

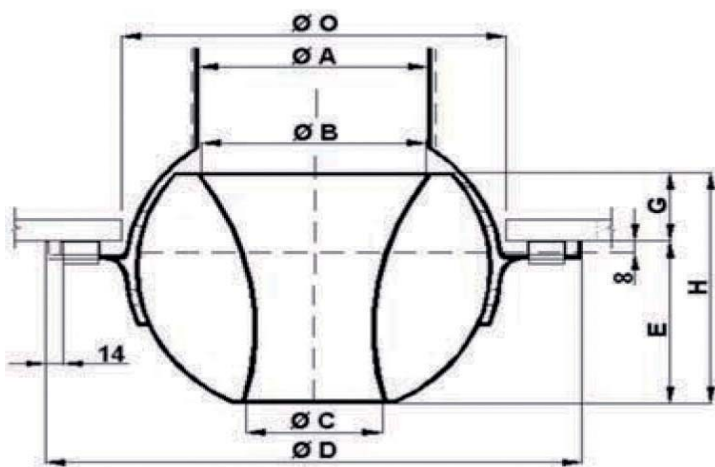


## DLG

Nozzle diffuser for the treatment of large volumes of air.  
Nozzle orientable up to 45° in order to give the correct propagation direction on the air injected.

### TECHNICAL SPECIFICATION AND USAGE LIMIT

NOMINAL DIAMETER	APPLICATIONS	MATERIAL	SURFACE FINISH	COLOR	FASTENING
70, 100, 130, 160mm corresponding to the rear sleeve diameter	This diffuser is very efficient in both cooling and heating paying attention to its orientation in relation to the temperature of the air injected. It is suitable for air treatment in large rooms or with particularly high ceilings. Throws with ranges of more than 20 meters can be achieved. Frequently used for concert halls, museums, theatres, shopping centres, airports, trade fair pavilions, courthouses, etc.	Aluminum	Epoxy powder coating resistant to impact and abrasion	White RAL 9010	by means of side screws



### GREEN BUILDING

Thanks also to the support of GreenMap, products manufactured by Tecnica srl contribute to obtain the credits of the major international rating systems for sustainable buildings:



**LEED**

Contributes to credits:  
IP, EA, MR



**WELL**

Contributes to credits:  
MATERIALS, COMMUNITY

**BREEAM®**

**BREEAM**










Contributes to credits:  
MAN, WST

For further details about specific contributions to the credits indicated, contact Tecnica Srl

### TECHNICAL DATA

Model	Ø A [mm]	Ø B [mm]	Ø C [mm]	Ø D [mm]	Ø O [mm]	E [mm]	G [mm]	H [mm]
DLG 70	120	125	70	235	185	73	40	114
DLG 100	175	170	100	300	235	92	58	150
DLG 130	224	210	130	350	285	115	70	185
DLG 160	250	250	160	405	335	142	74	216

