

Laboratory Room Single Duct Supply Air Terminal



Figure 1. Laboratory Room Single Duct Supply Air Terminal.

The APOGEE® Automation Laboratory Room Single Duct Supply Air Terminal is an industrial-grade, easy-to-install pre-packaged airflow measurement and control terminal unit. The Laboratory Room Single Duct Supply Air Terminal is a round inlet, rectangular outlet, one piece insulated and lined terminal that provides cooling only or cooling with hot water reheat. When used with the Laboratory Room Controller, it provides fast acting, stable and precise laboratory supply airflow control over the entire range of room airflow requirements.

Measurement of airflow is accomplished by four quadrant sensing technology to achieve measurement accuracy of 3% of actual flow (sensor only). Airflow control is achieved utilizing a round single blade damper mounted on a zinc plated steel shaft with polyethylene bushings and mechanical stops. Construction is 22 gauge-galvanized steel, including the casing and damper.

Features

- Eight standard sizes with airflow capacities from 35 to 8530 cfm - others are available.
- Four quadrant airflow sensor with multi-point, center averaging and signal amplification.
- Low radiated and discharge sound levels.
- ARI-certified sound performance ratings.
- 22 gauge casing with slip and drive discharge connection.
- Solid zinc plated steel damper shaft on self lubricating polyethylene bushings for fast acting control and maintenance free operation.
- Low non-recoverable static pressure loss.
- Round, beaded inlet collar accepts nominal flexible or rigid duct (size 18 has rectangular inlet).
- Internal insulation 3/4-inch fiber-free foam which meets requirements of NFPA 90A and UL181. Closed cell structure foam allows for disinfecting and hand washing with detergents and water.
- Meets mechanical standards UL 181, NFPA 90A, ASTM E84, UL 723 and bacteria standard ASTM C665.
- Ultra-low leakage, damper and casing.
- Up to four rows of hot water reheat coils.

Description

The Single Duct Supply Terminal consists of the following components (refer to Figures 2 through 6).

- Galvanized steel round inlet duct, damper blade in sizes from 4" (10.1 cm) to 16" (40.6 cm) diameter; size 18 unit has a rectangular 16 × 24 inlet and two 16" (40.6 cm) diameter dampers.
- Four quadrant airflow measurement sensor
- Rectangular, lined and insulated casing with slip and drive outlet connections.
- Factory-mounted controls options.
- Pneumatic or electronic damper control.

Specifications

Materials (within air stream) - Standard		Materials (outside air stream) - Standard	
Duct Casing	22 gauge galvanized steel with mechanically locked and sealed seam	Control Enclosure	18 gauge two piece galvanized steel
Airflow Sensor	PVC sensing arms and center manifold with galvanized steel frame	Pneumatic Tubing	UL rated 94 V-2 fire retardant polyethylene
Damper Blade	22 gauge, galvanized steel single damper with Volara foam gasket	Pneumatic Fittings	Brass, dual barbed
Damper Shaft	1/2-inch (1.27 cm) diameter, zinc-plated steel. Shaft end marked with the damper blade position	Airflow Measurement	
Damper Bushing	Self lubricating polyethylene	Sensor Type	Four quadrant, with 12 sensing points, center averaging, and signal amplification
Case Insulation	3/4-fiber free foam. Density 1.5 lb/ft3 Meets NFPA 90A UL181 Flame Spread rating <25 Smoke Developed rating < 50 Meets ASTM E84 UL 723, bacteria stand. ASTM C665	Accuracy	
Hot water reheat coils (optional)	22 gauge, galvanized casing, Aluminum sine wave fins (thickness 0.0045") Copper tubes, 0.016" wall Meets ARI 410	Flow Measurement	±3% of actual flow @ listed ranges (sensor only. Does not include accuracy of controller or transmitter)
Dimensions		Installation Requirements	Rigid duct of the same diameter 1 × duct diameter upstream from the sensor is required.
Weight	19 to 63 lbs. (8.6 to 28.6 kg)	Airflow Control	
		Damper Blade	Round, sealing single blade with 90 degree control with two mechanical stops
		Non-Recoverable Terminal	
		Pressure Loss	See Table 4
		Environmental	
		Operating Temperature/% rh	40 to 120 °F (4 to 50 °C) 0 to 95% non-condensing
		Storage Temperature/% rh	-10 to 150 °F (-23 to 65 °C) 0 to 95% non-condensing

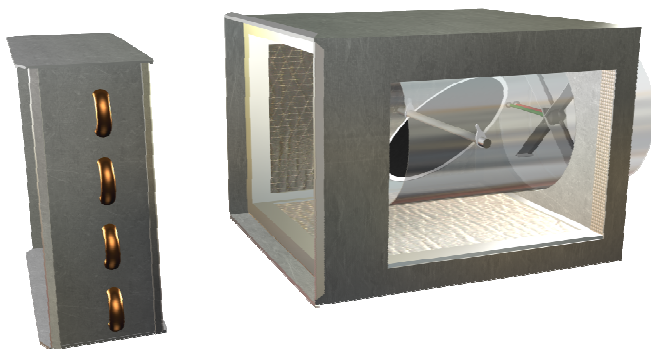


Figure 2. Single Duct Supply Air Terminal Components with Reheat (cut view).

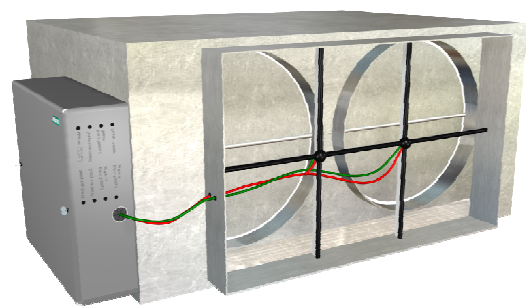
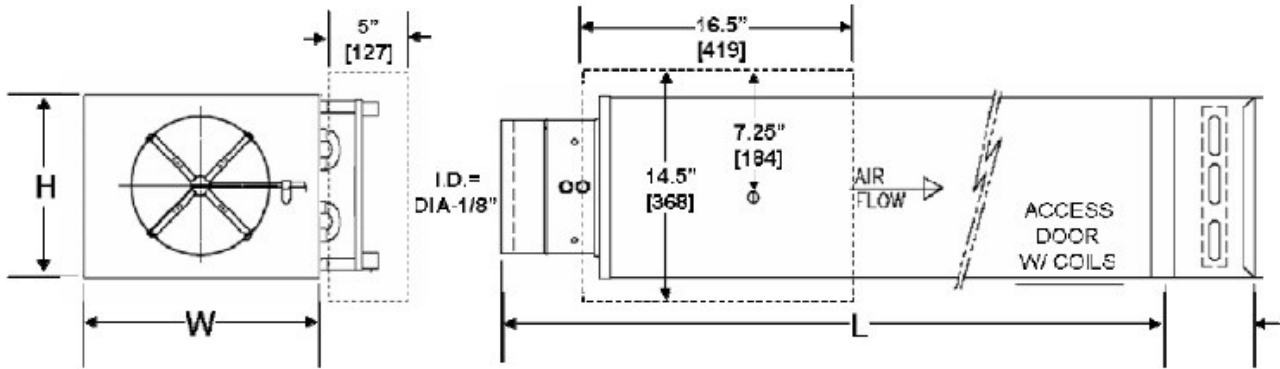


Figure 3. High Capacity Single Duct Supply Air Terminal Components.

