

Models 33R Bar 12.7 mm Spacing 38° Deflection.

Nominal Duct Size	Nominal Duct Area (m ²)	Core Area (m ²)	Core Velocity, m/s Velocity Pressure, Pa Neg. Static Pressure, Pa	NC -10		NC -20		NC -30				
				1.0	1.5	2.0	2.5	3.0	3.6	4.1	4.6	5.1
				1	1	2	4	6	8	10	13	16
150mm x 150mm	0.02	0.02	Air Flow, l/s	18	27	36	45	54	63	72	81	90
			NC	-	-	-	14	20	25	30	34	37
200mm x 150mm	0.03	0.02	Air Flow, l/s	25	37	49	61	74	86	98	110	123
			NC	-	-	-	16	22	27	31	35	38
250mm x 150mm	0.04	0.03	Air Flow, l/s	32	48	64	80	96	112	128	144	160
			NC	-	-	-	17	23	28	32	36	40
200mm x 200mm	0.04	0.03	Air Flow, l/s	35	52	70	87	105	122	140	157	175
			NC	-	-	-	17	23	28	33	37	40
300mm x 150mm	0.05	0.04	Air Flow, l/s	39	58	77	97	116	135	155	174	193
			NC	-	-	-	18	24	29	33	37	40
350mm x 150mm	0.05	0.04	Air Flow, l/s	45	68	91	113	136	159	181	204	227
			NC	-	-	11	18	24	29	34	38	41
400mm x 150mm 300mm x 200mm	0.06	0.05	Air Flow, l/s	54	81	108	135	161	188	215	242	269
			NC	-	-	12	19	25	30	35	38	42
250mm x 250mm	0.06	0.05	Air Flow, l/s	56	84	111	139	167	195	223	251	278
			NC	-	-	12	19	25	30	35	39	42
450mm x 150mm	0.07	0.06	Air Flow, l/s	59	89	119	149	178	208	238	268	297
			NC	-	-	12	20	26	31	35	39	42
500mm x 150mm 300mm x 250mm	0.08	0.07	Air Flow, l/s	68	102	136	170	204	238	272	306	340
			NC	-	-	13	20	26	31	36	39	43
550mm x 150mm	0.09	0.07	Air Flow, l/s	73	109	145	182	218	254	291	327	363
			NC	-	-	13	20	26	31	36	40	43
600mm x 150mm 300mm x 300mm	0.09	0.08	Air Flow, l/s	83	125	166	208	249	291	332	374	415
			NC	-	-	14	21	27	32	36	40	44
750mm x 150mm 450mm x 250mm	0.12	0.10	Air Flow, l/s	105	157	210	262	314	367	419	471	524
			NC	-	-	15	22	28	33	37	41	45
350mm x 350mm	0.13	0.11	Air Flow, l/s	115	173	230	288	345	403	461	518	576
			NC	-	-	15	22	28	33	38	42	45
900mm x 150mm 450mm x 300mm	0.14	0.13	Air Flow, l/s	127	191	255	319	382	446	510	573	637
			NC	-	-	16	23	29	34	38	42	46
550mm x 250mm	0.14	0.13	Air Flow, l/s	129	194	259	323	388	453	517	582	647
			NC	-	-	16	23	29	34	38	42	46
750mm x 200mm 600mm x 250mm	0.16	0.14	Air Flow, l/s	141	211	281	352	422	492	563	633	703
			NC	-	-	16	23	29	34	39	43	46
1050mm x 150mm 450mm x 350mm	0.16	0.15	Air Flow, l/s	150	225	300	375	450	525	600	675	750
			NC	-	-	16	24	30	35	39	43	46
400mm x 400mm	0.17	0.15	Air Flow, l/s	153	229	306	382	459	535	612	688	765
			NC	-	-	16	24	30	35	39	43	46
600mm x 300mm 450mm x 400mm	0.19	0.17	Air Flow, l/s	172	258	344	429	515	601	687	773	859
			NC	-	-	17	24	30	35	40	43	47
450mm x 450mm	0.21	0.19	Air Flow, l/s	195	293	391	488	586	684	782	879	977
			NC	-	-	18	25	31	36	40	44	47
600mm x 350mm	0.22	0.20	Air Flow, l/s	202	303	404	505	606	707	808	909	1010
			NC	-	-	18	25	31	36	40	44	48
750mm x 300mm	0.23	0.21	Air Flow, l/s	216	324	432	540	648	757	865	973	1081
			NC	-	-	18	25	31	36	41	44	48