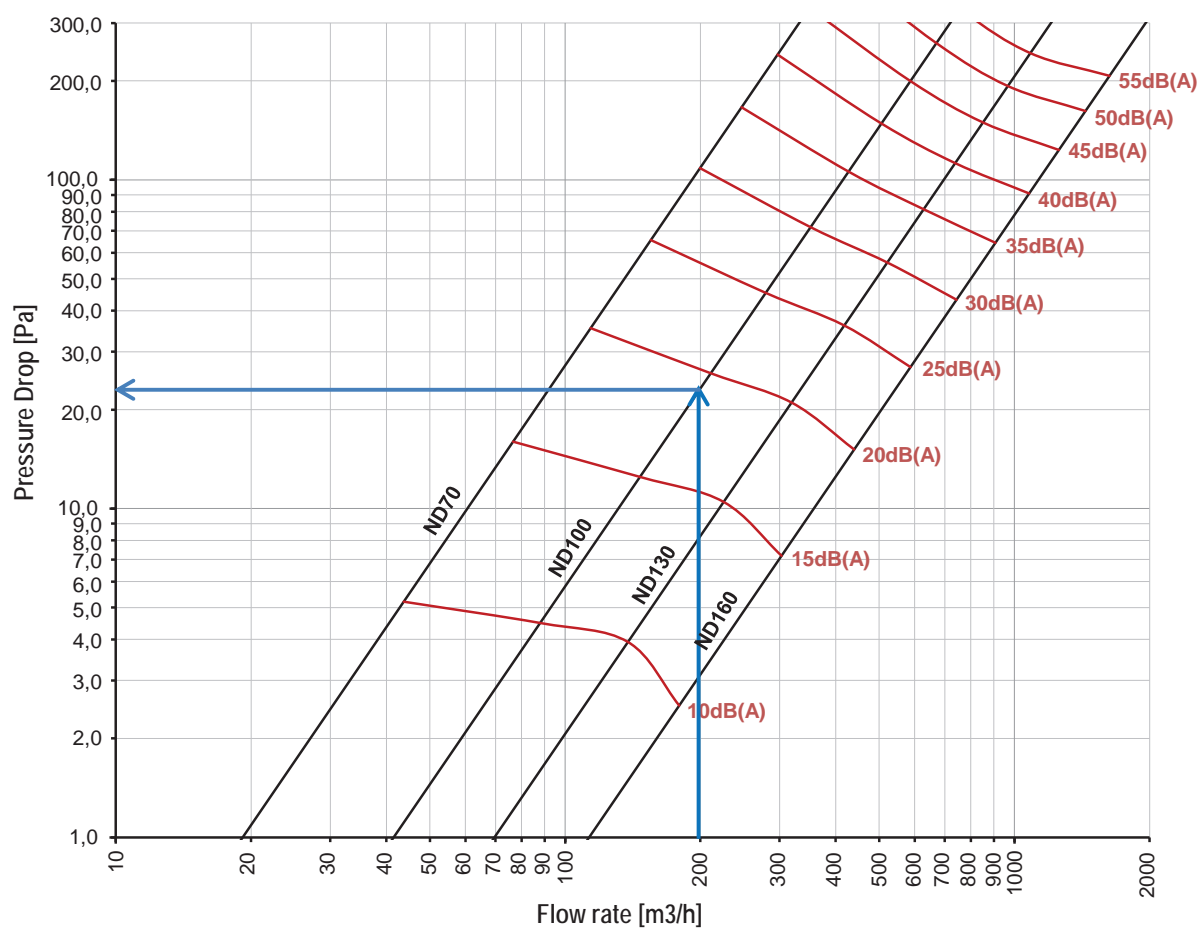
## APPLICATIONS

								
Residential	Easy Pack	Calculation Method	REACH Certificate	RoHS Certificate	Industry	Building	Air Conditioning	Interior design