Single Duct Supply Air Terminal Components (inlet view).

Dimensions



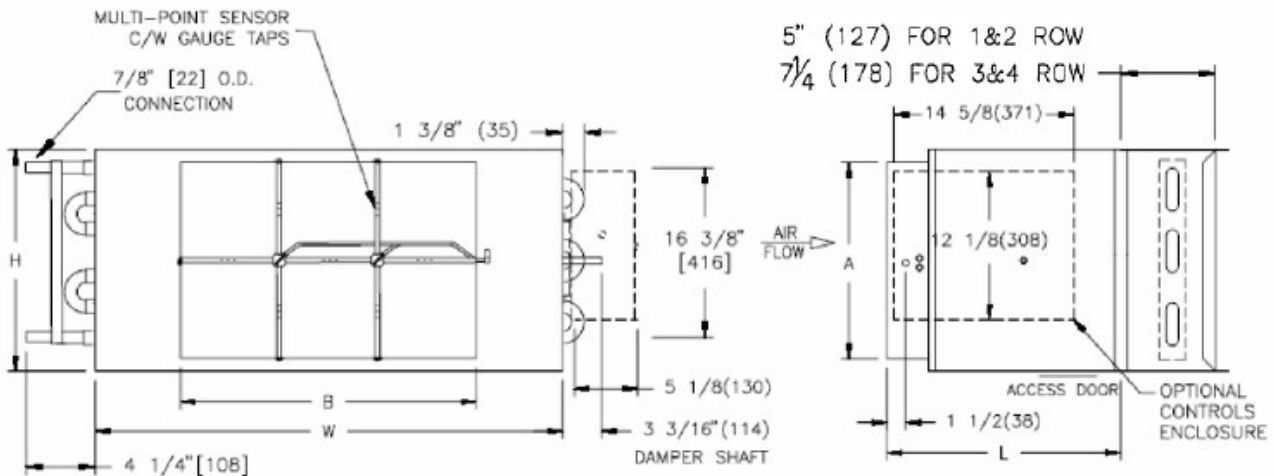
5" (127) FOR 1&2 ROW
 $7\frac{1}{4}$ (178) FOR 3&4 ROW

WATER COIL CONNECTIONS:
 SZ.4-8, 1 ROW: TUBES ARE 3" [76] LONG, 1/2" [13] DIA
 ALL OTHER SIZES: TUBES ARE 4 1/4" [108] LONG, 7/8" [22] DIA

UNIT SIZE	S.I. UNITS mm						IMPERIAL UNITS inches					
	OUTLET		INLET	LENGTH	LENGTH	LENGTH	OUTLET		INLET	LENGTH	LENGTH	LENGTH
	W	H	D	L	L (3'ATT)	L (5'ATT)	W	H	D	L	L (3'ATT)	L (5'ATT)
4 *	305	203	102	562	1476	2086	12	8	4	22 1/8	58 1/8	82 1/8
6		152	6									
7	305	254	178	511	1425	2035	12	10	7	20 1/8	56 1/8	80 1/8
8			203									
9	356	318	229	587	1502	2111	14	12 1/2	9	23 1/8	59 1/8	83 1/8
10			254									
12	406	381	305	587	1502	2111	16	15	12	23 1/8	59 1/8	83 1/8
14	508	445	356									
16	610	457	406	587	1502	2111	24	18	16	23 1/8	59 1/8	83 1/8

* - SZ. 6 UNIT WITH 4" INLET REDUCER ATTACHED.

UNIT SIZE	S.I. UNITS mm							IMPERIAL UNITS inches						
	OUTLET		INLET		LENGTH	LENGTH	LENGTH	OUTLET		INLET		LENGTH	LENGTH	LENGTH
	W	H	B	A	L	L (3'ATT)	L (5'ATT)	W	H	B	A	L	L (3'ATT)	L (5'ATT)
18	965	457	603	403	483	1397	2007	38	18	23 7/8	15 7/8	19	55	79



5" (127) FOR 1&2 ROW
 $7\frac{1}{4}$ (178) FOR 3&4 ROW

Table 1. Airflow Ranges.

INLET SIZE	MAXIMUM FLOW @ 1.0"dp		MAXIMUM FLOW @ 2.0"dp		FLOW SENSOR INLET AREA		Flow Coefficient
	CFM	L/S	CFM	L/S	SQ. FT	M2	
4	340	160	48	23	0.087	0.008	0.976
5	426	201	60	28	0.136	0.013	0.782
6	468	221	66	31	0.196	0.018	0.596
7	673	318	95	45	0.267	0.025	0.629
8	923	436	126	59	0.349	0.032	0.660
9	1155	545	163	77	0.442	0.041	0.652
10	1487	702	210	99	0.545	0.051	0.681
12	2141	1010	303	143	0.785	0.073	0.681
14	3045	1437	431	203	1.069	0.099	0.711
16	4074	1923	576	272	1.396	0.130	0.729
18(16x24)	7785	3674	1101	520	2.667	0.248	0.729

Table 2. Minimum Non-Recoverable Terminal Pressure Drop Across Assembly.

Terminal Size	Airflow		Without Reheat (inch W.C)	With Hot Water Coils (in. W.C.)			
	CFM	L/s		1 Row	2 Row	3 Row	4 Row
04	75	35	0.01	0.02	0.03	0.03	0.04
	125	59	0.01	0.03	0.05	0.07	0.08
	225	106	0.01	0.05	0.11	0.16	0.21
	280	132	0.01	0.08	0.15	0.22	0.30
06	125	59	0.01	0.03	0.05	0.07	0.08
	250	118	0.01	0.11	0.18	0.24	0.30
	375	177	0.01	0.24	0.36	0.48	0.59
	500	236	0.01	0.40	0.60	0.78	0.97
08	175	83	0.01	0.03	0.05	0.07	0.09
	375	177	0.01	0.08	0.15	0.23	0.30
	775	366	0.01	0.24	0.49	0.74	0.98
	975	460	0.01	0.35	0.72	1.08	1.43
10	250	118	0.01	0.03	0.05	0.07	0.09
	550	260	0.01	0.08	0.16	0.23	0.30
	1150	543	0.01	0.25	0.51	0.76	1.01
	1450	684	0.01	0.36	0.75	1.11	1.48
12	350	165	0.01	0.03	0.05	0.06	0.09
	380	401	0.01	0.09	0.19	0.27	0.36
	1850	873	0.01	0.32	0.66	0.99	1.31
	2350	1109	0.01	0.48	0.98	1.47	1.96
14	500	236	0.01	0.03	0.05	0.07	0.09
	1250	590	0.01	0.09	0.19	0.28	0.36
	2000	944	0.01	0.20	0.40	0.60	0.80
	2750	1298	0.01	0.33	0.68	1.02	1.36
16	600	283	0.01	0.03	0.05	0.07	0.09
	1400	661	0.01	0.08	0.17	0.25	0.33
	3000	1416	0.01	0.28	0.58	0.87	1.16
	3800	1793	0.01	0.42	0.86	1.29	1.72
18	1500	708	0.01	0.05	0.09	0.14	0.18
	3500	1652	0.01	0.17	0.35	0.53	0.70
	5500	2596	0.01	0.36	0.74	1.11	1.48
	7500	3540	0.01	0.61	1.25	1.86	2.48