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric • contact factory for availability of sizes •



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NC -10 NC -20 NC -30 NC -40

Nominal Duct Size	Nominal Duct Area (m ²)	Core Area (m ²)	Core Velocity, m/s Velocity Pressure, Pa Neg. Static Pressure, Pa	NC									
				1.0	1.5	2.0	2.5	3.0	3.6	4.1	4.6	5.1	
600mm x 400mm	0.25	0.23	Air Flow, l/s NC	232 -	348 -	464 18	580 26	697 31	813 37	929 41	1045 45	1161 48	
500mm x 500mm	0.26	0.24	Air Flow, l/s NC	243 -	364 -	485 18	606 26	728 32	849 37	970 41	1092 45	1213 48	
900mm x 300mm	0.28	0.26	Air Flow, l/s NC	260 -	389 -	519 19	649 26	779 32	909 37	1038 41	1168 45	1298 49	
750mm x 400mm	0.31	0.29	Air Flow, l/s	294	440	587	734	881	1027	1174	1321	1468	
600mm x 500mm			NC	-	-	19	27	33	38	42	46	49	
550mm x 550mm	0.31	0.29	Air Flow, l/s NC	296 -	445 -	593 19	741 27	889 33	1037 38	1186 42	1334 46	1482 49	
1050mm x 300mm			Air Flow, l/s	304	456	608	760	912	1064	1216	1368	1520	
900mm x 350mm	0.33	0.30	NC	-	-	19	27	33	38	42	46	49	
600mm x 550mm	0.34	0.32	Air Flow, l/s NC	324 -	486 -	648 20	809 27	971 33	1133 38	1295 42	1457 46	1619 50	
750mm x 450mm	0.35	0.33	Air Flow, l/s NC	330 -	496 -	661 20	826 27	991 33	1156 38	1321 42	1487 46	1652 50	
1200mm x 300mm			Air Flow, l/s	354	531	708	885	1062	1239	1416	1593	1770	
600mm x 600mm	0.37	0.35	NC	-	11	20	27	33	38	43	47	50	
900mm x 450mm	0.42	0.39	Air Flow, l/s NC	398 -	597 11	797 21	996 28	1195 34	1394 39	1593 43	1792 47	1992 51	
900mm x 500mm			Air Flow, l/s	445	667	889	1111	1334	1556	1778	2001	2223	
750mm x 600mm	0.46	0.44	NC	-	12	21	28	34	39	44	48	51	
1050mm x 450mm	0.49	0.46	Air Flow, l/s NC	466 -	699 12	933 21	1166 29	1399 35	1632 40	1865 44	2098 48	2331 51	
700mm x 700mm	0.51	0.48	Air Flow, l/s NC	487 -	731 12	974 21	1218 29	1461 35	1705 40	1948 44	2192 48	2435 51	
1050mm x 500mm			Air Flow, l/s	520	780	1040	1300	1560	1820	2080	2340	2600	
750mm x 700mm	0.54	0.51	NC	-	12	22	29	35	40	44	48	52	
1200mm x 450mm			Air Flow, l/s	534	801	1068	1336	1603	1870	2137	2404	2671	
900mm x 600mm	0.56	0.53	NC	-	12	22	29	35	40	45	48	52	
750mm x 750mm	0.58	0.55	Air Flow, l/s NC	561 -	841 13	1121 22	1402 29	1682 35	1962 40	2243 45	2523 49	2803 52	
1050mm x 600mm			Air Flow, l/s	629	943	1257	1572	1886	2200	2515	2829	3143	
900mm x 700mm	0.65	0.62	NC	-	13	23	30	36	41	45	49	52	
1150mm x 550mm	0.65	0.62	Air Flow, l/s NC	631 -	946 13	1261 23	1576 30	1892 36	2207 41	2522 45	2837 49	3153 53	
800mm x 800mm	0.66	0.63	Air Flow, l/s NC	640 -	960 13	1280 23	1600 30	1920 36	2240 41	2560 45	2880 49	3200 53	
900mm x 750mm	0.70	0.67	Air Flow, l/s NC	676 -	1014 14	1352 23	1690 30	2027 36	2365 41	2703 46	3041 49	3379 53	
1200mm x 600mm			Air Flow, l/s	720	1080	1440	1800	2161	2521	2881	3241	3601	
900mm x 800mm	0.74	0.71	NC	-	14	23	30	36	41	46	50	53	
850mm x 850mm	0.75	0.71	Air Flow, l/s NC	725 -	1087 14	1450 23	1812 30	2175 36	2537 41	2900 46	3262 50	3625 53	
900mm x 850mm	0.79	0.76	Air Flow, l/s NC	768 -	1153 14	1537 23	1921 31	2305 37	2689 42	3073 46	3458 50	3842 53	

