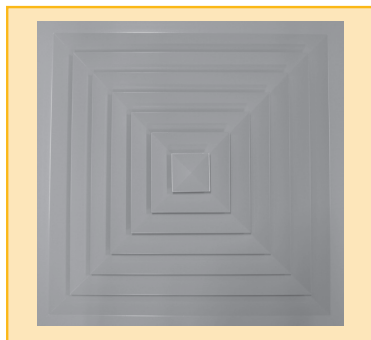


MULTICONE DIFFUSER

TYPE: MCS

Installation dimensions



Application

The diffuser type MCS is used for the supply and exhaust of cooled or heated air in facilities such as offices, shopping centres, conference rooms, ...

The diffuser can be mounted in the ceiling and has a fixed 4-way horizontal air pattern.

Technical information

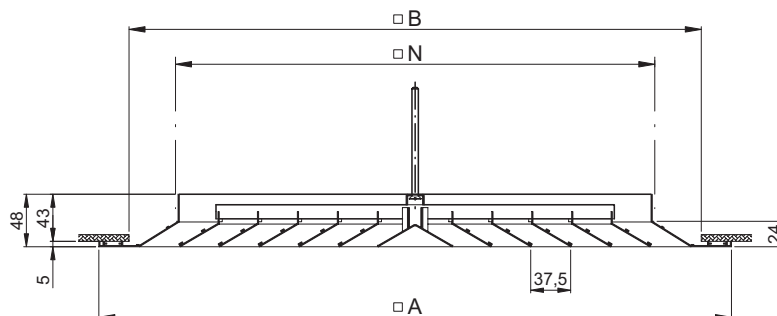
Characteristics:

- Square diffuser with fixed 4-way horizontal air pattern
- Available with multiples of 75mm from 150 up to 450 mm.
- Removable core, standard provided with a safety cord
- Fixation with blade damper possible
- Mounting in a false ceiling plate is possible
- Plenum: DP100

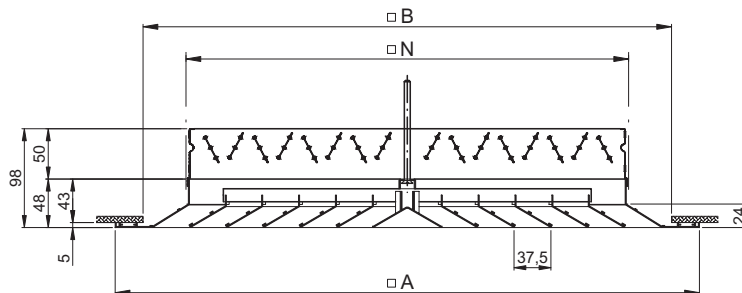
Construction:

- Extruded aluminium, painted white (RAL 9010)

MCS - GR002



MCSV - GR002



Size	□ A	□ B	□ N	DP100S
150	294	225	150	Ø 125
225	369	300	225	Ø 200
300	444	375	300	Ø 200
375	519	450	375	Ø 315
450	594	525	450	Ø 315
470	614	545	470	Ø 315

All dimensions in mm
 B: min. ceiling opening

MULTICONE DIFFUSER

TYPE: MCS

Specifications description

Example:

Square aluminium diffuser with central screw fixing (invisible screw) and removable core.
Fixed 4 way blading.
The diffuser is painted white (RAL 9010) and complete with damper.

Type: MCSV-GR002

size (N x N): ... x ... mm

Accessories

- **DT008:**
Opposed blade damper for MCS
Galvanised steel sheet, painted black.
Operated by a key through the diffuser core.
- **GR002:**
Steel mounting support for MCS

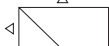
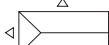
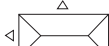
Fixing

- **MCS:** the diffuser is mounted with an invisible central screw (delivered), with mounting support GR002 (to order separately) and can also be used for mounting on T-bars.
Central screw fixing at the back of the central core.
- **MCS-SP:** same as EG400 mounting, but also possible with 4 visible screws in the frame

Options

- **MCS-GR002:** removable core with invisible central screw fixing, without screws in the frame
- **MCS-SF:** removable core with invisible central screw fixing, with screws in the frame
- **MCSV-GR002:** EG400/EH400 with opposed blade damper
- **MCS-P:** EG400 mounted on a false ceiling plate, dimensions to be specified

