



**OND**  
Drum Diffuser



# Venues Breathe with DOGU HVAC Systems!

DOGU HVAC founded in 1999, and ever since has been manufacturing Energy-and Cost-Efficient products as Air Handling Units, Air Distribution & Management & Movement Systems [HVAC Components] and constantly enhancing to provide an integrated solution for well-being. DOGU HVAC's core business products which are subsumed under four major groups as Air Handling Units, Heat/Energy Recovery Units, Air Distribution & Management Products and Kitchen Ventilation Equipment are all produced under the compliance with EU standarts. Particularly AHU and HRU-ER units are entitled under the "FOUR SEASONS" brand name for domestic and foreign markets. DOGU HVAC's, headquarter in Izmir/Turkey, operates in a large-sized plant spread over two factories, in total area of 45.000 sqm in which 25.000 sqm indoor space that enables DOGU HVAC manufactures 140 various type of products. Additionally, DOGU HVAC has a powerful sales network with three sales offices located in Istanbul, Ankara and Antalya in Turkey as well as authorized dealers in many other countries for sales and after sales operations. DOGU HVAC has been exporting to more than 50 countries.

Thanks to our "Customer Satisfaction", "Zero-Defect Policy" motto and reinforced by complete certified products, more than 250 employees. DOGU HVAC R&D center developed exclusive products, such as Double Skin Make-Up Kitchen Hood, Recirculated Laminar Airflow Unit, Single Piece Square Ceiling Diffuser and Ecology Units, for the first time have brought to the sector. DOGU HVAC R&D has the ability to make customized production which can meet the requirement of the customers by means of special software such as "ANSYS FLUENT". DOGU HVAC guaranteed its quality of management by having advantages of ISO 9001, ISO 14001, ISO 18001 certifications. Air Handling Units have EUROVENT, TUV Hygiene [in accordance with DIN1946-4, VDI 6022-1, DIN EN 13053 standarts], CE, TSEK, GOST-R certifications; Fire Dampers have EN 1366-2 and EN 13501-3 CE certifications; Smoke Control Dampers have EN 1366-10 and 12101-8 CE certifications; Kitchen Ventilation Products have TSE, CE and GOST-R quality certifications.



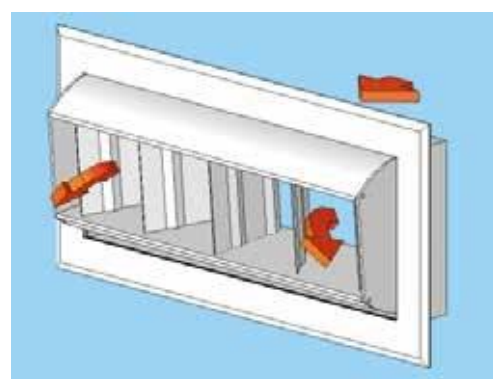
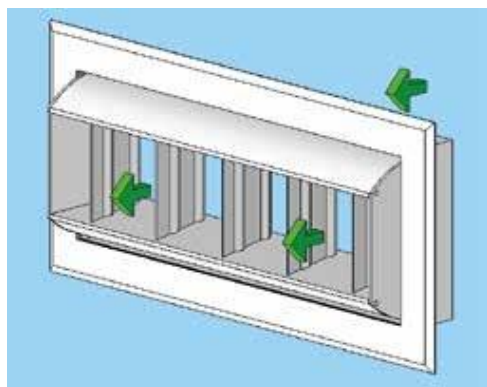
## OND - DRUM DIFFUSER



- ☞ It is used for long-throw applications.
- ☞ With its adjustable blades and rotatable body, it can direct conditioned supply air to hard-to-reach areas within the space.

## OPERATING

By rotating  $\pm 30^\circ$  in the horizontal plane, the OND Drum Diffuser can be adjusted to suit summer and winter operating conditions. In addition, with its adjustable blades, the air jet can be directed parallel to the horizontal axis.



