

Laboratory Room Single Duct Supply Air Terminal



Figure 1. Laboratory Room Single Duct Supply Air Terminal.

The 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) when tested in accordance with AMCA 610. 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 also available.
- Four quadrant airflow sensors with multi-point, center averaging and signal amplification.
- Low radiated and discharge sound levels.
- 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 (*standard without reheat*). ULL with reheat available as custom option.
- Up to four rows of hot water reheat coils.
- Meets equipment requirements of ASHRAE 62.1 Sec. 5.
- Clean, sealed shipping bags available for LEED IEQ projects.
- Lab DXR (IP & MSTP) control packages available

Description

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

- Galvanized steel round inlet duct, damper blade in sizes from 4" (10.2 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.
- Electronic damper control – high speed or standard speed

Specifications

Materials (within air stream) – Standard

| | |
|-----------------|---|
| Duct Casing | 22 gauge galvanized steel with mechanically locked and sealed seam |
| Airflow Sensor | PVC sensing arms and center manifold with galvanized steel frame |
| Damper Blade | 22 gauge, galvanized steel single damper with Volara foam gasket |
| Damper Shaft | 1/2-inch (1.27 cm) diameter, zinc-plated steel. Shaft end marked with the damper blade position |
| Damper Bushing | Self lubricating polyethylene |
| 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 |

| | |
|--|--|
| Hot water reheat coils (optional) | 22 gauge, galvanized casing, Aluminum sine wave fins (thickness 0.0045") Copper tubes, 0.016" wall Meets ARI 410 |
| Dimensions | |
| Sizes | See Figures 4, 5, 6 and 7 |
| Weight | 19 to 63 lbs. (8.6 to 28.6 kg) |
| Materials (outside air stream) - Standard | |
| Control Enclosure | 18 gauge two piece galvanized steel |
| Pneumatic Tubing | UL rated 94 V-2 fire retardant polyethylene |
| Pneumatic Fittings | Brass, dual barbed |
| Airflow Measurement | |
| Sensor Type | Four quadrant, with 12 sensing points, center averaging, and signal amplification |
| Accuracy | |
| Flow Measurement | ±3% of actual flow @ listed ranges (Sensor only, per AMCA 610) |
| Installation Requirements | Rigid duct of the same diameter 1 × duct diameters upstream from the sensor, or taper angle less than 30 degrees |
| Airflow Control | |
| Damper Blade | Round, sealing single blade with 90 degree control with two mechanical stops |
| Non-Recoverable Terminal | |
| Pressure Loss | See Table 2 |
| 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 |

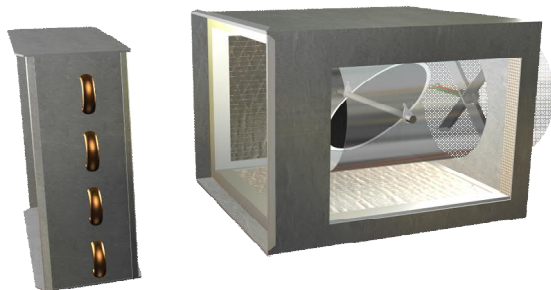


Figure 2. Single Duct Supply Air Terminal Components with Reheat (cut view).

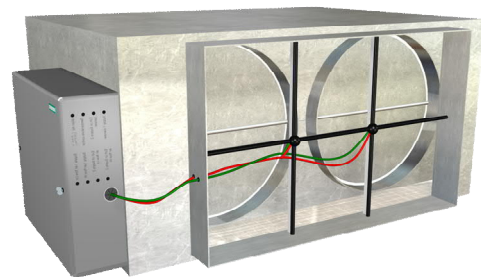


Figure 3. High Capacity Single Duct Supply Air Terminal Components.

Single Duct Supply Air Terminal Components (inlet view).

Ordering Information

Part numbers are created based on the selections you choose. There are no spaces or dashes in the SAP part number.

NOTE: Not all combinations or configurations will yield a valid part number in SAP.

Sample Part Number: LGS0575R14DBBO

| Model Number | Control Package Number | Shaft/Coil Orientation | Inlet (Duct) Size | Reheat Coil Configuration | Lining | Construction | (Custom) Integral Attenuator |
|---|--|---------------------------------------|--|---------------------------|-----------------|--------------|--|
| LGS | O575 | R | 14 | DB | B | O | — |
| Laboratory Room Single Duct Supply Air Terminal | This package provides an actuator, a transducer, a flow transmitter, and a controller. | Shaft and coil are on opposite sides. | The inlet (or duct) size is 14 inches. | 4 row, left | Fiber-free foam | Low leakage | Not included in this sample part number. |

To create an orderable part number that can be entered in SAP, complete the following steps:

1. Begin with the Model Number, **LGS**.
2. Select a Control Package number from the following table and append it to the Model Number. Once you have completed this step, proceed to Step 3.

Standard

| Control Package | Includes the following Control Components: | | | |
|-----------------|--|------------------------|------------------------------|------------------------|
| | Actuator Part Number | Transducer Part Number | Flow Transmitter Part Number | Controller Part Number |
| E000* | — | — | — | — |
| G000 | — | — | — | — |
| G514 | GDE131.1P | — | 550-819B | — |
| G516 | GMA131.1P | — | 550-819B | — |
| G575 | GNP191.1P | — | 550-819B | — |
| G872 | GNP191.1P | — | 590-780 | — |
| G875 | GNP191.1P | — | — | — |
| G914 | GDE131.1P | — | — | — |
| G915 | GDE161.1P | — | 590-780 | — |
| G916 | GMA131.1P | — | — | — |
| G917 | GMA161.1P | — | 590-780 | — |
| O514 | GDE131.1P | — | 550-819B | 550-767FN |
| O516 | GMA131.1P | — | 550-819B | 550-767FN |
| O575 | GNP191.1P | — | 550-819B | 550-767EN |
| R914 | GDE131.1P | — | — | 540-104N |
| R916 | GMA131.1P | — | — | 540-104N |
| W914 | GDE131.1P | — | — | 540-200N |
| W916 | GMA131.1P | — | — | 540-200N |

*No enclosure included.

BACnet

| Control Package | Includes the following Control Components: | | | |
|-----------------|--|------------------------|------------------------------|------------------------|
| | Actuator Part Number | Transducer Part Number | Flow Transmitter Part Number | Controller Part Number |
| ECBE | GNP191.1P | — | 550-819B | 570-803PA |
| ECBO | GNP191.1P | — | 550-819B | — |
| GCBF | GMA131.1P | — | 550-819B | 570-801PA |
| GCBG | GMA131.1P | — | 550-819B | 570-805PA |
| GCBH | GMA131.1P | — | 550-819B | 570-811PA |
| GCBN | GMA131.1P | — | 550-819B | 570-810PA |
| GCBO | GMA131.1P | — | 550-819B | — |
| GXBF | GDE131.1P | — | 550-819B | 570-801PA |
| GXBG | GDE131.1P | — | 550-819B | 570-805PA |
| GXBH | GDE131.1P | — | 550-819B | 570-811PA |
| GXBN | GDE131.1P | — | 550-819B | 570-810PA |
| GXBO | GDE131.1P | — | 550-819B | — |