MULTI-CONE DIFFUSER CORE OPTIONS

STYLE 1		1RS		1RL	
STYLE 2		2RS		2RL	
STYLE 2C		2CRL		2CRR	
STYLE 3		3RL		3RS	
STYLE 4		4R			

NOTE: Plan view ie: as viewed through diffuser neck

MULTICONE DIFFUSERS

SELECTION DATA TYPE: MCS

SUPPLY

EXTRACT

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
4	150	150	0.018	2.00	0.6	2.4	15	2.1	2.5
4	150	150	0.027	3.00	0.9	5.4	20	3.2	5.7
4	150	150	0.035	3.89	1.1	9.1	25	4.1	9.5
4	150	150	0.042	4.67	1.3	13.1	30	4.9	13.7
4	150	150	0.05	5.56	1.6	18.5	35	5.8	19.4
4	150	150	0.06	6.67	1.9	26.7	40	7.0	28.0
4	150	150	0.08	8.89	2.5	47.4	45	9.3	49.8

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
3	150	150	0.018	2.01	1.0	2.4	15	2.1	2.6
3	150	150	0.027	3.02	1.6	5.5	20	3.2	5.8
3	150	150	0.035	3.92	2.0	9.2	25	4.1	9.7
3	150	150	0.042	4.70	2.4	13.3	30	4.9	13.9
3	150	150	0.05	5.60	2.9	18.8	35	5.9	19.7
3	150	150	0.06	6.71	3.5	27.1	40	7.1	28.4
3	150	150	0.079	8.84	4.6	46.9	45	9.3	49.2

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
2	150	150	0.016	1.98	1.1	2.3	15	2.1	2.5
2	150	150	0.024	2.96	1.6	5.3	20	3.1	5.5
2	150	150	0.032	3.95	2.1	9.4	25	4.1	9.8
2	150	150	0.038	4.69	2.5	13.2	30	4.9	13.9
2	150	150	0.045	5.56	3.0	18.5	35	5.8	19.4
2	150	150	0.054	6.67	3.6	26.7	40	7.0	28.0
2	150	150	0.072	8.89	4.8	47.4	45	9.3	49.8

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
1	150	150	0.016	1.98	1.1	2.3	15	2.1	2.5
1	150	150	0.024	2.96	1.6	5.3	20	3.1	5.5
1	150	150	0.032	3.95	2.1	9.4	25	4.1	9.8
1	150	150	0.038	4.69	2.5	13.2	30	4.9	13.9
1	150	150	0.045	5.56	3.0	18.5	35	5.8	19.4
1	150	150	0.054	6.67	3.6	26.7	40	7.0	28.0
1	150	150	0.072	8.89	4.8	47.4	45	9.3	49.8

MULTICONE DIFFUSERS

SELECTION DATA TYPE: MCS

SUPPLY						EXTRACT			
DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
4	225	225	0.042	2.07	0.9	2.6	15	2.2	2.7
4	225	225	0.052	2.57	1.1	4.0	20	2.7	4.2
4	225	225	0.068	3.36	1.4	6.8	25	3.5	7.1
4	225	225	0.083	4.10	1.7	10.1	30	4.3	10.6
4	225	225	0.1	4.94	2.1	14.6	35	5.2	15.4
4	225	225	0.124	6.12	2.6	22.5	40	6.4	23.6
4	225	225	0.16	7.90	3.4	37.5	45	8.3	39.3

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VELOCITY M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
3	225	225	0.042	2.09	1.6	2.6	15	2.2	2.7
3	225	225	0.052	2.59	2.0	4.0	20	2.7	4.2
3	225	225	0.068	3.38	2.6	6.9	25	3.6	7.2
3	225	225	0.083	4.13	3.2	10.2	30	4.3	10.7
3	225	225	0.1	4.97	3.9	14.8	35	5.2	15.6
3	225	225	0.124	6.17	4.8	22.8	40	6.5	24.0
3	225	225	0.154	7.66	6.0	35.2	45	8.0	37.0

