

ENGINEERING DATA

PP, APP Series Square Neck

Neck Velocity	300	400	500	600	700	800	900	1200	1400
Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122

12x12 Module

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	75	100	125	150	175	200	250	300	350
				Total Pressure	0.017	0.029	0.046	0.066	0.090	0.118	0.184
6x6	0.25	4-way - Horizontal Throw	1-2-4	1-3-5	2-3-7	3-4-8	3-5-9	3-5-10	4-7-12	5-8-13	6-9-15
		3-way - Horizontal Throw	1-3-5	2-3-7	3-4-9	3-5-10	4-6-12	5-7-14	6-9-16	7-10-17	8-12-19
		2-way - Horizontal Throw	1-2-6	2-4-8	3-5-10	4-6-12	5-7-14	5-8-16	7-10-19	8-12-21	9-14-22
		1-way - Horizontal Throw	1-2-8	2-4-11	3-6-14	4-8-17	5-10-19	7-11-20	9-14-22	11-17-24	13-19-26
		Noise Criteria	-	-	13	19	23	28	35	41	45

24x12 Module

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	75	100	125	150	175	200	250	300	350
				Total Pressure	0.017	0.029	0.046	0.066	0.090	0.118	0.184
6x6	0.25	4-way - Horizontal Throw	1-2-4	1-3-5	2-3-7	3-4-8	3-5-9	3-5-10	4-7-12	5-8-13	6-9-15
		3-way - Horizontal Throw	1-3-5	2-3-7	3-4-9	3-5-10	4-6-12	5-7-14	6-9-16	7-10-17	8-12-19
		2-way - Horizontal Throw	1-2-6	2-4-8	3-5-10	4-6-12	5-7-14	5-8-16	7-10-19	8-12-21	9-14-22
		1-way - Horizontal Throw	1-2-8	2-4-11	3-6-14	4-8-17	5-10-19	7-11-20	9-14-22	11-17-24	13-19-26
		Noise Criteria	-	-	13	19	23	28	35	41	45

16x16 Module

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	75	100	125	150	175	200	250	300	350
				Total Pressure	0.017	0.029	0.046	0.066	0.090	0.118	0.184
6x6	0.25	4-way - Horizontal Throw	1-2-4	2-3-6	2-3-7	3-4-8	3-5-10	4-6-11	5-7-12	6-8-13	7-10-15
		3-way - Horizontal Throw	1-2-5	2-4-7	3-5-9	4-5-11	4-6-13	5-7-14	6-9-16	7-11-17	9-13-19
		2-way - Horizontal Throw	1-2-6	2-4-9	3-5-11	4-6-13	5-8-15	6-9-17	7-11-19	9-13-21	10-15-22
		1-way - Horizontal Throw	1-2-8	2-5-12	3-7-15	5-9-17	7-10-19	8-12-20	10-15-22	12-17-24	14-19-26
		Noise Criteria	-	-	13	19	23	28	35	41	45

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	133	178	222	267	311	256	444	533	622
				Total Pressure	0.019	0.034	0.052	0.075	0.103	0.134	0.210
8x8	0.69	4-way - Horizontal Throw	1-3-6	2-4-7	3-5-9	4-6-11	4-7-13	5-7-15	6-9-16	7-11-18	9-13-19
		3-way - Horizontal Throw	2-4-7	3-5-10	4-6-12	5-7-15	6-9-17	6-10-19	8-12-21	10-15-23	11-17-25
		2-way - Horizontal Throw	2-4-9	3-6-11	5-7-14	6-9-17	7-10-20	8-11-23	10-14-25	11-17-28	13-20-30
		1-way - Horizontal Throw	2-4-12	3-7-16	5-10-20	7-12-23	9-14-25	10-16-27	13-20-30	16-23-33	15-25-35
		Noise Criteria	-	12	19	25	29	34	41	47	51

