

PERFORMANCE DATA

RVD - 24 in. x 24 in.

Inlet Size 6 in.

Neck Velocity (fpm)	300	400	500	600	700	800	900	1000
Velocity Pressure (in. w.g.)	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
Total Pressure (in. w.g.)	0.010	0.018	0.028	0.040	0.054	0.071	0.090	0.111
Flow Rate (cfm)	59	79	98	118	137	157	177	196
Sound (NC)	-	-	-	-	-	18	21	24
Throw (ft.)	1-1-2	1-1-2	1-1-3	1-2-4	1-2-4	2-2-5	2-3-5	2-3-6

Inlet Size 8 in.

Neck Velocity (fpm)	300	400	500	600	700	800	900	1000
Velocity Pressure (in. w.g.)	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
Total Pressure (in. w.g.)	0.017	0.030	0.047	0.068	0.092	0.120	0.152	0.188
Flow Rate (cfm)	105	140	174	209	244	279	314	349
Sound (NC)	-	-	-	-	19	23	26	29
Throw (ft.)	1-2-3	1-2-4	2-3-5	2-3-6	2-4-7	3-4-7	3-5-8	3-5-8

Inlet Size 10 in.

Neck Velocity (fpm)	300	400	500	600	700	800	900	1000
Velocity Pressure (in. w.g.)	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
Total Pressure (in. w.g.)	0.048	0.051	0.079	0.114	0.156	0.203	0.257	0.318
Flow Rate (cfm)	164	218	273	327	382	436	491	545
Sound (NC)	-	15	22	27	31	35	38	41
Throw (ft.)	2-2-5	2-3-6	3-4-7	3-5-8	4-6-8	4-6-9	5-7-9	5-7-10

Inlet Size 12 in.

Neck Velocity (fpm)	300	400	500	600	700	800	900	1000
Velocity Pressure (in. w.g.)	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
Total Pressure (in. w.g.)	0.048	0.086	0.134	0.194	0.264	0.344	0.436	0.538
Flow Rate (cfm)	236	314	393	471	550	628	707	785
Sound (NC)	17	24	31	36	40	44	47	50
Throw (ft.)	2-4-7	3-5-8	4-6-8	5-7-9	5-7-10	6-8-11	7-8-11	7-8-12

Inlet Size 14 in.

Neck Velocity (fpm)	300	400	500	600	700	800		
Velocity Pressure (in. w.g.)	0.006	0.010	0.016	0.022	0.031	0.040		
Total Pressure (in. w.g.)	0.082	0.146	0.228	0.328	0.446	0.583		
Flow Rate (cfm)	321	428	535	641	748	855		
Sound (NC)	24	32	38	43	47	51		
Throw (ft.)	3-5-8	4-6-9	5-7-10	6-8-11	7-8-12	7-9-12		

Inlet Size 16 in.

Neck Velocity (fpm)	300	400	500	600				
Velocity Pressure (in. w.g.)	0.006	0.010	0.016	0.022				
Total Pressure (in. w.g.)	0.139	0.247	0.385	0.555				
Flow Rate (cfm)	419	558	698	837				
Sound (NC)	30	38	44	49				
Throw (ft.)	4-6-9	6-7-10	6-8-11	7-9-12				

Performance Notes:

1. 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 cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum)
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC values are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.

PERFORMANCE DATA

RVDLT - 24 in. x 24 in.

Inlet Size 6 in. \varnothing

Airflow (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions			Drop (in.)	Cooling Conditions			Drop (in.)
				Throw (ft)				Throw (ft)			
				150 fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
100	0.03	0.01	-	1	2	3	3	1	2	2	5
200	0.12	0.06	25	2	3	6	6	2	3	5	11
300	0.27	0.12	36	3	5	8	8	3	5	6	15
400	0.48	0.22	44	4	6	9	9	4	5	7	16
500	0.75	0.35	50	5	7	10	10	5	6	8	18
600	1.08	0.50	55	6	7	11	11	6	6	8	20

Inlet Size 8 in. \varnothing

Airflow (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions			Drop (in.)	Cooling Conditions			Drop (in.)
				Throw (ft)				Throw (ft)			
				150 fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
100	0.01	0.01	-	1	2	3	3	1	2	2	5
200	0.06	0.04	-	2	3	6	6	2	3	5	11
300	0.13	0.08	24	3	5	8	8	3	5	6	15
400	0.23	0.15	32	4	6	9	9	4	5	7	16
500	0.36	0.23	38	5	7	10	10	5	6	8	18
600	0.51	0.33	44	6	7	11	11	6	6	8	20

Inlet Size 10 in. \varnothing

Airflow (cfm)	Total Pressure (in. w.g.)	Static Pressure (in. w.g.)	Sound (NC)	Isothermal Conditions			Drop (in.)	Cooling Conditions			Drop (in.)
				Throw (ft)				Throw (ft)			
				150 fpm	100 fpm	50 fpm		150 fpm	100 fpm	50 fpm	
100	0.01	0.01	-	1	2	3	3	1	2	2	5
200	0.04	0.04	-	2	3	6	6	2	3	5	11
300	0.10	0.08	24	3	5	8	8	3	5	6	15
400	0.18	0.15	32	4	6	9	9	4	5	7	16
500	0.36	0.23	38	5	7	10	10	5	6	8	18
600	0.51	0.33	44	6	7	11	11	6	6	8	20

Performance Notes:

1. 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 cfm.
3. All pressures are in in. w.g.
TP = total pressure
SP = static pressure
4. NC values are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
5. Blanks (-) indicate an NC level below 15.
6. Isothermal conditions indicate supply air temperature is equal to room air temperature.
7. Cooling conditions are based on a supply air temperature of 40 °F and a room temperature of 75 °F.
8. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum)
9. Drop is in inches at a terminal velocity of 50 fpm.