



# ENGINEERING DATA

## PR, APR Series: Square/Rectangular Neck

Neck Size (in.)	Nominal Duct Area	Neck Velocity	300	400	500	600	700	800	1000	1200	1400
		Negative Total Pressure	0.010	0.010	0.020	0.020	0.030	0.040	0.060	0.090	0.120
		Negative Static Pressure	0.030	0.060	0.090	0.130	0.170	0.230	0.360	0.510	0.700

### 12x12 Module

6x6	0.25	Airflow (CFM)	75	100	125	150	175	200	250	300	350
		Noise Criteria	-	-	12	17	21	24	30	35	39

10x10	0.69	Airflow (CFM)	208	278	347	417	486	556	694	833	972
		Noise Criteria	15	23	29	33	37	41	47	51	55

### 24x12 Module

22x10	1.53	Airflow (CFM)	458	611	764	917	1069	1222	1528	1833	2139
		Noise Criteria	-	-	-	14	18	21	27	32	36

### 16x16 Module

14x14	1.36	Airflow (CFM)	408	544	681	817	953	1089	1361	1633	1906
		Noise Criteria	-	-	12	17	21	24	30	35	39

### 20x20 Module

18x18	2.25	Airflow (CFM)	675	900	1125	1350	1575	1800	2250	2700	3150
		Noise Criteria	-	11	17	22	26	29	35	40	44

### 24x24 Module

6x6	0.25	Airflow (CFM)	75	100	125	150	175	200	250	300	350
		Noise Criteria	-	-	-	14	18	21	27	32	35

8x8	0.44	Airflow (CFM)	133	178	222	267	311	356	444	533	622
		Noise Criteria	-	-	14	18	22	25	31	36	39

10x10	0.69	Airflow (CFM)	208	278	347	417	486	556	694	833	972
		Noise Criteria	-	11	17	21	25	28	34	39	42

12x12	1.00	Airflow (CFM)	300	400	500	600	700	800	1000	1200	1400
		Noise Criteria	-	14	20	24	28	31	37	42	45

### 48x24 Module

46x22	0.25	Airflow (CFM)	2108	2811	3514	4217	4919	5622	7028	8433	9839
		Noise Criteria	12	20	25	30	34	38	43	48	52

### 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 10 dB room absorption (Re:  $10^{-12}$  watts) evaluated at 125 through 4000 Hz octave bands.
5. Dash "-" indicates NC value less than 10.
6. Flow hoods are recommended for system balancing.

Perforated  
Diffusers



# ENGINEERING DATA

## PR, APR Series: Round Neck

Neck Size (in.)	Nominal Duct Area	Neck Velocity	300	400	500	600	700	800	1000	1200	1400
		Negative Total Pressure	0.010	0.010	0.020	0.020	0.030	0.040	0.060	0.090	0.120
		Negative Static Pressure	0.030	0.060	0.090	0.130	0.170	0.230	0.360	0.510	0.700

### 12x12 Module

6	0.20	Airflow (CFM)	59	78	98	118	137	157	196	235	275
		Noise Criteria	-	-	-	14	18	21	27	32	36

### 24x24 Module

6	0.20	Airflow (CFM)	59	78	98	118	137	157	196	235	275
		Noise Criteria	-	-	-	13	17	20	26	31	34

8	0.35	Airflow (CFM)	105	140	174	209	244	279	349	419	488
		Noise Criteria	-	-	13	17	21	24	30	35	38

10	0.55	Airflow (CFM)	164	218	273	327	382	436	545	654	763
		Noise Criteria	-	-	16	20	24	27	33	38	41

12	0.79	Airflow (CFM)	235	314	392	471	549	628	785	942	1099
		Noise Criteria	-	12	17	22	26	29	34	39	43

14	1.07	Airflow (CFM)	320	427	534	641	748	855	1068	1282	1495
		Noise Criteria	-	15	21	25	29	32	38	43	46

16	1.4	Airflow (CFM)	419	558	698	837	977	1116	1395	1674	1953
		Noise Criteria	11	18	24	28	32	35	41	46	49

18x18	0.25	Airflow (CFM)	675	900	1125	1350	1575	1800	2250	2700	3150
		Noise Criteria	11	18	24	28	32	36	41	46	49

22x22	0.25	Airflow (CFM)	1008	1344	1681	2017	2353	2689	3361	4033	4706
		Noise Criteria	13	20	26	30	34	37	43	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 10 dB room absorption (Re:  $10^{-12}$  watts) evaluated at 125 through 4000 Hz octave bands.
5. Dash "-" indicates NC value less than 10.
6. Flow hoods are recommended for system balancing.