Lab DXR BACnet IP

| Control Package | Includes the following Control Components: | | | |
|-----------------|--|------------------------|------------------------------|------------------------|
| | Actuator Part Number | Transducer Part Number | Flow Transmitter Part Number | Controller Part Number |
| EC11 | GNP191.1P | — | DXA.S04P1 | DXR2.E17C-103B |
| EC12 | GNP191.1P | — | DXA.S04P1 | DXR2.E17CX-103B |
| EC10 | GNP191.1P | — | DXA.S04P1 | — |
| MC11 | GMA151.1P | — | DXA.S04P1 | DXR2.E17C-103B |
| MC12 | GMA151.1P | — | DXA.S04P1 | DXR2.E17CX-103B |
| MC10 | GMA151.1P | — | DXA.S04P1 | — |
| MX11 | GDE161.1P | — | DXA.S04P1 | DXR2.E17C-103B |
| MX12 | GDE161.1P | — | DXA.S04P1 | DXR2.E17CX-103B |
| MX10 | GDE161.1P | — | DXA.S04P1 | — |

Lab DXR BACnet MSTP ***

| Control Package | Includes the following Control Components: | | | |
|-----------------|--|------------------------|------------------------------|------------------------|
| | Actuator Part Number | Transducer Part Number | Flow Transmitter Part Number | Controller Part Number |
| EC13 | GNP191.1P | — | DXA.S04P1 | DXR2.M17C-103B |
| EC14 | GNP191.1P | — | DXA.S04P1 | DXR2.M17CX-103B |
| EC10 | GNP191.1P | — | DXA.S04P1 | — |
| MC13 | GMA151.1P | — | DXA.S04P1 | DXR2.M17C-103B |
| MC14 | GMA151.1P | — | DXA.S04P1 | DXR2.M17CX-103B |
| MC10 | GMA151.1P | — | DXA.S04P1 | — |
| MX13 | GDE161.1P | — | DXA.S04P1 | DXR2.M17C-103B |
| MX14 | GDE161.1P | — | DXA.S04P1 | DXR2.M17CX-103B |
| MX10 | GDE161.1P | — | DXA.S04P1 | — |

*** MSTP control package assemblies currently only orderable through Lab Custom department

Control Components

| Part Number | Description | Part Number | Description |
|-------------|--|---|---|
| 540-200N | Variable Volume TEC with Auto-Zero Module | 550-819B DXR2.E17C-103B DXR2.E17CX-103B DXR2.M17C-103B DXR2.M17CX-103B DXA.S04P1 540-104N | BACnet OAM - Off-board Air Module Lab DXR BACnet IP Controller, 30 dp Lab DXR BACnet IP Controller, 60 dp Lab DXR BACnet MSTP, 30 dp Lab DXR BACnet MSTP, 60 dp Lab DXR Airflow Press Sensor 0-1" Constant Volume TEC with Auto-Zero Module |
| 550-767GN | Lab Controller Module, Applications 2924/2930, Terminals with Low-Speed Actuator Supply and Venturi Exhaust | | |
| 550-767EN | Lab Controller Module, Applications 2921/2927, Terminals with High-Speed Actuator | 590-780 | Differential Pressure Transmitter, 1" WC, 4-20 mA, 0.4% accuracy |
| 550-767FN | Lab Controller Module, Applications 2923/2929, Terminals with Low-Speed Actuator | | |
| 550-767HN | Pressurized Room Controller, Application 2931, Terminals with Low-Speed Actuator | GDE131.1P | Fail-in-Last Position, Floating, 44 in-lb electric actuator |
| 550-767NN | Pressurized Room Controller, Application 2963, Terminals with Low-Speed Actuator | GMA131.1P | Fail-safe Spring Return Floating, 62 in-lb electric actuator |
| 570-801PA | BACnet Lab Controller Module, Applications 6753/6759, Terminals with Low-Speed Actuator | GDE161.1P | Fail-in-Last Position, Modulation, 44 in-lb electric actuator |
| 570-803PA | BACnet Lab Controller Module, Applications 6751/6757, Terminals with High-Speed Actuator | GMA161.1P | Fail-safe Spring Return Modulating 62 in-lb electric actuator |
| 570-805PA | BACnet Lab Controller Module, Applications 6754/6750, Terminals with Low-Speed Actuator Supply and Venturi Exhaust | GNP191.1P | GNP Fast Acting Lab Electronic Actuator |
| 570-811PA | BACnet Pressurized Room Controller, Application 6761, Terminals with Low-Speed Actuator | | |
| 570-810PA | Pressurized Room Controller, Application 6773, Terminals with Low-Speed Actuator | | |

3. Choose a Shaft and Coil orientation, and append the letter to the part number:

R = Shaft/Coil Opposite Side

S = Shaft/Coil Same Side

4. Choose the Inlet size (the size of the duct) and append the 2-digit number to the part number.

| Inlet Size (in inches) | 2-digit number | Inlet Size (in inches) | 2-digit number |
|------------------------|----------------|------------------------|----------------|
| 4 | 04 | 12 | 12 |

| | | | |
|----|----|-----------|----|
| 6 | 06 | 14 | 14 |
| 8 | 08 | 16 | 16 |
| 10 | 10 | 16" x 24" | 18 |

5. Choose the Reheat Coil orientation, and append the letters to the part number:

| Reheat Coil orientation | |
|------------------------------------|-----------------------------|
| (All coils come with access doors) | |
| OO | No coil. |
| AB | 1 row, Left |
| AH | 1 row, Left HIGH CAPACITY |
| BB | 2 rows, Left. |
| BH | 2 rows, Left HIGH CAPACITY |
| CB | 3 rows, Left. |
| DB | 4 rows, Left |
| EB | 1 row, Right |
| EH | 1 row, Right HIGH CAPACITY |
| FB | 2 rows, Right |
| FH | 2 rows, Right HIGH CAPACITY |
| GB | 3 rows, Right |
| HB | 4 rows, Right |

6. Select the Lining, and append that letter to the part number:

| Standard Lining Options | |
|--------------------------------|-----------------|
| B | Fiber-free foam |

Custom options

NOTE: Custom options require a longer lead time. Please contact your Siemens representative if you want to choose a Custom option.

| Custom Lining Options | |
|------------------------------|---|
| F | Foil-faced fiberglass |
| M | Solid Metal Liner with sound absorbing material between inner and outer layer |
| A | Solid metal liner (M) with Agion Anit-Microbial coating |
| X | No liner in discharge casing |

7. Choose the Construction type:

O = Low Leakage

T = Low leakage (**O**) plus a transformer (120/24 CL.2) and a Disconnect Switch

8. (Custom Option – requires a longer lead time) This selection is for **custom orders** only, and will not be accepted in SAP. Please see your Siemens representative if you want to choose an Integral Attenuator:

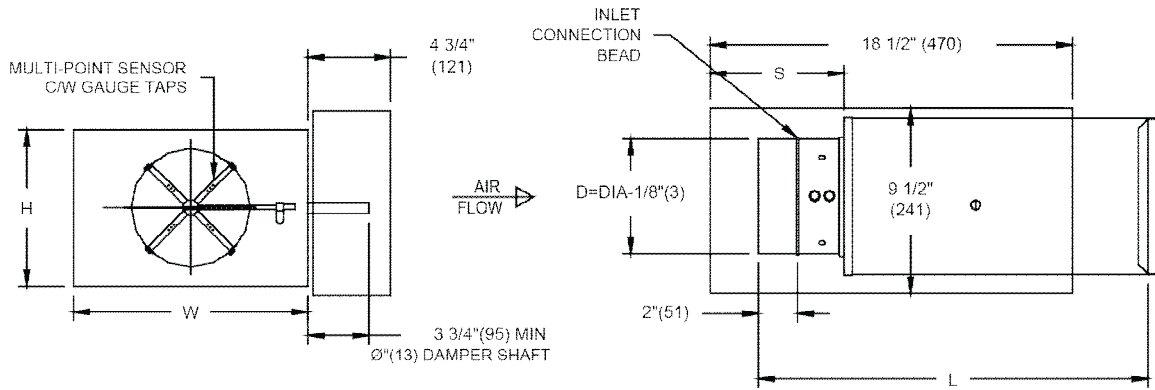
3 = 36"

