

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:

PEDV, PEDC, PMDV, PMDC, DEDV, DMDV

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

PMDV, PMDC, DMDV

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	0.41	5.875	5.875	59	56	47	41	39	36	73	65	57	51	47	40
05	250	0.42	5.875	5.875	63	59	50	43	40	35	76	69	61	54	50	46
06	400	0.76	5.875	5.875	63	59	51	47	47	43	80	71	62	56	53	48
07	550	0.47	8.125	7.125	66	61	53	46	45	42	79	72	63	55	55	52
08	700	0.50	8.125	7.125	67	61	53	47	45	44	79	72	64	56	55	52
09	900	0.25	11.125	10.125	71	62	52	45	42	35	79	69	63	54	53	49
10	1100	0.31	11.125	10.125	69	64	56	51	52	52	82	72	65	59	57	52
12	1600	0.51	13.125	11.125	73	66	60	58	60	58	84	74	68	60	61	57
14	2100	0.31	16.125	12.500	72	65	56	48	46	40	83	72	66	59	59	54
16	2800	0.39	16.125	15.125	76	66	60	52	49	45	85	75	68	63	63	58

PEDV, PEDC, DEDV WITH INTEGRAL ATTENUATOR & MIXING BAFFLE

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	0.41	5.875	5.875	54	53	44	38	36	31	74	65	57	50	50	45
05	250	0.47	5.875	5.875	56	54	47	40	39	35	74	67	59	51	53	50
06	400	0.91	5.875	5.875	55	57	49	43	41	37	73	67	60	54	55	54
07	550	0.53	8.125	7.125	63	57	51	45	45	41	74	69	60	53	56	54
08	700	0.55	8.125	7.125	61	59	50	43	41	40	73	71	61	55	57	56
09	900	0.23	11.125	10.125	66	57	50	45	46	45	78	68	59	55	58	57
10	1100	0.38	11.125	10.125	64	57	49	43	42	41	79	69	61	57	59	61
12	1600	0.44	13.125	11.125	68	62	58	55	58	57	79	70	62	58	60	61
14	2100	0.34	16.125	12.500	67	60	53	47	48	49	78	69	62	58	61	62
16	2800	0.40	16.125	15.125	70	61	56	50	51	51	79	69	62	59	62	64

PEDV, DEDV WITHOUT ATTENUATOR

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	24.125	60	57	46	41	40	37	73	66	60	54	54	49
05	250	0.03	8	24.125	62	59	49	42	41	37	74	66	61	56	55	50
06	400	0.13	8	24.125	63	61	52	44	42	38	75	71	65	60	57	52
07	550	0.10	10	24.125	64	59	53	47	43	34	74	72	63	59	56	51
08	700	0.02	10	24.125	65	60	53	47	47	45	77	73	63	58	56	52
09	900	0.05	12.5	28.125	64	58	53	47	45	38	77	69	63	59	57	54
10	1100	0.01	12.5	28.125	67	62	57	55	54	43	78	71	65	63	60	55
12	1600	0.01	15	32.125	66	62	59	53	50	44	78	74	68	64	62	58
14	2100	0.04	17.5	40.125	66	62	55	53	50	46	74	69	66	63	63	59
16	2800	0.03	18	48.125	66	61	54	50	50	45	76	70	66	64	62	57

