

DLE-H

LINEAR ENCLOSURE DISPLACEMENT DIFFUSER WITH INTEGRAL HEAT

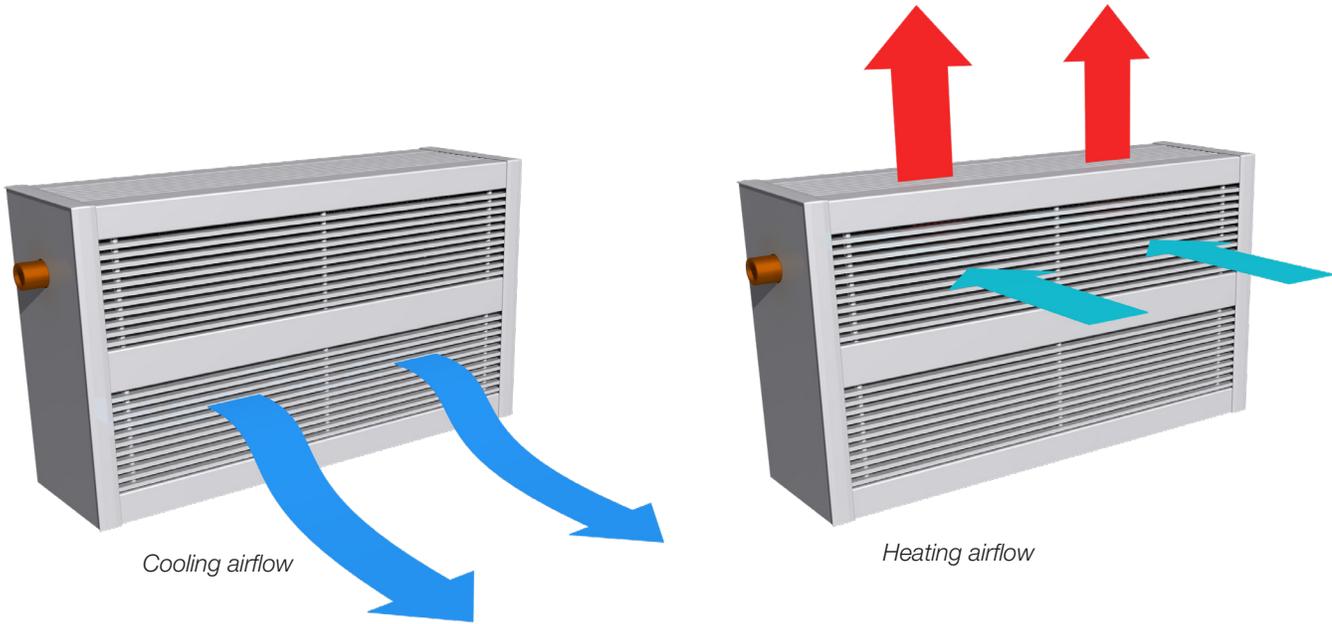


DLE-H

Linear Enclosure Displacement Diffuser with Integral Heat

The Linear Enclosure Displacement Diffuser with Integral Heat (DLE-H) uniquely combines natural convective heating with low level displacement cooling into one cabinet enclosure. The heating option is ideal for conditioning the perimeter while still providing superior air quality. The DLE-H is equipped with a fin tube that in heating mode allows the unit to pull cool air through the face, warm it, and discharge the air upwards along a cool window similar to a baseboard heater. This helps to eliminate draft and frosting of a cool exterior window. 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.

