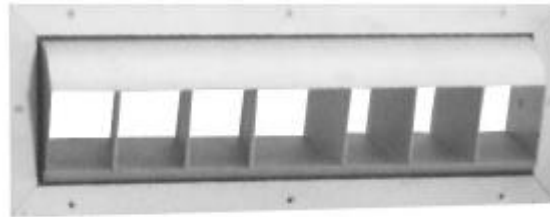




**Drum Diffusers
DD**

**DESCRIPTION:**

The High Capacity Drum Diffuser (DD) consist of extruded aluminum blades mounted inside a rotatable drum to produce long air throws with a high degree of directional control

MATERIAL :

- Aluminum
- sheet metal

FUNCTION :

The DD provides long throws to supply air to spaces that cannot be served by ductwork and conventional outlets due to structural or architectural restrictions. This makes the DD ideal for use in warehouses, factories, stadiums, or any large enclosed space. For demanding environments such as industrial plants, or areas where corrosion resistance is necessary, an all stainless steel option is available.

Cylindrical core installed in frame, which allows to adjust air pattern ± 300 horizontally the blade which is located cylindrical core allows to adjust the air pattern vertically

FINISHING :

- Powder coated in RAL9010 colour as standard. Other colours on request

INSTALLATION :

- Screw
- Mounting Frame

ACCESSORIES:

- Damper
- Mounting Frame

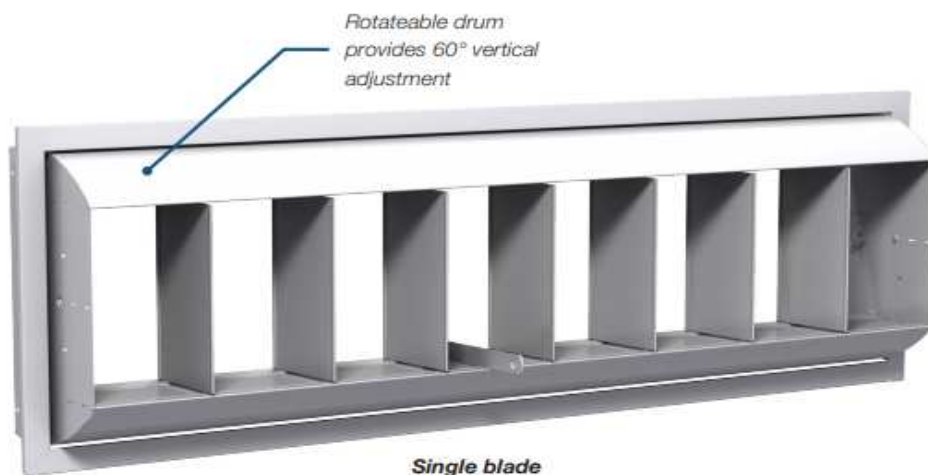
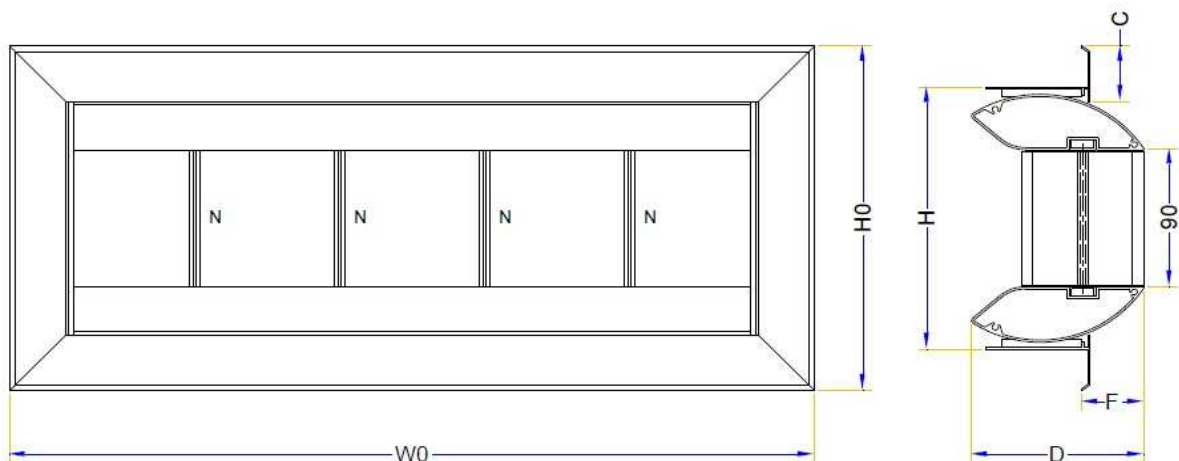


STANDARD SIZES (mm):