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Unit of measure: Total Pressure = in. wc; Throw = ft. at 150 fpm, 100 fpm and 50 fpm terminal velocity.
4. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 thru 4000 Hz octave bands.
5. Flow hoods are recommended for system balancing.
6. Dash (-) in space denotes an NC value of less than 10

ENGINEERING DATA

*PP, APP Series
Square Neck*

Neck Velocity	300	400	500	600	700	800	900	1200	1400
Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122

20x20 Module

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	75	100	125	150	175	200	250	300	350
		Total Pressure	0.017	0.029	0.046	0.066	0.090	0.118	0.184	0.265	0.360
6x6	0.25	4-way - Horizontal Throw	1-2-4	2-3-6	2-3-7	3-4-8	3-5-10	4-6-11	5-7-12	6-8-13	7-10-15
		3-way - Horizontal Throw	1-3-5	2-4-7	3-5-9	4-5-11	4-6-13	5-7-14	6-9-16	7-11-17	9-13-19
		2-way - Horizontal Throw	1-3-6	2-4-9	3-5-11	4-6-13	5-8-15	6-9-17	7-11-19	9-13-21	10-15-22
		1-way - Horizontal Throw	1-3-9	2-5-12	3-7-15	5-9-17	7-10-19	8-12-20	10-15-22	12-17-24	14-19-26
		Noise Criteria	-	-	13	19	23	28	35	41	45



Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	133	178	222	267	311	356	444	533	622
		Total Pressure	0.019	0.034	0.052	0.075	0.103	0.134	0.210	0.302	0.411
8x8	0.44	4-way - Horizontal Throw	1-3-6	2-4-7	3-5-9	4-6-11	4-7-13	5-7-15	6-9-16	7-11-18	9-13-19
		3-way - Horizontal Throw	2-4-7	3-5-10	4-6-12	5-7-15	6-9-17	6-10-19	8-12-21	10-15-23	11-17-25
		2-way - Horizontal Throw	2-4-9	3-6-11	5-7-14	6-9-17	7-10-20	8-11-23	10-14-25	11-17-28	13-20-30
		1-way - Horizontal Throw	2-4-12	3-7-16	5-10-20	7-12-23	9-14-25	10-16-28	13-20-30	16-23-33	18-25-35
		Noise Criteria	-	12	19	25	29	34	41	47	51

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	208	278	347	417	486	556	694	833	972
		Total Pressure	0.022	0.039	0.061	0.087	0.119	0.155	0.243	0.349	0.476
10x10	0.69	4-way - Horizontal Throw	2-3-7	3-5-9	4-6-12	5-7-14	5-8-16	6-9-18	8-12-20	9-14-22	11-16-24
		3-way - Horizontal Throw	2-5-9	4-6-12	5-8-15	6-9-18	7-11-21	8-12-23	10-15-26	12-18-29	14-21-31
		2-way - Horizontal Throw	2-5-11	4-7-14	6-9-18	7-11-21	8-13-25	10-14-28	12-18-32	14-21-35	17-25-37
		1-way - Horizontal Throw	2-5-15	4-8-20	6-12-25	8-15-29	11-17-31	13-20-33	16-25-37	10-29-41	23-31-44
		Noise Criteria	-	16	23	29	34	38	45	51	56

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Unit of measure: Total Pressure = in. wc; Throw = ft. at 150 fpm, 100 fpm and 50 fpm terminal velocity.
4. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 thru 4000 Hz octave bands.
5. Flow hoods are recommended for system balancing.
6. Dash (-) in space denotes an NC value of less than 10

ENGINEERING DATA

PP, APP Series
Square Neck

Neck Velocity	300	400	500	600	700	800	900	1200	1400
Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122

