

# PH SERIES SINGLE DUCT ATU PERFORMANCE DATA

The Performance Aire PH Series is the simplest and most widely used VAV terminal unit. Its basic components are an insulated sheet metal box, round inlet damper, flow measuring device and rectangular outlet. The unit is served by a central air handler and modulates the amount of 'primary' cooling air to the space between a minimum set point and the design airflow.

When necessary, the Performance Aire PH Series can be provided with a heating coil on the discharge of the unit to provide for reheat.

## STANDARD FEATURES

- PH Series is available in 10 unit sizes (4"-24") and handles 80-8000 CFM.
- Variable or constant volume applications.
- 22 ga. galvanized steel casing, mechanically sealed for low leakage.
- Damper construction of double layer, 18 gauge equivalent, galvanized steel with sandwiched flexible gasket, mechanically fastened to provide tight seal (<1% at 3.0" wg static pressure).
- Multi-quadrant, averaging flow sensor for highly accurate (+/-5%) flow readings with varying inlet duct configurations after certified balancer has balanced terminal.
- Metal inlet flow sensor with externally accessible steel balancing taps.
- Optional control cabinet with offset mounting butt plate is standard.
- 3-beaded inlet connection tube for added rigidity and secure flex duct connections.
- 1/2" thick, dual density (1.5lb / ft<sup>3</sup> min.) fiberglass insulation with edges coated. Meets NFPA 90A and UL 181.
- Rectangular discharge with slip and drive cleat duct connection.
- Independently tested and certified laboratory performance data.
- Options and accessories available (heating coils, disconnects, liners/insulation).



## PH SERIES AHRI CERTIFIED RATING POINTS

AHRI Certified Radiated Sound Power,  $\Delta P_s = 1.5$  in. wg

Unit Size	Min Ps	CFM	Octave Band					
			2	3	4	5	6	7
04	0.04	200	52	44	38	32	26	22
05	0.04	200	52	44	38	32	26	22
06	0.08	400	58	53	49	44	41	36
08	0.01	700	62	57	52	44	39	34
10	0.02	1100	58	58	52	44	38	32
12	0.01	1600	61	56	54	45	41	40
14	0.01	2100	62	57	55	45	40	34
16	0.03	2800	64	62	56	50	47	44
20	0.06	3000	69	67	65	61	55	48
24	0.04	5300	76	71	71	65	60	54

AHRI Certified Discharge Sound Power,  $\Delta P_s = 1.5$  in. wg

Unit Size	Min Ps	Fan CFM	Octave Band					
			2	3	4	5	6	7
04	0.04	200	65	60	55	51	46	39
05	0.04	200	65	60	55	51	46	39
06	0.08	400	67	64	60	53	49	49
08	0.01	700	75	71	62	58	55	53
10	0.02	1100	73	70	65	60	56	53
12	0.01	1600	68	67	62	60	59	57
14	0.01	2100	66	62	61	63	63	60
16	0.03	2800	74	69	66	64	64	60
20	0.06	3000	74	71	71	71	67	63
24	0.04	5300	86	85	81	77	74	71

### CERTIFICATIONS AND STANDARDS

- Units tested per ANSI / ASHRAE Standard 130.
- All model sizes certified in accordance with AHRI 880 certification program.
- ETL listed to meet requirements of UL 1995 and CSA 236.
- Dual-density fiberglass insulation meets UL 181 and NFPA 90A requirements.
- Insulation meets ASHRAE 62.1 requirements for resistance to mold growth and erosion.



**PH SERIES RADIATED SOUND POWER at  $\Delta PS = 0.50, 0.75$  and  $1.0$  in. wg**

Unit Size			Min Ps in. wg (Pa)		$\Delta Ps = 0.50$ in. wg (125 Pa)							$\Delta Ps = 0.75$ in. wg (187 Pa)							$\Delta Ps = 1.0$ in. wg (500 Pa)									
					Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC
					2	3	4	5	6	7	NC		2	3	4	5	6	7	NC		2	3	4	5	6	7	NC	
04 / 05 4 & 5 inch	50	(24)	0.005	(1.2)	41	32	19	19	15	7	<15	42	33	20	20	16	8	<15	43	34	21	21	17	9	<15			
	100	(47)	0.015	(3.8)	43	34	23	22	19	13	<15	44	35	24	23	20	14	<15	45	36	25	24	21	15	<15			
	150	(71)	0.027	(6.7)	46	38	29	26	21	16	<15	47	39	30	27	22	17	<15	48	40	31	28	23	18	<15			
	200	(94)	0.038	(9.5)	49	41	35	29	23	18	<15	50	42	36	30	24	19	<15	51	43	37	31	25	20	<15			
	250	(118)	0.059	(14.8)	51	43	39	32	28	26	<15	52	44	40	33	29	27	<15	53	45	41	34	30	28	<15			
	300	(142)	0.071	(17.6)	53	46	43	35	32	30	17	54	47	44	36	33	31	18	55	48	45	37	34	32	19			
06 6 inch	100	(47)	0.005	(1.2)	43	34	23	22	19	13	<15	44	35	24	23	20	14	<15	45	36	25	24	21	15	<15			
	200	(94)	0.020	(5.0)	49	41	35	29	23	18	<15	50	42	36	30	24	19	<15	51	43	37	31	25	20	<15			
	300	(142)	0.045	(11.2)	53	46	43	35	32	30	17	54	47	44	36	33	31	18	55	48	45	37	34	32	19			
	400	(189)	0.080	(19.9)	55	50	46	41	38	32	20	56	51	47	42	39	33	21	57	52	48	43	40	34	22			
	500	(236)	0.136	(33.9)	57	53	48	44	40	34	22	58	54	49	45	41	35	23	59	55	50	46	42	36	24			
	600	(283)	0.180	(44.8)	58	55	50	46	42	36	24	59	56	51	47	43	37	25	60	57	52	48	44	38	26			
08 8 inch	200	(94)	0.000	(0.0)	48	36	25	20	17	16	<15	50	39	30	26	20	19	<15	51	41	35	30	23	20	<15			
	300	(142)	0.001	(0.2)	51	40	33	25	20	19	<15	53	43	37	31	24	21	<15	55	46	42	36	28	24	16			
	600	(283)	0.003	(0.7)	54	44	37	33	25	20	<15	57	48	40	35	28	23	18	59	52	43	38	31	27	21			
	700	(330)	0.005	(1.2)	56	46	40	35	27	21	17	58	50	42	37	30	25	20	61	53	45	40	33	28	23			
	1000	(472)	0.008	(2.0)	60	52	46	42	34	27	22	62	54	48	44	36	30	25	65	57	50	45	39	33	29			
	1100	(519)	0.009	(2.2)	61	53	48	44	37	30	23	63	55	50	45	38	32	26	66	58	51	47	40	35	30			
10 10 inch	300	(142)	0.002	(0.5)	43	38	29	20	18	18	<15	45	40	32	23	19	19	<15	47	42	36	26	21	20	<15			
	600	(283)	0.009	(2.2)	47	46	37	30	26	22	<15	50	48	42	33	28	24	15	52	51	46	36	31	25	20			
	800	(378)	0.013	(3.2)	48	48	40	34	28	22	15	50	50	43	36	31	24	18	53	53	47	39	33	26	21			
	1000	(472)	0.018	(4.5)	49	49	42	36	29	24	16	51	52	45	38	32	26	20	54	54	48	40	34	28	22			
	1100	(519)	0.021	(5.2)	51	50	44	38	30	24	18	53	53	46	40	33	27	21	55	55	49	41	35	29	24			
	1400	(661)	0.028	(7.0)	55	55	48	42	34	28	24	58	57	49	43	36	30	26	60	58	50	43	37	31	27			
	1700	(802)	0.036	(9.0)	57	57	53	44	38	32	27	60	58	54	45	39	34	29	63	61	55	48	42	36	31			
12 12 inch	430	(203)	0.000	(0.1)	46	37	29	22	19	20	<15	49	39	32	25	21	21	<15	51	41	36	28	23	23	<15			
	800	(378)	0.001	(0.2)	50	42	35	28	26	29	<15	52	45	40	32	29	31	<15	54	48	45	36	32	32	19			
	1450	(684)	0.008	(2.0)	52	47	43	36	31	31	17	55	49	47	39	34	33	21	57	52	50	41	37	36	24			
	1600	(755)	0.010	(2.5)	54	48	46	39	33	32	20	56	50	48	40	35	35	22	58	53	51	42	38	37	25			
	1950	(920)	0.015	(3.7)	55	51	50	42	37	36	24	57	53	51	43	39	37	25	59	54	52	44	41	39	26			
	2200	(1038)	0.022	(5.5)	56	52	51	43	39	37	25	58	53	52	44	40	39	26	61	55	53	45	42	40	27			
	2500	(1180)	0.025	(6.2)	57	53	52	44	40	38	26	59	55	53	46	41	41	27	62	58	56	48	44	43	31			

