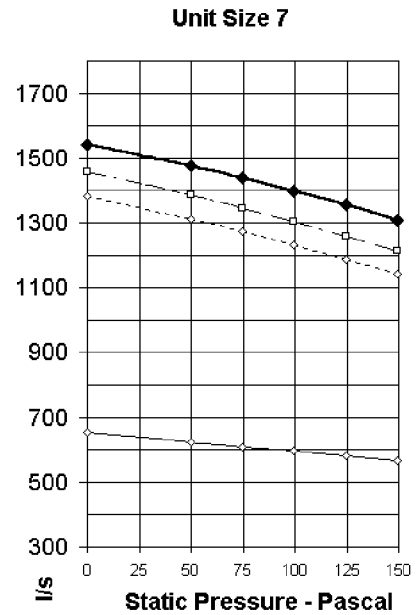
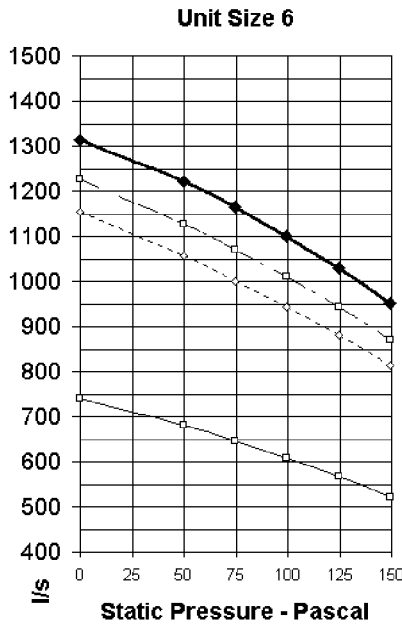
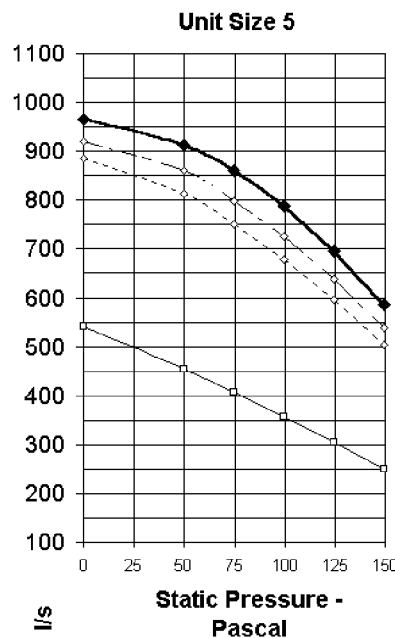
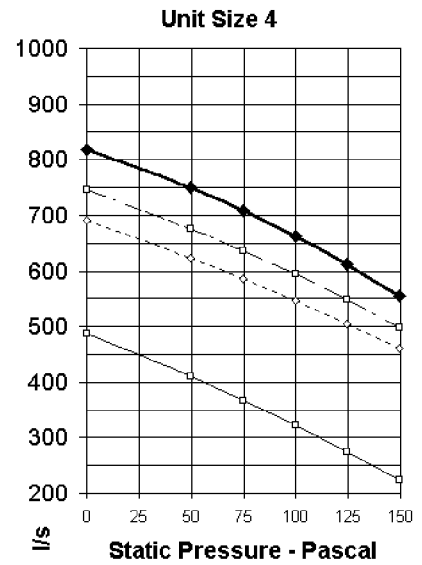
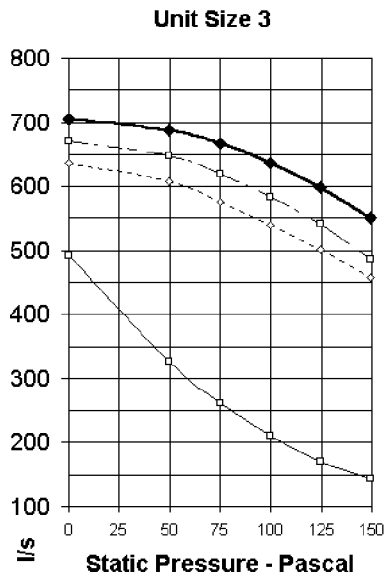
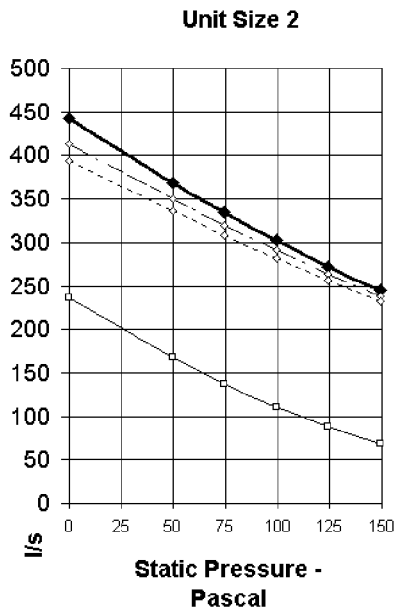