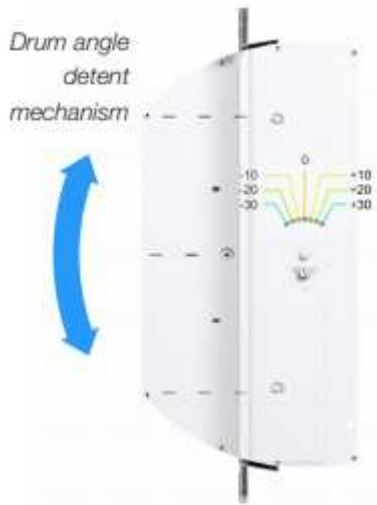
TYPE DD - AVAILABLE SIZES (mm)			
NECK SIZE			
250x165	300x165	475x165	625x165
X	X	X	X

DIMENSIONS

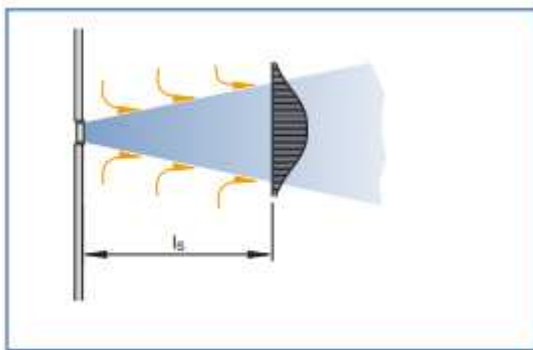
DIMENSIONS	W	W ₀	H	H ₀	D	F	C	N
250X165	250	332	165	217	107	40	35	2
300X165	300	370	165	217	107	40	35	3
475X165	475	545	165	217	107	40	35	5
625X165	625	695	165	217	107	40	35	7



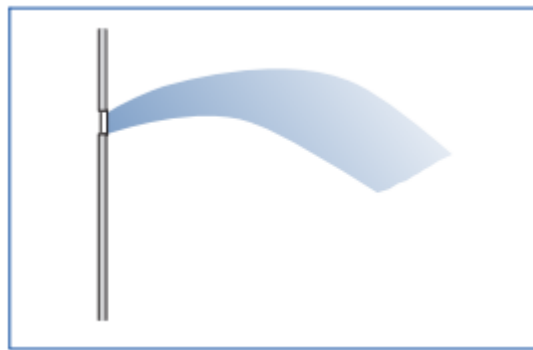
Air patterns



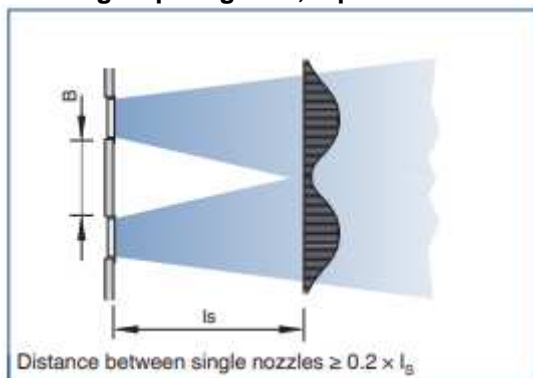
Air pattern, isothermal air



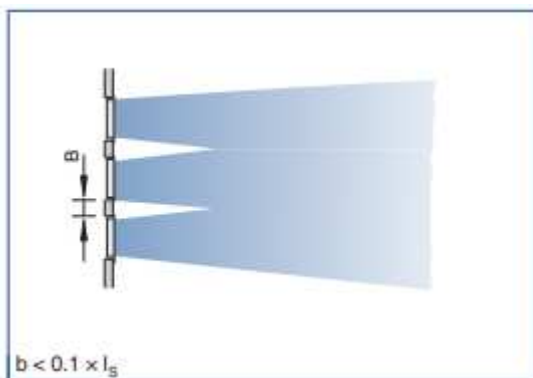
Air pattern in cooling mode, with vertical discharge angle adjustment



Air pattern without ceiling effect, group of grilles, top view



Air pattern, group of grilles, top view



- L [mm] : Nominal length of the ventilation grille
- H [mm] : Nominal height of the ventilation grille
- LWA [dB(A)] : Sound power level of the air-regenerated noise
- V [m³/h] and [l/s] : Volume flow rate
- Δp_t [Pa] : Total differential pressure
- IS [m] : Distance from single grille or horizontal run section (throw distance)


TECHNICAL DATA

Nominal length	250mm up to 1000mm
Nominal height	165mm
Minimum volume flow rate	138 – 1000 l/s or 500 – 3600 m ³ /h
Maximum volume flow rate, with L _{WA} max. 45 dB(A) without attachments	378 – 1683 l/s or 1360 – 6060 m ³ /h
Supply air to room air temperature difference	-12 to +10 K