Table 3. Hot Water Reheat Coil Capacities.*

UNIT SIZE 04, 06

1-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	75	100	200	300	400	500	600	
	Heating Capacity (MBH)							
0.50	4.4	5.0	6.8	7.9	8.6	9.2	9.6	0.13
0.75	4.6	5.4	7.4	8.8	9.7	10.5	11.0	0.28
1.00	4.7	5.6	7.8	9.3	10.4	11.2	11.9	0.49
1.50	4.9	5.8	8.3	9.9	11.2	12.2	13.0	1.06
2.00	5.0	5.9	8.5	10.3	11.6	12.7	13.6	1.86
2.50	5.0	6.0	8.7	10.5	11.9	13.1	14.0	2.87
3.00	5.0	6.0	8.8	10.7	12.1	13.3	14.3	4.08
4.00	5.1	6.1	8.9	10.9	12.4	13.7	14.7	7.13

Air Side Pressure Drop (Inches WC)

0.01	0.01	0.04	0.07	0.12	0.18	0.24
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UNIT SIZE 04, 06

2-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	75	100	200	300	400	500	600	
	Heating Capacity (MBH)							
0.60	6.3	7.4	10.5	12.3	13.5	14.4	15.1	0.05
0.75	6.5	7.8	11.2	13.3	14.8	15.9	16.8	0.07
1.00	6.7	8.1	12.0	14.5	16.3	17.7	18.8	0.12
1.50	7.0	8.5	13.0	16.0	18.2	20.0	21.4	0.27
2.00	7.2	8.8	13.6	16.9	19.4	21.4	23.0	0.47
2.50	7.3	8.9	13.9	17.5	20.2	22.4	24.2	0.72
3.00	7.3	9.0	14.2	17.9	20.7	23.1	25.0	1.02
4.00	7.4	9.1	14.5	18.4	21.5	24.0	26.1	1.79

Air Side Pressure Drop (Inches WC)

0.02	0.03	0.08	0.16	0.26	0.38	0.51
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UNIT SIZE 04, 06

3-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	75	100	200	300	400	500	600	
	Heating Capacity (MBH)							
1.00	8.2	10.2	15.7	19.2	21.7	23.6	25.0	0.19
1.50	8.5	10.5	16.8	21.1	24.3	26.8	28.8	0.42
2.00	8.6	10.7	17.5	22.3	25.9	28.8	31.1	0.72
2.50	8.6	10.9	17.9	23.0	26.9	30.1	32.7	1.11
3.00	8.7	11.0	18.2	23.5	27.6	31.0	33.9	1.58
4.00	8.7	11.1	18.5	24.1	28.6	32.3	35.4	2.74
5.00	8.8	11.1	18.8	24.6	29.2	33.1	36.4	4.23
6.00	8.8	11.2	18.9	24.9	29.7	33.7	37.1	6.01

Air Side Pressure Drop (Inches WC)

0.02	0.04	0.12	0.24	0.39	0.56	0.77
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UNIT SIZE 04, 06

4-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	75	100	200	300	400	500	600	
	Heating Capacity (MBH)							
1.5	9.1	11.5	18.9	23.9	27.5	30.3	32.6	0.23
3	9.3	11.9	20.5	26.8	31.8	35.9	39.3	0.88
4	9.4	12.1	20.9	27.7	33.1	37.6	41.4	1.55
5	9.4	12.1	21.2	28.2	34.0	38.7	42.8	2.39
6	9.4	12.2	21.4	28.6	34.5	39.5	43.8	3.41
7	9.5	12.2	21.5	28.9	34.9	40.1	44.5	4.61
8	9.5	12.2	21.6	29.1	35.3	40.5	45.1	5.98
9	9.5	12.2	21.7	29.2	35.5	40.9	45.6	7.53

Air Side Pressure Drop (Inches WC)

0.03	0.05	0.16	0.32	0.52	0.75	1.02
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UNIT SIZE 08

1-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	150	350	500	650	800	950	1100	
	Heating Capacity (MBH)							
0.5	6.9	9.6	10.7	11.5	12.1	12.6	13.0	0.17
1.0	7.8	11.4	13.1	14.4	15.3	16.1	16.8	0.66
1.5	8.1	12.3	14.2	15.7	16.9	17.9	18.7	1.44
2.0	8.3	12.7	14.8	16.5	17.8	18.9	19.8	2.50
2.5	8.4	13.0	15.2	17.0	18.4	19.6	20.6	3.85
3.0	8.5	13.2	15.5	17.3	18.8	20.1	21.2	5.48
4.0	8.6	13.5	15.9	17.8	19.4	20.7	21.9	9.56
4.5	8.7	13.6	16.1	18.0	19.6	21.0	22.2	12.01

Air Side Pressure Drop (Inches WC)

0.01	0.06	0.11	0.17	0.24	0.33	0.42
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UNIT SIZE 08

2-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	150	350	500	650	800	950	1100	
	Heating Capacity (MBH)							
0.6	10.2	14.7	16.4	17.7	18.5	19.2	19.8	0.06
1.0	11.4	17.5	20.2	22.1	23.6	24.7	25.7	0.17
2.0	12.5	20.5	24.4	27.3	29.7	31.6	33.2	0.64
3.0	12.9	21.8	26.2	29.7	32.5	34.9	36.9	1.39
4.0	13.2	22.5	27.3	31.1	34.2	36.8	39.1	2.43
5.0	13.3	23.0	28.0	32.0	35.3	38.1	40.5	3.72
6.0	13.4	23.3	28.5	32.6	36.1	39.0	41.6	5.32
7.0	13.5	23.5	28.8	33.1	36.7	39.7	42.4	7.14

Air Side Pressure Drop (Inches WC)

0.03	0.13	0.23	0.36	0.51	0.68	0.87
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*** Notes:**

All capacities are based on 180°F entering water temperature and 55°F entering air temperature. For other air and water inlet temperature conditions, use the correction factors shown in Table 5 to multiply the given heating capacity for each size.