**PH SERIES RADIATED SOUND POWER at  $\Delta PS = 0.50, 0.75$  and  $1.0$  in. wg**  
 (continued)

Unit Size			Min Ps in. wg (Pa)		$\Delta Ps = 0.50$ in. wg (125 Pa)							$\Delta Ps = 0.75$ in. wg (187 Pa)							$\Delta Ps = 1.0$ in. wg (500 Pa)									
					Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC
					2	3	4	5	6	7	NC		2	3	4	5	6	7	NC		2	3	4	5	6	7	NC	
<b>14</b> <b>14 inch</b>	550	(260)	0.000	(0.0)	52	38	36	28	25	20	<15	53	39	37	29	26	21	<15	54	40	38	30	27	22	<15			
	925	(437)	0.001	(0.2)	53	41	39	31	27	22	<15	54	42	40	32	28	23	<15	55	43	41	33	29	24	16			
	1600	(755)	0.003	(0.7)	56	46	44	35	31	26	18	57	47	45	36	32	27	19	58	48	46	37	33	28	20			
	1900	(897)	0.004	(1.0)	57	50	49	39	33	28	23	58	51	50	40	34	29	24	59	52	51	41	35	30	25			
	2100	(991)	0.005	(1.2)	59	54	51	42	36	31	25	60	55	52	43	37	32	26	61	56	53	44	38	33	27			
	2600	(1227)	0.006	(1.5)	62	56	54	43	40	36	29	63	57	55	44	41	37	30	64	58	56	45	42	38	31			
	3250	(1534)	0.007	(1.7)	64	60	57	46	44	40	32	65	61	58	47	45	41	33	66	62	59	48	46	42	34			
<b>16</b> <b>16 inch</b>	750	(354)	0.001	(0.4)	54	39	30	24	19	17	<15	54	41	33	28	21	19	<15	55	43	35	30	24	20	16			
	1100	(519)	0.006	(1.5)	56	45	36	29	24	20	17	56	47	39	32	26	22	17	57	49	41	34	29	24	18			
	1500	(708)	0.010	(2.6)	58	51	41	35	31	26	20	58	53	44	38	33	28	21	59	55	46	40	36	30	24			
	2400	(1133)	0.023	(5.7)	60	53	44	40	37	33	22	60	55	47	42	38	34	24	60	57	49	43	40	35	26			
	2800	(1321)	0.030	(7.5)	61	54	47	42	39	35	23	61	56	49	44	40	36	25	62	58	51	45	42	37	27			
	3600	(1699)	0.045	(11.1)	62	57	52	46	42	39	26	63	59	53	48	43	40	28	64	60	55	49	44	41	30			
	4400	(2076)	0.060	(15.0)	65	61	57	50	46	43	32	66	62	58	51	47	44	33	67	63	58	52	48	45	33			
<b>20</b> <b>20 x 16</b>	1100	(519)	0.008	(2.0)	51	45	33	29	27	23	<15	53	47	35	31	29	25	<15	55	49	37	33	31	27	16			
	1600	(755)	0.024	(6.0)	53	51	43	39	32	29	19	55	53	45	41	34	31	21	57	55	47	43	36	33	24			
	2500	(1180)	0.055	(13.7)	59	58	56	52	44	39	31	61	60	58	54	46	41	33	63	62	60	56	48	43	35			
	3000	(1416)	0.060	(14.9)	64	62	60	56	50	43	35	66	64	62	58	52	45	37	68	66	64	60	54	47	39			
	4600	(2171)	0.140	(34.8)	70	67	65	62	52	47	41	72	69	67	64	54	49	43	74	71	69	66	56	51	45			
	5300	(2501)	0.167	(41.6)	71	69	67	64	54	48	43	73	71	69	66	56	50	45	75	73	71	68	58	52	47			
	6200	(2926)	0.202	(50.3)	74	71	69	66	56	49	45	76	73	71	68	58	51	47	78	75	73	70	60	53	49			
<b>24</b> <b>24 x 16</b>	1250	(590)	0.010	(2.5)	54	45	35	32	30	23	<15	55	46	37	34	31	25	16	55	47	39	35	32	26	16			
	2000	(944)	0.015	(3.7)	58	51	44	41	36	31	20	59	52	45	42	37	32	21	59	52	46	42	38	32	21			
	3000	(1416)	0.020	(5.0)	63	56	50	47	42	37	26	64	57	51	48	43	38	27	64	57	52	48	44	38	27			
	4000	(1888)	0.025	(6.2)	66	61	58	53	49	42	33	67	62	59	54	50	43	34	68	62	59	55	50	44	34			
	5300	(2501)	0.040	(10.0)	70	66	63	59	55	49	38	72	67	64	61	56	50	39	73	68	64	62	57	51	39			
	6000	(2831)	0.050	(12.4)	73	68	66	61	57	51	42	75	69	67	63	58	52	43	76	70	68	64	59	53	44			
	7200	(3398)	0.070	(17.4)	76	72	68	66	60	54	44	77	73	70	68	61	55	46	78	74	71	69	62	56	47			

