DLE

LINEAR ENCLOSURE DISPLACEMENT DIFFUSER

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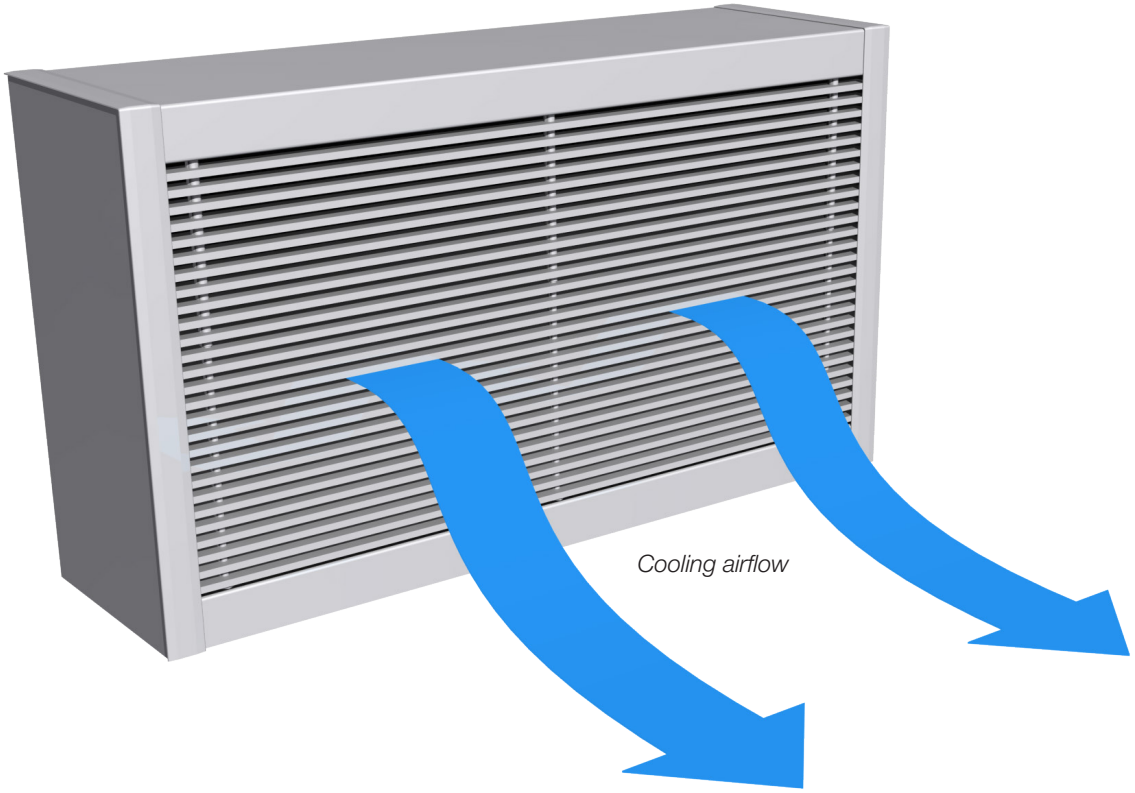
DLE
Linear Enclosure Displacement Diffuser

The Linear Enclosure Displacement Diffuser (DLE) is a low level, wall mounted diffuser that supplies low velocity discharge air through its extruded bar face into the occupied zone. The DLE, with its pencil proof bar grille is designed to be mounted along the perimeter, sidewalls and even integrated into shelving. Typical applications include classrooms, cafeterias and multi-functional spaces.