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VELOCITY M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
2	225	225	0.037	2.03	1.6	2.5	15	2.1	2.6
2	225	225	0.048	2.63	2.1	4.2	20	2.8	4.4
2	225	225	0.062	3.40	2.8	6.9	25	3.6	7.3
2	225	225	0.075	4.12	3.3	10.2	30	4.3	10.7
2	225	225	0.09	4.94	4.0	14.6	35	5.2	15.4
2	225	225	0.112	6.15	5.0	22.7	40	6.5	23.8
2	225	225	0.135	7.41	6.0	32.9	45	7.8	34.6

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VELOCITY M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
1	225	225	0.037	2.09	1.7	2.6	15	2.2	2.7
1	225	225	0.048	2.71	2.2	4.4	20	2.8	4.6
1	225	225	0.062	3.50	2.8	7.3	25	3.7	7.7
1	225	225	0.075	4.23	3.4	10.7	30	4.4	11.3
1	225	225	0.09	5.08	4.1	15.5	35	5.3	16.3
1	225	225	0.108	6.10	4.9	22.3	40	6.4	23.4
1	225	225	0.135	7.62	6.1	34.8	45	8.0	36.6

MULTICONE DIFFUSERS

SELECTION DATA TYPE: MCS

SUPPLY
EXTRACT

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
4	300	300	0.07	1.94	1.1	2.3	15	2.0	2.4
4	300	300	0.084	2.33	1.3	3.3	20	2.5	3.4
4	300	300	0.1	2.78	1.6	4.6	25	2.9	4.9
4	300	300	0.139	3.86	2.2	8.9	30	4.1	9.4
4	300	300	0.167	4.64	2.6	12.9	35	4.9	13.6
4	300	300	0.195	5.42	3.1	17.6	40	5.7	18.5
4	300	300	0.25	6.94	4.0	28.9	45	7.3	30.4

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
3	300	300	0.07	1.96	2.0	2.3	15	2.1	2.4
3	300	300	0.084	2.35	2.4	3.3	20	2.5	3.5
3	300	300	0.1	2.80	2.9	4.7	25	2.9	4.9
3	300	300	0.139	3.89	4.0	9.1	30	4.1	9.5
3	300	300	0.167	4.67	4.9	13.1	35	4.9	13.8
3	300	300	0.195	5.46	5.7	17.9	40	5.7	18.8
3	300	300	0.245	6.85	7.1	28.2	45	7.2	29.6

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
2	300	300	0.07	2.16	2.3	2.8	15	2.3	2.9
2	300	300	0.084	2.59	2.8	4.0	20	2.7	4.2
2	300	300	0.1	3.09	3.3	5.7	25	3.2	6.0
2	300	300	0.139	4.29	4.6	11.0	30	4.5	11.6
2	300	300	0.167	5.15	5.6	15.9	35	5.4	16.7
2	300	300	0.18	5.65	6.0	18.5	40	5.8	19.4
2	300	300	0.22	6.79	7.3	27.2	45	7.1	29.0

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
1	300	300	0.07	2.22	2.4	3.0	15	2.3	3.1
1	300	300	0.084	2.67	2.8	4.3	20	2.8	4.5
1	300	300	0.1	3.17	3.4	6.0	25	3.3	6.3
1	300	300	0.139	4.41	4.7	11.7	30	4.6	12.3
1	300	300	0.167	5.30	5.6	16.9	35	5.6	17.7
1	300	300	0.18	5.71	6.1	19.6	40	6.0	20.6
1	300	300	0.215	6.83	7.3	28.0	45	7.2	29.3

MULTICONE DIFFUSERS

SELECTION DATA TYPE: MCS

SUPPLY

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
4	375	375	0.1	1.78	1.3	1.9	15	1.9	2.0
4	375	375	0.12	2.13	1.5	2.7	20	2.2	2.9
4	375	375	0.195	3.47	2.5	7.2	25	3.6	7.6
4	375	375	0.235	4.18	3.0	10.5	30	4.4	11.0
4	375	375	0.235	4.18	3.0	10.5	35	4.4	11.0
4	375	375	0.29	5.18	3.7	15.9	40	5.4	16.7
4	375	375	0.36	6.40	4.6	24.6	45	6.7	25.8