5 = 60"

After completing your selections, you should have an SAP orderable part number that looks similar to the following example:

SAMPLE Part Number: LGSO575R14DBBO

Dimensions



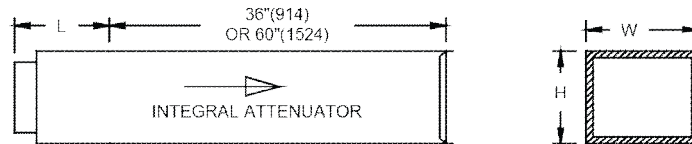
| S.I. UNITS mm | | | | IMPERIAL UNITS inches | | | | | |
|---------------|-----|-------|--------|-----------------------|--------|--------|-------|--------|-------|
| OUTLET | | INLET | LENGTH | S | OUTLET | | INLET | LENGTH | S |
| W | H | D | L | | W | H | D | L | |
| 305 | 203 | 102 | 562 | 168 | 12 | 8 | 4 | 22 1/2 | 6 3/4 |
| | | 152 | | | | | 6 | | |
| 305 | 254 | 203 | 511 | 168 | 12 | 10 | 8 | 20 1/2 | 6 3/4 |
| 356 | 318 | 254 | | | 14 | 12 1/2 | 10 | | |
| 406 | 381 | 305 | | | 16 | 15 | 12 | | |
| 508 | 445 | 356 | 600 | 117 | 20 | 17 1/2 | 14 | 23 3/4 | 4 3/4 |
| 610 | 457 | 406 | | | 24 | 18 | 16 | | |

NOTES:

- 22GA ZINC COATED STEEL CONSTRUCTION. MECHANICALLY SEALED AND GASKETED.
- INSULATION 3/4\"(19) FIBER FREE FOAM WHICH MEETS REQUIREMENTS OF NFPA 90A & UL-181.
- ULTRA LOW LEAKAGE CONSTRUCTION - ALL CASING SEAMS COVERED WITH DUCT SEALER.
- ZINC PLATED STEEL DAMPER SHAFT WITH VISIBLE POSITION INDICATOR
- POLYETHYLENE DAMPER BEARINGS
- VOLARA DAMPER SEALS

OPTIONS:

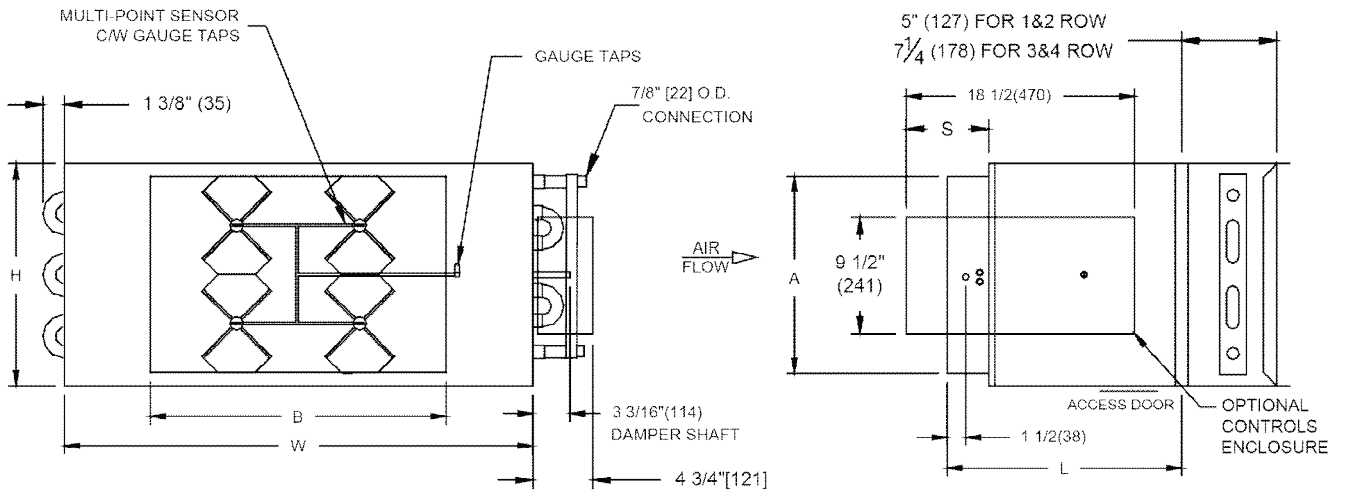
- CONTROLS FACTORY MOUNTED.
- 22GA ZINC COATED STEEL CONTROLS ENCLOSURE.
- 3 FT DISCHARGE ATTENUATOR (INTEGRAL TO LGS CASING)
- 5 FT DISCHARGE ATTENUATOR (INTEGRAL TO LGS CASING)



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ALL METRIC DIMENSIONS () ARE SOFT CONVERTED.
 IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER

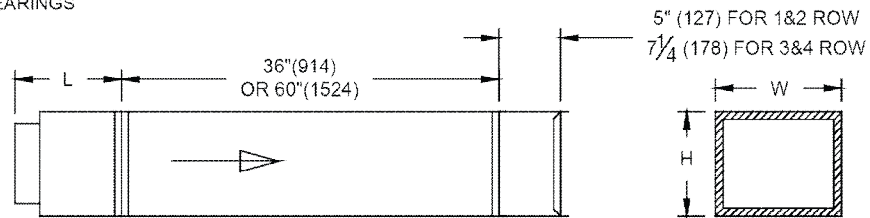
Figure 4. Laboratory Room Single Duct Supply Air Terminal without Reheat



| S.I. UNITS mm | | | | | | IMPERIAL UNITS inches | | | | | |
|---------------|-----|-------|-----|--------|-----|-----------------------|----|--------|--------|--------|---|
| OUTLET | | INLET | | LENGTH | | OUTLET | | INLET | | LENGTH | |
| W | H | B | A | L | S | W | H | B | A | L | S |
| 965 | 457 | 603 | 403 | 483 | 178 | 38 | 18 | 23 7/8 | 15 7/8 | 19 | 7 |

NOTES:

- LARGER ENCLOSURE REQUIRED FOR Q575 CONTROL PACKAGE.
- INTERNAL INSULATION 3/4" (19mm) FIBER FREE FOAM WHICH MEETS REQUIREMENTS OF NFPA 90A AND UL181.
- 22GA ZINC COATED STEEL HOUSING. MECHANICALLY SEALED AND GASKETED.
- HAND OF HOT WATER COIL CONNECTIONS IS DETERMINED VIEWED FROM AIR INLET SIDE. RIGHT HAND AS SHOWN. LEFT HAND IS ALSO AVAILABLE.
- HOT WATER COILS HAVE COPPER TUBES AND ALUMINUM FINS WITH O.D. SWEAT CONNECTIONS.
- METHOD OF VENTING HOT WATER COIL IS TO BE PROVIDED BY INSTALLING CONTRACTOR.
- COIL PERFORMANCE IS RATED AND CERTIFIED IN ACCORDANCE WITH THE CURRENT EDITION OF ARI STANDARD 410.
- ULTRA LOW LEAKAGE CONSTRUCTION - ALL CASING SEAMS COVERED WITH DUCT SEALER.
- ZINC PLATED STEEL DAMPER SHAFT WITH VISIBLE POSITION INDICATOR
- POLYETHYLENE DAMPER BEARINGS
- VOLARA DAMPER SEALS

