

DiEM

The Art of Ventilation

DPI

**Characteristics**

The DPI ceiling diffuser is designed for draught-free air distribution in comfort ventilation applications with high indoor climate requirements. The specially developed perforated diffusion chamber ensures uniform four-way air distribution and efficient induction of room air. Suitable for both cooling and heating applications, the diffuser maintains high thermal comfort while ensuring effective room air circulation and stable airflow performance.

Material

RAL 9010 perforated steel front plate (standard finish).
RAL 9005 inner chamber with integrated deflectors.
Galvanized steel plenum with perforated diffusion cone.

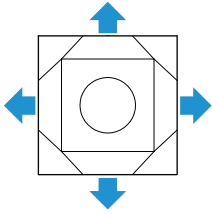
Fixing

By hangers on plenum.

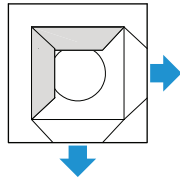
Executions

The diffuser is available in multiple execution variants to accommodate architectural and installation requirements, including square or round face plates, horizontal or vertical spigot connections, and flush fit plenum for visible mounting configurations.

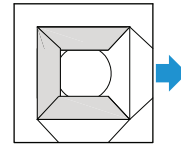
Airflow configurations



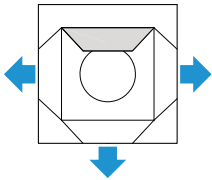
4-way air pattern



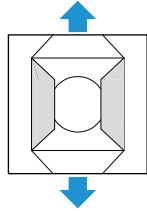
2-way air pattern (corner)



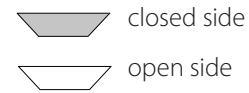
1-way air pattern (corner)



3-way air pattern

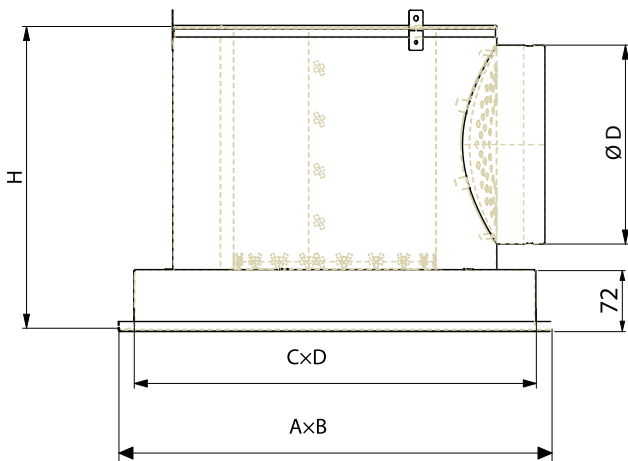


2-way air pattern (opposite side)

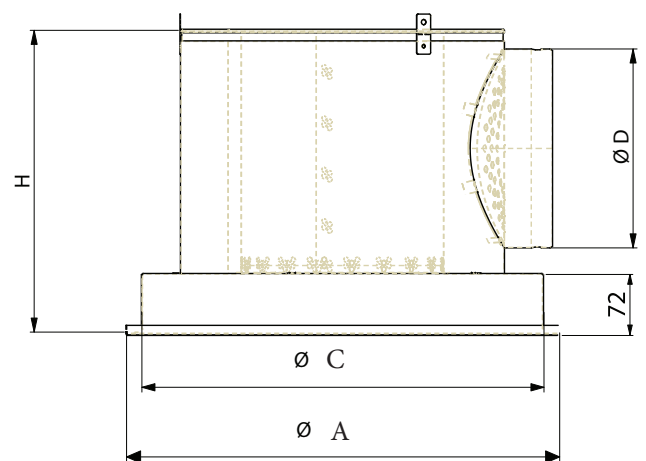


Drawings

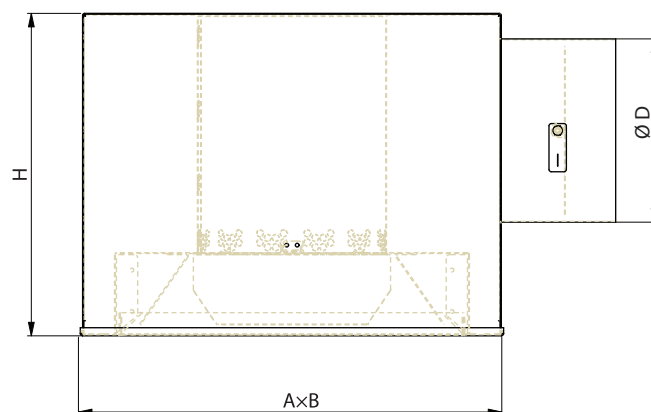
DPI-H-Z



DPI-H-R-Z



DPI-HX-Z



Dimensions and airflow

Square frontplate

DPI-H DPI-V	Front plate AxB [mm]	Plenum Cx D [mm]	H [mm]	Ø D [mm]	V [m ³ /h]
100	250x250	186x186	220	98	80-185
125	300x300	236x236	245	123	110-280
160	365x365	306x306	280	158	230-520
200	445x445	381x381	320	198	320-720
250	540x540	476x476	370	248	440-990
315	650x650	592x592	435	313	620-1380

