

# PERFORMANCE DATA

1-Way, 24 in./610 mm Length

## Inlet Size 4 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
20	0.01	0.01	-	1	3	12	9	1	3	10	20
30	0.03	0.02	-	3	7	19	14	3	7	13	26
40	0.06	0.05	-	6	13	25	18	6	12	15	30
50	0.09	0.07	-	9	16	32	23	9	13	18	36
60	0.12	0.09	-	13	19	38	28	12	13	19	38

## Inlet Size 6 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
20	0.01	0.01	-	1	3	12	9	1	3	10	20
30	0.03	0.03	-	3	7	19	14	3	7	13	26
40	0.06	0.05	-	6	13	25	18	6	12	15	30
50	0.09	0.09	-	9	16	32	23	9	13	18	36
60	0.13	0.12	-	13	19	38	28	12	13	19	38

## Inlet Size 8 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
20	0.01	0.01	-	1	3	12	9	1	3	10	20
30	0.02	0.02	-	3	7	19	14	3	7	13	26
40	0.04	0.04	-	6	13	25	18	6	12	15	30
50	0.07	0.07	-	9	16	32	23	9	13	18	36
60	0.10	0.10	-	13	19	38	28	12	13	19	39

1-Way, 48 in./1219 mm Length

## Inlet Size 6 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
40	0.02	0.02	-	1	3	12	10	1	2	5	12
60	0.04	0.03	-	3	7	22	18	3	6	9	21
80	0.08	0.07	-	5	12	30	25	4	6	15	35

## Inlet Size 8 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
40	0.02	0.02	-	1	3	12	10	1	2	5	12
60	0.04	0.04	-	3	7	22	18	3	6	9	21
80	0.07	0.07	-	5	12	30	25	4	6	15	35

## Inlet Size 10 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
40	0.02	0.02	-	1	3	12	10	1	2	5	12
60	0.04	0.03	-	3	7	22	18	3	6	9	21
80	0.07	0.07	-	5	12	30	25	4	6	15	35

For performance notes see end of section.

# PERFORMANCE DATA

2-Way, 24 in./610 mm Length

## Inlet Size 4 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
40	0.03	0.02	-	2	4	15	12	2	4	12	26
60	0.07	0.04	-	4	8	18	14	4	8	13	29
80	0.12	0.07	15	7	12	24	19	7	11	15	33
100	0.18	0.10	20	10	15	30	24	10	12	17	37

## Inlet Size 6 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
40	0.02	0.02	-	2	4	15	12	2	4	12	26
60	0.05	0.04	-	4	8	18	14	4	8	13	29
80	0.08	0.07	-	7	12	24	19	7	11	15	33
100	0.13	0.11	19	10	15	30	24	10	12	17	37

## Inlet Size 8 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
40	0.02	0.02	-	2	4	15	12	2	4	12	26
60	0.04	0.04	-	4	8	18	14	4	8	13	29
80	0.07	0.07	-	7	12	24	19	7	11	15	33
100	0.11	0.10	18	10	15	30	24	10	12	17	37

2-Way, 48 in./1219 mm Length

## Inlet Size 6 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
50	0.01	0.01	-	1	2	6	7	1	2	3	9
100	0.05	0.03	-	2	4	15	17	2	3	6	18
150	0.11	0.07	19	4	10	18	20	3	5	9	27
200	0.20	0.14	26	8	15	22	24	4	6	12	36

## Inlet Size 8 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
50	0.01	0.01	-	1	2	6	7	1	2	3	9
100	0.04	0.03	-	2	4	15	17	2	3	6	18
150	0.09	0.08	16	4	10	18	20	3	5	9	27
200	0.16	0.14	24	8	15	22	24	4	6	12	36

## Inlet Size 10 in.

Flow Rate (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions				Cooling Conditions			
				Throw (ft.)			Drop (in.)	Throw (ft.)			Drop (in.)
				150fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
50	0.01	0.01	-	1	2	6	7	1	2	3	9
100	0.04	0.04	-	2	4	15	17	2	3	6	18
150	0.08	0.08	15	4	10	18	20	3	5	9	27
200	0.14	0.13	23	8	15	22	24	4	6	12	36

### Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2006 "Method of testing for Rating the Performance of Air Outlets and Inlets."
- Air flow in cubic feet per minute, cfm.
- All pressures are in in. w.g.  
TP = Total Pressure    SP = Static Pressure
- NC values are based on a room absorption of 10 dB re 10<sup>-12</sup> watts and one diffuser.
- Isothermal conditions indicate supply air temperature is equal to room air temperature.
- Cooling conditions are based on a supply air temperature of 40 °F and a room temperature of 75 °F.
- Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
- Drop is in inches at a terminal velocity of 50 fpm.
- Blanks (-) indicate NC less than 15.