24x24 Module



Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		75	100	125	150	175	200	250	300	350	
6x6	0.25	Total Pressure	0.017	0.029	0.046	0.066	0.090	0.118	0.184	0.265	0.360
		4-way - Horizontal Throw	1-2-4	2-3-6	2-3-7	3-4-8	3-5-10	4-6-11	5-7-12	6-8-13	7-10-15
		3-way - Horizontal Throw	1-3-5	2-4-7	3-5-9	4-5-11	4-6-13	5-7-14	6-9-16	7-11-17	9-13-19
		2-way - Horizontal Throw	1-3-6	2-4-9	3-5-11	4-6-13	5-8-15	6-9-17	7-11-19	9-13-21	10-15-22
		1-way - Horizontal Throw	1-3-9	2-5-12	3-7-15	5-9-17	7-10-19	8-12-20	10-15-22	12-17-24	14-19-26
		Noise Criteria	-	-	13	19	23	28	35	41	45

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		133	178	222	267	311	356	444	533	622	
8x8	0.44	Total Pressure	0.019	0.034	0.052	0.075	0.103	0.134	0.210	0.302	0.411
		4-way - Horizontal Throw	1-3-6	2-4-7	3-5-9	4-6-11	4-7-13	5-7-15	6-9-16	7-11-18	9-13-35
		3-way - Horizontal Throw	2-4-7	3-5-10	4-6-12	5-7-15	6-9-17	6-10-19	8-12-21	10-15-23	13-20-30
		2-way - Horizontal Throw	2-4-9	3-6-11	5-7-14	6-9-17	7-10-20	8-11-23	10-14-25	11-17-28	11-17-25
		1-way - Horizontal Throw	2-4-12	3-7-16	5-10-20	7-12-23	9-14-25	10-16-27	13-20-30	16-23-33	9-13-19
		Noise Criteria	-	12	19	25	29	34	41	47	51

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		208	278	347	417	486	556	694	833	972	
10x10	0.69	Total Pressure	0.022	0.039	0.061	0.087	0.119	0.155	0.243	0.349	0.476
		4-way - Horizontal Throw	2-3-7	3-5-9	4-6-12	5-7-14	5-8-16	6-9-18	8-12-20	9-14-22	11-16-24
		3-way - Horizontal Throw	2-5-9	4-6-12	5-8-15	6-9-18	7-11-21	8-12-23	10-15-26	12-18-29	14-21-31
		2-way - Horizontal Throw	2-5-11	4-7-14	6-9-18	7-11-21	8-13-25	10-14-28	12-18-32	14-21-35	17-25-37
		1-way - Horizontal Throw	2-5-15	4-8-20	6-12-25	8-15-29	11-17-31	13-20-33	16-25-37	20-29-41	23-31-44
		Noise Criteria	-	16	23	29	34	38	45	51	56

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		300	400	500	600	700	800	1000	1200	1400	
12x12	1.00	Total Pressure	0.033	0.059	0.092	0.133	0.181	0.236	0.369	0.531	0.723
		4-way - Horizontal Throw	4-6-12	6-8-16	7-10-17	8-12-19	10-15-21	11-16-22	14-17-25	16-19-27	17-21-29
		3-way - Horizontal Throw	5-8-16	7-11-20	9-14-22	11-16-24	13-19-26	14-20-28	18-22-31	20-24-34	21-26-37
		2-way - Horizontal Throw	6-10-19	9-13-24	11-16-27	13-19-29	15-22-32	17-24-34	21-27-38	24-29-42	26-32-45
		1-way - Horizontal Throw	8-13-24	12-18-28	15-22-32	18-24-35	20-26-37	23-28-40	26-32-45	28-35-49	31-37-53
		Noise Criteria	-	20	27	33	38	42	49	55	60

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Unit of measure: Total Pressure = in. wc; Throw = ft. at 150 fpm, 100 fpm and 50 fpm terminal velocity.
4. NC is based upon 10dB room absorption (Re: 10⁻¹² watts) evaluated at 125 thru 4000 Hz octave bands.
5. Flow hoods are recommended for system balancing.
6. Dash (-) in space denotes an NC value of less than 10