- Performance data contained within a bold border outline are AHRI certified data.
- Performance data not contained within a bold border outline are application ratings. Application ratings are outside scope of Certification Program.
- Performance data is obtained from laboratory testing in accordance with AHRI 880-2011 and ANSI / ASHRAE 130-2008.
- NC values are calculated using attenuation credits outlined in Appendix E of AHRI 885-2008.
- Discharge Sound power levels shown with End Reflection Corrections Included in dB (ref:  $10^{-12}$  watts).
- Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate.

**PH SERIES RADIATED SOUND POWER at ΔPS = 1.50, 2.0 and 3.0 in. wg**

Unit Size	CFM (L/s)		Min Ps in. wg (Pa)		ΔPs = 1.5 in. wg (375 Pa)							ΔPs = 2.0 in. wg (500 Pa)							ΔPs = 3.0 in. wg (750 Pa)									
					Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC
					2	3	4	5	6	7	NC		2	3	4	5	6	7	NC		2	3	4	5	6	7	NC	
04 / 05 4 & 5 inch	50	(24)	0.005	(1.2)	44	35	22	22	18	11	<15	44	36	23	22	19	13	<15	45	38	25	24	23	18	<15			
	100	(47)	0.015	(3.8)	46	37	26	25	22	17	<15	46	38	27	25	23	19	<15	47	40	29	27	27	24	<15			
	150	(71)	0.027	(6.7)	49	41	32	29	24	20	<15	49	42	33	29	25	22	<15	50	44	35	31	29	27	<15			
	200	(94)	0.038	(9.5)	52	44	38	32	26	22	<15	52	45	39	32	27	24	<15	53	47	41	34	31	29	<15			
	250	(118)	0.059	(14.8)	54	46	42	35	31	30	15	54	47	43	35	32	32	17	55	49	45	37	36	37	19			
	300	(142)	0.071	(17.6)	56	49	46	38	35	34	20	56	50	47	38	36	36	21	57	52	49	40	40	41	23			
06 6 inch	100	(47)	0.005	(1.2)	46	37	26	25	22	17	<15	46	38	27	25	23	19	<15	47	40	29	27	27	24	<15			
	200	(94)	0.020	(5.0)	52	44	38	32	26	22	<15	52	45	39	32	27	24	<15	53	47	41	34	31	29	<15			
	300	(142)	0.045	(11.2)	56	49	46	38	35	34	20	56	50	47	38	36	36	21	57	52	49	40	40	41	23			
	400	(189)	0.080	(19.9)	58	53	49	44	41	36	23	58	54	50	44	42	38	24	59	56	52	46	46	43	26			
	500	(236)	0.136	(33.9)	60	56	51	47	43	38	25	61	57	52	47	44	40	26	61	59	54	49	48	45	29			
	600	(283)	0.180	(44.8)	61	58	53	49	45	40	27	62	59	54	49	46	42	29	62	61	56	51	50	47	31			
08 8 inch	200	(94)	0.000	(0.0)	52	42	37	33	26	22	<15	52	43	38	35	29	23	<15	53	45	39	36	32	27	<15			
	300	(142)	0.001	(0.2)	55	46	43	38	32	29	17	55	46	43	40	35	33	17	56	47	45	42	40	38	19			
	600	(283)	0.003	(0.7)	60	55	47	42	36	32	24	61	57	51	45	39	36	26	61	59	54	49	43	41	29			
	700	(330)	0.005	(1.2)	62	57	52	44	39	34	26	63	60	53	47	40	37	29	64	61	56	51	44	41	31			
	1000	(472)	0.008	(2.0)	67	60	53	48	42	36	31	68	63	56	50	44	39	33	70	66	60	54	47	42	37			
	1100	(519)	0.009	(2.2)	68	61	54	50	43	38	32	69	64	57	52	45	40	34	71	67	61	56	49	44	38			
10 10 inch	300	(142)	0.002	(0.5)	50	46	40	30	25	24	<15	54	47	40	32	26	25	<15	56	47	42	35	29	26	17			
	600	(283)	0.009	(2.2)	55	55	50	40	35	29	24	59	55	51	43	39	35	25	60	56	51	45	42	40	25			
	800	(378)	0.013	(3.2)	56	57	51	43	37	30	26	61	60	53	46	42	38	29	63	62	56	49	45	42	32			
	1000	(472)	0.018	(4.5)	57	58	52	44	38	32	27	62	63	56	49	44	40	33	64	67	60	52	47	45	38			
	1100	(519)	0.021	(5.2)	58	58	52	44	38	32	27	63	64	57	50	45	41	34	65	68	61	53	48	47	39			
	1400	(661)	0.028	(7.0)	63	62	54	47	41	35	32	70	66	58	52	47	44	37	71	70	63	56	50	49	41			
	1700	(802)	0.036	(9.0)	66	65	59	54	46	40	35	72	67	60	55	50	48	38	73	72	64	58	53	51	44			
12 12 inch	430	(203)	0.000	(0.1)	54	45	40	31	26	26	<15	55	47	41	34	29	28	16	56	47	44	38	34	33	18			
	800	(378)	0.001	(0.2)	57	51	49	40	35	35	23	58	54	53	45	40	41	27	58	56	56	50	44	42	31			
	1450	(684)	0.008	(2.0)	60	55	53	44	40	39	27	62	60	58	49	44	43	33	63	64	63	55	48	45	38			
	1600	(755)	0.010	(2.5)	61	56	54	45	41	40	29	63	60	58	49	44	44	33	65	65	63	55	48	46	38			
	1950	(920)	0.015	(3.7)	62	58	56	47	44	42	31	64	62	60	51	47	47	35	66	66	65	56	50	49	41			
	2200	(1038)	0.022	(5.5)	64	59	57	49	45	44	32	66	62	60	52	48	47	35	68	67	65	56	51	50	41			
2500	(1180)	0.025	(6.2)	65	61	59	51	48	46	34	67	65	63	55	51	49	38	69	68	67	60	52	51	43				

