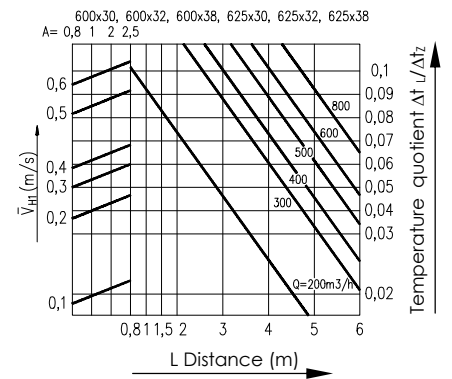
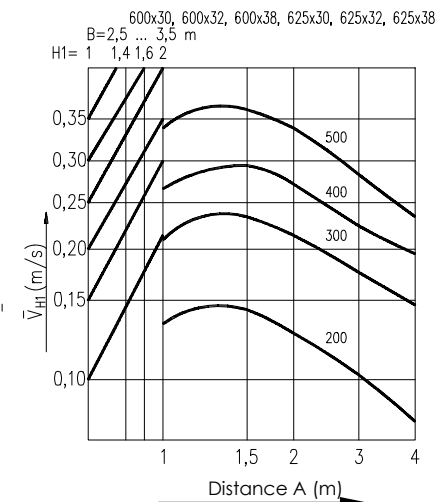
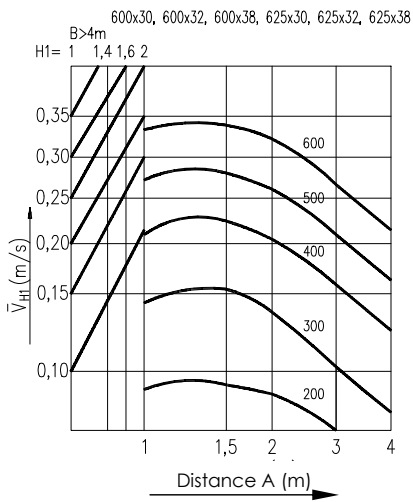
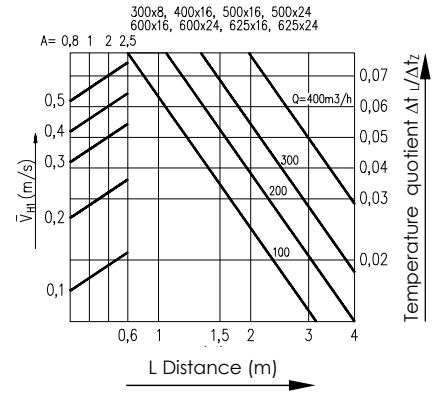
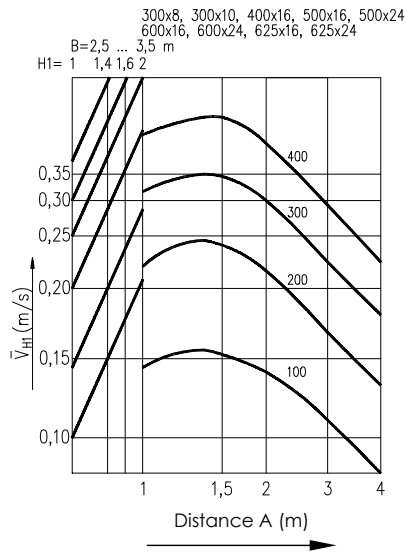
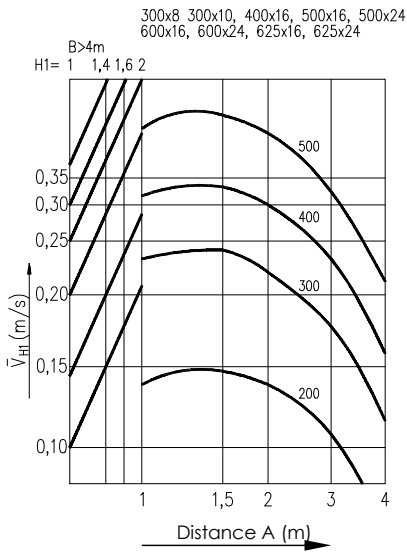


Size	V_{max}		V_{min}		$L_{WA} max$	$L_W NC max$	$L_{WA} min$	$L_W NC min$	A_{eff} m ²
	l/s	m ³ /h	l/s	m ³ /h	dB(A)	NC	dB(A)	NC	
310 x 8	67,8	244	15,3	55	40	40	< 20	< 20	0,0070
310 x 10	83,4	300	19,5	70	40	40	< 20	< 20	0,0070
400 x 16	107,5	387	30,6	110	40	40	< 20	< 20	0,0140
500 x 16	107,5	387	30,6	110	40	40	< 20	< 20	0,0140
500 x 24	177,8	640	61,1	220	40	40	< 20	< 20	0,0210
600 x 16	107,5	387	30,6	110	40	40	< 20	< 20	0,0140
600 x 24	177,8	640	61,1	220	40	40	< 20	< 20	0,0295
600 x 30	191,7	690	76,4	275	40	40	< 20	< 20	0,0365
600 x 32	205,6	740	81,9	295	40	40	< 20	< 20	0,0395
600 x 38	216,7	780	97,2	350	40	40	< 20	< 20	0,0435
625 x 16	107,5	387	30,6	110	40	40	< 20	< 20	0,0140
625 x 24	177,8	640	61,1	220	40	40	< 20	< 20	0,0295
625 x 30	191,7	690	76,4	275	40	40	< 20	< 20	0,0365
625 x 32	200,1	720	81,9	295	40	40	< 20	< 20	0,0395
625 x 38	211,1	760	97,2	350	40	40	< 20	< 20	0,0435

Quick selection



Technical data



References

LEGO Manufacturing Kft. Nyíregyháza
DIEHL Aircabin Hungary Kft. Nyírbátor
MERCEDES BENZ Manufacturing Kft. Kecskemét
GE Hungary Nyrt. Budapest
SOUTH BUDA BUSINESS PARK Irodaház, Budapest
KIKA Áruház Debrecen és Kassa
GETRAG FORD Kechnec
SCHELLING Kechnec
FLEXTRONICS Nyíregyháza, Sárvár, Brno, Zalaegerszeg, Zalalövő
ROBERT BOSCH Elektronika Kft Hatvan
SIEMENS Gönyü
INFOPARK Budapest
ÁRPÁD CENTER Budapest
CITY GATE IRODAHÁZ Budapest
DOTÉ Debrecen
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