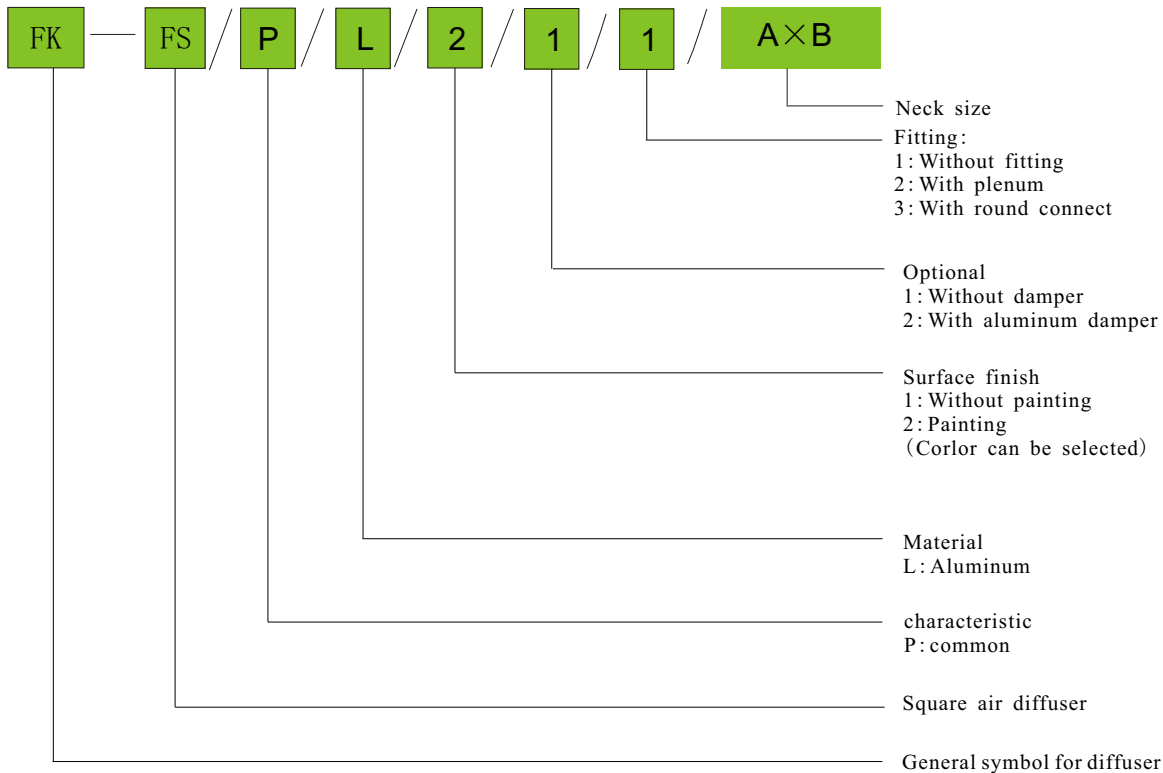


1, General discription

This product is a common air supply diffuser, which is widely used in hotel, theater, waiting hall, library which have high requirement of air quality and noise ,whose inner height is less than 5 meters. The state of the supply air always flows attach the ceiling to diffuse around ,it has characters of good airflow abduction capability ,diffuse quick and symmetrical, low noise and so on; it is used in the airflow system of supply air up and return down .It can be divided into more than 10 kinds according to form for diffusing airflow ,it can forms one to four different air supply

2. Symbol Explanation



Order example:FK-FS/L/2/1/300*300means:neck size is 300*300,aluminum,the square air diffuser's surface is painted ,without damper and fitting.

2. Characteristic

Square air Diffuser

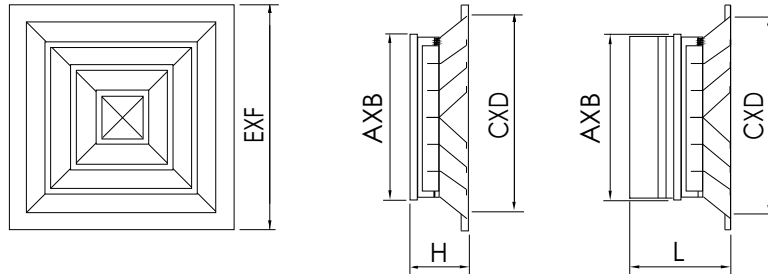


Capability and character:

- ✦ The supply airflow divide the air into many layers of quick directional airflow through many layers cone, it make the supply air and the inner air to mix quickly;
- ✦ Quick equilibrium airflow temperature and decrease airflow speed, to prevent dust wind coming ;
- ✦ The out frame and inner cone blade can be separated which is easy to installation and adjust;
- ✦ It choose high quality aluminum ,it has smooth and beautiful surface and good manufacturing art capacity.
- ✦ You can choose air diffuser of different air out direction according to different use, it has wide range of airflow adjust when it is used with adjust damper.
- ✦ The surface can be dealt with anode oxidation to endure rust.