### PH SERIES RADIATED SOUND POWER at $\Delta PS = 1.50, 2.0$ and $3.0$ in. wg (continued)

Unit Size	CFM (L/s)		Min Ps in. wg (Pa)		$\Delta PS = 1.5$ in. wg (375 Pa)							$\Delta PS = 2.0$ in. wg (500 Pa)							$\Delta PS = 3.0$ in. wg (750 Pa)									
					Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC
					2	3	4	5	6	7	NC		2	3	4	5	6	7	NC		2	3	4	5	6	7	NC	
14 14 inch	550	(260)	0.000	(0.0)	55	41	39	31	28	23	16	55	41	39	31	28	23	16	56	42	40	32	29	24	17			
	925	(437)	0.001	(0.2)	56	43	41	33	30	24	17	56	44	42	34	30	25	17	57	45	43	35	31	26	18			
	1600	(755)	0.003	(0.7)	58	49	46	38	33	28	20	59	49	47	38	34	29	21	60	50	48	39	35	30	22			
	1900	(897)	0.004	(1.0)	60	53	52	41	36	31	26	60	53	52	42	36	31	26	61	54	53	43	37	32	27			
	2100	(991)	0.005	(1.2)	<b>62</b>	<b>57</b>	<b>55</b>	<b>45</b>	<b>40</b>	<b>34</b>	<b>30</b>	62	57	54	45	40	34	29	63	58	55	46	40	35	30			
	2600	(1227)	0.006	(1.5)	65	59	57	46	43	39	32	65	59	57	46	43	39	32	66	60	58	47	44	40	33			
	3250	(1534)	0.007	(1.7)	67	63	60	49	47	43	35	67	63	60	49	47	43	35	68	64	61	50	48	44	36			
16 16 inch	750	(354)	0.001	(0.4)	56	45	39	33	28	23	17	57	47	42	36	31	26	18	59	51	47	40	36	30	21			
	1100	(519)	0.006	(1.5)	58	51	45	39	34	28	20	59	53	49	44	38	32	23	61	56	51	49	40	35	25			
	1500	(708)	0.010	(2.6)	60	57	51	45	41	36	26	61	59	55	50	45	42	30	63	61	57	53	49	47	32			
	2400	(1133)	0.023	(5.7)	63	61	55	49	46	42	31	65	65	60	54	51	48	35	68	67	64	60	58	56	39			
	2800	(1321)	0.030	(7.5)	<b>64</b>	<b>62</b>	<b>56</b>	<b>50</b>	<b>47</b>	<b>44</b>	<b>32</b>	67	66	61	56	53	50	37	69	69	65	62	61	59	41			
	3600	(1699)	0.045	(11.1)	67	64	59	54	50	47	34	69	67	63	58	56	53	38	71	70	67	64	63	62	43			
	4400	(2076)	0.060	(15.0)	69	66	62	56	54	51	37	71	69	65	60	59	56	41	73	72	69	66	65	64	45			
20 20 x 16	1100	(519)	0.008	(2.0)	56	50	38	34	32	28	18	57	51	39	35	33	29	19	59	53	41	37	35	31	21			
	1600	(755)	0.024	(6.0)	58	56	48	44	37	34	25	59	57	49	45	38	35	26	61	59	51	47	40	37	28			
	2500	(1180)	0.055	(13.7)	64	63	61	57	49	44	36	65	64	62	58	50	45	37	67	66	64	60	52	47	39			
	3000	(1416)	0.060	(14.9)	<b>69</b>	<b>67</b>	<b>65</b>	<b>61</b>	<b>55</b>	<b>48</b>	<b>41</b>	70	68	66	62	56	49	42	72	70	68	64	58	51	44			
	4600	(2171)	0.140	(34.8)	75	72	70	67	57	52	46	76	73	71	68	58	53	47	78	75	73	70	60	55	49			
	5300	(2501)	0.167	(41.6)	76	74	72	69	59	53	48	77	75	73	70	60	54	49	79	77	75	72	62	56	51			
	6200	(2926)	0.202	(50.3)	79	76	74	71	61	54	50	80	77	75	72	62	55	51	82	79	77	74	64	57	54			
24 24 x 16	1250	(590)	0.010	(2.5)	58	50	42	38	35	29	20	58	52	44	39	37	32	20	59	55	49	42	39	35	24			
	2000	(944)	0.015	(3.7)	62	55	49	45	41	35	25	62	59	53	49	45	39	28	63	63	57	53	49	43	33			
	3000	(1416)	0.020	(5.0)	67	60	55	51	47	41	31	67	64	59	55	51	45	34	69	69	64	58	55	48	40			
	4000	(1888)	0.025	(6.2)	71	65	62	58	53	47	37	72	70	68	63	57	52	44	74	72	70	66	60	55	46			
	5300	(2501)	0.040	(10.0)	<b>76</b>	<b>71</b>	<b>71</b>	<b>65</b>	<b>60</b>	<b>54</b>	<b>47</b>	78	73	71	68	62	55	47	80	76	75	70	64	58	51			
	6000	(2831)	0.050	(12.4)	77	72	70	66	61	55	46	81	75	73	69	63	57	49	83	77	76	72	65	59	53			
	7200	(3398)	0.070	(17.4)	81	76	74	72	65	59	50	83	79	76	74	67	60	53	85	81	79	76	69	62	56			

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2. Performance data not contained within a bold border outline are application ratings. Application ratings are outside the scope of the Certification Program.
3. Performance data is obtained from laboratory testing in accordance with AHRI 880-2011 and ANSI / ASHRAE 130-2008.
4. NC values are calculated using attenuation credits outlined in Appendix E of AHRI 885-2008.
5. Discharge Sound power levels shown with End Reflection Corrections Included in dB (ref:  $10^{-12}$  watts).
6. Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate.