Models: PTQS, ATQS, DTQS ■ Air Flow vs. Downstream Static Pressure



◆ Maximum □ Minimum
 — 1 Row Coil - - - 2 Row Coil

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric

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Model: TQS

Hot Water Coil Data

6/17/1997

Unit Size	Rows	l/m	Head Loss Kpa.	Heat Capacity, KW								
				Air Flow, l/s								
				94	130	165	201	236	271	307	342	378
2	One Row	4	0.9	3.5	4.0	4.3	4.6	4.8	5.0	5.3	5.5	5.7
		8	2.7	3.8	4.4	4.9	5.2	5.6	5.8	6.2	6.5	6.8
		15	9.6	4.0	4.7	5.2	5.7	6.0	6.4	6.8	7.2	7.5
		23	19.4	4.1	4.8	5.4	5.8	6.2	6.6	7.0	7.4	7.8
		Airside D PS, Pa.		2	2	3	5	7	9	11	13	16
2	Two Rows	8	6.0	5.3	6.6	7.7	8.6	9.4	10.2	10.8	11.4	12.0
		11	12.3	5.4	6.8	8.0	9.1	10.0	10.9	11.7	12.4	13.1
		19	30.2	5.5	7.1	8.3	9.5	10.6	11.6	12.5	13.3	14.1
		26	54.7	5.6	7.1	8.5	9.7	10.9	11.9	12.8	13.7	14.6
		Airside D PS, Pa.		2	4	7	10	13	16	20	25	30

Unit Size	Rows	l/m	Head Loss Kpa.	Air Flow, l/s								
				236	283	330	378	425	472	519	566	613
				3	One Row	4	0.9	4.8	5.1	5.4	5.7	5.9
8	2.7	5.6	5.9			6.4	6.8	7.2	7.5	7.8	8.1	8.3
15	9.6	6.0	6.5			7.0	7.5	8.0	8.4	8.8	9.2	9.5
23	19.4	6.2	6.7			7.3	7.8	8.3	8.8	9.2	9.6	10.0
		Airside D PS, Pa.		7	9	12	16	19	23	27	32	37
3	Two Rows	8	6.0	9.4	10.4	11.2	12.0	12.6	13.2	13.7	14.2	14.6
		11	12.3	10.0	11.2	12.2	13.1	13.9	14.6	15.3	15.8	16.4
		19	30.2	10.6	11.9	13.0	14.1	15.0	15.9	16.7	17.5	18.2
		26	54.7	10.9	12.2	13.4	14.6	15.6	16.5	17.5	18.3	19.1
		Airside D PS, Pa.		13	18	23	30	37	44	52	61	70

