

R580, R580RR, R5880, R5880RR Supply Performance Data
IP DATA: R580, R580RR, R5880, R5880RR

Duct Size	Duct Area	Duct Vel.	Air Flow	0-Degrees		15-Degrees		30-Degrees		NC	Octave Band					
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7
				in	ft ²	FPM	CFM	"WG	ft		"WG	ft	"WG	ft		
6	0.196	459	90	.037	9 - 13 - 20	.047	8 - 11 - 18	.067	7 - 10 - 16	-	30	20	-	-	-	-
		919	180	.146	16 - 20 - 28	.187	15 - 18 - 25	.269	13 - 16 - 23	16	43	37	32	27	23	14
		1225	240	.260	19 - 23 - 32	.333	17 - 21 - 29	.479	15 - 19 - 26	26	49	44	41	37	34	28
		1531	300	.406	21 - 25 - 36	.520	19 - 23 - 33	.748	17 - 21 - 30	35	53	49	48	45	43	39
		1835	360	.583	23 - 28 - 39	.746	21 - 25 - 36	1.074	19 - 23 - 32	41	57	54	54	51	50	48
8	0.348	502	175	.044	12 - 19 - 28	.056	11 - 16 - 25	.080	9 - 14 - 23	-	33	23	13	-	-	-
		860	300	.128	21 - 25 - 36	.164	18 - 23 - 33	.236	16 - 21 - 30	14	44	36	30	26	20	-
		1218	425	.257	25 - 30 - 43	.329	22 - 27 - 39	.473	20 - 25 - 35	27	50	45	41	38	34	27
		1577	550	.430	28 - 34 - 49	.551	25 - 31 - 44	.793	23 - 28 - 40	36	55	51	50	46	44	40
		1807	630	.565	30 - 37 - 52	.724	27 - 33 - 47	1.041	25 - 30 - 43	41	58	55	54	51	49	47
10	0.545	550	300	.052	17 - 25 - 36	.067	14 - 22 - 33	.097	12 - 19 - 30	-	36	26	17	11	-	-
		872	475	.131	26 - 32 - 45	.168	23 - 29 - 41	.242	20 - 26 - 37	15	45	38	31	27	21	11
		1193	650	.246	31 - 37 - 53	.315	28 - 34 - 48	.454	25 - 31 - 43	27	51	45	41	37	34	26
		1468	800	.373	34 - 42 - 59	.478	31 - 38 - 53	.687	28 - 34 - 48	34	55	51	48	45	42	37
		1835	1000	.583	38 - 47 - 66	.746	34 - 42 - 60	1.074	31 - 38 - 54	42	60	56	55	52	51	48
12	0.785	510	400	.045	18 - 27 - 42	.058	16 - 24 - 38	.083	14 - 20 - 34	-	36	25	15	-	-	-
		796	625	.110	29 - 37 - 52	.141	25 - 33 - 47	.202	21 - 30 - 43	13	44	36	29	24	18	-
		1083	850	.203	35 - 43 - 61	.260	32 - 39 - 55	.374	29 - 35 - 50	24	51	44	39	35	30	22
		1593	1250	.439	42 - 52 - 74	.562	38 - 47 - 67	.809	35 - 43 - 60	38	58	54	52	48	46	41
		1784	1400	.551	45 - 55 - 78	.705	41 - 50 - 70	1.015	37 - 45 - 64	42	60	56	55	52	50	47
14	1.068	562	600	.055	23 - 35 - 51	.070	20 - 30 - 46	.101	17 - 26 - 42	-	39	29	19	13	-	-
		819	875	.116	34 - 44 - 62	.149	29 - 39 - 56	.214	25 - 36 - 50	15	46	38	31	26	20	-
		983	1050	.167	39 - 48 - 67	.214	35 - 43 - 61	.308	30 - 39 - 55	21	50	43	37	32	27	18
		1451	1550	.364	47 - 58 - 82	.467	43 - 52 - 74	.671	39 - 47 - 67	35	57	52	49	46	43	37
		1685	1800	.491	51 - 62 - 88	.629	46 - 56 - 80	.905	42 - 51 - 72	40	60	56	54	51	48	44
16	1.395	538	750	.050	25 - 38 - 57	.064	22 - 33 - 52	.092	19 - 28 - 47	-	39	29	18	12	-	-
		717	1000	.089	34 - 47 - 66	.114	29 - 42 - 60	.164	25 - 38 - 54	11	44	36	28	22	16	-
		1003	1400	.174	45 - 55 - 78	.223	41 - 50 - 70	.321	35 - 45 - 64	23	51	44	38	34	29	19
		1362	1900	.321	52 - 64 - 91	.411	47 - 58 - 82	.591	43 - 53 - 74	34	57	52	48	44	41	34
		1649	2300	.470	58 - 71 - 100	.602	52 - 64 - 90	.867	47 - 58 - 82	40	61	56	54	51	48	44
