



# ENGINEERING DATA

## RT1100

Neck Velocity	400	500	600	700	800	900	1000	1200	1400
Velocity Pressure	0.010	0.016	0.022	0.031	0.040	0.051	0.062	0.090	0.122

6"	3 (Down)	Airflow	79	98	118	137	157	177	196	236	275	
		Total Pressure	0.012	0.018	0.026	0.036	0.047	0.049	0.073	0.105	0.143	
		NC	-	-	-	-	12	17	20	27	33	
	2 (Center)	Throw (Horizontal)	1-3-6	2-4-7	3-5-8	4-6-9	4-6-9	5-7-10	5-7-10	6-8-11	7-9-12	
		Total Pressure	0.017	0.027	0.039	0.053	0.07	0.088	0.109	0.156	0.213	
		NC	-	-	-	13	17	21	24	30	34	
	1 (Up)	50 fpm Vertical Projection	Throw (Horizontal)	2-4-8	2-5-9	3-6-10	5-7-10	5-8-11	6-8-12	6-9-12	8-10-14	8-10-15
			Total Pressure	0.026	0.041	0.059	0.08	0.105	0.132	0.164	0.235	0.321
			NC	-	-	10	15	19	22	25	31	35
			10°F ΔT Heating	2	3	4	5	6	7	8	10	12
			20°F ΔT Heating	2	3	4	5	6	7	8	9	11
			30°F ΔT Heating	1	2	3	4	5	6	7	8	10
40°F ΔT Heating	1	2	2	3	4	5	6	7	9			

8"	3 (Down)	Airflow	140	175	209	244	279	314	349	419	489	
		Total Pressure	0.014	0.021	0.031	0.042	0.055	0.070	0.086	0.124	0.168	
		NC	-	-	-	-	13	17	21	27	33	
	2 (Center)	Throw (Horizontal)	2-3-5	3-4-8	3-5-9	4-5-10	4-6-11	5-7-12	5-8-12	6-9-13	7-10-15	
		Total Pressure	0.019	0.029	0.042	0.057	0.075	0.095	0.117	0.168	0.229	
		NC	-	-	-	12	16	20	24	30	35	
	1 (Up)	50 fpm Vertical Projection	Throw (Horizontal)	2-3-6	3-4-8	3-5-9	4-5-10	4-6-11	5-7-12	5-8-12	6-9-13	7-10-15
			Total Pressure	0.04	0.062	0.089	0.121	0.158	0.200	0.247	0.355	0.484
			NC	-	-	10	15	20	25	28	35	41
			10°F ΔT Heating	6	7	8	9	10	11	12	14	16
			20°F ΔT Heating	5	6	7	8	9	10	11	13	15
			30°F ΔT Heating	5	6	7	8	9	9	10	12	14
40°F ΔT Heating	4	5	6	7	8	9	10	12	14			

10"	3 (Down)	Airflow	218	273	327	382	436	491	545	654	764	
		Total Pressure	0.015	0.024	0.034	0.046	0.060	0.076	0.094	0.136	0.185	
		NC	-	-	-	13	18	23	27	34	39	
	2 (Center)	Throw (Horizontal)	3-4-8	3-5-10	4-6-11	5-7-12	5-8-13	6-9-13	6-10-14	8-11-16	9-12-17	
		Total Pressure	0.019	0.030	0.043	0.059	0.077	0.098	0.121	0.174	0.237	
		NC	-	-	14	19	23	27	30	35	40	
	1 (Up)	50 fpm Vertical Projection	Throw (Horizontal)	3-4-8	3-5-10	4-6-11	5-7-12	5-8-13	6-9-13	6-10-14	8-11-16	9-12-17
			Total Pressure	0.028	0.044	0.064	0.087	0.114	0.144	0.178	0.256	0.348
			NC	-	-	-	16	21	27	31	39	46
			10°F ΔT Heating	7	8	9	10	11	12	13	15	17
			20°F ΔT Heating	7	8	9	9	10	11	12	14	16
			30°F ΔT Heating	6	7	8	9	10	10	11	13	15
40°F ΔT Heating	5	6	7	8	9	10	11	13	15			

12"	3 (Down)	Airflow	314	393	471	550	628	707	785	942	1100	
		Total Pressure	0.016	0.025	0.036	0.049	0.064	0.081	0.100	0.144	0.196	
		NC	-	15	19	22	25	28	30	34	37	
	2 (Center)	Throw (Horizontal)	4-6-11	5-7-14	6-8-16	6-10-17	7-11-18	8-13-19	9-14-20	11-16-22	13-17-24	
		Total Pressure	0.022	0.034	0.048	0.066	0.086	0.109	0.134	0.194	0.263	
		NC	15	19	22	25	27	30	32	35	38	
	1 (Up)	50 fpm Vertical Projection	Throw (Horizontal)	5-7-14	6-9-16	7-10-17	8-12-18	9-14-20	10-15-21	11-16-22	14-17-24	15-18-26
			Total Pressure	0.033	0.052	0.074	0.101	0.132	0.167	0.206	0.297	0.404
			NC	10	15	20	23	27	29	32	36	40
			10°F ΔT Heating	8	9	11	12	13	15	16	18	21
			20°F ΔT Heating	8	9	10	11	13	14	15	17	20
			30°F ΔT Heating	7	8	9	10	12	13	14	17	20
40°F ΔT Heating	7	8	9	10	12	13	14	16	19			

14"	3 (Down)	Airflow	428	535	641	748	855	962	1069	1283	1497	
		Total Pressure	0.011	0.016	0.024	0.032	0.042	0.053	0.066	0.094	0.129	
		NC	-	12	17	21	25	28	31	36	40	
	2 (Center)	Throw (Horizontal)	3-6-12	5-8-14	6-9-16	7-11-17	8-12-18	9-14-19	10-14-20	9-13-19	14-17-24	
		Total Pressure	0.015	0.024	0.034	0.046	0.061	0.077	0.095	0.137	0.186	
		NC	-	13	18	23	26	30	33	38	42	
	1 (Up)	50 fpm Vertical Projection	Throw (Horizontal)	4-6-12	5-8-14	6-9-15	7-11-16	8-12-17	9-13-18	10-14-19	12-15-21	13-16-23
			Total Pressure	0.022	0.034	0.05	0.067	0.088	0.112	0.138	0.198	0.27
			NC	-	15	20	24	28	31	34	39	43
			10°F ΔT Heating	10	12	14	15	17	19	21	24	28
			20°F ΔT Heating	10	12	13	15	17	19	20	24	28
			30°F ΔT Heating	9	11	13	14	16	18	20	24	28
40°F ΔT Heating	9	11	12	14	16	18	19	23	27			

Notes:

- All pressures are in inches of water.
- Horizontal throw values are for terminal velocities of 150, 100 and 50 fpm at isothermal conditions.
- To obtain static pressure, subtract the velocity pressure from the total pressure.
- If mounted on an exposed duct, the throw values are 70% of listed values and will be projected downward.
- NC values based on 2nd through 7th octave bands with room absorption of 10dB, re 10<sup>-12</sup> watts.
- Dash (-) denotes an NC value of less than 10.
- Data (except vertical projection) was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.