EXTRACT

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
3	375	375	0.1	1.79	2.3	1.9	15	1.9	2.0
3	375	375	0.12	2.15	2.8	2.8	20	2.3	2.9
3	375	375	0.195	3.49	4.5	7.3	25	3.7	7.7
3	375	375	0.235	4.21	5.5	10.6	30	4.4	11.2
3	375	375	0.235	4.21	5.5	10.6	35	4.4	11.2
3	375	375	0.29	5.19	6.7	16.2	40	5.5	17.0
3	375	375	0.355	6.36	8.3	24.2	45	6.7	25.5

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
2	375	375	0.1	1.98	2.7	2.3	15	2.1	2.5
2	375	375	0.12	2.37	3.2	3.4	20	2.5	3.5
2	375	375	0.195	3.85	5.2	8.9	25	4.0	9.3
2	375	375	0.235	4.64	6.3	12.9	30	4.9	13.6
2	375	375	0.235	4.64	6.3	12.9	35	4.9	13.6
2	375	375	0.26	5.14	6.9	15.8	40	5.4	16.6
2	375	375	0.32	6.32	8.5	24.0	45	6.6	25.2

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
1	375	375	0.1	2.03	2.7	2.5	15	2.1	2.6
1	375	375	0.12	2.44	3.2	3.6	20	2.6	3.7
1	375	375	0.195	3.96	5.3	9.4	25	4.2	9.9
1	375	375	0.235	4.77	6.4	13.7	30	5.0	14.4
1	375	375	0.235	4.77	6.4	13.7	35	5.0	14.4
1	375	375	0.25	5.08	6.8	15.5	40	5.3	16.3
1	375	375	0.3	6.10	8.1	22.3	45	6.4	23.4

MULTICONE DIFFUSERS

SELECTION DATA TYPE: MCS

SUPPLY

EXTRACT

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
4	450	450	0.158	1.95	1.7	2.3	15	2.3	2.7
4	450	450	0.17	2.10	1.8	2.6	20	2.5	3.2
4	450	450	0.2	2.47	2.1	3.7	25	3.0	4.4
4	450	450	0.25	3.09	2.6	5.7	30	3.7	6.9
4	450	450	0.342	4.00	3.4	9.6	35	4.8	11.5
4	450	450	0.405	5.00	4.3	15.0	40	6.0	18.0
4	450	450	0.5	6.17	5.3	22.9	45	7.4	27.4

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
3	450	450	0.158	1.96	3.1	2.3	15	2.1	2.4
3	450	450	0.17	2.11	3.3	2.7	20	2.2	2.8
3	450	450	0.2	2.49	3.9	3.7	25	2.6	3.9
3	450	450	0.25	3.11	4.8	5.8	30	3.3	6.1
3	450	450	0.324	4.03	6.3	9.7	35	4.2	10.2
3	450	450	0.405	5.04	7.9	15.2	40	5.3	16.0
3	450	450	0.495	6.16	9.6	22.7	45	6.5	23.9

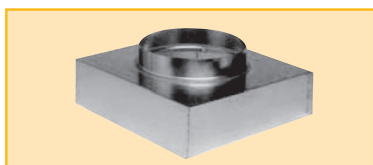
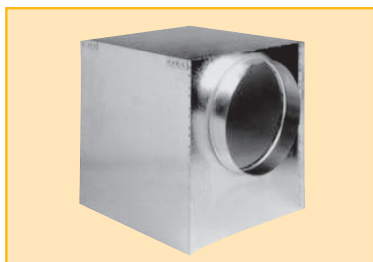
DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
2	450	450	0.14	1.92	3.1	2.2	15	2.0	2.3
2	450	450	0.15	2.06	3.3	2.5	20	2.2	2.7
2	450	450	0.18	2.47	4.0	3.7	25	2.6	3.8
2	450	450	0.22	3.02	4.9	5.5	30	3.2	5.7
2	450	450	0.284	3.90	6.3	9.1	35	4.1	9.6
2	450	450	0.365	5.01	8.1	15.0	40	5.3	15.8
2	450	450	0.45	6.17	10.0	22.9	45	6.5	24.0