1 MBH = 1000 BTU/Hr.

MBH Required = 0.00108 × CFM × Temp. Rise

Table 3. Hot Water Reheat Coil Capacities.*

UNIT SIZE 08

3-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	150	350	500	650	800	950	1100	
Heating Capacity (MBH)								
1.0	14.4	23.0	26.6	29.1	30.9	32.4	33.5	0.26
1.5	15.1	25.5	30.2	33.7	36.4	38.5	40.3	0.57
2.0	15.5	26.9	32.4	36.5	39.8	42.5	44.7	0.98
2.5	15.8	27.8	33.8	38.5	42.2	45.2	47.8	1.51
3.0	15.9	28.4	34.8	39.8	43.9	47.2	50.1	2.14
4.0	16.1	29.3	36.2	41.7	46.2	50.0	53.3	3.71
5.0	16.2	29.8	37.1	42.9	47.7	51.8	54.4	5.71
6.0	16.3	30.2	37.7	43.7	48.8	53.1	56.9	8.11

UNIT SIZE 08

4-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	150	350	500	650	800	950	1100	
Heating Capacity (MBH)								
2.0	16.8	29.6	35.6	40.0	43.4	46.1	48.3	0.27
2.5	17.1	30.8	37.6	42.6	46.6	49.9	52.5	0.42
3.0	17.3	31.7	39.0	44.6	49.0	52.7	55.7	0.59
4.0	17.6	32.9	40.9	47.3	52.4	56.7	60.3	1.04
6.0	17.8	34.1	43.0	50.3	56.3	61.4	65.8	2.30
8.0	17.9	34.7	44.2	51.9	58.4	64.0	68.9	4.04
10.0	18.0	35.2	44.9	53.0	59.8	65.7	70.9	6.26
12.0	18.1	35.4	45.4	53.7	60.8	66.9	72.3	8.95

Air Side Pressure Drop (Inches WC)

0.05	0.19	0.35	0.54	0.77	1.02	1.31
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Air Side Pressure Drop (Inches WC)

0.06	0.26	0.46	0.72	1.02	1.36	1.74
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UNIT SIZE 10

1-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	200	400	600	800	1000	1400	1600	
Heating Capacity (MBH)								
1.0	9.9	13.4	15.5	17.0	18.1	19.7	20.3	0.11
2.0	11.0	15.4	18.3	20.5	22.1	24.6	25.6	0.42
3.0	11.4	16.3	19.6	22.0	23.9	26.9	28.1	0.92
4.0	11.6	16.8	20.3	22.9	25.0	28.3	29.6	1.60
5.0	11.8	17.1	20.7	23.5	25.7	29.2	30.6	2.47
6.0	11.9	17.3	21.0	23.9	26.2	29.9	31.3	3.52
7.0	11.9	17.5	21.3	24.2	26.6	30.4	31.9	4.74
8.0	12.0	17.6	21.4	24.4	26.9	30.7	32.3	6.13

UNIT SIZE 10

2-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	200	400	600	800	1000	1400	1600	
Heating Capacity (MBH)								
1.0	14.5	20.4	23.8	26.1	27.7	30.0	30.9	0.23
2.0	16.4	24.5	29.8	33.6	36.5	40.8	42.5	0.88
3.0	17.2	26.3	32.5	37.2	40.9	46.4	48.6	1.93
4.0	17.6	27.3	34.2	39.4	43.5	49.9	52.5	3.35
5.0	17.9	28.0	35.2	40.8	45.3	52.3	55.1	5.14
6.0	18.0	28.5	36.0	41.8	46.6	54.0	57.1	7.31
7.0	18.2	28.8	36.5	42.6	47.6	55.4	58.6	9.84
8.0	18.3	29.1	37.0	43.2	48.3	56.4	59.7	12.73

Air Side Pressure Drop (Inches WC)

0.01	0.04	0.08	0.13	0.19	0.33	0.42
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Air Side Pressure Drop (Inches WC)

0.03	0.09	0.17	0.27	0.39	0.69	0.87
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UNIT SIZE 10

3-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	200	400	600	800	1000	1400	1600	
Heating Capacity (MBH)								
1.5	19.8	29.9	36.1	40.3	43.4	47.8	49.3	0.29
3.0	21.2	34.0	42.9	49.5	54.7	62.5	65.5	1.12
4.0	21.6	35.2	45.0	52.5	58.4	67.6	71.2	1.97
5.0	21.8	35.9	46.3	54.3	60.9	71.0	75.0	3.03
6.0	21.9	36.5	47.2	55.7	62.6	73.5	77.9	4.32
7.0	22.0	36.8	47.9	56.7	63.9	75.4	80.0	5.84
8.0	22.1	37.1	48.4	57.5	64.9	76.8	81.7	7.57
9.0	22.2	37.3	48.8	58.1	65.8	78.0	83.1	9.51

UNIT SIZE 10

4-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	200	400	600	800	1000	1400	1600	
Heating Capacity (MBH)								
2.0	22.5	36.0	44.7	50.7	55.2	61.5	63.8	0.33
2.5	23.0	37.5	47.3	54.4	59.8	67.5	70.4	0.51
3.0	23.3	38.6	49.2	57.1	63.2	72.2	75.6	0.73
4.0	23.6	39.9	51.8	60.8	68.0	78.9	83.2	1.28
6.0	24.0	41.3	54.5	65.0	73.5	86.9	92.2	2.82
8.0	24.2	42.1	56.0	67.2	76.6	91.4	97.5	4.94
10.0	24.3	42.5	56.9	68.6	78.5	94.4	100.9	7.65
12.0	24.3	42.8	57.5	69.6	79.9	96.4	103.3	10.92

Air Side Pressure Drop (Inches WC)

0.04	0.13	0.25	0.41	0.59	1.04	1.30
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Air Side Pressure Drop (Inches WC)

0.06	0.17	0.34	0.54	0.79	1.39	1.74
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*** Notes:**

All capacities are based on 180°F entering water temperature and 55°F entering air temperature. For other air and water inlet temperature conditions, use the correction factors shown in Table 5 to multiply the given heating capacity for each size.