NC-50

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Nominal Duct Size	Nominal Duct Area (m ²)	Core Area (m ²)	Core Velocity, m/s Velocity Pressure, Pa Neg. Static Pressure, Pa	NC -10		NC -20		NC -30		NC -40		NC -50	
				1.0	1.5	2.0	2.5	3.0	3.6	4.1	4.6	5.1	
1050 mm x 750 mm	0.81	0.78	Air Flow, l/s	791	1186	1582	1977	2373	2768	3164	3559	3955	
			NC	-	14	24	31	37	42	46	50	53	
900 mm x 900 mm	0.84	0.80	Air Flow, l/s	815	1222	1629	2036	2444	2851	3258	3666	4073	
			NC	-	14	24	31	37	42	46	50	54	
1050 mm x 850 mm 1200 mm x 750 mm	0.93	0.89	Air Flow, l/s	906	1359	1812	2265	2718	3172	3625	4078	4531	
			NC	-	15	24	31	37	42	47	51	54	
950 mm x 950 mm	0.93	0.90	Air Flow, l/s	910	1365	1820	2275	2730	3185	3640	4095	4550	
			NC	-	15	24	31	37	42	47	51	54	
1050 mm x 900 mm	0.98	0.94	Air Flow, l/s	953	1430	1907	2383	2860	3337	3813	4290	4767	
			NC	-	15	24	32	38	43	47	51	54	
1150 mm x 850 mm	1.01	0.97	Air Flow, l/s	986	1480	1973	2466	2959	3452	3946	4439	4932	
			NC	-	15	25	32	38	43	47	51	54	
1050 mm x 950 mm	1.03	0.99	Air Flow, l/s	1007	1511	2014	2518	3021	3525	4029	4532	5036	
			NC	-	15	25	32	38	43	47	51	55	
1000 mm x 1000 mm	1.03	0.99	Air Flow, l/s	1010	1515	2020	2525	3030	3535	4040	4545	5050	
			NC	-	15	25	32	38	43	47	51	55	
1200 mm x 900 mm	1.11	1.07	Air Flow, l/s	1092	1638	2184	2730	3276	3822	4368	4914	5460	
			NC	-	16	25	32	38	43	48	51	55	
1050 mm x 1050 mm	1.14	1.10	Air Flow, l/s	1116	1674	2231	2789	3347	3905	4463	5021	5578	
			NC	-	16	25	32	38	43	48	52	55	
1100 mm x 1100 mm	1.25	1.21	Air Flow, l/s	1226	1839	2452	3065	3678	4291	4905	5518	6131	
			NC	-	16	25	33	39	44	48	52	55	
1200 mm x 1050 mm	1.30	1.26	Air Flow, l/s	1278	1917	2556	3195	3834	4473	5112	5751	6390	
			NC	-	16	26	33	39	44	48	52	56	
1150 mm x 1150 mm	1.36	1.32	Air Flow, l/s	1342	2013	2684	3356	4027	4698	5369	6040	6711	
			NC	-	16	26	33	39	44	49	52	56	
1200 mm x 1150 mm	1.42	1.38	Air Flow, l/s	1402	2103	2803	3504	4205	4906	5607	6308	7008	
			NC	-	17	26	33	39	44	49	53	56	
1200 mm x 1200 mm	1.49	1.44	Air Flow, l/s	1463	2195	2926	3658	4389	5121	5852	6584	7315	
			NC	-	17	26	34	39	45	49	53	56	

* Static pressure are negative, in Pascal, measured per ASHRAE 70-91

* NC based on absorption of 10dB, re 10-10 watts, measured per ASHRAE 70-91

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