**PH SERIES DISCHARGE SOUND POWER at ΔPS = 0.50, 0.75 and 1.0 in. wg**

Unit Size	CFM (L/s)		Min Ps in. wg (Pa)		ΔPs = 0.50 in. wg (125 Pa)								ΔPs = 0.75 in. wg (187 Pa)								ΔPs = 1.0 in. wg (250 Pa)							
					Octave Band Sound Power, Lw, dB								Octave Band Sound Power, Lw, dB								Octave Band Sound Power, Lw, dB							
					2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC			
04 / 05 4 & 5 inch	50	(24)	0.005	(1)	59	47	39	35	29	22	<15	60	51	45	41	34	27	<15	60	55	50	47	39	31	<15			
	100	(47)	0.015	(4)	60	49	39	34	30	26	<15	61	53	46	41	35	30	16	61	56	52	47	40	34	16			
	150	(71)	0.027	(7)	61	51	42	37	32	27	16	62	54	48	43	37	32	17	62	57	53	48	42	36	17			
	200	(94)	0.038	(9)	62	52	45	40	34	28	17	63	55	49	45	39	33	18	63	58	53	49	44	37	18			
	250	(118)	0.059	(15)	63	54	47	42	36	32	18	64	57	51	46	41	36	20	64	59	55	49	45	40	20			
	300	(142)	0.071	(18)	64	56	51	45	38	34	16	64	59	54	48	42	39	16	64	61	57	50	46	43	19			
06 6 inch	100	(47)	0.005	(1.2)	60	49	39	34	30	26	<15	61	53	46	41	35	30	16	61	56	52	47	40	34	16			
	200	(94)	0.020	(5.0)	62	52	45	40	34	28	17	63	55	49	45	39	33	18	63	58	53	49	44	37	18			
	300	(142)	0.045	(11.2)	64	56	51	45	38	34	16	64	59	54	48	42	39	16	64	61	57	50	46	43	19			
	400	(189)	0.080	(19.9)	65	60	55	49	42	40	18	65	61	57	50	45	44	19	65	62	58	51	47	47	20			
	500	(236)	0.136	(33.9)	68	64	59	54	48	45	22	68	65	61	55	50	48	24	68	66	62	56	52	50	25			
	600	(283)	0.180	(44.8)	69	67	62	59	52	49	26	69	68	63	60	54	50	27	69	68	64	60	55	51	27			
08 8 inch	200	(94)	0.000	(0.0)	62	53	46	40	34	30	17	63	56	50	43	37	34	18	66	60	55	49	44	42	22			
	300	(142)	0.001	(0.2)	64	57	48	43	38	33	16	65	60	52	46	41	37	18	68	64	58	53	49	45	22			
	600	(283)	0.003	(0.7)	69	63	54	51	43	39	22	71	65	56	53	46	42	25	73	69	61	58	53	48	28			
	700	(330)	0.005	(1.2)	71	65	56	54	45	40	25	72	67	58	55	48	43	26	74	70	63	60	54	50	29			
	1000	(472)	0.008	(2.0)	75	70	62	60	52	47	28	77	71	64	63	54	49	30	79	74	67	65	58	53	33			
	1100	(519)	0.009	(2.2)	76	71	64	62	56	50	29	78	72	66	64	56	51	31	80	75	69	67	60	54	34			
10 10 inch	300	(142)	0.002	(0.5)	58	55	46	43	36	31	<15	59	58	50	46	39	35	15	62	62	55	52	46	43	20			
	600	(283)	0.009	(2.2)	62	59	50	46	38	36	16	64	62	52	49	42	39	20	67	65	58	54	49	46	24			
	800	(378)	0.013	(3.2)	65	62	53	49	41	39	19	67	64	55	51	44	42	21	69	68	60	56	51	48	26			
	1000	(472)	0.018	(4.5)	68	63	55	52	41	40	20	69	65	57	53	44	43	22	71	68	62	58	55	52	26			
	1100	(519)	0.021	(5.2)	68	64	57	53	45	43	21	70	66	59	55	48	45	24	72	69	63	58	55	52	27			
	1400	(661)	0.028	(7.0)	72	70	62	59	52	50	28	74	71	64	62	54	52	29	76	74	67	64	58	56	33			
	1700	(802)	0.036	(9.0)	76	74	65	64	59	55	33	78	75	67	66	59	56	34	80	78	70	69	63	59	38			
12 12 inch	430	(203)	0.000	(0.1)	55	47	46	45	39	35	<15	58	51	48	48	44	41	<15	60	53	49	49	46	44	<15			
	800	(378)	0.001	(0.2)	57	55	52	50	46	40	<15	60	59	54	53	51	46	15	62	59	54	53	51	48	15			
	1450	(684)	0.008	(2.0)	61	59	58	54	50	45	15	64	63	60	57	55	51	20	65	64	60	58	56	53	21			
	1600	(755)	0.010	(2.5)	62	60	59	55	51	46	16	65	64	61	58	56	52	21	67	66	62	59	58	55	24			
	1950	(920)	0.015	(3.7)	64	61	59	56	52	48	18	67	65	61	59	57	54	22	70	68	64	62	61	59	26			
	2200	(1038)	0.022	(5.5)	64	61	60	57	53	48	18	68	65	62	60	58	55	22	71	69	65	63	62	60	27			
	2500	(1180)	0.025	(6.2)	66	62	61	57	53	50	19	70	66	64	61	59	57	24	73	70	67	64	63	62	28			