1 MBH = 1000 BTU/Hr.

MBH Required = 0.00108 × CFM × Temp. Rise

Table 3. Hot Water Reheat Coil Capacities.*

UNIT SIZE 12

1-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	400	600	800	1200	1600	2000	2500	
Heating Capacity (MBH)								
2.0	17.9	21.5	24.1	27.9	30.7	32.8	34.8	0.55
3.0	18.8	22.9	25.9	30.5	33.8	36.3	38.9	1.21
4.0	19.4	23.7	27.0	31.9	35.6	38.5	41.4	2.11
5.0	19.7	24.2	27.7	32.9	36.8	39.9	43.0	3.24
6.0	20.0	24.6	28.1	33.6	37.6	40.9	44.2	4.61
7.0	20.1	24.8	28.5	34.1	38.3	41.7	45.1	6.22
9.0	20.4	25.2	29.0	34.8	39.2	42.8	46.4	10.11
10.0	20.4	25.3	29.1	35.0	39.4	43.0	46.7	11.22

UNIT SIZE 12

2-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	400	600	800	1200	1600	2000	2500	
Heating Capacity (MBH)								
2.0	28.1	34.8	39.8	46.9	51.9	55.5	59.1	0.45
3.0	29.9	37.7	43.8	52.7	59.1	64.0	68.8	0.99
4.0	30.9	39.4	46.0	56.1	63.4	69.2	75.0	1.74
5.0	31.5	40.5	47.5	58.3	66.4	72.8	79.2	2.68
6.0	32.0	41.2	48.6	59.9	68.5	75.4	82.3	3.83
7.0	32.3	41.8	49.4	61.1	70.1	77.3	84.7	5.17
9.0	32.8	42.5	50.4	62.9	72.4	80.1	88.1	8.45
10.0	32.9	42.8	50.8	63.5	73.2	81.2	89.3	10.37

Air Side Pressure Drop (Inches WC)

0.02	0.04	0.07	0.15	0.24	0.36	0.52
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Air Side Pressure Drop (Inches WC)

0.05	0.10	0.16	0.32	0.51	0.74	1.08
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UNIT SIZE 12

3-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	400	600	800	1200	1600	2000	2500	
Heating Capacity (MBH)								
1.5	33.1	40.4	45.5	52.0	56.1	58.9	61.5	0.37
3.0	37.3	47.9	55.9	67.3	75.3	81.2	86.9	1.40
4.0	38.5	50.0	59.0	72.4	82.0	89.3	96.5	2.44
5.0	39.2	51.4	61.1	75.7	86.5	94.9	103.2	3.76
6.0	39.7	52.3	62.5	78.1	89.8	99.0	108.1	5.34
7.0	40.0	53.0	63.5	79.9	92.2	102.1	111.9	7.22
9.0	40.5	54.0	65.0	82.4	95.7	106.5	117.4	11.73
10.0	40.7	54.3	65.5	83.3	97.0	108.1	119.5	14.42

UNIT SIZE 12

4-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	400	600	800	1200	1600	2000	2500	
Heating Capacity (MBH)								
2.0	39.3	49.5	56.7	66.3	72.3	76.5	80.3	0.40
4.0	43.0	56.9	67.7	83.7	95.0	103.5	111.6	1.55
5.0	43.8	58.5	70.2	88.0	101.0	110.9	120.6	2.40
6.0	44.3	59.6	72.0	91.1	105.3	116.4	127.3	3.42
8.0	45.0	61.0	74.3	95.2	111.2	123.9	136.7	5.96
9.0	45.2	61.5	75.1	96.6	113.2	126.6	140.1	7.51
10.0	45.4	61.9	75.7	97.8	114.9	128.8	142.9	9.22
12.0	45.6	62.5	76.7	99.6	117.6	132.3	147.3	13.16

Air Side Pressure Drop (Inches WC)

0.08	0.15	0.24	0.47	0.77	1.11	1.62
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Air Side Pressure Drop (Inches WC)

0.10	0.20	0.32	0.63	1.02	1.49	2.16
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UNIT SIZE 14

1-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	500	800	1200	1700	2200	2700	3400	
Heating Capacity (MBH)								
1.0	20.0	23.8	26.9	29.5	31.2	32.5	33.9	0.20
2.0	23.4	28.9	33.8	38.1	41.2	43.6	46.3	0.76
3.0	24.8	31.1	36.9	42.2	46.1	49.2	52.7	1.65
4.0	25.6	32.4	38.8	44.6	49.0	52.6	56.6	2.87
5.0	26.1	33.2	40.0	46.2	51.0	54.8	59.2	4.41
6.0	26.4	33.7	40.8	47.3	52.4	56.5	61.2	6.26
8.0	26.9	34.5	41.9	48.9	54.3	58.7	63.8	10.92
10.0	27.2	35.0	42.6	49.8	55.5	60.1	65.5	16.80

UNIT SIZE 14

2-Row Coil								Waterside Head Loss (ft.wg.)
GPM	Airflow, CFM							
	500	800	1200	1700	2200	2700	3400	
Heating Capacity (MBH)								
1.5	32.3	40.0	46.4	51.5	55.0	57.5	60.1	0.33
3.0	37.6	48.8	59.1	68.1	74.7	79.8	85.2	1.27
4.0	39.1	51.6	63.4	74.0	81.9	88.2	95.0	2.21
5.0	40.2	53.4	66.3	78.0	87.0	94.1	102.0	3.41
6.0	40.9	54.7	68.3	81.0	90.7	98.5	107.2	4.85
7.0	41.4	55.7	69.9	83.2	93.5	101.8	111.3	6.55
9.0	42.1	57.0	72.1	86.4	97.6	106.8	117.3	10.65
10.0	42.4	57.5	72.9	87.6	99.1	108.6	119.5	13.09

Air Side Pressure Drop (Inches WC)

0.02	0.04	0.08	0.14	0.22	0.31	0.46
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Air Side Pressure Drop (Inches WC)

0.04	0.09	0.17	0.30	0.46	0.65	0.96
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*** Notes:**

All capacities are based on 180°F entering water temperature and 55°F entering air temperature. For other air and water inlet temperature conditions, use the correction factors shown in Table 5 to multiply the given heating capacity for each size.

1 MBH = 1000 BTU/Hr.

MBH Required = 0.00108 × CFM × Temp. Rise

Table 3. Hot Water Reheat Coil Capacities.*

UNIT SIZE 14

3-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	500	800	1200	1700	2200	2700	3400	
	Heating Capacity (MBH)							
2	43.7	55.5	65.3	72.9	77.9	81.5	85.0	0.41
4	48.8	65.7	81.5	95.3	105.3	113.0	121.1	1.55
5	49.9	68.0	85.5	101.2	112.9	121.9	131.8	2.40
6	50.6	69.6	88.3	105.5	118.4	128.7	140.0	3.42
8	51.6	71.6	92.0	111.2	126.1	138.0	151.4	5.97
9	51.9	72.4	93.3	113.3	128.8	141.4	155.6	7.52
10	52.1	72.9	94.4	115.0	131.1	144.2	159.1	9.23
12	52.5	73.8	96.0	117.6	134.6	148.6	164.7	13.15

Air Side Pressure Drop (Inches WC)

0.06	0.13	0.25	0.45	0.69	0.98	1.44
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UNIT SIZE 14

