Model definition

VFP-O1H4-400-RAL9010

VFP Product type

VFP=Swirl diffuser

O1H4 Plenum configuration

O1V4=with non-insulated plenum and top inlet；

O1H4=with non-insulated plenum and side inlet；

O3V4=with insulated plenum and top inlet；

O3H4=with insulated plenum and side inlet。

400 Nominal model

nominal model: 300、400、500、600

RAL9010 Painting

RAL9010 is the factory standard color; Special colors can be sprayed according to customer requirements。

Application description

VFP type swirl diffuser is designed as a square panel, which is convenient with the T-bar ceiling or ceiling surface installation. It's composed of stationary radial alignment deflectors. It has large air volume and low noise. The outlet air is horizontal and swirl air blowing, and high induction ratio that mix with the room air rapidly. Therefore, the temperature and air velocity can be decreased very fast to reach the best comfort. It can be used in the constant air volume or variable volume system with air supply temperature up to 11 degC or high ventilation system.

Technical features

-High induction ratio and swirl air outlet mode;

-The guide deflector is PP material

-Suitable for VAV&CAV system, airflow variable range 25% to 100%

-Suitable for high ventilation system

-Suitable for w or w/o ceiling system. Even no ceiling, the Coanda effect cannot be formed, but the horizontal and swirl discharge be guaranteed

-The plenum can choose whether with insulation or not, top inlet or side inlet to meet different installation conditions.

-The panel is hidden-type installation, connected with plenum with bolt, it's convenient to disassemble the panel at site.

-The panel design is able to install the diffuser into the T-bar rapidly and conveniently.

-Inlet is optional air volume damper

Material and surface treatment

-The diffuser and plenum is galvanized steel.

-The diffuser normally powder painted finish, standard surface treatment is RAL9010 white painting.

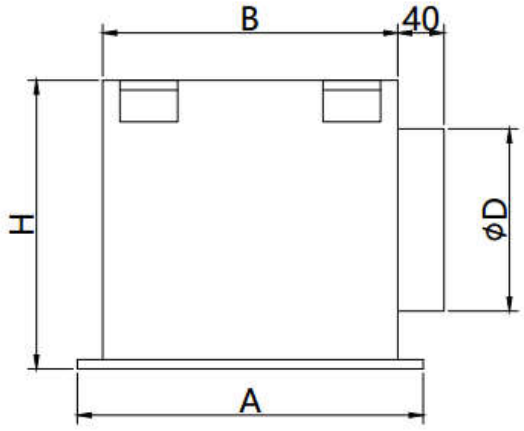
Shipping form:

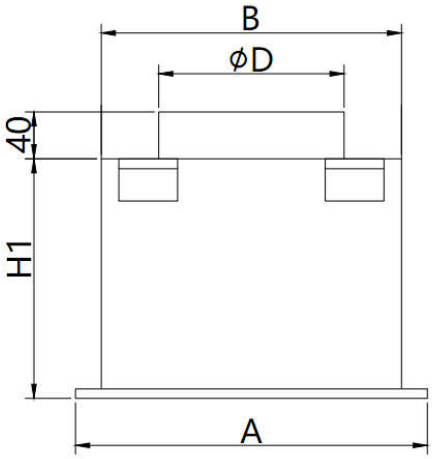
The diffuser and plenum box shall be provided as a whole.

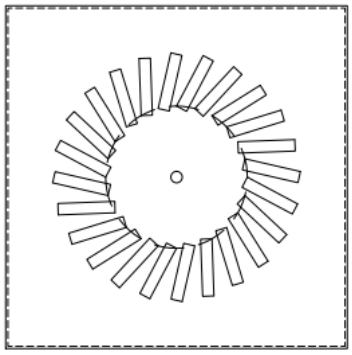
Model and size

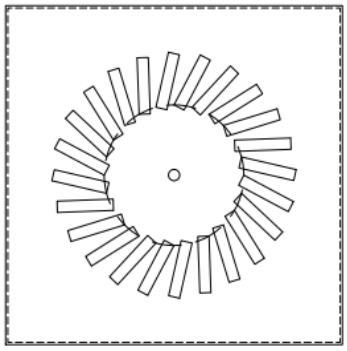
Model	ΦD	A	B	H1	H
300*8	160	300	260	200	250
400*16	200	400	360	200	290
500*24	200	500	460	200	290
600*48	250	600	560	200	340

Note: all dimensions are in millimeters/mm。









Technical Data

Model Size	Effective Area m^2	Surface Velocity m/s	Airflow m^3/h	Pressure Drop Pa	Air Throw m	Diffusion Radius m	Noise dB(A)
300*8	0.0113	2.5	102	6	0.8	0.7	<20
		3.5	143	11	1.0	0.9	<20
		4.5	183	19	1.2	1.1	28
		5.5	224	28	1.4	1.3	32
		6.5	265	39	1.6	1.6	38
		7.5	305	52	1.8	1.8	43
		8.5	346	67	2.0	2.1	46
		9.5	387	84	2.3	2.5	49
400*16	0.0226	2.5	204	9	1.0	0.9	<20
		3.5	285	18	1.4	1.4	29
		4.5	367	30	1.8	1.7	36
		5.5	448	44	2.2	2.1	42
		6.5	529	62	2.5	2.5	46
		7.5	611	82	2.8	2.8	51
500*24	0.0339	2.5	305	12	1.3	1.4	29
		3.5	428	25	1.8	1.9	39
		4.5	550	41	2.5	2.6	46
		5.5	672	61	3.1	3	51
		6.5	794	85	3.8	3.9	54
600*48	0.0679	2.5	611	13	1.9	1.8	32
		3.5	855	26	2.3	2.7	42
		4.5	1100	42	2.7	3.6	47
		5.5	1344	63	3.2	4.4	51
		6.5	1588	88	3.9	5	55

Note: The air throw is for hot air supply that refers to the distance to the position of air velocity at 0.25 m/s