18	1.766	566	1000	.056	30 - 45 - 66	.071	26 - 38 - 60	.102	22 - 33 - 54	-	41	31	21	15	-	-
		736	1300	.094	39 - 53 - 75	.120	33 - 48 - 68	.173	29 - 43 - 61	12	46	37	29	24	17	-
		906	1600	.142	48 - 59 - 83	.182	41 - 53 - 75	.262	35 - 48 - 68	20	50	42	36	31	25	15
		1387	2450	.333	59 - 73 - 103	.427	54 - 66 - 93	.614	49 - 60 - 84	35	58	53	49	46	42	36
		1699	3000	.500	66 - 81 - 114	.640	60 - 73 - 103	.920	54 - 66 - 93	42	62	58	56	53	50	46
20	2.180	550	1200	.052	32 - 48 - 72	.067	28 - 41 - 65	.097	24 - 36 - 59	-	41	31	21	14	-	-
		734	1600	.093	43 - 59 - 83	.119	37 - 53 - 75	.172	32 - 48 - 68	13	47	38	30	24	18	-
		917	2000	.146	53 - 66 - 93	.187	46 - 60 - 84	.268	40 - 54 - 76	21	51	43	37	32	27	16
		1193	2600	.246	61 - 75 - 106	.315	55 - 68 - 96	.454	50 - 61 - 87	30	56	50	45	41	37	29
		1560	3400	.421	70 - 86 - 121	.539	63 - 78 - 110	.776	57 - 70 - 99	40	61	56	54	50	47	42
22	2.638	569	1500	.056	36 - 54 - 81	.072	31 - 47 - 73	.103	27 - 40 - 66	-	42	32	22	16	-	-
		758	2000	.099	48 - 66 - 93	.127	42 - 60 - 84	.183	36 - 54 - 76	14	48	39	31	26	20	-
		948	2500	.155	60 - 74 - 104	.199	52 - 67 - 94	.286	45 - 60 - 85	22	52	45	39	34	28	18
		1327	3500	.305	71 - 87 - 123	.390	64 - 79 - 111	.561	58 - 71 - 101	35	59	53	49	45	42	35
		1516	4000	.398	76 - 93 - 132	.510	69 - 84 - 119	.733	62 - 76 - 108	39	62	56	54	50	47	41
24	3.139	573	1800	.057	40 - 60 - 88	.073	34 - 51 - 80	.105	30 - 44 - 72	-	43	33	23	17	-	-
		765	2400	.101	53 - 72 - 102	.130	46 - 65 - 92	.186	39 - 59 - 83	15	49	40	32	27	20	-
		956	3000	.158	66 - 81 - 114	.202	57 - 73 - 103	.291	49 - 66 - 93	23	53	46	39	35	29	19
		1274	4000	.281	76 - 93 - 132	.360	69 - 84 - 119	.518	62 - 76 - 108	34	59	53	49	45	41	33
		1529	4800	.405	83 - 102 - 144	.518	75 - 92 - 130	.746	68 - 83 - 118	40	62	57	54	51	48	42

NOTES: NC values are based on octave band 2 - 7 sound power levels minus a room absorption 10dB, re 10⁻¹² Watts. Dash in space denotes a NC value less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70. Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). Throw data assumes a free jet. For entrained jets, throw increases by approximately 30%.

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METRIC DATA: R580, R580RR, R5880, R5880RR

Table with columns for Duct Size, Duct Area, Duct Vel., Air Flow, 0-Degrees, 15-Degrees, 30-Degrees, NC, and Octave Band (2-7). Rows represent different duct sizes and flow conditions.

NOTES: NC values are based on octave band 2 - 7 sound power levels minus a room absorption 10dB, re 10^-12 Watts. Dash in space denotes a NC value less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70. Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). Throw data assumes a free jet. For entrained jets, throw increases by approximately 30%.

AIR NOZZLES & ROUND GRILLES

R580 - 175880

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