4-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	500	800	1200	1700	2200	2700	3400	
	Heating Capacity (MBH)							
3.5	52.6	70.8	87.1	100.7	110.0	116.8	123.8	0.49
7	56.3	79.2	102.3	123.5	139.5	152.0	165.8	1.90
10	57.4	82.0	107.6	132.1	151.1	166.5	183.7	3.83
12	57.8	83.1	109.8	135.7	156.1	172.7	191.7	5.49
14	58.1	83.9	111.3	138.3	159.8	177.5	197.7	7.43
16	58.4	84.5	112.6	140.4	162.7	181.2	202.5	9.67
19	58.6	85.2	113.9	142.7	166.0	185.5	208.1	13.57
21	58.8	85.5	114.6	143.9	167.7	187.7	211.0	16.53

Air Side Pressure Drop (Inches WC)

0.08	0.17	0.34	0.60	0.93	1.31	1.92
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UNIT SIZE 16

1-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	600	1000	1500	2000	2500	3500	4400	
	Heating Capacity (MBH)							
2.0	27.5	34.3	39.9	43.8	46.8	51.2	54.0	0.86
3.0	29.3	37.3	44.0	49.0	52.8	58.6	62.4	1.87
4.0	30.4	39.0	46.5	52.1	56.4	63.1	67.6	3.25
5.0	31.0	40.1	48.1	54.1	58.9	66.2	71.2	5.00
6.0	31.5	40.9	49.3	55.6	60.6	68.4	73.8	7.08
7.0	31.8	41.5	50.1	56.7	62.0	70.2	75.8	9.55
8.0	32.1	41.9	50.8	57.5	63.0	71.5	77.4	12.35
10.0	32.5	42.6	51.8	58.8	64.5	73.5	79.8	19.00

Air Side Pressure Drop (Inches WC)

0.02	0.04	0.08	0.14	0.20	0.36	0.53
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UNIT SIZE 16

2-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	600	1000	1500	2000	2500	3500	4400	
	Heating Capacity (MBH)							
2.0	40.4	51.5	60.2	66.0	70.3	76.1	79.7	0.64
3.0	44.1	57.9	69.5	77.7	83.9	92.8	98.4	1.40
4.0	46.2	61.8	75.3	85.1	92.7	103.9	111.3	2.45
5.0	47.5	64.3	79.2	90.2	98.9	111.9	120.6	3.77
6.0	48.5	66.1	82.0	94.0	103.5	117.9	127.6	5.35
7.0	49.2	67.5	84.1	96.8	107.0	122.6	133.2	7.24
9.0	50.2	69.4	87.2	100.9	112.1	129.4	141.4	11.75
10.0	50.5	70.1	88.3	102.5	114.0	132.0	144.5	14.44

Air Side Pressure Drop (Inches WC)

0.04	0.09	0.18	0.29	0.42	0.74	1.09
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UNIT SIZE 16

3-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	600	1000	1500	2000	2500	3500	4400	
	Heating Capacity (MBH)							
2.5	52.7	68.5	80.5	88.3	93.7	101.0	105.4	0.42
5.0	58.7	81.0	100.4	114.4	125.0	140.4	150.2	1.62
6.0	59.8	83.4	104.5	120.0	132.0	149.7	161.2	2.31
8.0	61.1	86.5	109.9	127.7	141.7	163.0	177.2	4.06
10.0	61.9	88.5	113.4	132.7	148.2	172.0	188.2	6.26
12.0	62.5	89.8	115.9	136.2	152.8	178.5	196.2	8.96
13.0	62.7	90.4	116.8	137.6	154.6	181.1	199.5	10.47
15.0	63.1	91.2	118.4	139.9	157.6	185.5	204.9	13.84

Air Side Pressure Drop (Inches WC)

0.06	0.14	0.27	0.44	0.63	1.11	1.64
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UNIT SIZE 16

4-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	600	1000	1500	2000	2500	3500	4400	
	Heating Capacity (MBH)							
4.5	63.5	87.8	108.0	121.9	132.2	146.3	155.0	0.59
9.0	67.7	98.2	126.5	148.0	165.0	190.4	207.1	2.33
12.0	68.8	101.0	131.9	156.0	175.5	205.3	225.5	4.12
15.0	69.4	102.7	135.3	161.1	182.3	215.3	238.1	6.40
18.0	69.8	103.9	137.7	164.7	187.1	222.5	247.2	9.19
22.0	70.2	105.0	139.9	168.1	191.7	229.4	256.0	13.68
25.0	70.5	105.6	141.1	170.0	194.3	233.4	261.1	17.62
27.0	70.6	106.0	141.7	171.0	195.7	235.5	263.9	20.53

Air Side Pressure Drop (Inches WC)

.08	0.18	0.36	0.58	0.84	1.49	2.18
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Table 3. Hot Water Reheat Coil Capacities.*

UNIT SIZE 18								
1-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	1500	2000	3000	4000	5000	6000	8000	
	Heating Capacity (MBH)							
2.0	48.6	53.7	60.6	65.2	68.7	71.3	75.2	1.22
3.0	54.1	60.6	69.9	76.3	81.2	85.1	91.0	2.66
4.0	57.4	64.8	75.6	83.3	89.2	94.0	101.3	4.60
5.0	59.5	67.6	79.4	88.0	94.7	100.2	108.7	7.07
6.0	61.0	69.5	82.2	91.5	98.8	104.8	114.2	10.00
7.0	62.2	71.0	84.3	94.1	101.9	108.3	118.4	13.48
8.0	63.0	72.2	85.9	96.2	104.4	111.1	121.8	17.42
10.0	64.3	73.9	88.4	99.3	108.0	115.3	126.9	26.76

UNIT SIZE 18								
2-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	1500	2000	3000	4000	5000	6000	8000	
	Heating Capacity (MBH)							
2.0	69.3	76.3	85.2	90.7	94.4	97.1	100.8	0.87
3.0	80.8	91.0	104.8	113.8	120.2	125.1	132.1	1.89
4.0	87.9	100.3	117.8	129.7	138.5	145.3	155.2	3.30
5.0	92.6	106.7	127.0	141.3	152.0	160.4	173.0	5.07
6.0	96.1	111.4	134.0	150.1	162.4	172.2	187.0	7.19
7.0	98.7	115.0	139.4	157.0	170.6	181.6	198.4	9.68
8.0	100.8	117.9	143.6	162.5	177.3	189.2	207.7	12.52
10.0	103.8	122.1	150.1	171.0	187.5	201.0	222.2	19.25

Air Side Pressure Drop (Inches WC)

0.04	0.06	0.12	0.20	0.30	0.41	0.67
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UNIT SIZE 18

Air Side Pressure Drop (Inches WC)

0.08	0.13	0.27	0.43	0.63	0.85	1.38
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UNIT SIZE 18

