

Performance Data (continued)

PESV, AESV, DESV • Hot Water Coil Capacity, MBH • 1- and 2-Row

Rows/ Circuits	G.P.M.	Head Loss	Air Flow, cfm									
			50	100	150	200	250	300	350	400	450	
One-Row Single Circuit	1.0	0.50	4.2	5.9	7.0	7.7	8.6	9.4	10.1	10.6	11.2	
	2.0	1.69	4.4	6.3	7.5	8.3	9.4	10.3	11.1	11.8	12.5	
	4.0	5.77	4.4	6.5	7.8	8.7	9.8	10.9	11.8	12.6	13.4	
	5.0	8.59	4.5	6.5	7.8	8.8	9.9	11.0	11.9	12.8	13.6	
	Airside ΔPs			0.01	0.01	0.02	0.03	0.05	0.07	0.09	0.12	0.14
Two-Row Multi- Circuit	1.0	0.24	5.3	8.6	11.0	12.9	14.4	15.6	16.7	17.6	18.4	
	3.0	1.66	5.5	9.4	12.5	15.0	17.1	19.0	20.7	22.2	23.5	
	5.0	4.06	5.6	9.6	12.8	15.5	17.9	19.9	21.8	23.5	25.0	
	7.0	7.39	5.6	9.7	13.0	15.8	18.2	20.4	22.3	24.1	25.7	
	Airside ΔPs			0.01	0.02	0.04	0.07	0.10	0.13	0.18	0.22	0.27

Rows/ Circuits	G.P.M.	Head Loss	Air Flow, cfm									
			100	200	300	400	500	600	700	800	900	
One-Row Single Circuit	1.0	0.69	6.9	9.2	10.7	12.2	13.4	14.5	15.3	16.1	16.8	
	2.0	2.34	7.2	9.9	11.7	13.6	15.1	16.4	17.6	18.6	19.5	
	3.0	4.77	7.4	10.2	12.1	14.1	15.8	17.2	18.5	19.6	20.7	
	4.0	7.96	7.4	10.3	12.3	14.4	16.1	17.7	19.0	20.2	21.3	
	Airside ΔPs			0.01	0.02	0.04	0.07	0.10	0.14	0.19	0.24	0.30
Two-Row Multi- Circuit	1.0	0.33	9.4	14.3	17.6	20.1	21.9	23.4	24.7	25.7	26.6	
	3.0	2.32	10.1	16.5	21.2	25.0	28.1	30.8	33.1	35.1	37.0	
	5.0	5.66	10.3	17.0	22.2	26.3	29.9	32.9	35.6	38.0	40.2	
	7.0	10.28	10.3	17.2	22.6	27.0	30.7	34.0	36.9	39.5	41.8	
	Airside ΔPs			0.01	0.04	0.08	0.13	0.20	0.27	0.36	0.46	0.56

Rows/ Circuits	G.P.M.	Head Loss	Air Flow, cfm									
			200	300	400	500	600	700	800	900	1000	
One-Row Multi- Circuit	2.0	0.68	11.7	13.8	15.3	17.0	18.5	19.8	21.0	22.0	23.0	
	3.0	1.40	12.1	14.4	16.0	18.0	19.7	21.2	22.5	23.7	24.8	
	5.0	3.41	12.5	15.0	16.7	18.9	20.8	22.4	23.9	25.3	26.6	
	6.0	4.72	12.6	15.1	16.9	19.1	21.1	22.8	24.3	25.8	27.1	
	Airside ΔPs			0.01	0.02	0.04	0.05	0.07	0.10	0.12	0.15	0.18
Two-Row Multi- Circuit	2.0	0.65	17.4	22.4	26.3	29.5	32.1	34.4	36.3	38.1	39.6	
	4.0	2.19	18.5	24.3	29.0	33.0	36.5	39.6	42.3	44.7	46.9	
	6.0	4.43	18.8	25.0	30.1	34.5	38.3	41.7	44.8	47.6	50.1	
	8.0	7.35	19.0	25.4	30.7	35.3	39.3	42.9	46.2	49.2	51.9	
	Airside ΔPs			0.02	0.04	0.07	0.10	0.14	0.18	0.23	0.29	0.35

Rows/ Circuits	G.P.M.	Head Loss	Air Flow, cfm									
			300	500	700	900	1100	1300	1500	1700	1900	
One-Row Multi- Circuit	2.0	0.88	14.7	17.3	19.6	21.4	22.9	24.1	25.2	26.0	26.8	
	3.0	1.81	16.4	19.9	23.0	25.7	28.0	29.9	31.5	32.9	34.2	
	5.0	4.40	17.5	21.6	25.4	28.7	31.6	34.0	36.2	38.1	39.9	
	6.0	6.08	17.9	22.3	26.3	29.9	33.0	35.8	38.2	40.3	42.3	
	Airside ΔPs			0.01	0.03	0.06	0.09	0.12	0.17	0.21	0.27	0.33
Two-Row Multi- Circuit	2.0	0.84	21.7	27.5	31.1	33.7	35.6	37.1	38.3	39.3	40.2	
	4.0	2.79	26.0	35.7	42.8	48.5	53.0	56.9	60.2	63.1	65.6	
	6.0	5.63	27.1	37.9	46.3	53.0	58.7	63.6	67.8	71.6	75.0	
	8.0	9.33	27.6	39.0	47.9	55.3	61.6	67.0	71.8	76.1	79.9	
	Airside ΔPs			0.02	0.06	0.11	0.16	0.23	0.32	0.41	0.51	0.62