DIRECTIONAL BLOW	NOMINAL LENGTH X HEIGHT mm x mm		VOLUME M3/S	VELOCITY M/S	THROW METRES	P.A.	NR	VELOCITY M/S	P.A.
1	450	450	0.14	1.98	3.2	2.3	15	2.1	2.5
1	450	450	0.15	2.12	3.4	2.7	20	2.2	2.8
1	450	450	0.18	2.54	4.1	3.9	25	2.7	4.1
1	450	450	0.22	3.10	5.0	5.8	30	3.3	6.1
1	450	450	0.284	4.01	6.4	9.6	35	4.2	10.1
1	450	450	0.365	5.15	8.2	15.9	40	5.4	16.7
1	450	450	0.45	6.35	10.1	24.2	45	6.7	25.4

MULTICONE DIFFUSER

TYPE: DP100S • DP100T

Installation dimensions



Application

The plenum box DP100 is used for installation with square or rectangular diffusers and grilles. Both fixed mounting and central screw fixing possible. For an even air pattern through the diffuser, the plenum can be equipped with a perforated diffuser plate. Flow control is possible because of a perforated damper in the inlet spigot of the plenum.

The plenum can be delivered with side or top entry, insulated plenum boxes can be supplied if required.

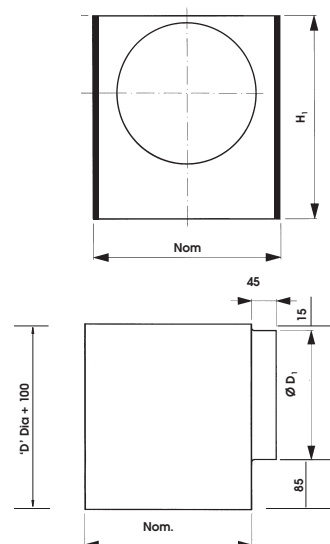
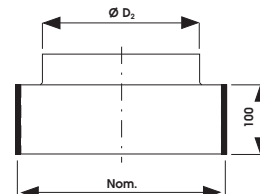
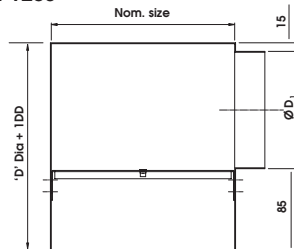
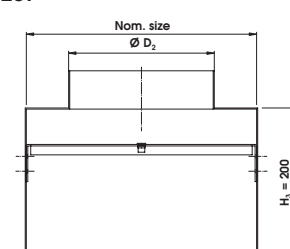
Technical information

Characteristics

- square or rectangular
- fixed mounting on the diffuser or supplied with a mounting support for central screw fixing (only DP100S)
- circular side or top entry
- perforated damper in inlet spigot possible
- internal perforated air diffusion sheet available; only DP100S
- plenum can be internally insulated

Construction

Galvanised steel sheet with inlet spigot.

DP100S**DP100T****DP120S****DP120T**

All dimensions in mm

PLENUM BOX

TYPE: DP100S • DP100T

Specifications description

Example:

Insulated plenum box with side entry, supplied with damper and perforated plate for an optimal air pattern. The plenum is supplied with a mounting support for central screw fixing and can be mounted with mounting straps.

Type: **DP131SG**
 Dim. ... x ... mm

Options

- **DP100S/DP100T:** plenum box for fixed mounting on diffusers or grilles
- **DP101S/DP101T:** DP100S/DP100T with damper in the inlet spigot
- **DP110S:** DP100S with perforated diffuser plate
- **DP111S:** DP100S with damper and perforated plate
- **DP120S:** plenum box with mounting support for central screw fixing
- **DP121S:** DP120S with damper in the inlet spigot
- **DP130S:** DP120S with perforated plate
- **DP131S:** DP120S with damper and perforated plate
- **DP1.SG/DP100TG/DP101TG:** internal insulated plenum box

NOISE CURVE RATING	APPLICATION
NR 25	Concert halls, broadcasting and recording studios, churches
NR 30	Private dwellings, hospitals, theatres, cinemas, conference rooms
NR 35	Libraries, museums, court rooms, schools, hospitals operating theaters and wards, flats, hotels, executive offices
NR 40	Halls, corridors, cloakrooms, restaurants, night clubs, offices, shops
NR 45	Department stores, supermarkets, canteens, general offices
NR 50	Typing pools, offices with business machines
NR 60	Light engineering works
NR 70	Foundries, heavy engineering works