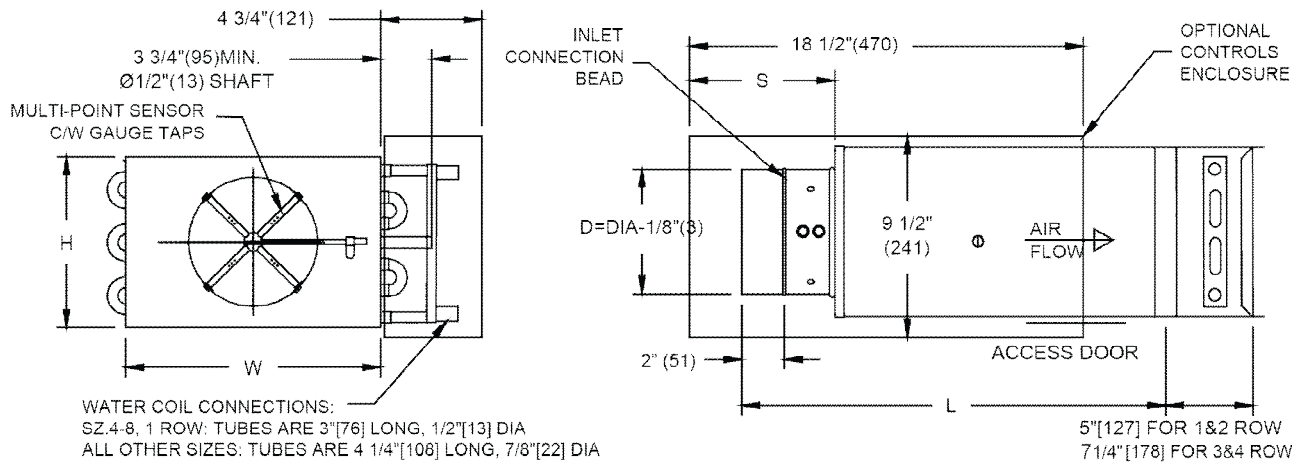


OPTIONS:

- 1 ROW WATER COIL
- 2 ROW WATER COIL
- 3 ROW WATER COIL
- 4 ROW WATER COIL
- CONTROLS FACTORY MOUNTED.
- 22GA ZINC COATED STEEL CONTROLS ENCLOSURE.
- 3 FT DISCHARGE ATTENUATOR
- 5 FT DISCHARGE ATTENUATOR

Figure 5. Laboratory Room Single Duct Supply Air Terminal Size 18 without Reheat

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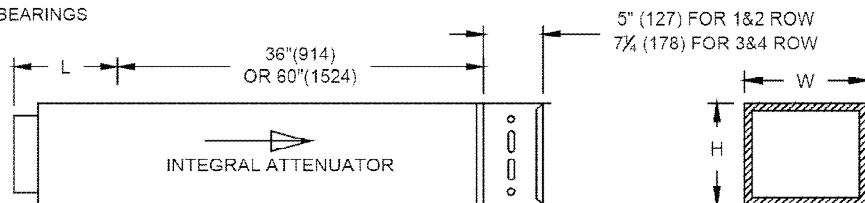


| S.I. UNITS mm | | | | | IMPERIAL UNITS inches | | | | |
|---------------|-----|-------|--------|-----|-----------------------|--------|-------|--------|-----|
| OUTLET | | INLET | LENGTH | S | OUTLET | | INLET | LENGTH | S |
| W | H | D | L | | W | H | D | L | |
| 305 | 203 | 102 | 562 | 168 | 12 | 8 | 4 | 22 1/2 | 6 % |
| | | 152 | | | | | 6 | | |
| 305 | 254 | 203 | 511 | 168 | 12 | 10 | 8 | 20 1/2 | 6 % |
| 356 | 318 | 254 | | | 14 | 12 1/2 | 10 | | |
| 406 | 381 | 305 | 600 | 117 | 16 | 15 | 12 | 23 % | 4 % |
| 508 | 445 | 356 | | | 20 | 17 1/2 | 14 | | |
| 610 | 457 | 406 | | | 24 | 18 | 16 | | |

| UNIT SIZE | S, IN(mm) |
|-----------|-------------|
| 4-12 | 6 5/8 (168) |
| 14,16 | 4 5/8 (117) |

NOTES:

- INTERNAL INSULATION 3/4" (119mm) FIBER FREE FOAM WHICH MEETS REQUIREMENTS OF NFPA 90A AND UL181.-
- 22GA ZINC COATED STEEL HOUSING. MECHANICALLY SEALED AND GASKETED.
- HAND OF HOT WATER COIL CONNECTIONS IS DETERMINED VIEWED FROM AIR INLET SIDE. RIGHT HAND IS SHOWN. LEFT HAND IS ALSO AVAILABLE.
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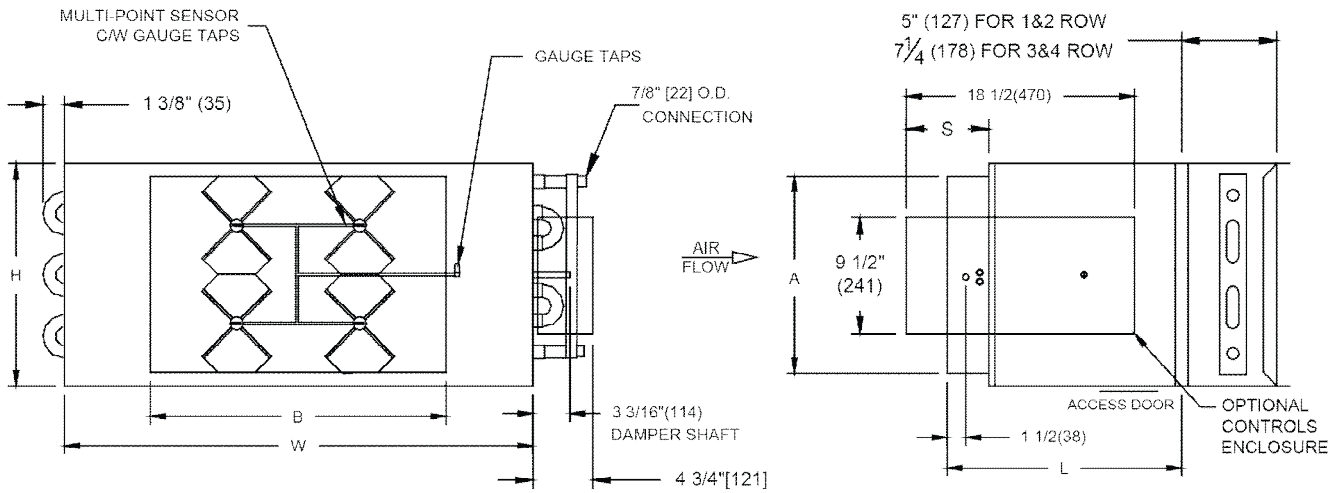


OPTIONS:

- 1 ROW WATER COIL
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- 3 ROW WATER COIL
- 4 ROW WATER COIL
- CONTROLS FACTORY MOUNTED.
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- 3 FT DISCHARGE ATTENUATOR (INTEGRAL TO LGS CASING)
- 5 FT DISCHARGE ATTENUATOR (INTEGRAL TO LGS CASING)

