Special Diffusers

Jet diffusers

DGH series - Aluminium

Advantages

- Ideal for destratifying air layers in high ceilinged premises.
- Adjustable air-jet throw.

APPLICATION

- Air supply for premises with high ceilings of the airport type.
- Long-range diffusion to provide an airflow to the occupied zone, ideal for avoiding stratification of air in heating systems.
- Adjustable diffusion direction – angles of up to 30°.
- Wall or ceiling mounted.

DESCRIPTION

- White epoxy painted aluminium finish, RAL 9010 tint.
- DGH and DGHB: fixing by visible screws against the wall, rectangular frame.
- DGH-C and DGHB-C: fixing directly on to the circular air supply duct.

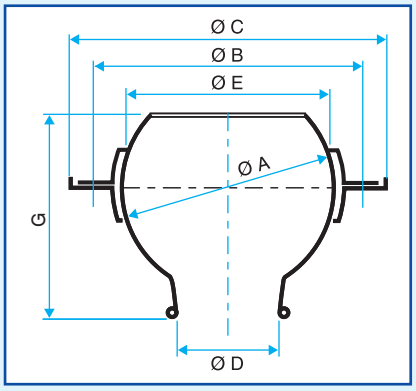
ACCESSORIES

- DGH-C: supplied with circular connector sleeve.
- DGHB: supplied with an integrated damper which can be adjusted.
- DGHB-C: supplied with circular connector sleeve and integrated damper.

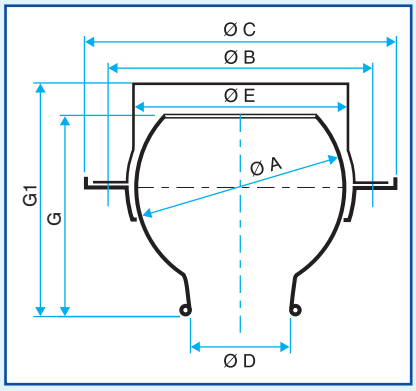
ADDITIONAL RANGE

- Paint finish in accordance with the RAL colour chart (please, consult us).

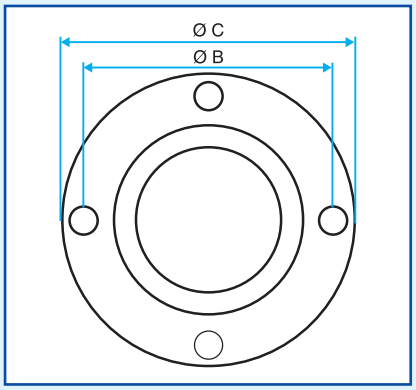
DIMENSIONS



DGH jet diffuser



DGH-C ejector



Comfort airflow levels for Lw < NR 40 and dimensions									
Model (mm)	Ø Réservation (mm)	Ø A (mm)	Ø B (mm)	Ø C (mm)	Ø D (mm)	Ø E (mm)	G (mm)	G1 (mm)	Airflow (m^3/h)
100	105	95	120	140	45	98	90	98	125
150	165	155	180	200	70	148	140	150	250
200	215	205	240	260	95	198	180	188	450
315	325	315	350	370	160	313	265	305	1000
400	425	415	455	480	225	398	355	395	2000

• See selection table on page 284.

RANGE R10

Dimensions	DGH Code	DGHB (with damper) Code	DGHB-C (damper + sleeve) Code	DGH-C (with sleeve) Code
Ø100	11051681	11051225	11051230	11051220
Ø150	11051682	11051226	11051231	11051221
Ø200	11051683	11051227	11051232	11051222
Ø315	11051684	11051228	11051233	11051223
Ø400	11051685	11051229	11051234	11051224

Special Diffusers

Jet diffusers

DGH2 series - Aluminium

Advantages

- Ideal for destratifying air layers in high ceilinged premises.
- Adjustable air-jet throw.
- Aesthetic design.

APPLICATION

- Air supply for premises with high ceilings of the airport type.
- Long-range diffusion to provide an airflow to the occupied zone, ideal for avoiding stratification of air in heating systems.
- Adjustable diffusion direction – angles of up to 30°.
- Wall or ceiling mounted.

DESCRIPTION

- White epoxy painted aluminium finish, RAL 9010 tint.
- DGH2: fixing by visible screws against the wall, rectangular frame.
- DGH2-C: fixing directly on to the circular air supply duct.

NOTE: no damper available for this range.

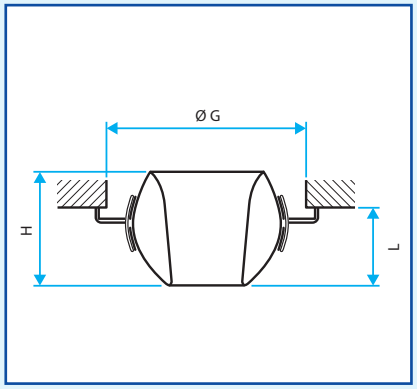
ACCESSORIES

- DGH2-C supplied with circular connector sleeve.