DLE-H



CONSTRUCTION

+ Material

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

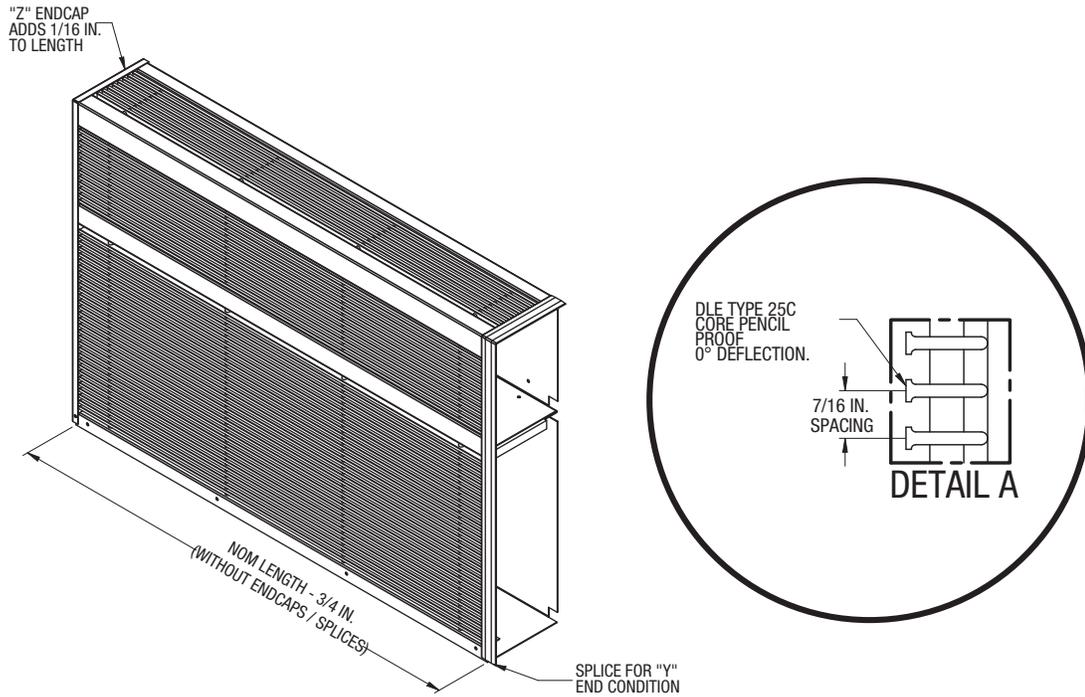
+ Options

- 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

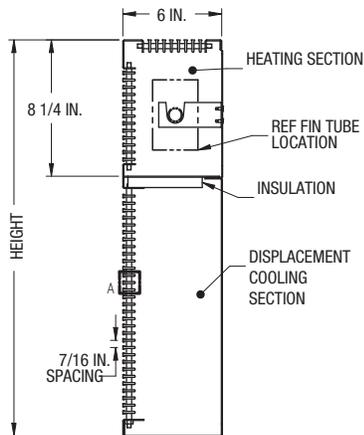
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DIMENSIONAL DATA



Hydronic Heater



Nominal Size - Hydronic Heater	
Length (in.)	Height (in.)
24	16, 20, 24
36	
48	
60	

Note:

The cooling performance for the hydronic and electric units will be different due to a difference in the heights of the heating sections.

PERFORMANCE DATA

Cooling: Hydronic Heating Option

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	
						$\Delta T = 5\text{ }^\circ\text{F}$	$\Delta T = 10\text{ }^\circ\text{F}$	$\Delta T = 5\text{ }^\circ\text{F}$	$\Delta T = 10\text{ }^\circ\text{F}$
24 x 16	20	20	-	-	-	-	1	--	1
	30	30	-	-	-	-	3	--	2
	40	40	-	-	-	1	4	1	4
	50	50	0.01	0.01	-	2	5	2	5
24 x 20	20	33	-	-	-	-	4	--	3
	30	50	-	-	-	2	5	2	5
	40	67	-	-	-	3	7	3	7
	50	83	0.01	0.01	-	4	8	5	8
24 x 24	20	47	-	-	-	2	5	1	5
	30	70	-	-	-	3	7	4	7
	40	93	-	-	-	5	9	5	9
	50	117	0.01	0.01	-	6	10	7	10
36 x 16	20	30	-	-	-	-	1	--	1
	30	45	-	-	-	-	3	--	2
	40	60	-	-	-	1	4	1	4
	50	75	0.01	0.01	-	2	5	2	5
36 x 20	20	50	-	-	-	-	3	--	3
	30	75	-	-	-	2	5	2	5
	40	100	-	-	-	3	7	3	7
	50	125	0.01	0.01	-	4	8	5	8
36 x 24	20	70	-	-	-	1	5	1	5
	30	105	-	-	-	3	7	4	7
	40	140	0.01	0.01	-	4	8	5	9
	50	175	0.02	0.02	-	6	10	7	10
48 x 16	20	40	-	-	-	-	1	--	--
	30	60	-	-	-	-	3	--	2
	40	80	-	-	-	1	4	1	4
	50	100	0.01	0.01	-	2	5	2	5
48 x 20	20	67	-	-	-	-	3	--	3
	30	100	-	-	-	2	5	2	5
	40	133	-	-	-	3	7	3	7
	50	167	0.02	0.02	-	4	8	5	8
48 x 24	20	93	-	-	-	1	5	1	5
	30	140	-	-	-	3	7	4	7
	40	187	0.01	0.01	-	4	8	5	9
	50	233	0.02	0.02	-	6	10	7	10
60 x 16	20	50	-	-	-	-	1	--	--
	30	75	-	-	-	-	3	--	2
	40	100	-	-	-	1	4	1	4
	50	125	0.01	0.01	-	1	5	2	5
60 x 20	20	83	-	-	-	-	3	--	3
	30	125	-	-	-	2	5	2	5
	40	167	0.01	0.01	-	3	7	3	7
	50	208	0.02	0.02	-	4	8	5	8
60 x 24	20	117	-	-	-	1	5	1	5
	30	175	-	-	-	3	7	4	7
	40	233	0.01	0.01	-	4	8	5	9
	50	292	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 3 ½ 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/1000ft², 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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