### PH SERIES DISCHARGE SOUND POWER at $\Delta P_s = 0.50, 0.75$ and $1.0$ in. wg (continued)

Unit Size	CFM (L/s)		Min Ps in. wg (Pa)		$\Delta P_s = 0.50$ in. wg (125 Pa)							$\Delta P_s = 0.75$ in. wg (187 Pa)							$\Delta P_s = 1.0$ in. wg (250 Pa)									
					Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC
					2	3	4	5	6	7	NC		2	3	4	5	6	7	NC		2	3	4	5	6	7	NC	
<b>14</b> 14 inch	550 (260)	0.000 (0.0)	46	38	36	34	27	22	<15	51	45	43	41	36	31	<15	57	51	49	49	44	39	<15					
	925 (437)	0.001 (0.2)	46	38	38	36	30	23	<15	52	45	45	44	39	32	<15	57	52	51	51	47	42	<15					
	1600 (755)	0.003 (0.7)	49	43	43	42	37	32	<15	55	49	49	48	44	40	<15	60	55	54	55	52	48	<15					
	1900 (897)	0.004 (1.0)	51	45	45	44	40	36	<15	56	51	50	50	47	44	<15	60	56	55	56	54	51	15					
	2100 (991)	0.005 (1.2)	53	48	49	48	44	41	<15	57	53	53	53	50	47	<15	62	57	57	58	57	54	18					
	2600 (1227)	0.006 (1.5)	58	52	52	51	48	47	<15	61	56	55	56	54	52	16	65	59	59	60	59	57	21					
	3250 (1534)	0.007 (1.7)	64	57	54	54	52	55	19	66	60	57	58	56	58	22	67	62	60	61	61	60	24					
<b>16</b> 16 inch	750 (354)	0.001 (0.4)	48	43	41	33	29	25	<15	54	49	45	40	37	34	<15	60	55	53	48	46	43	<15					
	1100 (519)	0.006 (1.5)	50	45	43	36	32	26	<15	56	51	47	43	40	35	<15	62	57	53	50	48	44	<15					
	1500 (708)	0.010 (2.6)	53	48	45	41	36	31	<15	58	53	50	47	43	39	<15	64	59	56	53	51	47	15					
	2400 (1133)	0.023 (5.7)	60	55	53	50	44	40	<15	64	59	57	54	50	46	15	68	63	61	58	56	52	20					
	2800 (1321)	0.030 (7.5)	64	58	58	55	49	44	<15	67	62	61	58	54	49	19	71	66	64	61	59	55	24					
	3600 (1699)	0.045 (11.1)	69	63	64	60	55	50	20	71	66	65	62	59	54	24	74	69	67	64	63	58	27					
	4400 (2076)	0.060 (15.0)	74	67	68	65	57	53	26	75	69	68	66	60	57	27	77	71	69	67	64	61	30					
<b>20</b> 20 x 16	1100 (519)	0.008 (2.0)	49	43	42	36	34	34	<15	54	50	49	43	42	42	<15	59	56	55	50	49	49	<15					
	1600 (755)	0.024 (6.0)	54	50	48	42	39	36	<15	58	55	53	48	46	43	<15	62	59	58	54	52	50	15					
	2500 (1180)	0.055 (13.7)	64	62	59	54	51	44	19	66	64	61	58	55	50	21	68	66	63	61	58	55	24					
	3000 (1416)	0.060 (14.9)	69	67	64	60	57	52	25	71	68	65	62	60	55	26	72	69	66	64	62	58	27					
	4600 (2171)	0.140 (34.8)	76	73	72	70	63	55	32	78	75	74	73	66	59	34	79	76	75	75	68	62	35					
	5300 (2501)	0.167 (41.6)	80	76	75	74	66	57	35	82	78	77	76	69	60	38	83	79	78	78	71	63	39					
	6200 (2926)	0.202 (50.3)	83	79	78	79	69	58	39	85	80	79	81	72	62	40	86	81	81	83	74	65	41					
<b>24</b> 24 x 16	1250 (590)	0.010 (2.5)	47	52	45	44	38	35	<15	60	58	53	51	48	45	<15	65	63	61	58	58	54	20					
	2000 (944)	0.015 (3.7)	60	61	55	52	48	46	18	65	64	60	58	54	51	21	68	67	64	63	59	57	25					
	3000 (1416)	0.020 (5.0)	71	68	63	60	59	56	26	74	70	66	63	61	58	28	76	72	68	66	62	60	31					
	4000 (1888)	0.025 (6.2)	73	69	64	62	62	57	27	76	71	68	65	64	60	29	79	74	71	67	66	62	33					
	5300 (2501)	0.040 (10.0)	77	75	66	67	65	64	34	80	77	69	70	68	66	37	82	79	72	72	70	67	39					
	6000 (2831)	0.050 (12.4)	79	76	69	68	66	65	35	82	78	72	71	69	67	38	84	80	75	73	71	68	40					
	7200 (3398)	0.070 (17.4)	82	80	72	69	69	66	40	85	82	75	72	72	68	42	87	84	78	74	74	69	45					

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3. Performance data is obtained from laboratory testing in accordance with AHRI 880-2011 and ANSI / ASHRAE 130-2008.
4. NC values are calculated using attenuation credits outlined in Appendix E of AHRI 885-2008.
5. Discharge Sound power levels shown with End Reflection Corrections Included in dB (ref:  $10^{-12}$  watts).
6. Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate.



**PH SERIES DISCHARGE SOUND POWER at  $\Delta P_s = 1.50, 2.0$  and  $3.0$  in. wg**

Unit Size	CFM (L/s)		Min Ps in. wg (Pa)		$\Delta P_s = 1.5$ in. wg (375 Pa)							$\Delta P_s = 2.0$ in. wg (500 Pa)							$\Delta P_s = 3.0$ in. wg (750 Pa)									
					Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC
					2	3	4	5	6	7	NC		2	3	4	5	6	7	NC		2	3	4	5	6	7	NC	
04 / 05 4 & 5 inch	50	(24)	0.005	(1)	62	57	52	49	41	33	17	62	57	52	49	41	33	17	64	59	52	51	43	35	20			
	100	(47)	0.015	(4)	63	58	54	49	42	36	18	63	58	54	49	42	36	18	65	60	54	51	44	38	21			
	150	(71)	0.027	(7)	64	59	55	50	44	38	20	64	59	55	50	44	38	20	66	61	55	52	46	40	22			
	200	(94)	0.038	(9)	65	60	55	51	46	39	21	65	60	55	51	46	39	21	67	62	55	53	48	41	23			
	250	(118)	0.059	(15)	66	61	57	51	47	42	22	66	61	57	51	47	42	22	68	63	59	53	49	44	25			
	300	(142)	0.071	(18)	66	63	59	52	48	45	21	66	63	59	52	48	45	21	68	65	61	54	50	47	24			
06 6 inch	100	(47)	0.005	(1.2)	63	58	54	49	42	36	18	63	58	54	49	42	36	18	65	60	54	51	44	38	21			
	200	(94)	0.020	(5.0)	65	60	55	51	46	39	21	65	60	55	51	46	39	21	67	62	55	53	48	41	23			
	300	(142)	0.045	(11.2)	66	63	59	52	48	45	21	66	63	59	52	48	45	21	68	65	61	54	50	47	24			
	400	(189)	0.080	(19.9)	67	64	60	53	49	49	22	67	64	60	53	49	49	22	69	67	62	55	51	51	26			
	500	(236)	0.136	(33.9)	70	68	64	58	54	52	27	70	68	64	58	54	52	27	72	70	66	60	56	54	29			
	600	(283)	0.180	(44.8)	71	70	66	62	57	53	29	71	70	66	62	57	53	29	73	72	68	64	59	55	32			
08 8 inch	200	(94)	0.000	(0.0)	66	60	54	50	46	44	22	67	61	55	52	48	46	23	68	62	56	54	50	48	25			
	300	(142)	0.001	(0.2)	68	64	56	53	49	48	22	69	65	57	55	51	50	24	70	66	58	57	53	52	25			
	600	(283)	0.003	(0.7)	73	68	59	56	53	52	27	74	69	60	58	55	54	29	75	70	61	60	57	56	30			
	700	(330)	0.005	(1.2)	75	71	62	58	55	53	31	76	72	63	60	57	55	32	77	73	64	62	59	57	33			
	1000	(472)	0.008	(2.0)	80	75	67	66	61	58	34	81	76	68	68	63	60	35	82	77	69	70	65	62	37			
	1100	(519)	0.009	(2.2)	81	76	69	68	62	60	35	82	77	70	70	64	62	37	83	78	71	72	66	64	38			
10 10 inch	300	(142)	0.002	(0.5)	62	62	56	53	48	45	20	62	62	56	53	48	45	20	64	64	57	55	50	48	22			
	600	(283)	0.009	(2.2)	68	66	61	57	52	49	25	68	66	61	57	52	49	25	70	68	63	59	55	53	27			
	800	(378)	0.013	(3.2)	70	68	63	58	54	51	26	70	68	63	58	54	51	26	72	70	65	61	57	53	28			
	1000	(472)	0.018	(4.5)	72	69	64	59	55	52	27	72	69	64	59	55	52	27	74	71	66	61	57	54	29			
	1100	(519)	0.021	(5.2)	73	70	65	60	56	53	28	73	70	65	60	56	53	28	74	72	68	62	59	55	31			
	1400	(661)	0.028	(7.0)	77	75	69	65	60	57	34	77	75	69	65	60	57	34	79	76	71	66	63	60	35			
1700	(802)	0.036	(9.0)	81	79	72	70	64	60	39	81	79	72	70	64	60	39	83	81	74	71	66	64	41				
12 12 inch	430	(203)	0.000	(0.1)	61	55	49	50	47	46	<15	62	56	50	51	48	47	<15	64	58	52	53	50	49	16			
	800	(378)	0.001	(0.2)	63	58	52	53	50	49	<15	64	59	53	54	51	50	15	66	61	55	56	53	52	18			
	1450	(684)	0.008	(2.0)	66	64	59	58	56	54	21	67	65	60	59	57	55	22	69	67	62	61	59	57	25			
	1600	(755)	0.010	(2.5)	68	67	62	60	59	57	25	69	68	63	61	60	58	26	71	70	65	63	62	60	28			
	1950	(920)	0.015	(3.7)	73	71	66	65	64	63	29	74	72	67	66	65	64	31	76	74	69	68	67	66	33			
	2200	(1038)	0.022	(5.5)	74	72	67	66	66	64	31	75	73	68	67	67	65	32	77	75	70	69	69	67	34			
2500	(1180)	0.025	(6.2)	76	73	69	67	67	66	32	77	74	70	68	68	67	33	79	76	72	70	70	69	35				