ENGINEERING DATA

*PP, APP Series
Round Neck*

Neck Velocity	300	400	500	600	700	800	900	1200	1400
Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122

12x12 Module

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	59	79	98	118	137	157	196	236	275
		Total Pressure	0.016	0.028	0.044	0.064	0.087	0.113	0.177	0.255	0.347
6	0.20	4-way - Horizontal	1-2-3	1-2-5	2-3-6	2-3-7	3-4-8	3-5-9	4-6-11	5-7-12	5-8-13
		3-way - Horizontal	1-2-5	2-3-6	3-4-8	3-5-9	4-5-11	4-6-12	5-8-14	6-9-15	7-11-16
		2-way - Horizontal	1-2-5	2-4-7	2-4-9	4-5-11	4-6-12	5-7-14	6-9-17	7-11-18	8-12-20
		1-way - Horizontal	1-2-7	2-4-10	2-6-12	4-7-15	5-9-17	6-10-18	8-12-20	10-15-22	11-17-23
		Noise Criteria	-	-	-	16	21	25	32	38	43



24x12 Module

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	59	79	98	118	137	157	196	236	275
		Total Pressure	0.016	0.028	0.044	0.064	0.087	0.113	0.177	0.255	0.347
6	0.20	4-way - Horizontal	1-2-3	1-2-5	2-3-6	2-3-7	3-4-8	3-5-9	4-6-11	5-7-12	5-8-13
		3-way - Horizontal	1-2-5	2-3-6	3-4-8	3-5-9	4-5-11	4-6-12	5-8-14	6-9-15	7-11-16
		2-way - Horizontal	1-2-5	2-4-7	2-4-9	4-5-11	4-6-12	5-7-14	6-9-17	7-11-18	8-12-20
		1-way - Horizontal	1-2-7	2-4-10	2-6-12	4-7-15	5-9-17	6-10-18	8-12-20	10-15-22	11-17-23
		Noise Criteria	-	-	-	16	21	25	32	38	43

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Unit of measure: Total Pressure = in. wc; Throw = ft. at 150 fpm, 100 fpm and 50 fpm terminal velocity.
4. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 thru 4000 Hz octave bands.
5. Flow hoods are recommended for system balancing.
6. Dash (-) in space denotes an NC value of less than 10

ENGINEERING DATA

PP, APP Series Round Neck

Neck Velocity	300	400	500	600	700	800	900	1200	1400
Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122

16x16 Module



Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		Total Pressure	59	79	98	118	137	157	196	236	275
6	0.20	4-way - Horizontal	1-2-4	2-2-5	2-3-6	2-4-7	3-4-9	3-5-10	4-6-11	5-7-12	6-9-13
		3-way - Horizontal	1-2-5	2-3-6	3-4-8	3-5-10	4-6-11	4-6-12	5-8-14	6-10-15	8-11-16
		2-way - Horizontal	1-2-6	2-4-8	3-5-10	4-6-11	4-7-13	5-8-15	6-10-17	8-11-18	9-13-20
		1-way - Horizontal	1-2-8	2-4-10	3-7-13	4-8-15	6-9-17	7-10-18	9-13-20	10-15-22	12-17-23
		Noise Criteria	-	-	-	16	21	25	32	38	43

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		Total Pressure	105	140	175	209	244	279	349	419	489
8	0.35	4-way - Horizontal	1-2-5	2-3-7	3-4-8	3-5-10	4-6-12	4-7-13	5-8-15	7-10-16	8-12-17
		3-way - Horizontal	2-3-6	3-4-9	4-5-11	4-6-13	5-8-15	6-9-17	7-11-18	9-13-20	10-15-22
		2-way - Horizontal	1-3-8	3-5-10	4-6-13	5-8-15	6-9-18	7-10-20	8-13-22	10-15-25	12-18-27
		1-way - Horizontal	1-3-10	3-6-14	4-9-17	6-10-20	8-12-22	9-14-24	12-17-26	14-20-19	16-22-31
		Noise Criteria	-	-	16	22	27	31	38	44	49