DD SELECTION TABLE

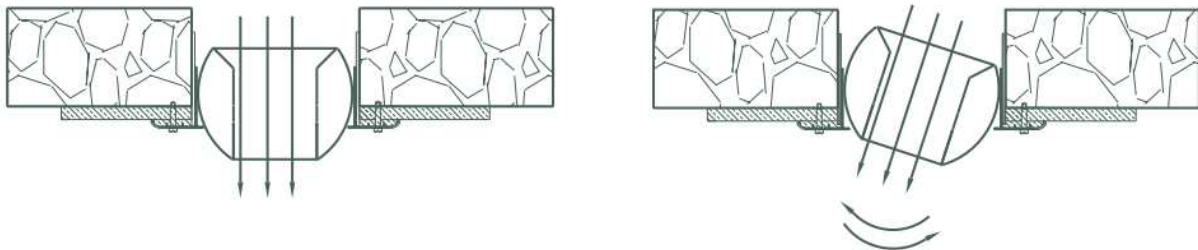
Dimension	Arrival Speed													
	Throw Distance m ² /h	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	2.0	2.5
250x165	500	24.1	10.6	6.4	4.6	3.6	2.9							
	600	32.9	14.8	9.0	6.3	4.9	4.0	3.5	2.7					
	700	41.7	18.9	11.5	8.2	6.3	5.1	4.4	3.7	2.6				
	800	53.9	25.2	15.1	10.6	8.3	6.6	5.9	4.8	3.7	3.0			
	900	>55	30.1	18.5	13.1	9.8	8.2	6.8	5.9	4.5	3.7	2.5		
	1000	>55	38.0	23.3	16.3	12.7	10.0	8.6	7.2	5.7	4.5	3.4	2.2	
	1200	>55	52.1	32.6	23.5	18.1	14.6	12.5	10.4	8.0	6.44	4.87	3.5	2.6
300x165	600	20.7	9.4	5.7	4.1	3.1	2.5							
	700	28.1	12.7	7.8	5.5	4.3	3.5	3.0	2.5					
	800	36.7	16.6	10.1	7.2	5.6	4.5	3.9	3.2	2.4				
	900	43.7	19.8	12.1	8.6	6.6	5.4	4.6	3.8	2.9				
	1000	52.1	23.6	14.4	10.2	7.9	6.4	5.5	4.6	3.5	2.8			
	1200	>55	34.0	20.8	14.8	11.4	9.2	7.9	6.6	5.0	4.0	3.0	2.1	
	1500	>55	50.5	30.8	21.9	17.0	13.7	11.8	9.8	7.4	6.0	4.4	3.1	2.3
475x165	700	18.5	8.4	5.1	3.6	2.8	2.3							
	800	20.6	9.3	5.7	4.0	3.1	2.5							
	900	28.8	13.0	8.0	5.7	4.4	3.5	3.0	2.5					
	1000	34.7	15.7	9.6	6.8	5.3	4.3	3.7	3.0	2.3				
	1200	48.3	21.9	13.3	9.5	7.3	5.9	5.1	4.2	3.2	2.6			
	1500	>55	33.0	20.1	14.3	11.1	9.0	7.7	6.4	4.9	3.9	2.9		
	2000	>55	53.1	32.4	23.0	17.8	14.4	12.4	10.3	7.8	6.3	4.6	3.3	2.6
625x165	900	18.9	8.6	5.2	3.7	2.9								
	1000	23.4	10.6	6.5	4.6	3.6	2.9							
	1200	34.7	15.7	9.6	6.8	5.3	4.3	3.7	3.0	2.3				
	1500	41.6	18.8	11.5	8.2	6.3	5.1	4.4	3.6	2.8				
	2000	>55	36.9	22.5	16.0	12.4	10.0	8.6	7.1	5.4	4.4	3.2	2.3	
	2500	>55	54.2	33.1	23.5	18.2	14.7	12.6	10.5	8.0	6.4	4.7	3.4	2.6
	3000	>55	>55	45.4	32.3	25.0	20.2	17.3	14.4	11.0	8.8	6.5	4.6	3.7
3500	>55	>55	>55	42.9	33.2	26.9	23.1	19.1	14.6	11.7	8.6	6.2	4.9	



Flow - Sound Level and Pressure Relationship

Flow Rate (m ³ /h)	250X165		300X165		475X165		625X165	
	Pressure Drop (Pa)	Sound Level (dB)	Pressure Drop (Pa)	Sound Level (dB)	Pressure Drop (Pa)	Sound Level (dB)	Pressure Drop (Pa)	Sound Level (dB)
500	68	32						
600	87	34	48	<30				
700	106	37	62	30	<40	<30		
800	142	39	83	33	41	<30		
900	150	41	96	36	50	<30	<40	<30
1000	196	43	106	37	63	30	<45	<30
1200	254	47	150	40	94	34	50	<30
1500	>300	>55	220	44	126	37	92	33
2000			>300	>50	195	43	108	37
2500					254	47	171	42
3000							220	44
3500							254	47

INSTALLATION:





ORDER CODES

DD	00	RAL9010	SM	N 250x165mm	
					N: Neck Size F: Frame Size
					00: No Mounting SM: Screw Mounting
					00: No coating EX: Eloxal Coating
000: Without Damper OFD: Opposite Flap Damper					RAL----: Powder Coating