Unit Size	Rows	l/m	Head Loss Kpa.	Air Flow, l/s								
				378	425	472	519	566	613	661	708	755
				4	One Row	4	0.9	5.7	5.9	6.2	6.4	6.6
8	2.7	6.8	7.2			7.5	7.8	8.1	8.3	8.6	8.8	9.0
15	9.6	7.5	8.0			8.4	8.8	9.2	9.5	9.8	10.1	10.4
23	19.4	7.8	8.3			8.8	9.2	9.6	10.0	10.3	10.7	11.0
		Airside D PS, Pa.		16	19	23	27	32	37	42	48	53
4	Two Rows	8	6.0	12.0	12.6	13.2	13.7	14.2	14.6	15.0	15.4	15.7
		11	12.3	13.1	13.9	14.6	15.3	15.8	16.4	17.0	17.4	17.9
		19	30.2	14.1	15.0	15.9	16.7	17.5	18.2	18.9	19.5	20.1
		26	54.7	14.6	15.6	16.5	17.5	18.3	19.1	19.8	20.5	21.1
		Airside D PS, Pa.		30	37	44	52	61	70	80	90	101

Unit Size	Rows	l/m	Head Loss Kpa.	Air Flow, l/s								
				330	396	462	529	595	661	727	793	859
				5	One Row	4	1.2	7.2	7.5	7.8	8.1	8.5
8	3.9	8.6	9.1			9.5	10.1	10.6	11.1	11.5	11.9	12.3
15	12.9	9.5	10.2			10.6	11.4	12.1	12.7	13.3	13.9	14.4
23	26.3	9.8	10.6			11.1	11.9	12.7	13.4	14.1	14.7	15.3
		Airside D PS, Pa.		4	6	8	10	13	15	18	21	24
5	Two Rows	8	7.8	13.5	14.8	15.8	16.8	17.6	18.3	19.0	19.6	20.1
		11	16.1	14.6	16.2	17.6	18.8	19.9	20.9	21.8	22.6	23.4
		19	40.1	15.6	17.5	19.2	20.7	22.1	23.4	24.6	25.7	26.7
		26	72.6	16.1	18.1	19.9	21.6	23.2	24.6	25.9	27.2	28.3
		Airside D PS, Pa.		8	12	15	20	24	29	34	40	46

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric

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Unit Size	Rows	l/m	Head Loss Kpa.	Air Flow, l/s								
				613	680	746	812	878	944	1010	1076	1142
6	One Row	4	1.2	8.6	8.8	9.1	9.3	9.5	9.7	9.8	10.0	10.1
		8	3.9	10.7	11.2	11.6	12.0	12.4	12.7	13.0	13.3	13.6
		15	12.9	12.3	12.9	13.5	14.0	14.5	15.0	15.4	15.8	16.3
		23	26.3	12.9	13.6	14.2	14.9	15.4	16.0	16.5	17.0	17.4
		Airside D PS, Pa.		13	16	19	22	25	29	32	36	40
6	Two Rows	8	7.8	17.8	18.5	19.2	19.7	20.2	20.7	21.1	21.5	21.8
		11	16.1	20.2	21.2	22.1	22.9	23.6	24.3	24.9	25.5	26.0
		19	40.1	22.5	23.8	24.9	26.0	27.0	27.9	28.8	29.6	30.4
		26	72.6	23.6	25.0	26.3	27.5	28.6	29.7	30.8	31.7	32.6
		Airside D PS, Pa.		26	31	36	42	48	55	62	69	77

Unit Size	Rows	l/m	Head Loss Kpa.	Air Flow, l/s								
				708	790	873	956	1038	1121	1203	1286	1369
7	One Row	4	1.2	8.9	9.2	9.5	9.7	9.9	10.1	10.3	10.4	10.5
		8	3.9	11.4	11.9	12.3	12.7	13.1	13.5	13.8	14.1	14.4
		15	12.9	13.2	13.9	14.5	15.1	15.6	16.1	16.6	17.1	17.5
		23	26.3	13.9	14.6	15.4	16.1	16.7	17.3	17.8	18.3	18.8
		Airside D PS, Pa.		17	21	25	29	34	39	44	50	56
7	Two Rows	8	7.8	18.8	19.5	20.2	20.8	21.3	21.7	22.1	22.5	22.8
		11	16.1	21.6	22.6	23.5	24.4	25.2	25.9	26.5	27.1	27.6
		19	40.1	24.3	25.6	26.9	28.1	29.1	30.1	31.1	31.9	32.7
		26	72.6	25.6	27.1	28.6	29.9	31.2	32.3	33.4	34.4	35.4
		Airside D PS, Pa.		33	40	48	56	65	74	84	95	106