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		Total Pressure	164	218	273	327	382	436	545	654	764
10	0.55	4-way - Horizontal	1-3-6	3-4-8	3-5-10	4-6-12	5-7-14	5-8-16	7-10-18	8-12-20	10-14-21
		3-way - Horizontal	2-4-8	4-5-11	4-7-13	5-8-16	6-9-19	7-11-21	9-13-23	11-16-25	13-19-27
		2-way - Horizontal	2-4-10	3-6-13	5-8-16	6-10-19	7-11-22	8-13-25	11-16-28	13-19-31	15-22-33
		1-way - Horizontal	2-4-13	3-7-13	5-11-22	7-13-26	10-15-28	12-17-30	15-22-33	17-26-36	20-28-39
		Noise Criteria	-	14	21	27	32	36	43	49	54

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Unit of measure: Total Pressure = in. wc; Throw = ft. at 150 fpm, 100 fpm and 50 fpm terminal velocity.
4. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 thru 4000 Hz octave bands.
5. Flow hoods are recommended for system balancing.
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ENGINEERING DATA

*PP, APP Series
Round Neck*

Neck Velocity	300	400	500	600	700	800	900	1200	1400
Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122

20x20 Module



Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		Total Pressure	59	79	98	118	137	157	196	236	275
6	0.20	4-way - Horizontal	1-2-4	2-2-5	2-3-6	2-4-7	3-4-9	3-5-10	4-6-11	5-7-12	6-9-13
		3-way - Horizontal	1-2-5	2-3-6	3-4-8	3-5-10	4-6-11	4-6-12	5-8-14	6-10-15	8-11-16
		2-way - Horizontal	1-2-6	2-4-8	3-5-10	4-6-11	4-7-13	5-8-15	6-10-17	8-11-18	9-13-20
		1-way - Horizontal	1-2-8	2-4-10	3-7-13	4-8-15	6-9-17	7-10-18	9-13-20	10-15-22	12-17-23
		Noise Criteria	-	-	-	16	21	25	32	38	43

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		Total Pressure	105	140	175	209	244	279	349	419	489
8	0.35	4-way - Horizontal	1-2-5	2-3-7	3-4-8	3-5-10	4-6-12	4-7-13	5-8-15	7-10-16	8-12-17
		3-way - Horizontal	2-3-6	3-4-9	4-5-11	4-6-13	5-8-15	6-9-17	7-11-18	9-13-20	10-15-22
		2-way - Horizontal	1-3-8	3-5-10	4-6-13	5-8-15	6-9-18	7-10-20	8-13-22	10-15-25	12-18-27
		1-way - Horizontal	1-3-10	3-6-14	4-9-17	6-10-20	8-12-22	9-14-24	12-17-26	14-20-29	16-22-31
		Noise Criteria	-	-	16	22	27	31	38	44	49

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		Total Pressure	164	218	273	327	382	436	545	654	764
10	0.55	4-way - Horizontal	1-3-6	3-4-8	3-5-10	4-6-12	5-7-14	5-8-16	7-10-18	8-12-20	10-14-21
		3-way - Horizontal	2-4-8	4-5-11	4-7-13	5-8-16	6-9-19	7-11-21	9-13-23	13-19-31	13-19-27
		2-way - Horizontal	2-4-10	3-6-13	5-8-16	6-10-19	7-11-22	8-13-25	11-16-28	13-19-31	15-22-33
		1-way - Horizontal	2-4-13	3-7-17	5-11-22	7-13-26	10-15-28	12-17-30	15-22-33	17-26-36	20-28-39
		Noise Criteria	-	-	21	27	32	36	43	49	54