UNIT SIZE 18								
3-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	1500	2000	3000	4000	5000	6000	8000	
	Heating Capacity (MBH)							
2.5	93.3	102.6	113.7	120.2	124.4	127.3	131.3	0.54
4	110.3	125.4	145.3	157.9	166.7	173.1	182.2	1.34
5	116.8	134.7	159.1	175.2	186.7	195.5	207.9	2.05
6	121.4	141.4	169.5	188.5	202.5	213.3	228.9	2.93
8	127.5	150.4	183.9	207.7	225.6	239.7	260.8	5.12
10	131.3	156.1	193.4	220.6	241.6	258.3	283.9	7.88
12	133.9	160.1	200.2	230.0	253.2	272.1	301.2	11.25
15	136.5	164.2	207.3	239.9	265.8	287.1	320.5	17.33

Air Side Pressure Drop (Inches WC)

0.13	0.20	0.40	0.64	0.94	1.27	2.07
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UNIT SIZE 18								
4-Row Coil								
GPM	Airflow, CFM							Waterside Head Loss (ft.wg.)
	1500	2000	3000	4000	5000	6000	8000	
	Heating Capacity (MBH)							
4.5	125.0	142.8	165.9	180.1	189.8	196.9	206.6	0.67
9	144.8	172.5	213.1	241.5	262.7	279.2	303.5	2.64
12	150.2	181.1	228.0	262.2	288.6	309.5	341.2	4.65
15	153.4	186.4	237.6	276.0	306.1	330.5	368.0	7.22
18	155.7	190.1	244.4	285.8	318.7	345.8	387.9	10.35
21	157.3	192.7	249.4	293.1	328.3	357.4	403.3	14.03
24	158.5	194.7	253.2	298.8	335.7	366.5	415.5	18.27
27	159.4	196.3	256.2	303.3	341.7	373.9	425.5	23.05

Air Side Pressure Drop (Inches WC)

0.17	0.27	0.53	0.86	1.25	1.70	2.76
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*** Notes:**

All capacities are based on 180°F entering water temperature and 55°F entering air temperature. For other air and water inlet temperature conditions, use the correction factors shown in Table 5 to multiply the given heating capacity for each size.

1 MBH = 1000 BTU/Hr.

MBH Required = 0.00108 × CFM × Temp. Rise

Table 4. Capacity Correction Data for 1,2,3 and 4 Hot Water Reheat Coils.

Entering Air Temp. (°F)	Entering Water Temperature (°F)											Entering Air Temp. (°F)
	120	130	140	150	160	170	180	190	200	210	220	
50	0.54	0.62	0.71	0.79	0.87	0.96	1.04	1.12	1.21	1.29	1.38	50
55	0.50	0.59	0.67	0.75	0.83	0.92	1.0	1.08	1.17	1.25	1.34	55
60	0.47	0.55	0.63	0.71	0.79	0.88	0.96	1.04	1.13	1.21	1.30	60
65	0.43	0.51	0.59	0.67	0.75	0.84	0.92	1.00	1.09	1.17	1.26	65

Note: MBH Required = 1080 × CFM × Temp. Rise × 1000

Table 5. Single Duct Supply Air Terminal Casing & Damper Leakage (in CFM).

Unit Size	Casing Leakage			Damper Leakage		
	1.0" wc	3.0" wc	6.0" wc	1.5" wc	3.0" wc	6.0" wc
4	1	2	3	4	5	6
6	1	2	3	4	6	11
8	1	2	3	5	7	10
10	1	2	3	6	7	10
12	1	2	4	8	12	19
14	2	3	5	6	10	16
16	2	4	7	13	21	38
18	3	6	12	98	154	305

Performance Notes on Leakage Data:

1. Tests conducted in accordance with ASHRAE Standard 130-1996, "Methods of Testing for Rating Ducted Air Terminal Units".
2. All pressures in the tables above are based on inlet static pressure in inches of water gauge, in. W.G.
3. Airflows are given in cubic feet per minute (CFM).
4. All data is based on E.H. Price Limited Laboratory Test Files F3700 (casing leakage) and F398 (damper leakage).

Table 6. ARI Certification Rating Points.



Unit Size	Rated Airflow		Min. Operating Pressure Required		Radiated Sound Power Level, dB at 375 Pa (1.5 in. WG) Octave Band						Discharge Sound Power Level, dB at 375 Pa (1.5 in. WG) Octave Band					
	L/s	cfm	Pa	In. Water	2	3	4	5	6	7	2	3	4	5	6	7
	4	71	150	2	0.01	53	49	44	36	32	25	61	61	58	55	50
6	189	400	36	0.14	61	57	52	43	38	32	67	68	65	59	53	51
8	330	700	2	0.01	63	57	51	44	39	34	68	68	63	60	55	53
10	519	1100	2	0.01	62	55	53	45	40	34	69	68	66	63	58	56
12	755	1600	2	0.01	59	56	55	46	41	35	69	68	68	63	59	57
14	991	2100	2	0.01	60	57	54	46	40	33	70	66	67	65	60	57
16	1321	2800	2	0.01	60	58	52	47	45	39	71	66	66	64	61	59
18	2501	5300	25	0.11	71	67	63	57	53	46	79	77	76	74	70	67


Notes: 1. L/s, liters per second 2. CFM, cubic feet per minute 3. Pa, Pascals gauge. 4. Power Levels in decibels, (dB) re 10-12 watts.

Notes for Table 7 and 8, Discharge and Radiated Sound:

1. Tested in accordance with ASHRAE standard 120-1996: "Methods for Testing for Rating Ducted Air Terminal Units."
2. Airflow given in liters/second (L/s); and cubic feet/minute (cfm).
3. Blank spaces "-" indicate sound power levels less than 20.
4. Pressure given Pascals, (Pa) and inches of water gauge (in. W.G.).

Table 9. Supply Terminals that are AMCA 610 Certified

Terminal Size	Model Number Example
6"	LGSxxxxR06...
8"	LGSxxxxR08...
10"	LGSxxxxR10...
12"	LGSxxxxR12...
14"	LGSxxxxR14...
16"	LGSxxxxR16...



Performance Notes:

1. Siemens Industry Inc. certifies that the Laboratory Supply Terminals shown in Table 9 (above) are licensed to bear the AMCA Seal – Airflow Measurement Station Performance.
2. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 611(Figures 1&2) and comply with the requirements of the AMCA Certified Ratings Program.
3. The conversion formula used is $4005 * \text{Duct Area} * \text{Flow Coeff} * \text{SQRT}(\Delta P)$
4. Supply Terminals are Air Flow Measuring Stations (AFMS) with differential pressure output.