Circular frontplate

DPI-H-R DPI-V-R	Front plate Ø A [mm]	Plenum Ø C [mm]	H [mm]	Ø D [mm]	V [m ³ /h]
100	250	186	220	98	80-185
125	300	236	245	123	110-280
160	365	306	280	158	230-520
200	445	381	320	198	320-720
250	540	476	370	248	440-990
315	650	592	435	313	620-1380

Flush-fit plenum

DPI-HX DPI-VX	Front plate Ax B [mm]	Plenum Cx D [mm]	H [mm]	Ø D [mm]	V [m ³ /h]
100	250x250	186x186	220	98	80-185
125	300x300	236x236	245	123	110-280
160	365x365	306x306	280	158	230-520
200	445x445	381x381	320	198	320-720
250	540x540	476x476	370	248	440-990
315	650x650	592x592	435	313	620-1380

Tehcnical data

Parameter	Value
Room height.....	2.7 m
Cooling ΔT	-8 K
Heating ΔT	+5 K
Maximum air velocity in occupied zone	0.15 m/s
Air distribution	4-way supply
Minimum diffuser spacing	2 \times throw
Minimum distance to wall	0.6 \times throw

DPI 100

Airflow [m ³ /h]	LwA [dB(A)]	Δp [Pa]	Throw [m]
80	35	5	0,42
125	37	12	0,64
155	39	20	0,77
185	42	35	0,89

DPI 125

Airflow [m ³ /h]	LwA [dB(A)]	Δp [Pa]	Throw [m]
110	34	5	0,48
170	37	12	0,76
230	40	22	1,01
280	43	38	1,20

DPI 160

Airflow [m ³ /h]	LwA [dB(A)]	Δp [Pa]	Throw [m]
230	35	6	0,72
320	38	14	1,01
410	41	26	1,34
520	44	42	1,52

DPI 200

Airflow [m ³ /h]	LwA [dB(A)]	Δp [Pa]	Throw [m]
320	35	6	0,86
440	38	14	1,16
600	41	28	1,52
720	44	48	1,78

DPI 250

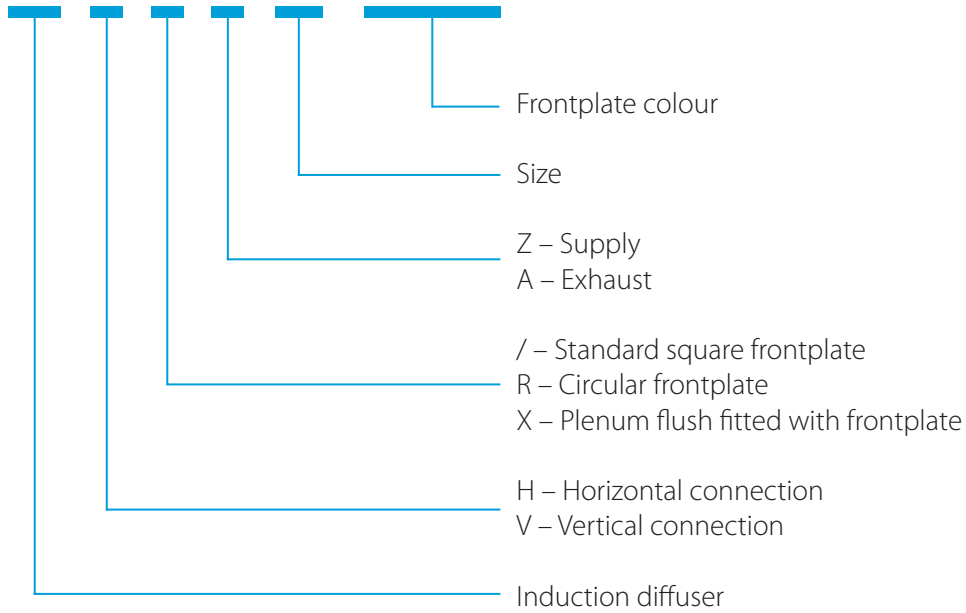
Airflow [m ³ /h]	LwA [dB(A)]	Δp [Pa]	Throw [m]
440	35	6	0,95
620	38	14	1,29
800	41	30	1,6
990	44	52	1,93

DPI 315

Airflow [m ³ /h]	LwA [dB(A)]	Δp [Pa]	Throw [m]
620	35	6	1,10
920	38	15	1,52
1220	41	32	1,91
1380	45	58	2,10

Ordering key

DPI - H - - - Z / 160 / RAL 9010



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