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		Total Pressure	236	314	393	471	550	628	785	942	1100
12	0.79	4-way - Horizontal	4-6-11	5-7-14	6-9-15	7-11-17	9-13-18	10-14-19	12-15-22	14-17-24	15-18-26
		3-way - Horizontal	5-7-14	6-10-18	8-12-20	10-14-21	11-16-23	13-18-25	16-20-28	18-21-30	19-23-33
		2-way - Horizontal	6-8-17	8-11-21	9-14-24	11-17-26	13-20-28	15-21-30	19-24-34	21-26-37	23-28-40
		1-way - Horizontal	7-12-22	10-16-25	13-19-28	16-22-31	18-23-33	20-25-35	23-28-40	25-31-43	27-33-47
		Noise Criteria	-	18	25	30	35	40	47	52	57

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)									
		Total Pressure	321	428	535	641	748	855	1069	1283	1497
14	1.07	4-way - Horizontal	4-6-13	6-9-16	7-11-18	9-13-20	10-15-21	11-16-23	14-18-25	16-20-28	17-21-30
		3-way - Horizontal	6-8-17	7-11-20	9-14-23	11-17-25	13-19-27	15-20-29	19-23-32	20-25-35	22-27-38
		2-way - Horizontal	7-10-20	9-13-25	11-17-28	13-20-30	15-23-33	18-25-35	22-28-39	25-30-43	27-33-47
		1-way - Horizontal	8-14-25	12-18-29	15-23-33	18-25-36	21-27-39	24-29-41	27-33-46	29-36-51	32-39-55
		Noise Criteria	-	21	28	34	38	43	50	56	60

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Unit of measure: Total Pressure = in. wc; Throw = ft. at 150 fpm, 100 fpm and 50 fpm terminal velocity.
4. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 thru 4000 Hz octave bands.
5. Flow hoods are recommended for system balancing.
6. Dash (-) in space denotes an NC value of less than 10

ENGINEERING DATA

PP, APP Series Round Neck

Neck Velocity	300	400	500	600	700	800	900	1200	1400
Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122

24x24 Module



Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	59	79	98	118	137	157	196	236	275
6	0.20	Total Pressure	0.016	0.028	0.044	0.064	0.087	0.113	0.177	0.255	0.347
		4-way - Horizontal	1-2-4	2-2-5	2-3-6	2-4-7	3-4-9	3-5-10	4-6-11	5-7-12	6-9-13
		3-way - Horizontal	1-2-5	2-3-6	3-4-8	3-5-10	4-6-11	4-6-12	5-8-14	6-10-15	8-11-16
		2-way - Horizontal	1-2-6	2-4-8	3-5-10	4-6-11	4-7-13	5-8-15	6-10-17	8-11-18	9-13-20
		1-way - Horizontal	1-2-8	2-4-10	3-7-13	4-8-15	6-9-17	7-10-18	9-13-20	10-15-22	12-17-23
		Noise Criteria	-	-	-	16	21	25	32	38	43

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	105	140	175	209	244	279	349	419	489
8	0.35	Total Pressure	0.018	0.032	0.049	0.071	0.097	0.126	0.197	0.284	0.386
		4-way - Horizontal	1-2-5	2-3-7	3-4-8	3-5-10	4-6-12	4-7-13	5-8-15	7-10-16	8-12-17
		3-way - Horizontal	2-3-6	3-4-9	4-5-11	4-6-13	5-8-15	6-9-17	7-11-18	9-13-20	10-15-22
		2-way - Horizontal	1-3-8	3-5-10	4-6-13	5-8-15	6-9-18	7-10-20	8-13-22	10-15-25	12-18-27
		1-way - Horizontal	1-3-10	3-6-14	4-9-17	6-10-20	8-12-22	9-14-24	12-17-26	14-20-29	16-22-31
		Noise Criteria	-	-	16	22	27	31	38	44	49