\*on request

### Selection charts

Flow Rate / Pressure Drop / Noise Level



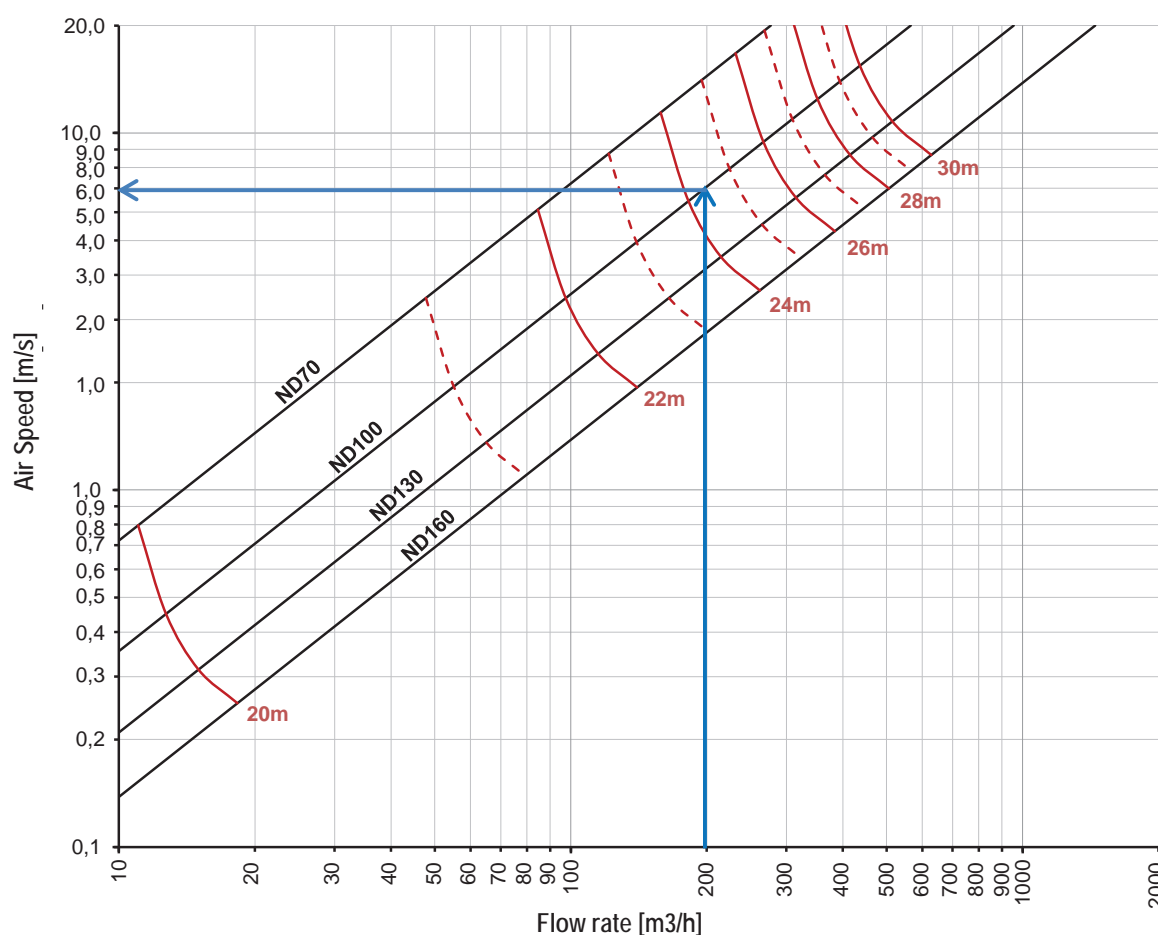
### Diagram 1

The graph shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation.

#### CALCULATION (input data)

Flow Rate	200mc
Max. Noise Level	20dB(A)
Max. Pressure Drop	30Pa

Flow Rate / Air Speed / Throw (Vt.: 0,25m/s)



#### SELECTION

Model	DLG100
Flow Rate	200 m <sup>3</sup> /h
Pressure Drop	+/- 22Pa
Noise Level	+/-20dB(A)
Inlet Air Speed	6,0m/s
Isothermal Throw	+/- 24m

### Diagram 2

The diagram shows the air speed exiting the diffuser based on the flow rate with relative indication of the horizontal launch obtainable with terminal speed (Vt) of 0,25m/s. The horizontal launch data are to be understood in isothermal conditions. For  $\Delta T < 10^{\circ}\text{C}$  multiply the horizontal throw by 0,85.

**Note:** The pressure drop data shown in the graph refer to the diffuser without accessories with 0° inclination on the horizontal axis.

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>70</b> Ak: 0,0038m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	28	55	83	111	139	166	194	222	249	277
	Pressure Drop	Pa	2,1	8,4	18,8	33,5	52,3	75,3	102,5	133,9	169,4	209,2
	Throw Vt 0,25	mt	20,5	21,2	22,0	22,7	23,5	24,2	25,0	25,7	26,5	27,2
	Noise Level	dB(A)	7	12	16	20	23	26	29	32	35	38
<b>100</b> Ak: 0,0078m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	57	113	170	226	283	339	396	452	509	565
	Pressure Drop	Pa	1,9	7,4	16,7	29,7	46,4	66,7	90,8	118,7	150,2	185,4
	Throw Vt 0,25	mt	21,0	22,4	23,7	25,0	26,4	27,7	29,0	30,4	31,7	33,0
	Noise Level	dB(A)	7	12	17	21	25	29	33	37	40	44
<b>130</b> Ak: 0,0133m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	96	191	287	382	478	573	669	765	860	956
	Pressure Drop	Pa	1,9	7,5	17,0	30,1	47,1	67,8	92,3	120,6	152,6	188,4
	Throw Vt 0,25	mt	21,6	23,5	25,4	27,3	29,3	31,2	33,1	35,0	36,9	38,8
	Noise Level	dB(A)	7	13	18	23	28	32	37	41	45	50
<b>160</b> Ak: 0,0201m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	145	290	434	579	724	869	1013	1158	1303	1448
	Pressure Drop	Pa	1,6	6,6	14,7	26,2	40,9	59,0	80,3	104,8	132,7	163,8
	Throw Vt 0,25	mt	22,1	24,4	26,8	29,2	31,6	33,9	36,3	38,7	41,1	43,4
	Noise Level	dB(A)	8	14	20	25	29	34	38	42	46	50

i Note: the data indicated refer to operation in isothermal conditions