

PERFORMANCE DATA

plenum slot diffusers

EOS / EOS-NT / SECONDARY / SECONDARY-NT PERFORMANCE DATA
HORIZONTAL & VERTICAL PATTERN - HEATING & COOLING CONDITIONS

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	Air Pattern	Neck Velocity FPM	300	400	500	600	700	800	900	1000
		Velocity Pressure VP	0.006	0.010	0.015	0.023	0.030	0.040	0.052	0.062
24" Length Single Slot 6" Oval Inlet	Cooling Mode -20°ΔT	Flow Rate (cfm)	56	75	94	112	131	150	168	187
		Total Pressure	0.024	0.042	0.065	0.094	0.130	0.170	0.210	0.260
		NC	-	-	16	22	26	30	34	37
	Heating Mode +15°ΔT	Flow Rate (cfm)	56	75	94	112	131	150	168	187
		Total Pressure	0.022	0.039	0.062	0.088	0.120	0.156	0.200	0.240
		NC	-	-	12	17	22	26	30	33
		Throw (feet)	4-7-13	7-10-15	6-12-16	10-13-19	12-14-20	12-15-22	13-16-23	14-17-24
24" Length Single Slot 8" Oval Inlet	Cooling Mode -20°ΔT	Flow Rate (cfm)	90	120	151	181	211	241	271	302
		Total Pressure	0.044	0.078	0.120	0.175	0.240	0.310	0.390	0.480
		NC	13	22	29	34	39	42	47	50
	Heating Mode +15°ΔT	Flow Rate (cfm)	90	120	151	181	211	241	271	302
		Total Pressure	0.044	0.078	0.120	0.175	0.240	0.310	0.390	0.480
		NC	10	19	25	30	35	39	43	47
		Throw (feet)	9-13-23	12-18-26	15-21-29	18-23-32	20-25-35	22-26-37	23-28-39	24-30-40
48" Length Single Slot 10" Oval Inlet	Cooling Mode -20°ΔT	Flow Rate (cfm)	125	166	208	249	291	332	374	415
		Total Pressure	0.026	0.047	0.073	0.105	0.142	0.185	0.230	0.290
		NC	-	13	20	26	31	35	39	42
	Heating Mode +15°ΔT	Flow Rate (cfm)	125	166	208	249	291	332	374	415
		Total Pressure	0.025	0.046	0.071	0.103	0.140	0.184	0.230	0.290
		NC	-	-	13	19	24	29	32	45
		Throw (feet)	1-3-11	3-6-14	4-9-16	6-11-18	8-13-19	10-14-20	11-15-22	12-16-24
48" Length Single Slot 12" Oval Inlet	Cooling Mode -20°ΔT	Flow Rate (cfm)	158	210	263	316	368	412	473	527
		Total Pressure	0.032	0.060	0.087	0.126	0.172	0.224	0.285	0.350
		NC	-	13	19	25	30	34	38	41
	Heating Mode +15°ΔT	Flow Rate (cfm)	158	210	263	316	368	412	473	527
		Total Pressure	0.030	0.055	0.085	0.122	0.168	0.218	0.276	0.340
		NC	-	13	19	25	30	34	38	41
		Throw (feet)	3-8-14	5-9-17	7-12-19	9-14-21	11-16-22	12-17-24	14-18-25	15-20-28

* Horizontal Pattern

** Vertical Pattern, Installed 18" from Wall

- Notes:
- Dash (-) in space denotes NC value less than 10
- Vertical Pattern installed 18" from wall and air flow flows back to wall at floor
- Throw values are given for 150, 100, and 50 fpm for cooling and heating conditions
- Vertical throw tested with a 9ft. high ceiling
- All pressures are in inches of W.G.
- Data obtained per ASHRAE Standard 70-2006. Actual performance with flexible duct inlet may vary in the field.
- Throws are for a 1-way pattern
- NC values represent data obtained for 2nd to 7th octave bands with a 10dB room absorption re 10⁻¹² watts

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