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	164	218	273	327	382	436	545	654	764
10	0.55	Total Pressure	0.020	0.036	0.056	0.080	0.109	0.143	0.223	0.321	0.437
		4-way - Horizontal	1-3-6	3-4-8	3-5-10	4-6-12	5-7-14	5-8-16	7-10-18	8-12-20	10-14-21
		3-way - Horizontal	2-4-8	4-5-11	4-7-13	5-8-16	6-9-19	7-11-21	9-13-23	11-16-25	13-19-27
		2-way - Horizontal	2-4-10	3-6-13	5-8-16	6-10-19	7-11-22	8-13-25	11-16-28	13-19-31	15-22-33
		1-way - Horizontal	2-4-13	3-7-17	5-11-22	7-13-26	10-15-28	12-17-30	15-22-33	17-26-36	20-28-39
		Noise Criteria	-	-	21	27	32	36	43	49	54

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	236	314	393	471	550	628	785	942	1100
12	0.79	Total Pressure	0.032	0.057	0.089	0.128	0.174	0.227	0.354	0.510	0.695
		4-way - Horizontal	4-6-11	5-7-14	6-9-15	7-11-17	9-13-18	10-14-19	12-15-22	14-17-24	15-18-26
		3-way - Horizontal	5-7-14	6-10-18	8-12-20	10-14-21	11-16-23	13-18-25	16-20-28	18-21-30	19-23-33
		2-way - Horizontal	6-8-17	8-11-21	9-14-24	11-17-26	13-20-28	15-21-30	19-24-34	21-26-37	23-28-40
		1-way - Horizontal	7-12-22	10-16-25	13-19-28	16-22-31	18-23-33	20-25-35	23-28-40	25-31-43	27-33-47
		Noise Criteria	-	18	25	30	35	40	47	52	57

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	321	428	535	641	748	855	1069	1283	1497
14	1.07	Total Pressure	0.034	0.060	0.093	0.135	0.183	0.239	0.374	0.538	0.733
		4-way - Horizontal	4-6-13	6-9-16	7-11-18	9-13-20	10-15-21	11-16-23	14-18-25	16-20-28	17-21-30
		3-way - Horizontal	6-8-17	7-11-20	9-14-23	11-17-25	13-19-27	15-20-29	19-23-32	20-25-35	22-27-38
		2-way - Horizontal	7-10-20	9-13-25	11-17-28	13-20-30	15-23-33	18-25-35	22-28-39	25-30-43	27-33-47
		1-way - Horizontal	8-14-25	12-18-29	15-23-33	18-25-36	21-27-39	24-29-41	27-33-46	29-36-51	32-39-55
		Noise Criteria	-	21	28	34	38	43	50	56	60

Neck Size (in.)	Nominal Duct Area	Airflow (CFM)	419	559	698	838	977	1117	1396	1676	1955
16	1.40	Total Pressure	0.036	0.063	0.099	0.143	0.194	0.253	0.396	0.570	0.776
		4-way - Horizontal	5-7-15	7-10-18	8-12-21	10-15-23	11-17-24	13-18-26	16-21-29	18-23-32	20-24-34
		3-way - Horizontal	6-10-19	9-13-23	11-16-26	13-19-29	15-22-31	17-23-33	21-26-37	23-29-41	25-31-44
		2-way - Horizontal	8-11-23	10-15-28	13-19-32	15-23-35	18-26-38	20-28-40	25-32-45	28-35-49	31-38-53
		1-way - Horizontal	10-16-29	14-21-33	17-26-37	21-29-41	24-31-44	27-33-47	31-37-53	33-41-58	36-44-63
		Noise Criteria	-	23	31	36	41	45	53	58	63

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Unit of measure: Total Pressure = in. wc; Throw = ft. at 150 fpm, 100 fpm and 50 fpm terminal velocity.
4. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 thru 4000 Hz octave bands.
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