- Hot water capacities are in KWH.
- Data are based upon 82°C entering water and 18°C entering air.
- HD (head) loss is in KPa.
- Tables are based upon a temperature difference of 64°C between entering air and entering water. For other temperature differences, multiply KWH values by factors below.
- Air temperature rise, C = 71.3 x KWH / l/s air flow
- Water temperature drop = 1.258 x KWH / l/m water flow
- Connections: All coils are 16mm O.D. male solder
- Coils are not for steam application. Contact your TITUS representative for steam coil data.

Correction Factors For Other Entering Conditions:

Δ T	28	33	39	44	50	56	64	69	78	83
Factor	0.44	0.52	0.61	0.70	0.79	0.88	1.00	1.07	1.20	1.30

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Models: PTQS, ATQS, DTQS Radiated Sound Application Data NC Values

4/30/1997

Size	Inlet Size	Outlet P _s Pa.	Min. P _s Pa.	l/s	885-90 NC Levels			
					Fan Only	Inlet P _s Pa		
						124.5	250	500
2	8	62	9	142	-	-	-	22
			16	189	21	21	23	25
			25	236	25	25	26	30
			39	295	29	29	30	34
			57	354	33	33	33	37
3	10	62	18	283	20	20	23	26
			28	354	23	23	26	29
			50	472	26	28	30	34
			71	566	29	31	33	37
			97	661	31	33	36	39
4	12	62	18	401	24	27	27	29
			25	472	27	29	30	31
			30	519	28	31	31	34
			42	613	31	33	33	37
			56	708	34	34	37	41
5	12	62	14	425	22	22	25	28
			21	519	25	25	28	32
			30	613	28	28	32	36
			40	708	30	32	35	39
			57	849	33	36	39	43
6	14	62	24	708	29	29	32	35
			31	802	31	31	34	37
			43	944	34	34	37	41
			55	1062	37	37	40	44
			68	1180	39	39	42	46
7	16	62	21	849	34	34	36	39
			30	1015	36	36	40	42
			37	1133	38	38	42	44
			47	1274	41	41	44	47
			62	1463	44	44	47	49

ARI 885-90	Octave Bands					
	2	3	4	5	6	7
Env Effect	3	2	1	1	1	1
Ceiling Effect	9	10	12	14	15	15
Room Effect	9	10	11	12	13	14
Total	21	22	24	27	29	30

Application Data are based upon factors found in ARI Standard 885-90:

- Ceiling type - Mineral Fiber, 5/8"-35#/ Cu.Ft.
- Room Size - 3,000 Cu.Ft., 10 Ft. from the source
- Min. P_s is the minimum static pressure required to achieve rated airflow.
- Dash (-) in space denotes NC level less than 20.

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Models: PTQS , ATQS, DTQS Discharge Sound Application Data NC Values

4/30/1997

Size	Inlet Size	Outlet P _s Pa.	Min. P _s Pa.	I/s	885-90 NC Levels			
					Fan Only	Inlet P _s , Pa.		
						124.5	250	500
2	8	62	9	142	-	-	-	-
			16	189	-	-	-	-
			25	236	-	22	22	22
			39	295	22	24	25	25
			57	354	25	27	27	27
3	10	62	18	283	-	-	-	-
			28	354	-	-	-	-
			50	472	-	-	-	-
			71	566	-	-	20	21
			97	661	21	21	21	22
4	12	62	23	401	-	-	-	-
			31	472	-	-	-	-
			38	519	-	-	-	-
			53	613	-	-	-	-
			70	708	-	22	22	22
5	12	62	14	425	-	-	-	-
			21	519	-	-	-	-
			30	613	-	-	-	-
			40	708	-	-	20	21
			57	849	22	22	22	24
6	14	62	24	708	-	-	-	-
			31	802	-	-	-	-
			43	944	-	-	21	21
			55	1062	21	21	23	23
			68	1180	23	23	25	25
7	16	62	35	849	-	-	-	-
			50	1015	-	-	-	-
			63	1133	-	-	20	21
			79	1274	20	20	22	23
			104	1463	23	23	25	25

