

PERFORMANCE DATA

DR360 Free Standing Unit

Unit Size Dia. x H [in]	Inlet Size [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	ΔT = 5 °F	ΔT = 10 °F
18 x 36	14	20	270	-	-	-	2	3	2	2
		30	405	0.02	0.01	-	3	4	3	3
		40	540	0.04	0.02	-	3	5	4	4
		50	675	0.06	0.03	-	4	6	4	5
24 x 36	14	20	361	0.01	-	-	2	3	2	2
		30	541	0.03	0.01	-	3	4	3	4
		40	722	0.05	0.02	-	3	5	4	5
		50	902	0.08	0.04	17	4	6	5	6
30 x 36	14	20	452	0.02	-	-	2	3	2	3
		30	678	0.04	0.01	-	3	4	3	4
		40	904	0.07	0.02	16	3	5	4	5
		50	1130	0.11	0.04	23	4	6	5	6
18 x 48	14	20	363	0.01	-	-	3	4	3	3
		30	545	0.03	0.01	-	4	6	4	5
		40	726	0.05	0.02	-	5	7	5	6
		50	908	0.08	0.04	-	6	8	6	8
24 x 48	14	20	486	0.02	-	-	3	4	3	4
		30	728	0.04	0.01	-	4	6	4	5
		40	971	0.07	0.02	16	5	7	5	7
		50	1214	0.11	0.03	24	6	8	7	8
30 x 48	16	20	608	0.02	-	-	3	4	3	4
		30	912	0.04	0.01	-	4	6	4	5
		40	1216	0.07	0.02	16	5	7	5	7
		50	1520	0.10	0.03	23	6	8	7	8
24 x 60	16	20	610	0.02	-	-	3	5	4	5
		30	915	0.04	0.01	-	5	7	5	7
		40	1220	0.07	0.02	-	6	9	7	9
		50	1525	0.10	0.03	22	7	11	8	11
30 x 60	18	20	764	0.02	-	-	3	5	4	5
		30	1146	0.03	-	-	5	7	5	7
		40	1528	0.06	0.01	-	6	9	7	9
		50	1910	0.10	0.02	23	7	11	8	11
36 x 36	18	20	543	0.01	-	-	2	3	2	3
		30	814	0.02	0.01	-	3	4	3	4
		40	1086	0.04	0.02	-	4	5	4	5
		50	1357	0.07	0.03	-	5	7	5	6
36 x 48	20	20	730	0.01	-	-	3	4	3	4
		30	1095	0.03	0.01	-	4	6	4	5
		40	1461	0.05	0.02	-	5	7	6	7
		50	1826	0.07	0.03	16	6	8	7	9
48 x 42	20	20	850	0.01	-	-	3	4	3	3
		30	1275	0.03	-	-	4	6	4	5
		40	1700	0.05	0.02	-	5	7	5	6
		50	2125	0.08	0.03	21	6	8	6	7
48 x 48	20	20	975	0.01	-	-	3	4	3	4
		30	1463	0.03	-	-	4	6	4	6
		40	1950	0.06	0.01	18	5	7	6	7
	22	30	1463	0.03	-	-	4	6	4	6
	22	40	1950	0.05	0.02	-	5	7	6	7
	22	50	2438	0.08	0.02	20	6	8	7	9

Performance Notes:

- Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in cubic feet per minute, cfm.
- Pressure is in inches of water, in. w.g.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser.
- ΔT is the difference between the room air temperature 3½ ft above the floor and the temperature of the supply air.
- Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
- Distances closer to the diffuser have a higher DR than the catalogued value.
- 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.
- Blanks “-” indicate that the DR is below the specified value at all distances from the diffuser face.
- 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.
- 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.

PERFORMANCE DATA

DR360 Duct Hung Unit

Unit Size Dia. x H [in]	Inlet Size [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	
							$\Delta T = 5^{\circ}\text{F}$	$\Delta T = 10^{\circ}\text{F}$	$\Delta T = 5^{\circ}\text{F}$	$\Delta T = 10^{\circ}\text{F}$
18 x 24	18	20	177	-	-	-	2	3	3	3
		30	265	0.01	-	-	3	4	3	4
		40	353	0.02	0.02	-	3	4	4	5
		50	442	0.03	0.03	-	4	5	5	6
24 x 24	24	20	236	-	-	-	2	3	3	4
		30	354	-	-	-	3	4	4	5
		40	473	0.01	0.01	-	4	5	5	6
		50	591	0.02	0.02	-	5	6	6	7
30 x 24	30	20	296	-	-	-	3	4	4	4
		30	444	-	-	-	4	5	5	6
		40	592	-	-	-	4	6	6	7
		50	740	0.01	0.01	-	5	7	7	8
18 x 36	18	20	270	-	-	-	3	4	3	4
		30	405	0.01	0.01	-	4	5	5	6
		40	540	0.02	0.02	-	4	6	6	7
		50	675	0.04	0.03	-	5	7	7	8
24 x 36	24	20	361	-	-	-	3	4	4	5
		30	541	0.01	-	-	4	6	6	7
		40	722	0.02	0.02	-	5	7	7	8
		50	902	0.03	0.03	-	6	8	8	10
30 x 36	30	20	452	-	-	-	4	5	5	6
		30	678	-	-	-	5	6	6	8
		40	904	0.01	0.01	-	6	8	8	10
		50	1130	0.02	0.02	-	7	9	9	11
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24 x 48	24	20	486	-	-	-	4	5	5	6
		30	728	0.01	-	-	5	7	7	8
		40	971	0.02	0.01	-	7	8	8	10
		50	1214	0.03	0.02	-	8	10	10	12
30 x 48	30	20	608	-	-	-	5	6	6	7
		30	912	0.01	-	-	6	8	8	10
		40	1216	0.02	0.01	-	8	10	9	12
		50	1520	0.03	0.02	-	9	11	11	14
24 x 60	24	20	610	-	-	-	5	6	6	7
		30	915	-	-	-	6	8	8	10
		40	1220	-	-	-	8	10	10	12
		50	1525	0.01	-	-	9	12	11	14
30 x 60	30	20	764	-	-	-	5	7	7	9
		30	1146	-	-	-	7	9	9	11
		40	1528	0.02	0.01	-	9	12	11	14
		50	1910	0.03	0.02	-	11	14	13	16

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