Figure 6. Laboratory Room Single Duct Supply Air Terminal with Reheat

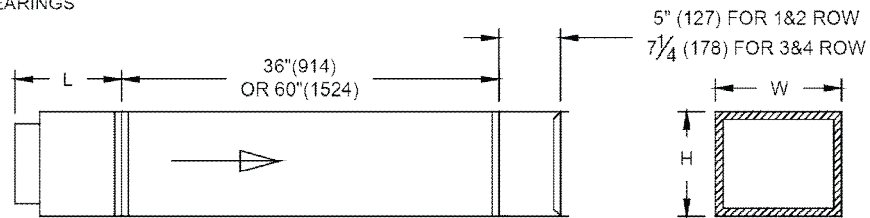
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| S.I. UNITS mm | | | | | | IMPERIAL UNITS inches | | | | | |
|---------------|-----|-------|-----|--------|-----|-----------------------|----|--------|--------|--------|---|
| OUTLET | | INLET | | LENGTH | | OUTLET | | INLET | | LENGTH | |
| W | H | B | A | L | S | W | H | B | A | L | S |
| 965 | 457 | 603 | 403 | 483 | 178 | 38 | 18 | 23 3/8 | 15 3/8 | 19 | 7 |

NOTES:

- LARGER ENCLOSURE REQUIRED FOR Q575 CONTROL PACKAGE.
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- METHOD OF VENTING HOT WATER COIL IS TO BE PROVIDED BY INSTALLING CONTRACTOR.
- COIL PERFORMANCE IS RATED AND CERTIFIED IN ACCORDANCE WITH THE CURRENT EDITION OF ARI STANDARD 410.
- ULTRA LOW LEAKAGE CONSTRUCTION - ALL CASING SEAMS COVERED WITH DUCT SEALER.
- ZINC PLATED STEEL DAMPER SHAFT WITH VISIBLE POSITION INDICATOR
- POLYETHYLENE DAMPER BEARINGS
- VOLARA DAMPER SEALS



OPTIONS:

- 1 ROW WATER COIL
- 2 ROW WATER COIL
- 3 ROW WATER COIL
- 4 ROW WATER COIL
- CONTROLS FACTORY MOUNTED.
- 22GA ZINC COATED STEEL CONTROLS ENCLOSURE.
- 3 FT DISCHARGE ATTENUATOR
- 5 FT DISCHARGE ATTENUATOR

Figure 7. Laboratory Room Single Duct Supply Air Terminal Size 18 with Reheat

FLUID-959R1

Table 1. Airflow Ranges.

| INLET SIZE | MAXIMUM FLOW @ 1.0"dp | | MINIMUM FLOW @ 0.02"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 |
| 6 | 468 | 221 | 66 | 31 | 0.196 | 0.018 | 0.596 |
| 8 | 923 | 436 | 126 | 59 | 0.349 | 0.032 | 0.660 |
| 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 |
|------|------|------|------|------|------|------|

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 |
|------|------|------|------|------|------|------|

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 |
|------|------|------|------|------|------|------|

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 |
|------|------|------|------|------|------|------|

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 |
|------|------|------|------|------|------|------|

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 |
|------|------|------|------|------|------|------|

*** 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 4 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 |

Air Side Pressure Drop (Inches WC)

| | | | | | | |
|------|------|------|------|------|------|------|
| 0.05 | 0.19 | 0.35 | 0.54 | 0.77 | 1.02 | 1.31 |
|------|------|------|------|------|------|------|

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)

| | | | | | | |
|------|------|------|------|------|------|------|
| 0.06 | 0.26 | 0.46 | 0.72 | 1.02 | 1.36 | 1.74 |
|------|------|------|------|------|------|------|

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 |

Air Side Pressure Drop (Inches WC)

| | | | | | | |
|------|------|------|------|------|------|------|
| 0.01 | 0.04 | 0.08 | 0.13 | 0.19 | 0.33 | 0.42 |
|------|------|------|------|------|------|------|

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)

| | | | | | | |
|------|------|------|------|------|------|------|
| 0.03 | 0.09 | 0.17 | 0.27 | 0.39 | 0.69 | 0.87 |
|------|------|------|------|------|------|------|

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 |

Air Side Pressure Drop (Inches WC)

| | | | | | | |
|------|------|------|------|------|------|------|
| 0.04 | 0.13 | 0.25 | 0.41 | 0.59 | 1.04 | 1.30 |
|------|------|------|------|------|------|------|

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)

| | | | | | | |
|------|------|------|------|------|------|------|
| 0.06 | 0.17 | 0.34 | 0.54 | 0.79 | 1.39 | 1.74 |
|------|------|------|------|------|------|------|

*** 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 4 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 | | | | | | | | |
| GPM | Airflow, CFM | | | | | | | Waterside Head Loss (ft.wg.) |
| | 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 | | | | | | | | |
| GPM | Airflow, CFM | | | | | | | Waterside Head Loss (ft.wg.) |
| | 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 | |

| Air Side Pressure Drop (Inches WC) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| 0.05 | 0.10 | 0.16 | 0.32 | 0.51 | 0.74 | 1.08 | |

| UNIT SIZE 12 | | | | | | | | |
|--------------|------------------------|------|------|------|------|-------|-------|------------------------------|
| 3-Row Coil | | | | | | | | |
| GPM | Airflow, CFM | | | | | | | Waterside Head Loss (ft.wg.) |
| | 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 | | | | | | | | |
| GPM | Airflow, CFM | | | | | | | Waterside Head Loss (ft.wg.) |
| | 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 | |

| Air Side Pressure Drop (Inches WC) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| 0.10 | 0.20 | 0.32 | 0.63 | 1.02 | 1.49 | 2.16 | |

| UNIT SIZE 14 | | | | | | | | |
|--------------|------------------------|------|------|------|------|------|------|------------------------------|
| 1-Row Coil | | | | | | | | |
| GPM | Airflow, CFM | | | | | | | Waterside Head Loss (ft.wg.) |
| | 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 | | | | | | | | |
| GPM | Airflow, CFM | | | | | | | Waterside Head Loss (ft.wg.) |
| | 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 | |

| Air Side Pressure Drop (Inches WC) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| 0.04 | 0.09 | 0.17 | 0.30 | 0.46 | 0.65 | 0.96 | |

*** 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 4 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 |

| 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) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| 0.06 | 0.13 | 0.25 | 0.45 | 0.69 | 0.98 | 1.44 | |

| Air Side Pressure Drop (Inches WC) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| 0.08 | 0.17 | 0.34 | 0.60 | 0.93 | 1.31 | 1.92 | |

| 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 |

| 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) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| 0.02 | 0.04 | 0.08 | 0.14 | 0.20 | 0.36 | 0.53 | |

| Air Side Pressure Drop (Inches WC) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| 0.04 | 0.09 | 0.18 | 0.29 | 0.42 | 0.74 | 1.09 | |

| 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 |

| 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) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| 0.06 | 0.14 | 0.27 | 0.44 | 0.63 | 1.11 | 1.64 | |

| Air Side Pressure Drop (Inches WC) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| .08 | 0.18 | 0.36 | 0.58 | 0.84 | 1.49 | 2.18 | |

* 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 4 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 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 | |

| Air Side Pressure Drop (Inches WC) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| 0.08 | 0.13 | 0.27 | 0.43 | 0.63 | 0.85 | 1.38 | |

| 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 |

| 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) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| 0.13 | 0.20 | 0.40 | 0.64 | 0.94 | 1.27 | 2.07 | |

| Air Side Pressure Drop (Inches WC) | | | | | | | |
|------------------------------------|------|------|------|------|------|------|--|
| 0.17 | 0.27 | 0.53 | 0.86 | 1.25 | 1.70 | 2.76 | |

*** 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 4 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:

1 MBH = 1000 BTU/Hr. MBH Required = 0.00108 × CFM × Temp. Rise

Table 5. Single Duct Supply Air Terminal Casing (without reheat) & 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 AHRI 880-2011 and 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).
5. Optional Reheat Leakage information is not included in the table.