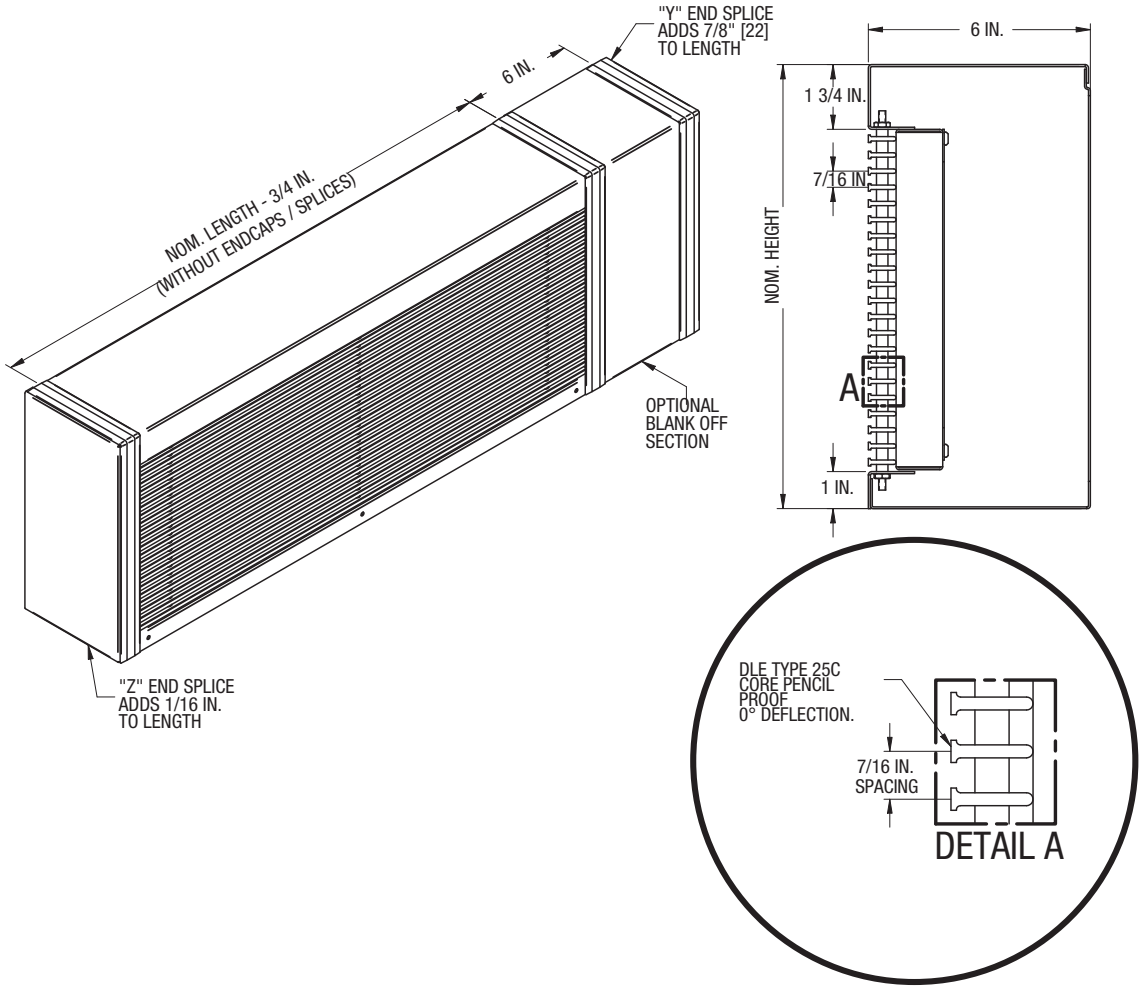


CONSTRUCTION

+ Material
  - Outer Shell and End Caps - Steel
  - Inner Baffle and Mandrel tubes - Aluminum
  - Optional Construction - Aluminum

+ Options
  - Blank-off section to cover junctions
  - Ships with protective film on face
  - Standard Finishes: B12 White, B15 Grey, B17 Black, and B11 Pure White
  - Optional Finishes: PC12 Prime Powder Coat and B25 color to match

DIMENSIONAL DATA



Nominal Sizes	
Length (in.)	**Height (in.)**
24	6, 9, 12, 15, 18
30	
36	
42	
48	
54	
60	

