

AHRI Directory of Certified Performance

Titus is a charter member company and current participant in the AHRI Directory of Certified Performance. This voluntary certification program was developed by participating manufacturers in conjunction with the former Air-Conditioning and Refrigeration Institute (ARI) in the 1990's. It is currently administrated by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). The purpose of this program is to provide for the independent verification of manufacturers' published performance data. Only participating products are authorized to bear the AHRI VAV Certification Mark. Certified data may be viewed and downloaded at www.ahrinet.org.

In order to participate in this program, member companies pay annual dues based on sales volume, submit published performance data for all applicable model types, and agree to provide a number of randomly selected product samples for annual rounds of independent testing at the manufacturers' expense. All verification testing is conducted in accordance with ASHRAE Standard 130 'Methods of Testing Air Terminal Units'. These tests are conducted to verify that a manufacturer's published certified ratings are within the test tolerances outlined in AHRI Standard 880 'Performance Rating of Air Terminals'. Any failure to demonstrate the certified performance is punished by additional testing requirements, mandatory performance re-rating, monetary penalties and possible expulsion from the Certified Directory.

Product samples provided for certification testing are standard production units with standard ½ in dual density fiberglass lining (unless otherwise specified) and no optional appurtenances such as add-on attenuators or heating/cooling coils. The certified ratings are measured at the standard operating points under the following test conditions:

PTQP, ATQP, DTQP, PFLP, AFLP, DFLP

- Rated primary airflow (cfm) – Based on an inlet velocity of 2000 fpm
- Rated fan only airflow (cfm) – Per manufacturer with 0.25 in wg of downstream pressure
- Rated fan power (watts) – Based on fan operating at the rated fan only airflow with 0.25 in wg of downstream pressure
- Rated Min ΔPs (in wg) – Minimum static pressure drop from the unit inlet to discharge at rated airflow with damper full open and the unit fan off
- Rated ΔPs (in wg) – A static pressure drop of 1.5 in wg from unit inlet to discharge with the unit fan off
- Rated sound power by octave band (dB, re 10⁻¹² watts) – Radiated and discharge sound performance conducted in a reverberation room that meets both the broadband and pure tone qualifications of AHRI Standard 220

PFLP, AFLP, DFLP / FAN ONLY

Unit Size	Fan CFM	Fan Watts	Discharge		Fan Only													
					Radiated Sound Power							Discharge Sound Power						
			H	W	2	3	4	5	6	7	2	3	4	5	6	7		
206	650	360	8.125	10	68	62	62	58	51	42	73	69	64	61	56	54		
208	650	360	8.125	10	68	62	62	58	51	42	73	69	64	61	56	54		
422	850	400	7.875	15.875	72	67	67	63	56	47	80	75	71	71	66	69		

PFLP, AFLP, DFLP / PRIMARY ONLY

Unit Size	Fan CFM	Fan Watts	Pri CFM	Min ΔPs	Primary Only													
					Radiated Sound Power							Discharge Sound Power						
					2	3	4	5	6	7	2	3	4	5	6	7		
206	400	0.27	400	0.27	65	60	55	48	42	36	69	64	57	50	46	39		
208	700	0.2	700	0.20	70	64	57	51	47	42	75	73	63	58	55	47		
422	1550	0.89	1550	0.89	72	65	62	62	54	52	79	73	68	65	60	56		

PTQP, ATQP, DTQP / FAN ONLY

Unit Size	Fan CFM	Fan Watts	Fan Only													
			Discharge		Radiated Sound Power					Discharge Sound Power						
			H	W	2	3	4	5	6	7	2	3	4	5	6	7
206	400	340	11	14	71	63	61	56	51	47	74	69	64	56	53	50
208	400	340	11	14	71	63	61	56	51	47	74	69	64	56	53	50
210	400	340	11	14	71	63	61	56	51	47	74	69	64	56	53	50
212	400	340	11	14	71	63	61	56	51	47	74	69	64	56	53	50
306	680	570	11	14	70	63	63	58	52	46	72	67	63	54	51	48
308	680	570	11	14	70	63	63	58	52	46	72	67	63	54	51	48
310	680	570	11	14	70	63	63	58	52	46	72	67	63	54	51	48
312	680	570	11	14	70	63	63	58	52	46	72	67	63	54	51	48
406	950	700	11	14	73	65	64	60	54	49	75	69	66	58	55	53
408	950	700	11	14	73	65	64	60	54	49	75	69	66	58	55	53
410	950	700	11	14	73	65	64	60	54	49	75	69	66	58	55	53
412	950	700	11	14	73	65	64	60	54	49	75	69	66	58	55	53
510	1375	860	14	16.5	76	69	66	62	59	56	76	69	64	58	58	56
512	1375	860	14	16.5	76	69	66	62	59	56	76	69	64	58	58	56
514	1375	860	14	16.5	76	69	66	62	59	56	76	69	64	58	58	56
516	1375	860	14	16.5	76	69	66	62	59	56	76	69	64	58	58	56
610	1600	1400	14	16.5	74	70	65	60	58	53	75	69	64	58	58	55
612	1600	1400	14	16.5	74	70	65	60	58	53	75	69	64	58	58	55
614	1600	1400	14	16.5	74	70	65	60	58	53	75	69	64	58	58	55
616	1600	1400	14	16.5	74	70	65	60	58	53	75	69	64	58	58	55

PTQP, ATQP, DTQP / PRIMARY ONLY

Unit Size	Fan CFM	Fan Watts	Pri CFM	Min ΔPs	Primary Only											
					Radiated Sound Power					Discharge Sound Power						
					2	3	4	5	6	7	2	3	4	5	6	7
206	400	0.32	400	0.32	61	57	54	45	41	37	72	60	51	45	43	41
208	700	0.24	700	0.24	67	62	56	49	42	35	76	66	54	51	47	43
210	1100	0.26	1100	0.26	71	63	58	54	45	35	80	66	58	54	50	45
212	1600	0.30	1600	0.30	75	65	61	55	46	37	82	68	61	55	52	47
306	400	0.32	400	0.32	61	57	54	45	41	37	72	60	51	45	43	41
308	700	0.24	700	0.24	67	62	56	49	42	35	76	66	54	51	47	43
310	1100	0.26	1100	0.26	71	63	58	54	45	35	80	66	58	54	50	45
312	1600	0.30	1600	0.30	75	65	61	55	46	37	82	68	61	55	52	47
406	400	0.32	400	0.32	61	57	54	45	41	37	72	60	51	45	43	41
408	700	0.24	700	0.24	67	62	56	49	42	35	76	66	54	51	47	43
410	1100	0.26	1100	0.26	71	63	58	54	45	35	80	66	58	54	50	45
412	1600	0.30	1600	0.30	75	65	61	55	46	37	82	68	61	55	52	47
510	1100	0.23	1100	0.23	71	62	54	50	45	38	81	61	56	52	48	44
512	1600	0.27	1600	0.27	72	64	57	52	47	40	81	62	59	53	50	46
514	2100	0.24	2100	0.24	75	67	62	55	51	45	82	65	61	55	53	48
516	2800	0.32	2800	0.32	74	66	61	55	50	43	83	68	63	57	54	49
610	1100	0.23	1100	0.23	71	62	54	50	45	38	81	61	56	52	48	44
612	1600	0.27	1600	0.27	72	64	57	52	47	40	81	62	59	53	50	46
614	2100	0.24	2100	0.24	75	67	62	55	51	45	82	65	61	55	53	48
616	2800	0.32	2800	0.32	74	66	61	55	50	43	83	68	63	57	54	49