ARI 885-90	Octave Bands					
	2	3	4	5	6	7
Environ. Effect	3	2	1	1	1	1
End Reflection	11	6	2	0	0	0
Duct Lining	1	3	8	21	20	12
5', 8" Flex Duct	6	10	17	19	19	12
Room Effect	9	10	11	12	13	14
Total dB reduction*	30	31	39	53	53	39

- * Application Data are based upon factors found in ARI Standard 885-90, plus flow division, below:
- End Reflection - 8" Termination
 - Flex Type - Vinyl Core Flex
 - 5 Ft. of 1" thick duct lining
 - Room Size - 3,000 Cu.Ft., 10 Ft. from the source
 - Min. P_s is the minimum static pressure required to achieve rated airflow.
 - Dash (-) in space denotes NC level less than 20.

Additional dB reduction in sound resulting from flow division (per unit size):

Unit Size	Reduction (dB)
2	3
3	5
4	8
5	8
6	9
7	11

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Models: PTQS, ATQS, DTQS Radiated Sound Power Data

6/17/1997

Box Size	Inlet Size	Outlet Ps Pa.	l/s	Fan Only							Fan Plus 100% Primary																				
				Sound Power Octave Bands							125 Differential Pressure, Pa.							250 Differential Pressure, Pa.							500 Differential Pressure, Pa.						
				2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7				
2	8	62	142	57	51	47	40	33	27	59	51	47	40	36	32	60	51	50	43	39	37	62	55	52	45	44	43				
			189	61	56	51	44	38	32	61	56	51	44	38	35	63	56	53	46	42	39	65	60	55	48	46	44				
			236	63	59	54	47	41	37	63	59	54	47	41	37	66	59	54	49	44	41	68	63	57	51	48	45				
			295	66	63	57	50	45	41	66	63	57	50	45	41	69	63	57	52	47	43	71	67	60	54	50	46				
			354	69	66	59	53	48	45	69	66	59	53	48	45	72	66	59	53	48	45	73	69	62	56	51	48				
3	10	62	283	57	53	50	43	35	30	61	53	50	43	37	32	63	56	53	47	40	36	66	59	54	49	44	40				
			354	60	55	53	46	38	33	64	55	53	46	38	33	66	58	55	49	42	37	69	61	56	51	46	41				
			472	64	59	56	50	43	38	67	59	56	50	43	38	69	61	56	52	45	40	72	64	59	54	48	43				
			566	66	61	58	52	46	40	70	61	58	52	46	40	72	61	58	52	46	42	74	66	61	55	50	45				
			661	68	63	60	54	48	43	71	63	60	54	48	43	74	63	60	54	48	43	76	67	62	57	52	46				
4	12	62	401	61	58	54	48	40	32	61	60	56	50	43	35	64	61	57	50	45	38	67	63	57	51	47	42				
			472	64	60	56	50	43	36	64	60	59	52	45	38	67	63	59	53	47	40	70	65	59	53	48	44				
			519	66	62	58	52	45	38	66	62	60	52	47	40	69	64	60	54	48	42	72	66	61	55	50	45				
			613	69	64	60	55	48	42	69	64	62	55	48	42	72	66	62	57	50	45	75	68	63	57	52	47				
			708	71	67	63	57	51	45	71	67	63	57	51	45	74	67	64	59	51	47	78	69	65	59	54	49				
5	12	62	425	62	56	52	48	41	34	62	56	52	51	43	37	65	59	54	52	44	39	67	62	56	53	45	40				
			519	65	59	55	52	45	39	65	59	55	54	45	41	68	61	57	55	47	42	71	64	59	55	49	43				
			613	67	61	57	55	48	42	67	61	57	55	48	42	71	64	59	57	50	45	74	66	61	58	51	46				
			708	69	63	59	57	51	45	71	63	59	57	51	45	73	65	59	59	53	48	76	68	62	60	54	49				
			849	71	66	62	60	54	49	73	66	62	60	54	49	76	68	62	60	54	49	79	70	65	62	57	52				
6	14	62	708	65	62	57	52	46	40	67	62	57	54	48	42	70	65	59	55	49	43	73	67	61	55	50	45				
			802	67	64	59	55	49	43	70	64	59	56	49	43	72	67	61	57	51	46	75	69	63	58	52	47				
			944	70	67	61	58	52	47	72	67	61	58	52	47	75	69	63	60	54	49	78	71	65	60	55	50				
			1062	72	69	63	60	55	49	75	69	63	60	55	49	77	71	63	62	56	51	80	73	67	63	57	52				
			1180	74	71	65	62	57	51	76	71	65	62	57	51	79	71	65	64	57	51	82	74	68	64	59	54				
7	16	62	849	71	61	63	57	53	48	71	63	63	59	53	48	74	65	63	59	55	50	76	68	66	60	56	52				
			1015	74	65	65	60	56	51	74	65	65	60	56	51	77	68	65	62	58	54	79	71	68	63	59	55				
			1133	76	67	67	62	58	54	76	67	67	62	58	54	78	70	67	64	58	56	80	73	70	64	61	57				
			1274	78	69	68	64	61	56	78	69	68	64	61	56	80	72	68	64	61	56	82	74	71	66	63	59				
			1463	80	72	70	66	64	59	80	72	70	66	64	59	82	74	70	66	64	59	84	76	73	68	66	62				

