

MODEL DSD

DISPLACEMENT FLOW DIFFUSER
SERIES: DSD-W, DSD -HC, DSD-C

APPLICATION:

KBE Wall Mounted or Curved Displacement Diffusers feature high gauge steel, flat perforated faces that are held by high strength extruded aluminum frames. The perforated faces and internal baffle ensure equalized air flow across the face of the diffuser and provide low velocity air into the room.

Model DSD-W and HC diffusers can be installed suspended from the ceiling, standing on the floor or hanging on the wall. The DSD-W can also be recessed into a wall to maintain a flush appearance.

Model DSD-C circular displacement diffuser with 360° air discharge pattern for floor installation. Typically installed free standing away from the wall.



DSD - W



DSD - HC



DSD - C

CONSTRUCTION:

Air Displacement diffusers are made of sheet metal and painted Ral 9010 (other color available). They consist of a perforated face, a bottom plate and top plate equipped with standard round inlet spigot. at customer's request, it can be rectangular according to dimension of the unit.

Diffuser Frame (for DSD-W) made of extruded Aluminum
 Side, Top and Bottom Panels – Coated Steel
 Perforated Front Panel and Baffles – Coated Steel
 Top Round Inlet
 Finish (Standard) Ral 9010.

ACCESSORIES AND OPTIONS:

- Optional inlet locations: bottom or rear.
- Total Aluminum Construction
- Mounting Base
- Leveling Legs
- Telescopic cover
- Various finish colors



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SERIES: DSD - W PERFORMANCE DATA

Width	Height	Inlet Size	NECK Velocity	Air flow	Total Pressure drop	Noise Criteria	Throw adjacent Zone Δ5°F	Throw adjacent Zone Δ10°F	
			fpm	Cfm	In W.g	NC	at 40 fpm		
24	24	8"	200	68	0.008	<15	3	3	
			300	101	0.017	<15	5	5	
			400	135	0.032	<15	6	7	
3.38 Ft ²			500	169	0.048	<15	7	8	
			600	203	0.072	<15	9	10	
			700	237	0.094	<15	11	12	
			800	271	0.128	17	13	14	
24	36		8"	200	68	0.006	<15	3	3
				300	101	0.013	<15	5	5
		400		135	0.024	<15	7	7	
5.07 Ft ²		500		169	0.036	<15	8	8	
		600		203	0.054	<15	10	10	
		700		237	0.071	<15	11	12	
		800		271	0.079	<15	13	14	
24	48	8"		200	68	0.004	<15	3	3
				300	101	0.008	<15	5	5
			400	135	0.016	<15	7	7	
6.76 Ft ²			500	169	0.024	<15	8	8	
			600	203	0.036	<15	10	10	
			700	237	0.047	<15	11	12	
			800	271	0.059	<15	13	14	
36	48		10"	200	109	0.005	<15	5	6
				300	164	0.011	<15	6	7
		400		218	0.020	<15	8	9	
11.04 Ft ²		500		273	0.031	<15	9	10	
		600		327	0.044	<15	11	12	
		700		382	0.060	<15	13	14	
		800		436	0.078	<15	15	16	
36	60	12"		200	157	0.006	<15	5	6
				300	236	0.013	<15	6	7
			400	314	0.023	<15	8	9	
13.80 Ft ²			500	393	0.036	<15	9	10	
			600	471	0.051	<15	11	12	
			700	550	0.07	16	14	16	
			800	628	0.091	22	16	18	
48	24		10"	200	109	0.005	<15	4	5
				300	164	0.011	<15	5	5
		400		218	0.020	<15	7	7	
7.36 Ft ²		500		273	0.031	<15	8	8	
		600		327	0.044	<15	9	10	
		700		382	0.060	<15	10	11	
		800		436	0.078	15	12	13	



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SERIES: DSD - W PERFORMANCE DATA

Width	Height	Inlet Size	NECK Velocity	Air flow	Total Pressure drop	Noise Criteria	Throw adjacent Zone Δ5°F	Throw adjacent Zone Δ10°F	
			fpm	Cfm	In W.g	NC	at 40 fpm		
48	36	10"	200	109	0.005	<15	4	5	
			300	164	0.011	<15	5	5	
			400	218	0.02	<15	7	7	
11.04 Ft ²			500	273	0.031	<15	8	8	
			600	327	0.044	<15	9	10	
			700	382	0.06	<15	10	11	
			800	436	0.078	<15	12	13	
48	48		12"	200	157	0.006	<15	5	6
				300	236	0.013	<15	6	7
		400		314	0.023	<15	8	9	
14.72 Ft ²		500		393	0.036	<15	9	10	
		600		471	0.051	<15	11	12	
		700		550	0.07	16	14	16	
		800		628	0.091	22	16	18	
48	60	14"		200	214	0.005	<15	7	7
				300	321	0.012	<15	10	10
			400	427	0.022	<15	13	14	
18.40 Ft ²			500	534	0.035	<15	16	16	
			600	641	0.051	<15	18	18	
			700	748	0.07	<15	20	21	
			800	855	0.091	<15	22	24	
60	24		10"	200	109	0.006	<15	3	3
				300	164	0.013	<15	5	5
		400		218	0.023	<15	7	7	
9.20 Ft ²		500		273	0.036	<15	8	8	
		600		327	0.051	<15	10	10	
		700		382	0.07	<15	11	12	
		800		436	0.091	<15	13	14	
60	36	18 x 8"		200	200	0.005	<15	4	4
				300	300	0.012	<15	6	6
			400	400	0.022	<15	7	7	
13.8 Ft ²			500	500	0.035	<15	8	8	
			600	600	0.051	<15	10	10	
			700	700	0.07	15	11	12	
			800	800	0.091	18	13	14	

Performance Notes:

1. Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cubic feet per minute, cfm.
3. Pressure is in inches of water, in. w.g.
4. The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10-12 watts and one diffuser.
5. ΔT is the difference between the room air temperature 3 ½ ft above the floor and the temperature of the supply air.
6. Throw values shown are distances in feet for temperature differentials of 5°F ΔT and 10°F ΔT cooling at 40 fpm terminal velocity.