ENGINEERING DATA

AV54R

Size		Neck Velocity	300			400			500			600			700		
		Velocity Pressure	0.006			0.010			0.016			0.022			0.031		
		Deflection	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
6	DuctArea = 0.196	CFM	60			80			100			120			140		
		Ps	0.014	0.033	0.040	0.030	1.030	2.030	0.090	1.090	2.090	0.190	1.190	2.190	0.310	1.310	2.310
		Throw	13	13	10	20	16	13	25	20	15	32	26	20	40	35	25
		NC	-	-	-	-	-	-	-	-	22	-	20	20	21	23	26
8	Duct Area = 0.349	CFM	110			140			180			210			250		
		Ps	0.014	0.029	0.030	0.026	0.049	0.056	0.037	0.065	0.156	0.048	0.082	0.097	0.075	0.125	0.150
		Throw	20	17	12	27	22	18	31	26	20	35	30	22	35	27	22
		NC	-	-	-	-	18	19	-	18	25	15	18	20	20	21	25
10	Duct Area = 0.545	CFM	170			220			280			330			390		
		Ps	0.011	0.024	0.026	0.016	0.035	0.043	0.022	0.045	0.059	0.036	0.068	0.088	0.062	0.105	0.142
		Throw	25	21	17	33	26	21	59	52	35	55	45	32	61	45	40
		NC	-	-	-	-	-	-	-	15	19	-	20	21	20	22	25
12	Duct Area = 0.785	CFM	240			320			400			480			550		
		Ps	0.010	0.019	0.017	0.015	0.031	0.037	0.012	0.025	0.032	0.075	0.090	0.140	0.085	0.102	0.120
		Throw	27	22	17	40	32	25	45	32	27	52	42	35	60	44	40
		NC	-	-	-	-	-	-	-	-	20	-	-	24	-	20	27
14	Duct Area = 1.069	CFM	330			430			540			650			750		
		Ps	0.010	0.020	0.030	0.020	0.030	0.050	0.020	0.040	0.070	0.040	0.050	0.090	0.050	0.070	0.120
		Throw	30	25	20	40	32	25	55	45	30	65	52	37	75	57	45
		NC	-	-	-	-	-	15	-	-	21	-	15	23	15	21	21
16	Duct Area = 0.201	CFM	420			560			700			840			980		
		Ps	0.010	0.030	0.050	0.020	0.040	0.070	0.040	0.070	0.120	0.050	0.060	0.130	0.060	0.080	0.140
		Throw	25	25	20	41	32	26	60	46	34	73	55	41	80	65	50
		NC	-	-	-	-	-	21	-	-	21	-	15	23	-	21	32
20	Duct Area = 0.202	CFM	660			880			1100			1310			1530		
		Ps	-	0.010	0.030	0.010	0.030	0.050	0.020	0.050	0.080	0.020	0.070	0.110	0.030	0.090	0.140
		Throw	37	32	22	50	40	30	67	56	39	80	66	46	94	77	54
		NC	-	20	-	-	-	-	-	-	22	-	-	29	-	23	34
24	Duct Area = 0.203	CFM	950			1260			1580			1890			2200		
		Ps	-	0.020	0.040	-	0.040	0.060	0.010	0.050	0.090	0.020	0.080	0.130	0.030	0.100	0.170
		Throw	42	38	26	59	50	34	77	63	43	94	76	52	107	86	60
		NC	-	-	-	-	-	-	-	-	25	-	-	31	-	21	32

Notes:

1. The throw values are based on a 50 fpm terminal velocity.
2. Dash "-" indicates static pressure is less than 0.01 in. wc
3. Dash "-" indicates NC value less than 20.
4. NC level is based on 10dB room attenuation (Re: 10^{-12} watts) with one diffuser operating

Specialty Products

ENGINEERING DATA

AV54R

Size	Neck Velocity		800			1000			1200			1400		
	Velocity Pressure		0.040			0.062			0.090			0.122		
	Deflection		0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
6	Duct Area = 0.196	CFM	160			200			240			280		
		Ps	0.750	1.750	2.750	0.820	1.820	2.820	1.100	2.100	3.100	1.100	2.100	3.100
		Throw	43	37	28	55	45	35	60	55	45	80	70	55
		NC	20	28	35	24	34	40	32	40	47	37	43	
8	Duct Area = 0.349	CFM	280			350			420			-		
		Ps	0.110	0.175	0.220	0.153	0.230	0.290	0.255	0.420	0.470			
		Throw	55	45	33	60	51	39	80	60	50			
		NC	22	26	30	25	32	33	33	40	42			
10	Duct Area = 0.545	CFM	440			550			660			-		
		Ps	0.048	0.130	0.230	0.150	0.155	0.255	0.185	0.285	0.420			
		Throw	60	50	40	75	57	47	90	70	55			
		NC	15	21	37	25	25	33	26	33	40			
12	Duct Area = 0.785	CFM	630			790			950			1100		
		Ps	0.100	0.195	0.320	0.098	0.167	0.210	0.152	0.210	0.380	0.165	0.280	0.460
		Throw	75	55	45	90	80	60	100	100	80	105	105	90
		NC	18	22	30	22	32	41	31	38	46	35	45	50
14	Duct Area = 1.069	CFM	860			1070			1290			1500		
		Ps	0.060	0.100	0.180	0.080	0.120	0.220	0.110	0.170	0.300	0.180	0.260	0.470
		Throw	81	65	51	102	84	60	106	92	75	110	100	90
		NC	16	29	34	24	30	41	29	34	33	37	45	48
16	Duct Area = 0.201	CFM	1120			1400			1680			1960		
		Ps	0.050	0.080	0.160	0.080	0.130	0.170	0.110	0.210	0.350	0.170	0.270	0.400
		Throw	90	82	65	105	100	80	120	110	100	100	82	60
		NC	19	27	34	24	33	43	32	41	48	37	45	48
20	Duct Area = 0.202	CFM	1750			2190			2620			3060		
		Ps	0.040	0.120	0.200	0.070	0.200	0.330	0.100	0.270	0.440	0.140	0.370	0.600
		Throw	109	88	61	139	110	76	172	131	89	201	153	102
		NC	19	27	39	26	35	47	32	40	52	38	47	59
24	Duct Area = 0.203	CFM	2520			3150			3780			4400		
		Ps	0.030	0.130	0.220	0.060	0.200	0.340	0.090	0.290	0.500	0.110	0.380	0.640
		Throw	119	97	68	146	118	85	186	142	107	215	180	127
		NC	20	26	41	23	34	49	29	41	50	34	46	60

Notes:

1. The throw values are based on a 50 fpm terminal velocity.
2. Dash "-" indicates static pressure is less than 0.01 in. wc
3. Dash "-" indicates NC value less than 20.
4. NC level is based on 10dB room attenuation (Re: 10^{-12} watts) with one diffuser operating