Performance Data For 8”:

Reference Airflow & Percent Accuracy of AMS to Reference Airflow (Figure 1 Test Setup)

Results at Test Conditions:

Det.	Qams (cfm)	Qref (cfm)	Diff. (cfm)	Diff. (%)
1	679	683	-5	-0.68
2	512	512	0	0.04
3	430	426	4	1.04
4	343	340	2	0.71
5	233	234	-1	-0.44
6	134	132	3	2.21

Reference Airflow & Percent Accuracy of AMS to Reference Airflow (Figure 2 Test Setup)

Results at Test Conditions:

Det.	Qams (cfm)	Qref (cfm)	Diff. (cfm)	Diff. (%)
1	679	686	-7	-1.04
2	512	513	-1	-0.20
3	425	427	-2	-0.45
4	343	341	1	0.38
5	233	235	-2	-0.78
6	134	132	2	1.81

Performance Data For 8”:

Airflow Resistance Test (Figure 1 Test Setup)

Device Only Test Results at Standard Air

Det.	Q_{DS}	Q_S	ΔP_S	ΔP_{SC}	ΔP_{DS}	ΔP_D	$V_{Face Area}$
1	695.2	689.1	0.370	0.377	0.467	0.091	1991.9
2	520.0	516.2	0.211	0.214	0.271	0.057	1490.1
3	432.7	429.4	0.144	0.146	0.188	0.042	1239.8
4	345.6	342.7	0.098	0.099	0.125	0.026	990.2
5	237.3	235.2	0.036	0.037	0.052	0.016	679.8
6	133.3	132.0	0.015	0.016	0.021	0.005	381.9

Performance Data For 14”:

Reference Airflow & Percent Accuracy of AMS to Reference Airflow (Figure 1 Test Setup)

Results at Test Conditions:

Det.	Q_{AMS} (cfm)	Q_{ref} (cfm)	Diff. (cfm)	Diff. (%)
1	2950	3039	-89	-2.93
2	2605	2666	-61	-2.29
3	2086	2138	-52	-2.43
4	1575	1606	-31	-1.93
5	1043	1062	-19	-1.79
6	466	453	13	2.93

Reference Airflow & Percent Accuracy of AMS to Reference Airflow (Figure 2 Test Setup)

Results at Test Conditions:

Det.	Q_{AMS} (cfm)	Q_{ref} (cfm)	Diff. (cfm)	Diff. (%)
1	3066	3043	23	0.75
2	2720	2668	52	1.94
3	2178	2138	40	1.85
4	1642	1605	37	2.30
5	1064	1062	2	0.17
6	466	453	13	2.92

Airflow Resistance Test (Figure 1 Test Setup)

Device Only Test Results at Standard Air

Det.	Q_{DS}	Q_S	ΔP_S	ΔP_{SC}	ΔP_{DS}	ΔP_D	$V_{Face Area}$
1	3051.3	3053.3	0.764	0.763	0.847	0.084	2854.3
2	2675.3	2673.8	0.584	0.584	0.652	0.068	2502.6
3	2139.5	2139.0	0.372	0.372	0.419	0.047	2001.4
4	1603.6	1604.1	0.212	0.212	0.243	0.031	1500.0
5	1059.4	1059.6	0.093	0.093	0.109	0.015	991.0
6	451.6	452.0	0.016	0.015	0.021	0.005	422.5

Ordering Information

Model	Package	Control Package Components				Shaft/ Coil Orientation	Inlet Size	Reheat Coils & General Options	Lining	Construction	Integral Attenuator
		Actuator	Transducer	Flow Transmitter	Controller						
LGS	E000	—	—	—	—	R= Shaft/Coil Opposite Side	04 = 4" 06 = 6" 08 = 8" 12 = 12" 14 = 14" 16 = 16" 18 = 16x"24	OO = no coil AB = 1 row Left BB = 2 row Left CB = 3 row Left DB = 4 row Left EB = 1 row Right FB = 2 row Right GB = 3 row right HB = 4 row Right ALL COILS come with access door	B = Fiber free foam OPTIONS: F = Foil-faced Fiberglass M = Solid Metal Liner A = "M" plus Anti-Microbial paint	O = Low Leak T = "O" plus transformer (120/24 CL.2) & Disconnect	3 = 36" 5 = 60"
	G000	—	—	—	—						
	G514	GDE131.1P	—	OAM	—						
	G516	GMA131.1P	—	OAM	—						
	G575	L.E.A.	I/F Brd FP	OAM	—						
	G820	#3	—	—	—						
	G823	#3	AOP 0-10v (2)	1.0"4-20 mA	—						
	G872	L.E.A.	I/F Brd AN	1.0"4-20 mA	—						
	G875	L.E.A.	I/F Brd FP	—	—						
	G914	GDE131.1P	—	—	—						
	G915	GDE161.1P	—	1.0"4-20 mA	—						
	G916	GMA131.1P	—	—	—						
	G917	GMA161.1P	—	1.0"4-20 mA	—						
	J820	#3	—	—	LRC-PN						
	L820	#3	—	—	RPC-PN						
	I875	L.E.A.	I/F Brd FP	—	LRC-EL						
	M914	GDE131.1P	—	—	RPC-E;						
	M916	GMA131.1P	—	—	RPC-EL						
	O514	GDE131.1P	—	OAM	550-767F						
	O516	GMA131.1P	—	OAM	550-767F						
O575	L.E.A.	I/F Brd FP	OAM	550-767F							
R914	GDE131.1P	—	—	TEC-CAV							
R916	GMA131.1P	—	—	TEC-CAV							
W914	GDE131.1P	—	—	TEC-VAV							
W916	GMA131.1P	—	—	TEC-VAV							

EXAMPLE: LGS0565S12BBBO has right-handed 2-row reheat coil, with high-speed electric actuator and OAVS style controller mounted in device enclosure on same side as coil connection.

CONTROL COMPONENT LEGEND

#3	546-00020, No. 3 Pneumatic Actuator for Labs	TEC-CAV	540-104 Constant Volume TEC with Auto-Zero Module
AOP 0-10V	545-113 Voltage to Pneumatic Transducer, 0-10Vdc input	TEC-VAV	540-200 Variable Volume TEC with Auto-Zero Module
L.E.A.	546-00437B, Lab Electric actuator with 546-00581 90 degree bracket	RPC-PN	540-717 Room Pressurization Controller, Pneumatic Out, 2, AZM
I/F Brd	546-00450 Interface Board for L.E.A. "AN"= 10 Vdc, "FP"= Floating	RPC-EL	540-517 Room Pressurization Controller, Electronic Out, 2 AZM
GDE161.1P	Fail-in-Last Position, Modulation, 44 in-lb electric actuator	LRC-PN	546-00360 Lab Room Controller, Pneumatic Out
GDE131.1P	Fail-in-Last Position, Floating, 44 in-lb electric actuator	LRC-EL	546-00362 Lab Room Controller, Electronic Out
GMA131.1P	Failsafe Spring Return Modulating 62 in-lb electric actuator	550-767E	Lab Controller Module, App 2621/2627 Terminals with High-Speed Act
GMA161.1P	Failsafe Spring Return Floating 62 in-lb electric actuator	550-767F	Lab Controller Module App 2623/2629 Terminals with Low-Speed Act
OAM	550-818A Offboard Air Module, used with LCM-OAVS controllers		

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