

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 administered 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 1/2" 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:

PESV, EESV, AESV, DESV

- Rated airflow (cfm) – Based on an inlet velocity of 2000 fpm
- Rated Min ΔPs (in wg) – Minimum static pressure drop from the unit inlet to discharge at rated airflow with damper full open
- Rated ΔPs (in wg) – A static pressure drop of 1.5 in wg from unit inlet to discharge
- 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

PESV, AESV, DESV

Inlet Size	Rated CFM	Min ΔPs	Discharge		Radiated Sound Power							Discharge Sound Power						
			H	W	2	3	4	5	6	7	2	3	4	5	6	7		
04	150	0.04	8	12	60	57	46	41	40	37	76	67	60	54	54	49		
05	250	0.03	8	12	62	59	49	42	41	37	77	67	61	56	55	50		
06	400	0.13	8	12	63	61	52	44	42	38	78	72	65	60	57	52		
07	550	0.10	10	12	64	59	53	47	43	34	76	73	64	59	56	51		
08	700	0.02	10	12	65	60	53	47	47	45	79	74	64	58	56	52		
09	900	0.05	12.5	14	64	58	53	47	45	38	79	70	64	59	57	54		
10	1100	0.01	12.5	14	67	62	57	55	54	43	80	72	66	63	60	55		
12	1600	0.01	15	16	66	62	59	53	50	44	80	75	68	64	62	58		
14	2100	0.04	17.5	20	66	62	55	53	50	46	76	69	66	63	63	59		
16	2800	0.03	18	24	66	61	54	50	50	45	77	70	66	64	62	57		
40	5300	0.06	18	38	79	74	72	68	67	64	87	81	77	72	73	69		