Table 6. Discharge Sound Data for Single Duct Supply Air Terminal.

(Sound Power Levels, Lw dB, re 10⁻¹² Watts)

| Unit Size | Airflow cfm L/s | | 125 Pa (0.5" W.G.) | | | | | | | 250 Pa (1.0" W.G.) | | | | | | | 500 Pa (2.0" W.G.) | | | | | | | 750 Pa (3.0" W.G.) | | | | | | |
|-----------|-----------------------|------|--------------------|----|----|----|----|----|----|--------------------|----|----|----|----|----|----|--------------------|----|----|----|----|----|----|--------------------|----|----|--|--|--|--|
| | | | Octave Band | | | | | | | Octave Band | | | | | | | Octave Band | | | | | | | Octave Band | | | | | | |
| | | | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | | | | |
| 4 | 75 | 35 | 45 | 45 | 43 | 39 | 34 | 32 | 46 | 47 | 47 | 44 | 41 | 39 | 48 | 49 | 51 | 48 | 47 | 46 | 49 | 50 | 54 | 51 | 51 | 50 | | | | |
| | 150 | 71 | 56 | 57 | 51 | 47 | 41 | 36 | 58 | 59 | 55 | 52 | 47 | 43 | 59 | 61 | 59 | 57 | 53 | 50 | 60 | 62 | 62 | 59 | 57 | 55 | | | | |
| | 225 | 106 | 63 | 63 | 56 | 52 | 44 | 39 | 64 | 65 | 60 | 57 | 51 | 46 | 66 | 67 | 64 | 61 | 57 | 53 | 67 | 68 | 67 | 64 | 60 | 57 | | | | |
| | 280 | 132 | 66 | 67 | 58 | 55 | 46 | 40 | 68 | 69 | 63 | 59 | 52 | 47 | 69 | 71 | 67 | 64 | 59 | 55 | 70 | 72 | 69 | 67 | 62 | 59 | | | | |
| 6 | 125 | 59 | 46 | 45 | 44 | 39 | 35 | 34 | 49 | 49 | 49 | 44 | 42 | 41 | 52 | 53 | 54 | 49 | 49 | 48 | 54 | 56 | 57 | 52 | 53 | 52 | | | | |
| | 250 | 118 | 55 | 54 | 51 | 47 | 40 | 38 | 58 | 58 | 56 | 52 | 47 | 45 | 61 | 62 | 61 | 57 | 53 | 52 | 63 | 65 | 64 | 60 | 57 | 56 | | | | |
| | 375 | 177 | 60 | 59 | 55 | 51 | 43 | 40 | 63 | 63 | 60 | 56 | 49 | 47 | 66 | 68 | 65 | 61 | 56 | 54 | 68 | 70 | 69 | 64 | 60 | 58 | | | | |
| | 500 | 236 | 63 | 63 | 58 | 54 | 44 | 42 | 67 | 67 | 63 | 59 | 51 | 49 | 70 | 71 | 68 | 64 | 58 | 56 | 72 | 74 | 72 | 67 | 62 | 60 | | | | |
| | 630 | 297 | 66 | 66 | 60 | 57 | 46 | 43 | 69 | 70 | 66 | 62 | 53 | 50 | 73 | 74 | 71 | 67 | 59 | 57 | 74 | 77 | 74 | 70 | 63 | 61 | | | | |
| 8 | 175 | 83 | 47 | 43 | 43 | 38 | 35 | 33 | 51 | 50 | 49 | 44 | 42 | 40 | 56 | 56 | 56 | 49 | 49 | 47 | 59 | 60 | 59 | 53 | 53 | 52 | | | | |
| | 375 | 177 | 54 | 51 | 49 | 46 | 40 | 37 | 59 | 57 | 55 | 51 | 47 | 45 | 63 | 64 | 62 | 57 | 54 | 52 | 66 | 67 | 66 | 61 | 58 | 56 | | | | |
| | 575 | 271 | 58 | 55 | 52 | 50 | 43 | 40 | 63 | 62 | 59 | 56 | 50 | 47 | 67 | 68 | 65 | 62 | 57 | 55 | 70 | 72 | 69 | 65 | 61 | 59 | | | | |
| | 775 | 366 | 61 | 58 | 55 | 53 | 46 | 42 | 65 | 65 | 61 | 59 | 52 | 49 | 70 | 71 | 68 | 65 | 59 | 56 | 73 | 75 | 72 | 68 | 63 | 61 | | | | |
| | 975 | 460 | 63 | 61 | 57 | 56 | 47 | 43 | 68 | 67 | 63 | 61 | 54 | 51 | 72 | 73 | 70 | 67 | 61 | 58 | 75 | 77 | 73 | 71 | 65 | 62 | | | | |
| | 1115 | 526 | 64 | 62 | 58 | 57 | 48 | 44 | 69 | 68 | 64 | 63 | 55 | 51 | 74 | 75 | 71 | 69 | 62 | 59 | 76 | 79 | 75 | 72 | 66 | 63 | | | | |
| 10 | 250 | 118 | 51 | 47 | 48 | 44 | 40 | 37 | 55 | 55 | 55 | 50 | 47 | 45 | 60 | 63 | 62 | 56 | 54 | 52 | 63 | 68 | 66 | 60 | 58 | 56 | | | | |
| | 550 | 260 | 56 | 52 | 53 | 50 | 44 | 41 | 61 | 60 | 60 | 56 | 51 | 48 | 66 | 68 | 66 | 62 | 58 | 56 | 69 | 72 | 70 | 65 | 62 | 60 | | | | |
| | 850 | 401 | 59 | 55 | 55 | 52 | 46 | 43 | 64 | 63 | 62 | 59 | 53 | 50 | 69 | 71 | 69 | 65 | 60 | 58 | 72 | 75 | 73 | 68 | 64 | 62 | | | | |
| | 1150 | 543 | 61 | 57 | 57 | 55 | 48 | 45 | 66 | 65 | 64 | 61 | 55 | 52 | 71 | 72 | 70 | 67 | 62 | 59 | 74 | 77 | 74 | 70 | 66 | 63 | | | | |
| | 1450 | 684 | 63 | 58 | 58 | 56 | 49 | 46 | 68 | 66 | 65 | 62 | 56 | 53 | 73 | 74 | 72 | 68 | 63 | 60 | 75 | 78 | 76 | 72 | 67 | 64 | | | | |
| | 1745 | 824 | 64 | 59 | 59 | 57 | 50 | 47 | 69 | 67 | 66 | 64 | 57 | 54 | 74 | 75 | 73 | 70 | 64 | 61 | 77 | 80 | 77 | 73 | 68 | 65 | | | | |
| 12 | 350 | 165 | 49 | 49 | 49 | 46 | 41 | 39 | 54 | 56 | 56 | 52 | 47 | 46 | 60 | 63 | 63 | 59 | 54 | 53 | 63 | 67 | 67 | 62 | 58 | 57 | | | | |
| | 850 | 401 | 56 | 54 | 53 | 51 | 45 | 43 | 61 | 61 | 60 | 57 | 52 | 50 | 66 | 68 | 67 | 63 | 59 | 57 | 69 | 73 | 71 | 67 | 63 | 61 | | | | |
| | 1350 | 637 | 59 | 57 | 56 | 53 | 48 | 45 | 65 | 64 | 63 | 59 | 55 | 52 | 70 | 71 | 70 | 66 | 62 | 59 | 73 | 75 | 74 | 69 | 66 | 63 | | | | |
| | 1850 | 873 | 62 | 59 | 58 | 55 | 49 | 46 | 67 | 66 | 65 | 61 | 56 | 53 | 72 | 73 | 72 | 67 | 63 | 61 | 75 | 77 | 76 | 71 | 67 | 65 | | | | |
| | 2350 | 1109 | 64 | 60 | 59 | 56 | 50 | 47 | 69 | 67 | 66 | 62 | 57 | 54 | 74 | 74 | 73 | 68 | 64 | 62 | 77 | 79 | 77 | 72 | 68 | 66 | | | | |
| | 2515 | 1187 | 64 | 61 | 59 | 56 | 51 | 48 | 69 | 68 | 66 | 63 | 58 | 55 | 75 | 75 | 73 | 69 | 65 | 62 | 78 | 79 | 77 | 73 | 69 | 66 | | | | |
| 14 | 500 | 236 | 51 | 49 | 48 | 46 | 41 | 38 | 58 | 57 | 55 | 53 | 48 | 46 | 65 | 64 | 62 | 59 | 54 | 53 | 69 | 68 | 65 | 63 | 59 | 58 | | | | |
| | 1250 | 590 | 56 | 54 | 54 | 52 | 46 | 43 | 63 | 61 | 61 | 58 | 53 | 51 | 70 | 68 | 67 | 65 | 60 | 58 | 73 | 72 | 71 | 69 | 64 | 62 | | | | |
| | 2000 | 944 | 59 | 56 | 57 | 55 | 49 | 46 | 65 | 63 | 64 | 61 | 56 | 53 | 72 | 70 | 70 | 68 | 63 | 61 | 76 | 74 | 74 | 71 | 67 | 65 | | | | |
| | 2750 | 1298 | 60 | 57 | 59 | 57 | 51 | 47 | 67 | 64 | 66 | 63 | 58 | 55 | 74 | 72 | 73 | 70 | 65 | 62 | 78 | 76 | 76 | 73 | 69 | 67 | | | | |
| | 3420 | 1614 | 61 | 58 | 61 | 58 | 53 | 48 | 68 | 65 | 67 | 65 | 60 | 56 | 75 | 73 | 74 | 71 | 67 | 63 | 79 | 77 | 78 | 75 | 71 | 68 | | | | |