PERFORMANCE DATA

Unit Size L x H [in]	Face Velocity [fpm]	Air Flow [cfm]	Total Pressure [in. w.g.]	Static Pressure [in. w.g.]	Noise Criteria [NC]	Proximity to Outlet [ft]			
						DR 20%		Adjacent Zone	
						ΔT = 5 °F	ΔT = 10 °F	DT = 5°F	DT = 10°F
24 x 6	20	9	-	-	-	0	0	-	-
	30	14	-	-	-	0	0	-	-
	40	18	-	-	-	0	1	-	-
	50	23	-	-	-	0	2	-	1
24 x 12	20	28	-	-	-	0	3	-	2
	30	41	-	-	-	1	4	1	4
	40	55	-	-	-	2	6	2	6
	50	69	0.01	0.01	-	3	7	3	7
24 x 18	20	46	-	-	-	1	5	1	5
	30	69	-	-	-	3	7	4	7
	40	92	-	-	-	4	8	5	9
	50	115	0.01	0.01	-	5	9	7	10
30 x 6	20	12	-	-	-	0	0	-	-
	30	18	-	-	-	0	0	-	-
	40	23	-	-	-	0	1	-	-
	50	29	-	-	-	0	2	-	1
30 x 12	20	35	-	-	-	0	3	-	2
	30	53	-	-	-	1	4	1	4
	40	70	-	-	-	2	6	2	6
	50	88	0.01	0.01	-	3	7	4	7
30 x 18	20	58	-	-	-	1	5	1	5
	30	88	-	-	-	3	7	4	7
	40	117	-	-	-	4	8	5	9
	50	146	0.01	0.01	-	5	9	7	10
30 x 6	20	14	-	-	-	0	0	-	-
	30	21	-	-	-	0	0	-	-
	40	28	-	-	-	0	1	-	-
	50	35	-	-	-	0	2		1
36 x 12	20	43	-	-	-	0	3	-	2
	30	64	-	-	-	1	4	1	4
	40	85	-	-	-	2	6	2	6
	50	106	0.01	0.01	-	3	7	4	7
36 x 18	20	71	-	-	-	1	5	1	5
	30	106	-	-	-	3	7	4	7
	40	142	0.01	0.01	-	4	8	5	9
	50	177	0.02	0.02	-	5	9	7	10
40 x 6	20	19	-	-	-	0	0	-	-
	30	29	-	-	-	0	0	-	-
	40	38	-	-	-	0	1	-	-
	50	48	0.01	0.01	-	0	2	-	1
48 x 12	20	58	-	-	-	0	3	-	2
	30	86	-	-	-	1	4	1	4
	40	115	-	-	-	2	6	2	6
	50	144	0.01	0.01	-	3	7	4	7
48 x 18	20	96	-	-	-	1	5	1	5
	30	144	-	-	-	3	7	4	7
	40	192	0.01	0.01	-	4	8	5	9
	50	240	0.02	0.02	-	6	10	7	10
60 x 6	20	24	-	-	-	0	0	-	-
	30	36	-	-	-	0	0	-	-
	40	48	-	-	-	0	1	-	-
	50	60	0.01	0.01	-	0	2	-	1
60 x 12	20	73	-	-	-	0	3	-	2
	30	109	-	-	-	1	4	1	4
	40	145	0.01	0.01	-	2	6	2	6
	50	181	0.02	0.02	-	3	7	4	7
60 x 18	20	121	-	-	-	1	5	1	5
	30	181	-	-	-	3	7	4	7
	40	242	0.01	0.01	-	4	8	5	9
	50	302	0.02	0.02	-	6	10	7	10

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 3½ ft above the floor and the temperature of the supply air.
6. Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
7. Distances closer to the diffuser have a higher DR than the cataloged value.
8. DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
9. Blanks "-" indicate that the DR is below the specified value at all distances from the diffuser face.
10. DR catalog data is presented for an occupant density of 25 people/1000ft^2, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
11. The Adjacent zone describes the distance from the face of the diffuser and measured 1 in. from the floor, at which the supply air velocity is 50 fpm.

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