## MATERIAL AND SURFACE FINISH

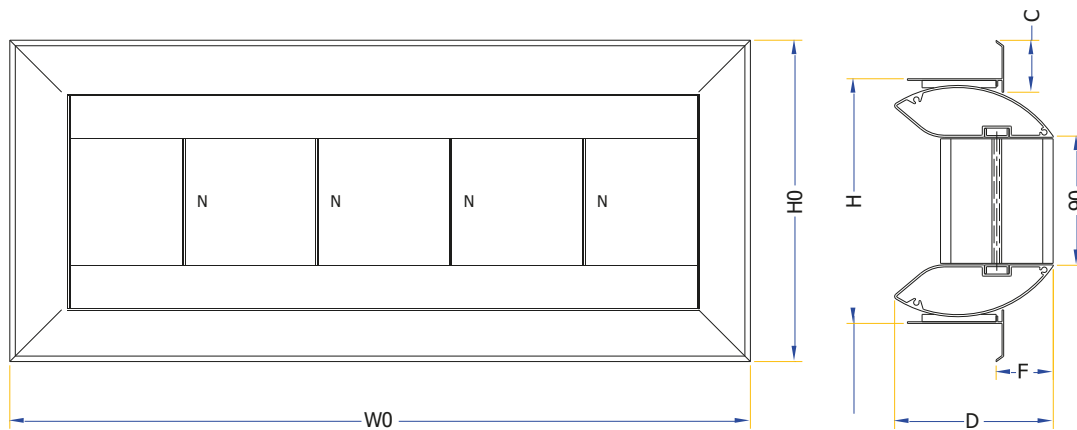
The casing, body, and blades of the OND Drum Diffuser are manufactured from specially extruded aluminum profiles. A felt gasket is installed between the casing and the body to reduce friction and prevent air leakage. As standard, the product is finished in RAL9010 color with electrostatic powder coating. Upon customer request, it can also be manufactured with a matte aluminum anodized finish for a metallic appearance or supplied unpainted (mill finish) with surface cleaning completed.

## OPTIONAL

### Air Control Damper

It is used to adjust the air flow rate at the diffuser outlet according to application requirements. The position of the damper blades is adjusted with the "Special Damper Adjustment Key" supplied with the product. The damper will be painted in the product color and mounted on the diffuser.

## DIMENSIONS



Dimensions	W	W <sub>0</sub>	H	H <sub>0</sub>	D	F	C	N
<b>250x1 65</b>	250	332	165	217	107	40	35	2
<b>300x1 65</b>	300	370	165	217	107	40	35	3
<b>475x1 65</b>	475	545	165	217	107	40	35	5
<b>625x1 65</b>	625	695	165	217	107	40	35	7

## DIMENSIONS

## Airflow – Velocity and Throw Distance Relationship H=150

Specifications	Arrival Velocity	0,1	0,2	0,3	0,4	0,5	0,6	0,7	0,8	1	1,2	1,5	2	2,5
	Throw Distance													
	m <sup>3</sup> /h													
250x1 65	500	24,1	10,6	6,4	4,6	3,6	2,9							
	600	32,9	14,8	9	6,3	4,9	4	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			
	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	23,3	16,3	12,7	10	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	6,44	4,87	3,5	2,6
	1500	>55	>55	47	34	26,6	21,7	18	15,1	11,7	9,4	7	5	3,9
300X1 65	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	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	20,8	14,8	11,4	9,2	7,9	6,6	5	4	3	2,1	
	1500	>55	50,5	30,8	21,9	17	13,7	11,8	9,8	7,4	6	4,4	3,1	2,3
	2000	>55	>55	51,2	36,4	28,2	22,8	19,6	16,2	12,3	9,9	7,3	5,2	4,3
475x1 65	700	18,5	8,4	5,1	3,6	2,8	2,3							
	800	20,6	9,3	5,7	4	3,1	2,5							
	900	28,8	13	8	5,7	4,4	3,5	3	2,5					
	1000	34,7	15,7	9,6	6,8	5,3	4,3	3,7	3	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	20,1	14,3	11,1	9	7,7	6,4	4,9	3,9	2,9		
	2000	>55	53,1	32,4	23	17,8	14,4	12,4	10,3	7,8	6,3	4,6	3,3	2,6
	2500	>55	>55	49,7	35,3	27,3	22,1	19	15,7	12	9,7	7,1	5,1	4,2
625x1 65	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	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	12,4	10	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	6,4	4,7	3,4	2,6
	3000	>55	>55	45,4	32,3	25	20,2	17,3	14,4	11	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