4, Specification and size

Square air diffuser



Neck size(A×B)	Ceiling Opening size(C×D)	Out size(E×F)	Thickness(H)	Thickness with damper(L)
120×120	216×216	243×243	57	97
180×180	276×276	303×303	57	97
240×240	336×336	363×363	57	97
300×300	396×396	423×423	57	97
360×360	456×456	483×483	57	97
420×420	514×514	552×552	57	97
480×480	576×576	603×603	57	97
540×540	636×636	663×663	57	97

5, Technical data

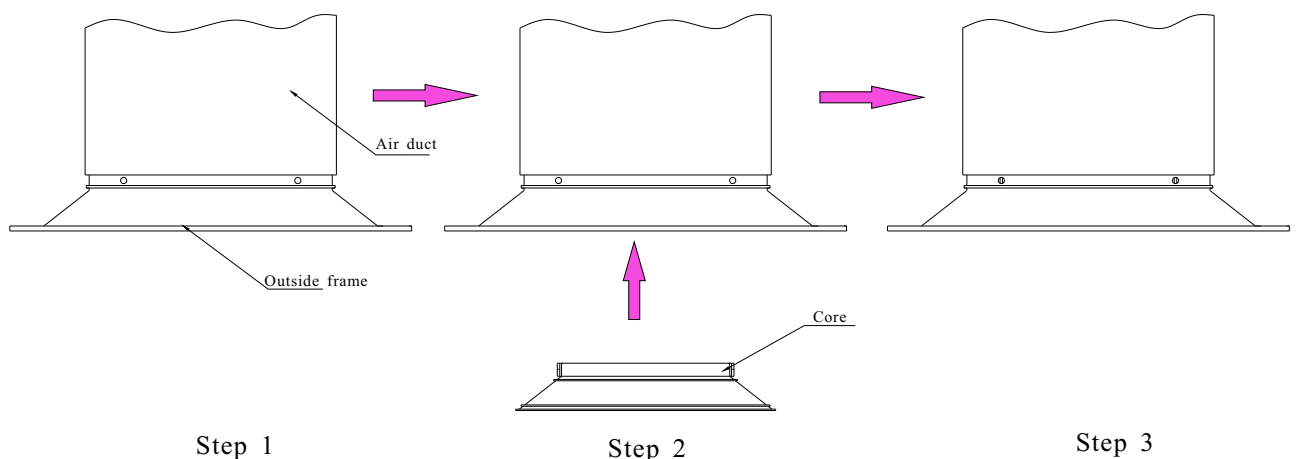
Specification	Neck velocity(m/s)	2.0	3.0	4.0	5.0	6.0
		Total pressure loss(Pa)	9.6	21.6	38.4	60.0
120×120	Air volume(m ³ /h)	103.0	155.0	207.0	259.0	311.0
	Diffuse radius(m)	1.3	2.2	3.0	3.7	4.2
	Supply air distance(m)	1.1	1.9	2.8	3.6	4.0
	Noise dB(A)	20.0	22.0	24.0	28.0	32.0
180×180	Air volume(m ³ /h)	230.0	345.0	460.0	576.0	691.0
	Diffuse radius(m)	1.6	2.2	3.0	4.0	4.4
	Supply air distance(m)	1.4	2.1	2.8	3.6	4.0
	Noise dB(A)	22.0	24.0	27.0	30.0	33.0
240×240	Air volume(m ³ /h)	410.0	615.0	820.0	1026.0	1231.0
	Diffuse radius(m)	1.7	2.4	3.2	4.2	4.6
	Supply air distance(m)	1.5	2.2	2.9	3.7	4.2
	Noise dB(A)	23.0	25.0	29.0	33.0	36.0
300×300	Air volume(m ³ /h)	648.0	972.0	1296.0	1620.0	1944.0
	Diffuse radius(m)	1.9	2.6	3.4	4.3	4.9
	Supply air distance(m)	1.7	2.4	3.1	3.9	4.3
	Noise dB(A)	24.0	26.0	30.0	37.0	41.0

Specification	Neck velocity(m/s)	2.0	3.0	4.0	5.0	6.0
	Total pressure loss(Pa)	9.6	21.6	38.4	60.0	86.4
360×360	Air volume(m ³ /h)	928.0	1393.0	1857.0	2322.0	2786.0
	Diffuse radius(m)	2.0	2.7	3.4	4.2	5.2
	Supply air distance(m)	1.9	2.5	3.2	3.9	4.5
	Noise dB(A)	25.0	27.0	32.0	39.0	43.0
420×420	Air volume(m ³ /h)	1267.0	1900.0	2534.0	3168.0	3801.0
	Diffuse radius(m)	2.2	2.9	3.6	4.4	5.4
	Supply air distance(m)	2.0	2.6	3.4	4.2	4.8
	Noise dB(A)	26.0	29.0	34.0	41.0	45.0
480×480	Air volume(m ³ /h)	1656.0	2484.0	3312.0	4140.0	4968.0
	Diffuse radius(m)	2.3	3.1	3.8	4.7	5.5
	Supply air distance(m)	2.1	2.8	3.6	4.4	4.9
	Noise dB(A)	27.0	30.0	35.0	42.0	46.0
540×540	Air volume(m ³ /h)	2095.0	3142.0	4190.0	5238.0	6285.0
	Diffuse radius(m)	2.5	3.4	4.2	5.1	6.2
	Supply air distance(m)	2.2	3.1	3.9	4.7	5.2
	Noise dB(A)	28.0	32.0	37.0	44.0	48.0

Note:

- 1, All the data above is right at isothermal supply air condition the supply air temperature is 8°C.
- 2, The supply air distance means the position of supply hot air, the end speed is 0.50m/s ,that is the vertical distance between air outlet and air diffuser .Diffuse radius means the level diffuse radius when supply cold air ,the end velocity is 0.25m/s
- 3, When it is used in supply air condition which is not isothermal or the temperature difference is not 8°C, the above data is a little different.

6, Installation



The added explanation:

- 1,First take down the inner of the diffuser (the product has the spring configuration itself),then connect the diffuser's frame with air pipe according drawing of the step 1
- 2,Confirm finishing step 1 , according the drawing which is step 2 , connection the inner with the frame
- 3,After finished step 1 and step 2 , you can see the drawing which is step 3

7, Order know

- 1, Please choose type of air diffuser according to this sample book
- 2, When the supply air temperature is lower than 16°C please tell me the work condition extra , avoid to the phenomena for dew.
- 3, Our company keep the final explanation and modification right.