### PH SERIES DISCHARGE SOUND POWER at $\Delta P_s = 1.50, 2.0$ and $3.0$ in. wg (continued)

Unit Size	CFM (L/s)		Min Ps in. wg (Pa)		$\Delta P_s = 1.5$ in. wg (375 Pa)							$\Delta P_s = 2.0$ in. wg (500 Pa)							$\Delta P_s = 3.0$ in. wg (750 Pa)									
					Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC
					2	3	4	5	6	7	NC		2	3	4	5	6	7	NC		2	3	4	5	6	7	NC	
14 14 inch	550	(260)	0.000	(0.0)	62	58	56	56	53	48	15	64	60	58	58	55	50	18	67	63	61	61	58	53	21			
	925	(437)	0.001	(0.2)	63	59	57	58	55	51	15	65	61	59	60	57	53	18	68	64	62	63	60	56	21			
	1600	(755)	0.003	(0.7)	65	61	60	61	59	56	20	67	63	62	63	61	58	22	70	66	65	66	64	61	25			
	1900	(897)	0.004	(1.0)	65	61	60	62	61	58	22	67	63	62	64	63	60	24	70	66	65	67	66	63	27			
	2100	(991)	0.005	(1.2)	<b>66</b>	62	61	63	63	60	24	68	64	63	65	65	62	26	71	67	66	68	68	65	29			
	2600	(1227)	0.006	(1.5)	68	63	62	64	64	62	26	70	65	64	66	66	64	28	73	68	67	69	69	67	31			
	3250	(1534)	0.007	(1.7)	69	64	63	65	65	63	27	71	66	65	67	67	65	29	74	69	68	70	70	68	32			
16 16 inch	750	(354)	0.001	(0.4)	66	61	57	55	54	52	18	67	62	58	57	56	54	19	69	64	60	59	58	56	21			
	1100	(519)	0.006	(1.5)	67	62	59	57	56	53	19	68	63	60	59	58	55	20	70	65	62	61	60	57	22			
	1500	(708)	0.010	(2.6)	69	64	61	59	58	55	21	70	65	62	61	60	57	22	72	67	64	63	62	59	25			
	2400	(1133)	0.023	(5.7)	72	67	64	62	62	58	25	73	68	65	64	64	60	26	75	70	67	66	66	62	28			
	2800	(1321)	0.030	(7.5)	<b>74</b>	69	66	64	64	60	27	75	70	67	66	66	62	28	77	72	69	68	68	64	31			
	3600	(1699)	0.045	(11.1)	76	71	68	66	66	62	29	77	72	69	68	68	64	31	79	74	71	70	70	66	33			
	4400	(2076)	0.060	(15.0)	78	72	69	68	67	64	31	79	73	70	70	69	66	32	81	75	72	72	71	68	35			
20 20 x 16	1100	(519)	0.008	(2.0)	66	64	63	60	59	59	23	67	65	64	61	60	60	24	68	66	65	62	61	61	25			
	1600	(755)	0.024	(6.0)	68	66	64	62	60	59	24	69	67	65	63	61	60	25	70	68	66	64	62	61	26			
	2500	(1180)	0.055	(13.7)	72	70	68	66	64	62	28	73	71	69	67	65	63	29	74	72	70	68	66	64	31			
	3000	(1416)	0.060	(14.9)	<b>74</b>	71	71	71	67	63	29	76	73	71	71	67	64	32	77	74	72	71	68	65	33			
	4600	(2171)	0.140	(34.8)	83	79	78	79	72	67	39	84	80	79	80	73	68	40	85	81	80	81	74	69	41			
	5300	(2501)	0.167	(41.6)	86	82	81	83	75	68	42	87	83	82	84	76	69	44	88	84	83	85	77	70	45			
	6200	(2926)	0.202	(50.3)	89	84	84	88	78	70	45	90	85	85	89	79	71	46	91	86	86	90	80	72	48			
24 24 x 16	1250	(590)	0.010	(2.5)	66	65	62	60	59	58	22	67	66	63	61	60	59	24	68	67	64	62	61	60	25			
	2000	(944)	0.015	(3.7)	70	68	66	64	61	59	26	71	69	67	65	62	60	27	72	70	68	66	63	61	28			
	3000	(1416)	0.020	(5.0)	77	73	69	67	64	62	32	78	74	70	68	65	63	33	79	75	71	69	66	64	34			
	4000	(1888)	0.025	(6.2)	80	76	72	70	67	64	35	81	77	73	71	68	65	37	82	78	74	72	69	66	38			
	5300	(2501)	0.040	(10.0)	<b>86</b>	85	81	77	74	71	46	87	86	82	78	75	72	47	88	87	83	79	76	73	48			
	6000	(2831)	0.050	(12.4)	89	88	84	80	77	74	50	90	89	85	81	78	75	51	91	90	86	82	79	76	52			
	7200	(3398)	0.070	(17.4)	91	90	86	82	79	76	52	92	91	87	83	80	77	53	93	92	88	84	81	78	54			

1. Performance data contained within a bold border outline are AHRI certified data.
2. Performance data not contained within a bold border outline are application ratings. Application ratings are outside the scope of the Certification Program.
3. Performance data is obtained from laboratory testing in accordance with AHRI 880-2011 and ANSI / ASHRAE 130-2008.
4. NC values are calculated using attenuation credits outlined in Appendix E of AHRI 885-2008.
5. Discharge Sound power levels shown with End Reflection Corrections Included in dB (ref:  $10^{-12}$  watts).
6. Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate.