ARI Certification Points

Fan Size	Fan l/s	Fan Only Sound Power						
		2	3	4	5	6	7	
2	236	63	59	54	47	41	37	
3	425	62	58	55	49	41	36	
4	613	69	64	60	55	48	42	
5	708	69	63	59	57	51	45	
6	944	70	67	61	58	52	47	
7	1133	76	67	67	62	58	54	

Unit Size	Prim. l/s	Min Ps	Fan Plus Primary @ 1.5" Inlet						
			2	3	4	5	6	7	
2-8	236	0.10	67	62	57	50	46	43	
3-10	425	0.16	70	61	57	52	46	41	
4-12	613	0.17	73	67	63	57	51	46	
5-12	708	0.16	75	67	62	59	53	48	
6-14	944	0.17	76	70	64	60	55	49	
7-16	1133	0.15	79	71	69	64	61	56	

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Models: PTQS, ATQS, DTQS Radiated Sound Power Data

6/17/1997

Box Size	Inlet Size	Outlet Ps Pa.	l/s	Fan Only							Fan Plus 100% Primary																				
				Sound Power Octave Bands							125 Differential Pressure, Pa.							250 Differential Pressure, Pa.							500 Differential Pressure, Pa.						
				2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7				
2	8	62	142	57	51	47	40	33	27	59	51	47	40	36	32	60	51	50	43	39	37	62	55	52	45	44	43				
			189	61	56	51	44	38	32	61	56	51	44	38	35	63	56	53	46	42	39	65	60	55	48	46	44				
			236	63	59	54	47	41	37	63	59	54	47	41	37	66	59	54	49	44	41	68	63	57	51	48	45				
			295	66	63	57	50	45	41	66	63	57	50	45	41	69	63	57	52	47	43	71	67	60	54	50	46				
			354	69	66	59	53	48	45	69	66	59	53	48	45	72	66	59	53	48	45	73	69	62	56	51	48				
3	10	62	283	57	53	50	43	35	30	61	53	50	43	37	32	63	56	53	47	40	36	66	59	54	49	44	40				
			354	60	55	53	46	38	33	64	55	53	46	38	33	66	58	55	49	42	37	69	61	56	51	46	41				
			472	64	59	56	50	43	38	67	59	56	50	43	38	69	61	56	52	45	40	72	64	59	54	48	43				
			566	66	61	58	52	46	40	70	61	58	52	46	40	72	61	58	52	46	42	74	66	61	55	50	45				
			661	68	63	60	54	48	43	71	63	60	54	48	43	74	63	60	54	48	43	76	67	62	57	52	46				
4	12	62	401	61	58	54	48	40	32	61	60	56	50	43	35	64	61	57	50	45	38	67	63	57	51	47	42				
			472	64	60	56	50	43	36	64	60	59	52	45	38	67	63	59	53	47	40	70	65	59	53	48	44				
			519	66	62	58	52	45	38	66	62	60	52	47	40	69	64	60	54	48	42	72	66	61	55	50	45				
			613	69	64	60	55	48	42	69	64	62	55	48	42	72	66	62	57	50	45	75	68	63	57	52	47				