Q

Performance Data



Performance Data (continued)

PESV, AESV, DESV • Hot Water Coil Capacity, MBH • 1- and 2-Row

Size 14	Rows/ Circuits	gpm	Head Loss	Airflow, cfm								
				400	700	1000	1300	1600	1900	2200	2500	2800
One-Row	Multi-Circuit	2.0	0.45	21.9	26.8	30.7	34.2	36.9	39.2	41.1	42.8	44.3
		3.0	0.95	23.2	28.8	33.4	37.5	40.9	43.8	46.3	48.4	50.3
	Airside ΔPs	5.0	2.31	24.3	30.6	36.0	40.9	45.0	48.5	51.6	54.3	56.7
		6.0	3.17	24.6	31.1	36.7	41.8	46.1	49.8	53.1	56.0	58.6
	Two-Row	Multi-Circuit	2.0	0.56	32.5	43.9	51.4	56.8	60.9	64.2	66.8	69.1
4.0			1.94	35.6	50.5	61.3	69.7	76.4	82.0	86.8	90.9	94.5
Airside ΔPs		6.0	3.89	36.8	53.2	65.5	75.3	83.4	90.3	96.3	101.5	106.1
		8.0	6.40	37.4	54.6	67.8	78.5	87.4	95.1	101.8	107.8	113.1
		0.02	0.05	0.10	0.16	0.23	0.31	0.41	0.51	0.63		

Size 16	Rows/ Circuits	gpm	Head Loss	Airflow, cfm								
				600	1000	1400	1800	2200	2600	3000	3400	3800
One-Row	Multi-Circuit	3.0	0.98	30.1	36.2	42.1	46.8	50.6	53.8	56.5	58.9	61.0
		5.0	2.44	31.9	38.9	46.0	51.7	56.4	60.4	63.9	67.1	69.8
	Airside ΔPs	7.0	4.38	32.7	40.3	47.9	54.1	59.4	63.9	67.9	71.4	74.6
		9.0	6.83	33.2	41.1	49.1	55.6	61.2	66.0	70.3	74.1	77.5
	Two-Row	Multi-Circuit	3.0	0.50	45.4	59.2	68.5	75.3	80.7	85.0	88.5	91.5
5.0			1.26	49.1	66.1	78.4	87.9	95.5	101.9	107.2	111.9	115.9
Airside ΔPs		7.0	2.25	50.8	69.6	83.6	94.6	103.7	111.4	118.0	123.7	128.8
		9.0	3.46	51.8	71.7	86.8	98.9	108.9	117.5	125.0	131.5	137.3
		0.03	0.07	0.13	0.21	0.30	0.40	0.51	0.64	0.78		

Size 24 x 16	Rows/ Circuits	gpm	Head Loss	Airflow, cfm								
				600	1200	1800	2400	3000	3600	4200	4800	5400
One-Row	Multi-Circuit	3.0	1.15	38.0	49.5	57.4	64.5	70.1	74.7	78.5	81.8	84.7
		5.0	2.90	40.3	53.8	63.4	72.4	79.8	85.9	91.1	95.7	99.7
	Airside ΔPs	7.0	5.20	41.3	55.9	66.5	76.5	84.8	91.8	97.8	103.2	107.9
		9.0	8.08	41.9	57.1	68.3	79.0	87.8	95.4	102.0	107.9	113.1
	Two-Row	Multi-Circuit	3.0	0.56	52.2	76.1	90.4	100.1	107.2	112.7	117.0	120.6
5.0			1.41	55.9	85.8	105.6	120.0	131.2	140.1	147.5	153.7	159.0
Airside ΔPs		7.0	2.51	57.6	90.6	113.5	130.8	144.6	155.9	165.4	173.5	180.6
		9.0	3.86	58.6	93.5	118.4	137.6	153.2	166.1	177.2	186.7	195.1
		0.01	0.04	0.09	0.15	0.23	0.31	0.41	0.52	0.64		



Q

Performance Data

- Hot water capacities are in MBH.
- Data are based upon 180°F entering water and 55°F entering air.
- Head loss is in feet of water.
- Tables are based upon a temperature difference of 125°F between entering air and entering water. For other temperature differences, multiply MBH values by factors below.
- Water enters at lower coil connection to prevent air entrapment.
- Air temperature rise = 927 x MBH/cfm.
- Water temperature drop = 2.04 x MBH/gpm.
- Connection: Single circuit, ½-inch O.D. male solder.
- Multi-circuit, ⅝-inch O.D. male solder.
- Coils are not for steam application.
- gpm's below minimum values listed may be in laminar flow range, reducing coil performance. Contact your TITUS representative for more information.

Correction Factors for Other Entering Conditions

Δ T	50	60	70	80	90	100	110	125	140	150
Factor	0.40	0.48	0.56	0.64	0.72	0.80	0.88	1.00	1.12	1.20

Note: Airside ΔPs reflects the air pressure drop of the hot water coil.