**PH SERIES CASING LEAKAGE**

Casing Leakage, CFM						
Inlet Size	0.25" ΔPs	0.50" ΔPs	1.00" ΔPs	1.50" ΔPs	2.0" ΔPs	3.0" ΔPs
6	2	3	4	5	6	7
8	2	3	5	6	6	8
10	3	4	6	8	9	10
12	3	5	7	9	10	12
14	4	6	9	11	12	15
16	5	7	10	12	14	17
20	5	7	10	12	14	17
24	6	8	12	14	17	20

**DAMPER LEAKAGE**

Damper Leakage, CFM			
Inlet Size	1.5" ΔPs	3.0" ΔPs	6.0" ΔPs
6	3	4	7
8	3	4	7
10	4	5	7
12	4	5	7
14	4	6	8
16	4	6	8
20	N/A	N/A	N/A
24	N/A	N/A	N/A

**PH SERIES MINIMUM PRESSURES**

Unit Size	CFM	Unit ΔPs (in. wg)	Unit ΔPt (in. wg)	Unit + 1R Coil, ΔPs (in. wg)	Unit + 1R Coil, ΔPt (in. wg)	Unit + 2R Coil, ΔPs (in. wg)	Unit + 2R Coil, ΔPt (in. wg)
04 / 05 4-inch 5-inch	100	0.005	0.020	0.02	0.03	0.04	0.05
	200	0.020	0.079	0.06	0.12	0.10	0.16
	300	0.045	0.178	0.12	0.25	0.21	0.34
	400	0.080	0.316	0.20	0.44	0.34	0.58
06 6-inch	500	0.125	0.494	0.31	0.67	0.51	0.87
	600	0.180	0.712	0.39	0.92	0.69	1.22
08 8-inch	300	0.001	0.039	0.05	0.09	0.10	0.14
	400	0.001	0.069	0.08	0.15	0.16	0.23
	500	0.002	0.108	0.11	0.22	0.23	0.34
	600	0.003	0.155	0.15	0.30	0.32	0.47
	700	0.004	0.211	0.19	0.40	0.41	0.62
	800	0.005	0.275	0.25	0.52	0.52	0.79
	900	0.007	0.348	0.31	0.65	0.63	0.97
	1000	0.008	0.430	0.37	0.79	0.75	1.17
10 10-inch	400	0.004	0.030	0.04	0.07	0.09	0.12
	600	0.009	0.068	0.09	0.15	0.18	0.24
	800	0.016	0.121	0.15	0.25	0.29	0.39
	1000	0.025	0.189	0.21	0.38	0.41	0.58
	1200	0.036	0.272	0.29	0.52	0.58	0.81
	1400	0.049	0.370	0.38	0.70	0.78	1.10
	1600	0.063	0.483	0.48	0.90	—	—

**PH SERIES MINIMUM PRESSURES (continued)**

Unit Size	CFM	Unit ΔPs (in. wg)	Unit ΔPt (in. wg)	Unit + 1R Coil, ΔPs (in. wg)	Unit + 1R Coil, ΔPt (in. wg)	Unit + 2R Coil, ΔPs (in. wg)	Unit + 2R Coil, ΔPt (in. wg)
14 14-inch	1000	0.000	0.044	0.06	0.10	0.12	0.16
	1300	0.000	0.075	0.09	0.16	0.19	0.26
	1600	0.001	0.113	0.13	0.24	0.27	0.38
	2000	0.001	0.177	0.18	0.36	0.39	0.57
	2300	0.001	0.234	0.24	0.47	0.50	0.73
	2600	0.002	0.299	0.29	0.59	0.61	0.91
	3000	0.002	0.398	0.37	0.77	0.78	1.18
	3300	0.003	0.482	0.44	0.92	—	—
16 16-inch	1600	0.030	0.094	0.12	0.18	0.23	0.29
	2000	0.044	0.144	0.18	0.28	0.33	0.43
	2300	0.052	0.185	0.22	0.35	0.42	0.55
	2600	0.070	0.239	0.28	0.45	0.52	0.69
	3000	0.085	0.310	0.36	0.58	0.66	0.88
	3300	0.100	0.373	0.42	0.69	0.77	1.04
	3600	0.113	0.438	0.48	0.81	0.89	1.22
	4000	0.131	0.532	0.58	0.98	—	—

**PH SERIES MINIMUM PRESSURES (continued)**

Unit Size	CFM	Unit $\Delta P_s$ (in. wg)	Unit $\Delta P_t$ (in. wg)	Unit + 1R Coil, $\Delta P_s$ (in. wg)	Unit + 1R Coil, $\Delta P_t$ (in. wg)	Unit + 2R Coil, $\Delta P_s$ (in. wg)	Unit + 2R Coil, $\Delta P_t$ (in. wg)
<b>20</b> <b>20 x 16</b>	1500	0.008	0.028	0.05	0.07	0.11	0.13
	2000	0.013	0.049	0.08	0.12	0.17	0.21
	2500	0.021	0.077	0.13	0.19	0.25	0.31
	3000	0.030	0.111	0.18	0.26	0.35	0.43
	3500	0.041	0.151	0.23	0.34	0.45	0.56
	4000	0.053	0.198	0.29	0.44	0.56	0.71
	5000	0.083	0.309	0.44	0.67	0.82	1.05
	6000	0.120	0.445	0.61	0.94	—	—
<b>24</b> <b>24 x 16</b>	2000	0.014	0.040	0.06	0.09	0.12	0.15
	3000	0.031	0.090	0.13	0.19	0.24	0.30
	4000	0.056	0.160	0.22	0.32	0.40	0.50
	5000	0.087	0.250	0.33	0.49	0.59	0.75
	6000	0.125	0.360	0.45	0.68	0.81	1.04
	6500	0.152	0.428	0.52	0.80	—	—
	7000	0.173	0.493	0.59	0.91	—	—

- $\Delta P_s$  = static pressure drop;  $\Delta P_t$  = total pressure drop.
- Calculations of  $\Delta P_s$  and  $\Delta P_t$  were performed using standard air with a density of 0.075 lbm / cu.ft.
- Data based on testing standard METALAIR hot water coils per AHRI Standard 410.
- Unit  $\Delta P_s$  and Unit  $\Delta P_t$  are pressure drops across the air terminal unit while the inlet damper is in the wide-open position.
- Data applies to air terminal units with hot water coil mounted on the discharge side.
- “—” is shown when the static pressure drop exceeds 0.50 in. wg