			708	71	67	63	57	51	45	71	67	63	57	51	45	74	67	64	59	51	47	78	69	65	59	54	49				
5	12	62	425	62	56	52	48	41	34	62	56	52	51	43	37	65	59	54	52	44	39	67	62	56	53	45	40				
			519	65	59	55	52	45	39	65	59	55	54	45	41	68	61	57	55	47	42	71	64	59	55	49	43				
			613	67	61	57	55	48	42	67	61	57	55	48	42	71	64	59	57	50	45	74	66	61	58	51	46				
			708	69	63	59	57	51	45	71	63	59	57	51	45	73	65	59	59	53	48	76	68	62	60	54	49				
			849	71	66	62	60	54	49	73	66	62	60	54	49	76	68	62	60	54	49	79	70	65	62	57	52				
6	14	62	708	65	62	57	52	46	40	67	62	57	54	48	42	70	65	59	55	49	43	73	67	61	55	50	45				
			802	67	64	59	55	49	43	70	64	59	56	49	43	72	67	61	57	51	46	75	69	63	58	52	47				
			944	70	67	61	58	52	47	72	67	61	58	52	47	75	69	63	60	54	49	78	71	65	60	55	50				
			1062	72	69	63	60	55	49	75	69	63	60	55	49	77	71	63	62	56	51	80	73	67	63	57	52				
			1180	74	71	65	62	57	51	76	71	65	62	57	51	79	71	66	64	57	51	82	74	68	64	59	54				
7	16	62	849	71	61	63	57	53	48	71	63	63	59	53	48	74	65	63	59	55	50	76	68	66	60	56	52				
			1015	74	65	65	60	56	51	74	65	65	60	56	51	77	68	65	62	58	54	79	71	68	63	59	55				
			1133	76	67	67	62	58	54	76	67	67	62	58	54	78	70	67	64	58	56	80	73	70	64	61	57				
			1274	78	69	68	64	61	56	78	69	68	64	61	56	80	72	68	64	61	56	82	74	71	66	63	59				
			1463	80	72	70	66	64	59	80	72	70	66	64	59	82	74	70	66	64	59	84	76	73	68	66	62				

ARI Certification Points

Fan Size	Fan l/s	Fan Only Sound Power						
		2	3	4	5	6	7	
2	236	63	59	54	47	41	37	
3	425	62	58	55	49	41	36	
4	613	69	64	60	55	48	42	
5	708	69	63	59	57	51	45	
6	944	70	67	61	58	52	47	
7	1133	76	67	67	62	58	54	

Unit Size	Prim. l/s	Min Ps	Fan Plus Primary @ 1.5" Inlet						
			2	3	4	5	6	7	
2-8	236	0.10	67	62	57	50	46	43	
3-10	425	0.16	70	61	57	52	46	41	
4-12	613	0.17	73	67	63	57	51	46	
5-12	708	0.16	75	67	62	59	53	48	
6-14	944	0.17	76	70	64	60	55	49	
7-16	1133	0.15	79	71	69	64	61	56	

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 •

990 Security Row • Richardson, Texas 75081
Telephone 972-699-1030 • FAX 972-918-8880



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