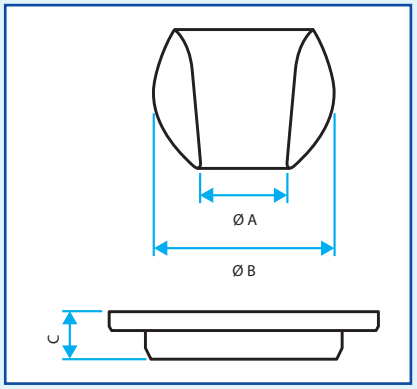
ADDITIONAL RANGE

- Paint finish in accordance with the RAL colour chart (please, consult us).

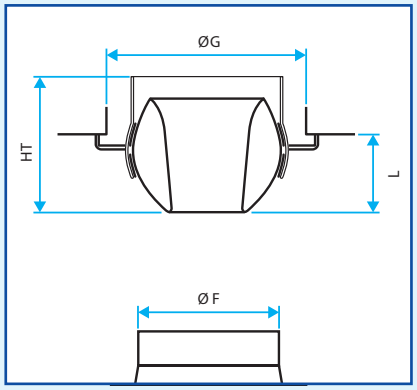
DIMENSIONS



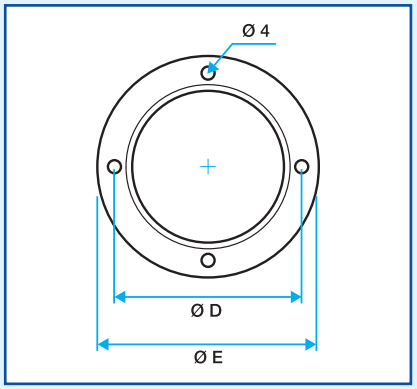
DGH2 jet diffuser



DGH2 jet diffuser



DGH2-C jet diffuser



Connection flange

Comfort airflow levels for Lw < NR 40 and dimensions											
Model (mm)	Ø G (mm)	Ø A (mm)	Ø B (mm)	Ø C (mm)	Ø D (mm)	Ø E (mm)	Ø F (mm)	H (mm)	HT (mm)	L (mm)	Airflow (m^3/h)
100	105	45	95	25	120	140	98	75	85	50	125
150	165	70	155	25	180	200	148	120	130	80	250
200	215	95	205	30	240	260	198	150	155	100	450
315	325	160	315	35	350	370	313	215	230	145	1000

• See selection table on page 284.

RANGE R10

Dimensions	DGH2 Code	DGH2-C (with sleeve) Code
Ø 100	11051281	11051271
Ø 160	11051282	11051272
Ø 200	11051283	11051273
Ø 315	11051284	11051274

Selection Tables

DGH - DGH2 Series

Air supply without ceiling effect

Ak (m^2)	Ø N (mm)	qv (m^3/hr) 25		50		75		100		125		150		200		300		400	
0.002	100	–	3.2	–	6.1	24	8.9	33	11.7	40	14.5	45	17.3					Lw	Lt
		4.1	11	8.3	43	12.4	96	16.5	170	20.6	266	24.8	383					Vk	Pa
0.004	150	–	1.9	–	3.5	–	5.0	20	6.5	17	8.0	22	9.5	31	12.5	43	18.6		
		1.8	2	3.6	8	5.4	18	7.2	33	9.0	51	10.8	73	14.4	130	21.6	293		
0.007	200			–	2.3	–	3.3	–	4.2	20	5.1	20	6.1	–	8.0	27	11.8	36	15.5
				1.9	2	2.9	5	3.8	9	4.8	14	5.8	21	7.7	37	11.5	83	15.4	147
0.020	300											–	3.1	–	3.9	–	5.7	< 20	7.4
												3.1	3	2.8	5	4.1	11	5.5	19
0.039	400	Lw	Lt													–	3.6	< 20	4.6
		Vk	Pa													2.1	3	2.8	5

- With ceiling effect : throw multiplication (Lt) by 1.4.

Ak (m^2)	Ø N (mm)	qv (m^3/hr) 500		600		700		800		1000		1500		2000		2500		3000	
0.007	200	43	19.3															Lw	Lt
		19.2	230															Vk	Pa
0.020	300	–	9.2	21	11	26	12.7	30	14.5	37	18								
		6.9	30	8.3	43	9.7	58	11.1	76	13.8	119								
0.039	400	–	5.7	–	6.7	–	7.8	–	8.8	–	10.9	31	16.2	40	21.5	48	27.5	52	34.1
		3.5	8	4.2	11	4.9	15	5.6	20	7.0	31	10.5	69	14	122	17.8	200	21.4	265

The values Lw (NR) do not take the attenuation in the premises into account. Speed = 0.5 m/s.

Corrections for other terminal velocities

Vt (m/s)	0.25	0.37	0.5	0.63	0.75
Lt	x 2	x 1.33	x 1	x 0.8	x 0.67

Corrections to the vertical throw depending on the air supply temperature

ΔT (° C)	-20	-15	-10	-5	0	5	10	15	20
Lt	x 2.5	x 2	x 1.7	x 1.3	x 1	x 0.7	x 0.5	x 0.4	x 0.33

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