

Products of WB Air















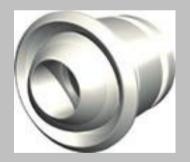
NB Air air distribution products

form function reliability

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BALL SPOUT DIFFUSER

Model: WB-BSPOT





NB Air

distribution products

Ball Spout Diffuser Model : WB - BSpot



Introduction

The WB-BSpot is designed for applications where long throws ,huge air quantities ,low pressure and low noise are basic requirements. Saving time and money on construction of ductworks. It's clean crisp aesthetics blends in perfectly with varied architectural designs.

With its 360 degress rotatable spout and a 60deg global rotation, it serves at least 2 possible functions. One, as spot coolling/ heating of air to excatly where its required and Two, as uniformly distributed air in an area where cooling/heating of a large area is required.

Deflection is 30degrees all round while still maintaining it's maximum area and air volume, thus facilitating supplying of cold air upwards and heated air downwards. This can be done manualy by hand or electrically by actuator in the event where cooling and heating is required within the same system.

<u>Principles</u>

Air is supplied into the space at high velocity, high induction causes the supply air to mix efficiently with the room air, hence cooling/heating the occupied zone in the shortest possible time.

Material and finishing

The circular internal flange and the ball joint of the diffuser is made of fire high resistant plastic(UL94 standard), all other parts including all exposed parts are extruded aluminum in standard white epxy/polyester powder coating. All moving and joining parts are fully gasketed.

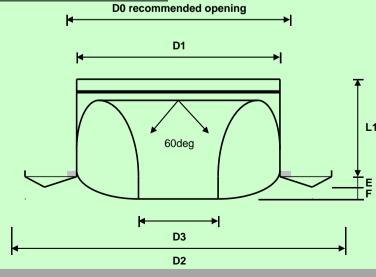
<u>Accessories</u>

- 1) Fan damper control at neck of diffuser.
- 2) Internally insulated plenum box with single blade damper control at collar.
- 3) Electric actuator for spout deflection.

<u>Installation</u>

The WB-Bspot has the easiest installation ever, with it's twist out front flange, screw fixings are concealed totally.

Dimensional Details



Size	D0	D1	D2	D3	E	н.	L1
160	178	158	200	82	11	10	95
200	220	198	257	108	16	14	111
250	270	248	302	136	16	23	143
315	335	313	384	174	23	29	166
400	420	398	467	230	24	47	199

Ball Spout Diffuser Model : WB - BSpot



<u>Technical Details</u>

Nozzie vei (m/s)→		2.50	3.75	5.00	6.25	7.50	8.75	10.00	11.25	12.50	13.75	15.00	16.25	17.50	18.75	20.00
	CMH	42	64	85	111	136	153	170	187	204	230	255	272	289	306	323
Dia	SP Pa	5.0	7.6	10.1	13.2	16.2	18.2	20.2	22.3	24.3	27.3	30.4	32.4	34.4	36.4	38.5
uia 160	NC	20.0	20.5	21.0	22.5	24.0	25.0	26.0	27.0	28.0	29.5	31.0	33.0	35.0	36.5	38.0
100	Vt=0.25m/s	3.4	4.4	5.4	7.0	8.5	9.5	10.5	11.6	12.6	14.0	15.3	16.2	17.0	17.9	18.7
	Vt=0.5m/s	2.6	3.4	4.1	5.3	6.4	1.2	7.9	8.7	9.4	10.5	11.5	12.2	12.8	13.4	14.0
	CMH	76	115	153	187	221	255	289	332	374	408	442	476	510	544	578
Dia	SP Pa	5.0	7.5	10.1	12.3	14.5	16.8	19.0	21.8	24.6	26.8	29.1	31.3	33.6	35.8	38.0
200	NC	20.0	21.5	23.0	24.0	25.0	26.0	27.0	29.0	31.0	33.5	36.0	37.5	39.0	41.0	43.0
200	Vt=0.25m/s	4.1	5.5	6.8	8.5	10.2	11.8	13.3	15.5	17.7	19.4	21.1	22.8	24.5	25.9	27.2
	Vt=0.5m/s	3.1	4.1	5.1	6.4	1]	8.8	<u>9.9</u>	11.6	13.3	14.6	15.8	17.1	18.4	19.4	20.4
	CMH	144	217	289	357	425	493	561	638	714	782	850	918	985	1053	1121
Dia	SP Pa	5.0	7.5	10.0	12.4	14.8	17.1	19.5	22.1	24.8	27.2	29.5	31.9	34.2	36.6	38.9
Dia 250	NC	20.0	21.5	23.0	24.0	25.0	26.5	28.0	29.5	31.0	32.5	34.0	36.0	38.0	40.0	42.0
200	Vt=0.25m/s	5.1	1.1	10.2	12.3	14.3	16.5	18.7	21.6	24.5	26.6	28.6	31.3	34.0	36.1	38 .1
	Vt=0.5m/s	3.8	5.8	1.1	9.2	10.7	12.4	14.0	16.2	18.4	19.9	214	23.5	25.5	27.1	28.6
	CMH	195	293	391	493	595	689	782	884	985	1079	1172	1274	1376	1470	1563
Dia	SP Pa	5.0	7.5	10.0	12.6	15.3	17.7	20.1	22.]	25.3	27.3	30.1	32. 7	35.3	37.7	40.1
315	NC	22.0	22.5	23.0	24.0	25.0	26.5	28.0	30.0	32.0	34.5	37.0	39.0	41.0	43.5	46.0
010	Vt=0.25m/s	5.8	8.9	11.9	14.5	17.0	19.6	22.1	25.0	27.9	31.0	34.0	36.1	38.1	41.2	44.2
	Vt=0.5m/s	4.3	6.6	8.9	10.9	12.8	14.7	16.6	18.8	20.9	23.2	25.5	27.1	28.6	30.9	33.2
	CMH	382	573.5	765	960	1155	1342	1529	1716	1903	2099	2294	2481	2667	2863	3058
Dia	SP Pa	5.0	7.5	10.0	12.6	15.1	17.6	20.0	22.5	24.9	27.5	30.0	32 .5	34.9	37.5	40.0
4 00	NC	22.0	22.5	23.0	24.5	26.0	29.0	32.0	34.0	36.0	39.5	43.0	44.5	46.0	48.5	51.0
400	Vt=0.25m/s	8.5	12.3	16.0	19.2	22.4	27.4	32.3	35.2	38.1	42.4	46.6	50.5	54.4	57.0	59.5
	Vt=0.5m/s	6.4	9.2	12.0	14.4	16.8	20.5	24.2	26.4	28.6	31.8	34.9	37.9	40.8	42 .7	44.6

Vt = terninal Velocity

Updated on 30/06/17



The purchaser should independently determine the suitability of the product for the intended application. Thank you for choosing WB Air for your air distribution needs.