Table 6. Discharge Sound Data for Single Duct Supply Air Terminal.

(Sound Power Levels, Lw dB, re 10⁻¹² Watts)

| | | 125 Pa (0.5" W.G.) | | | | | | 250 Pa (1.0" W.G.) | | | | | | 500 Pa (2.0" W.G.) | | | | | | 750 Pa (3.0" W.G.) | | | | | | | | | | |
|-----------|---------|--------------------|-------------|----|----|----|----|--------------------|----|-------------|----|----|----|--------------------|----|----|-------------|----|----|--------------------|----|----|----|-------------|----|----|--|--|--|--|
| Unit Size | Airflow | | Octave Band | | | | | | | Octave Band | | | | | | | Octave Band | | | | | | | Octave Band | | | | | | |
| | cfm | L/s | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | | | | |
| 16 | 600 | 283 | 49 | 46 | 46 | 46 | 43 | 42 | 55 | 53 | 52 | 52 | 49 | 49 | 61 | 60 | 59 | 58 | 55 | 56 | 65 | 64 | 62 | 62 | 59 | 60 | | | | |
| | 1400 | 661 | 55 | 51 | 52 | 51 | 48 | 46 | 62 | 58 | 58 | 57 | 54 | 53 | 68 | 65 | 65 | 63 | 60 | 59 | 71 | 70 | 69 | 67 | 64 | 63 | | | | |
| | 2200 | 1038 | 59 | 54 | 55 | 54 | 50 | 48 | 65 | 61 | 62 | 60 | 56 | 54 | 71 | 68 | 68 | 66 | 63 | 61 | 75 | 72 | 72 | 70 | 66 | 65 | | | | |
| | 3000 | 1416 | 61 | 56 | 57 | 56 | 52 | 49 | 67 | 63 | 64 | 62 | 58 | 56 | 74 | 70 | 70 | 68 | 64 | 62 | 77 | 74 | 74 | 71 | 68 | 66 | | | | |
| | 3800 | 1793 | 63 | 58 | 59 | 58 | 53 | 50 | 69 | 65 | 65 | 63 | 59 | 57 | 75 | 72 | 72 | 69 | 66 | 63 | 79 | 76 | 76 | 73 | 69 | 67 | | | | |
| | 4470 | 2110 | 64 | 59 | 60 | 58 | 54 | 51 | 71 | 66 | 67 | 64 | 60 | 57 | 77 | 73 | 73 | 70 | 66 | 64 | 80 | 77 | 77 | 74 | 70 | 68 | | | | |
| 18 | 1500 | 708 | 55 | 53 | 51 | 51 | 48 | 45 | 60 | 58 | 57 | 57 | 53 | 50 | 65 | 64 | 63 | 63 | 58 | 55 | 68 | 67 | 66 | 66 | 60 | 59 | | | | |
| | 3500 | 1652 | 65 | 62 | 61 | 60 | 57 | 53 | 70 | 68 | 67 | 66 | 62 | 59 | 75 | 73 | 73 | 71 | 67 | 64 | 78 | 76 | 76 | 75 | 70 | 67 | | | | |
| | 5500 | 2596 | 70 | 67 | 66 | 64 | 63 | 58 | 75 | 73 | 72 | 70 | 67 | 63 | 80 | 78 | 78 | 76 | 72 | 69 | 83 | 82 | 81 | 79 | 75 | 72 | | | | |
| | 7500 | 3540 | 74 | 71 | 70 | 68 | 66 | 61 | 79 | 76 | 76 | 73 | 71 | 67 | 84 | 82 | 81 | 79 | 76 | 72 | 87 | 85 | 85 | 82 | 79 | 75 | | | | |
| | 8530 | 4026 | 75 | 72 | 71 | 69 | 67 | 63 | 80 | 78 | 77 | 75 | 72 | 68 | 85 | 83 | 83 | 80 | 77 | 73 | 88 | 86 | 86 | 84 | 80 | 76 | | | | |

Performance Notes:

1. Tested in accordance with AHRI 880-2011 and ASHRAE Standard 130-1996: "Methods of 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 in Pascals, (Pa) and inches of water gauge (in. w.g.).

Table 7. Radiated Sound Data for Single Duct Supply Air Terminals

(Sound Power Levels, Lw dB, re 10⁻¹² Watts)