**DIMENSIONS**

**Airflow – Sound Level and Pressure Relationship**

Airflow m <sup>3</sup> /h	250x1 65		300x1 65		475x1 65		625x1 65	
	Pressure Drop (Pa)	Sound Level (dB)	Pressure Drop (Pa)	Sound Level (dB)	Pressure Drop (Pa)	Sound Level (dB)	Pressure Drop (Pa)	Sound Level (dB)
<b>500</b>	68	32						
<b>600</b>	87	34	48	>30				
<b>700</b>	106	37	62	30	<40	<30		
<b>800</b>	142	39	83	33	41	<30		
<b>900</b>	150	41	96	36	50	<30	<40	<30
<b>1000</b>	196	43	106	37	63	30	<45	<30
<b>1200</b>	254	47	150	40	94	34	50	<30
<b>1500</b>	>300	>55	220	44	126	37	92	33
<b>2000</b>			>300	>50	195	43	108	37
<b>2500</b>				254	254	47	171	42
<b>3000</b>							220	44
<b>3500</b>							254	47

**TECHNICAL SPECIFICATIONS**

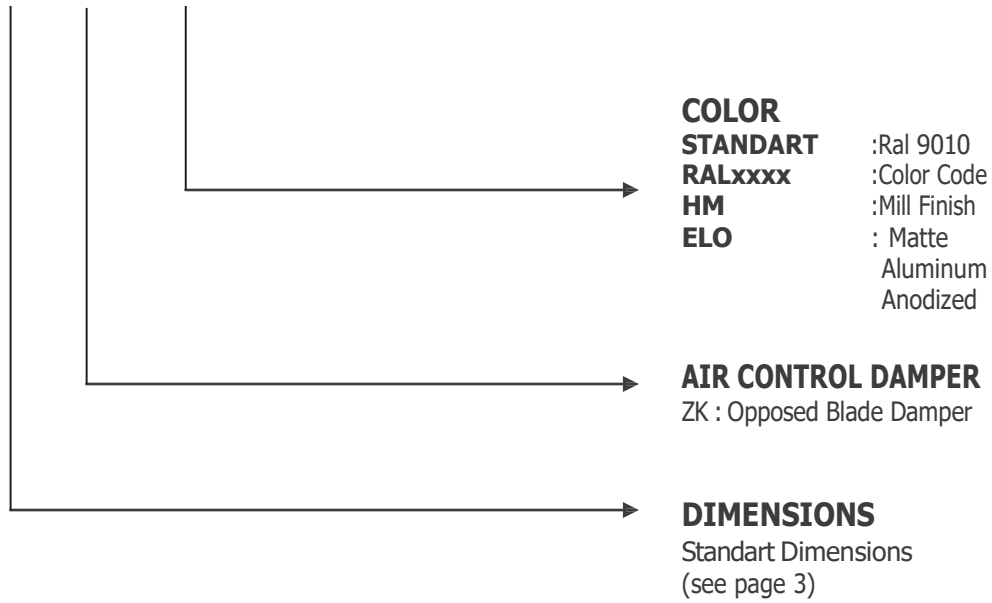
The OND Drum Diffuser body can rotate ±30° on the horizontal axis. In this way, the discharge air throw characteristic can be adjusted for summer and winter conditions. The blades can be easily adjusted manually. Thus, conditioned supply air can be directed to hard-to-reach areas within the space. The casing, body, and blades shall be manufactured from specially extruded aluminum profiles. A felt gasket shall be provided between the casing and body parts to reduce friction and prevent air leakage. As standard, the product color shall be RAL9010 and the mounting type shall be screw-fixed. Unless otherwise specified in the order code, OND shall be manufactured as standard.

Upon customer request, the product may be painted in other RAL codes, or supplied with a Matte Aluminum Anodized finish or in mill finish when a metallic appearance is desired. If airflow control is requested, the Opposed Blade Air Control Damper shall be painted in the product color and supplied with a special damper adjustment key.

## ORDER CODE

## Telescopic Diffuser

**ONT** 250 x 165 / ZK / RAL9010 → **Example Coding**



If no information other than the nominal dimensions is specified in the order code, the product shall be manufactured as standard.





We make the difference with  
180 different types of products.



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