| | | 125 Pa (0.5" W.G.) | | | | | | 250 Pa (1.0" W.G.) | | | | | | 500 Pa (2.0" W.G.) | | | | | | 750 Pa (3.0" W.G.) | | | | | | | | | | |
|-----------|---------|--------------------|-------------|----|----|----|----|--------------------|----|-------------|----|----|----|--------------------|----|----|-------------|----|----|--------------------|----|----|----|-------------|----|----|--|--|--|--|
| Unit Size | Airflow | | Octave Band | | | | | | | Octave Band | | | | | | | Octave Band | | | | | | | Octave Band | | | | | | |
| | cfm | L/s | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | | | | |
| 4 | 75 | 35 | 37 | 31 | 29 | 21 | — | — | 37 | 32 | 32 | 25 | 25 | -- | 37 | 33 | 36 | 30 | 31 | 28 | 37 | 34 | 37 | 32 | 34 | 33 | | | | |
| | 150 | 71 | 51 | 45 | 38 | 29 | 22 | — | 51 | 46 | 41 | 33 | 28 | 20 | 51 | 47 | 44 | 38 | 34 | 29 | 51 | 47 | 46 | 40 | 38 | 34 | | | | |
| | 225 | 106 | 59 | 53 | 43 | 34 | 25 | — | 59 | 54 | 46 | 38 | 31 | 20 | 59 | 55 | 49 | 42 | 37 | 29 | 59 | 55 | 51 | 45 | 40 | 34 | | | | |
| | 280 | 132 | 63 | 57 | 46 | 36 | 26 | — | 63 | 58 | 49 | 40 | 32 | 20 | 63 | 59 | 52 | 45 | 38 | 29 | 63 | 60 | 54 | 47 | 42 | 34 | | | | |
| 6 | 125 | 59 | 41 | 33 | 31 | 27 | 23 | — | 44 | 37 | 35 | 31 | 29 | 25 | 47 | 41 | 38 | 36 | 35 | 33 | 48 | 44 | 40 | 38 | 38 | 38 | | | | |
| | 250 | 118 | 50 | 43 | 39 | 33 | 27 | — | 52 | 47 | 43 | 37 | 32 | 26 | 55 | 52 | 46 | 42 | 38 | 35 | 57 | 54 | 48 | 44 | 42 | 40 | | | | |
| | 375 | 177 | 55 | 49 | 44 | 37 | 29 | — | 57 | 53 | 47 | 41 | 34 | 27 | 60 | 58 | 51 | 45 | 40 | 35 | 62 | 60 | 53 | 47 | 44 | 40 | | | | |
| | 500 | 236 | 58 | 53 | 47 | 39 | 30 | — | 61 | 58 | 51 | 43 | 36 | 28 | 64 | 62 | 54 | 48 | 42 | 36 | 65 | 64 | 56 | 50 | 45 | 41 | | | | |
| | 630 | 297 | 61 | 57 | 50 | 41 | 31 | — | 64 | 61 | 53 | 45 | 37 | 28 | 66 | 65 | 57 | 50 | 43 | 37 | 68 | 68 | 59 | 52 | 46 | 41 | | | | |
| 8 | 175 | 83 | 42 | 32 | 29 | 24 | — | — | 45 | 37 | 34 | 30 | 24 | -- | 48 | 42 | 40 | 35 | 31 | 25 | 49 | 45 | 43 | 38 | 34 | 29 | | | | |
| | 375 | 177 | 51 | 40 | 36 | 31 | 24 | — | 54 | 46 | 42 | 36 | 31 | 25 | 57 | 51 | 47 | 42 | 37 | 32 | 58 | 54 | 50 | 45 | 41 | 35 | | | | |
| | 575 | 271 | 56 | 45 | 41 | 35 | 28 | 23 | 59 | 51 | 46 | 40 | 34 | 29 | 62 | 56 | 52 | 46 | 41 | 35 | 63 | 59 | 55 | 49 | 44 | 39 | | | | |
| | 775 | 366 | 59 | 49 | 44 | 38 | 31 | 25 | 62 | 54 | 49 | 43 | 37 | 31 | 65 | 59 | 55 | 48 | 43 | 38 | 67 | 62 | 58 | 51 | 47 | 42 | | | | |
| | 975 | 460 | 62 | 52 | 46 | 40 | 33 | 27 | 65 | 57 | 51 | 45 | 39 | 33 | 68 | 62 | 57 | 50 | 45 | 40 | 70 | 65 | 60 | 53 | 49 | 43 | | | | |
| | 1115 | 526 | 64 | 53 | 47 | 41 | 34 | 28 | 67 | 58 | 53 | 46 | 40 | 34 | 70 | 63 | 58 | 51 | 46 | 41 | 71 | 66 | 61 | 55 | 50 | 45 | | | | |
| 10 | 250 | 118 | 41 | 31 | 33 | 28 | 22 | — | 45 | 36 | 40 | 34 | 29 | 25 | 49 | 42 | 46 | 40 | 36 | 32 | 51 | 45 | 50 | 43 | 40 | 36 | | | | |
| | 550 | 260 | 49 | 39 | 38 | 32 | 27 | 21 | 53 | 45 | 45 | 38 | 33 | 28 | 56 | 50 | 51 | 44 | 40 | 35 | 59 | 54 | 55 | 48 | 44 | 39 | | | | |
| | 850 | 401 | 53 | 43 | 41 | 35 | 29 | 23 | 57 | 49 | 48 | 41 | 36 | 30 | 61 | 55 | 54 | 47 | 42 | 37 | 63 | 58 | 58 | 50 | 46 | 41 | | | | |
| | 1150 | 543 | 56 | 47 | 43 | 36 | 30 | 24 | 60 | 52 | 50 | 42 | 37 | 31 | 63 | 58 | 56 | 49 | 44 | 38 | 66 | 61 | 60 | 52 | 48 | 42 | | | | |
| | 1450 | 684 | 58 | 49 | 45 | 38 | 32 | 25 | 62 | 55 | 51 | 44 | 38 | 32 | 66 | 60 | 58 | 50 | 45 | 39 | 68 | 64 | 61 | 53 | 49 | 43 | | | | |
| | 1745 | 824 | 60 | 51 | 46 | 39 | 33 | 25 | 64 | 57 | 53 | 45 | 39 | 32 | 67 | 62 | 59 | 51 | 46 | 40 | 70 | 66 | 63 | 55 | 50 | 44 | | | | |
| 12 | 350 | 165 | 37 | 34 | 36 | 27 | -- | -- | 42 | 40 | 43 | 33 | 26 | 23 | 47 | 45 | 49 | 38 | 32 | 30 | 50 | 49 | 52 | 42 | 35 | 33 | | | | |
| | 850 | 401 | 45 | 42 | 42 | 34 | 28 | 22 | 50 | 48 | 49 | 40 | 34 | 29 | 55 | 53 | 55 | 45 | 40 | 35 | 58 | 57 | 58 | 49 | 43 | 39 | | | | |
| | 1350 | 637 | 50 | 46 | 45 | 37 | 32 | 25 | 55 | 52 | 52 | 43 | 38 | 31 | 60 | 58 | 58 | 49 | 44 | 38 | 63 | 61 | 61 | 52 | 47 | 41 | | | | |
| | 1850 | 873 | 53 | 49 | 48 | 40 | 35 | 27 | 58 | 55 | 54 | 46 | 40 | 33 | 63 | 60 | 60 | 51 | 46 | 40 | 66 | 64 | 64 | 55 | 50 | 43 | | | | |
| | 2350 | 1109 | 55 | 51 | 49 | 42 | 37 | 28 | 60 | 57 | 55 | 48 | 43 | 35 | 65 | 63 | 62 | 53 | 48 | 41 | 68 | 66 | 65 | 57 | 52 | 45 | | | | |

Table 7. Radiated Sound Data for Single Duct Supply Air Terminals

(Sound Power Levels, Lw dB, re 10⁻¹² Watts)

| Unit | Airflow | | 125 Pa (0.5" W.G.) | | | | | | | 250 Pa (1.0" W.G.) | | | | | | | 500 Pa (2.0" W.G.) | | | | | | | 750 Pa (3.0" W.G.) | | | | | | |
|------|---------|------|--------------------|-------------|----|----|----|----|----|--------------------|-------------|----|----|----|----|----|--------------------|-------------|----|----|----|----|----|--------------------|-------------|----|----|----|--|--|
| | Size | cfm | L/s | Octave Band | | | | | | | Octave Band | | | | | | | Octave Band | | | | | | | Octave Band | | | | | |
| | | | | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 5 | 6 | 7 | | | |
| | 2515 | 1187 | | 56 | 52 | 50 | 42 | 37 | 29 | 61 | 57 | 56 | 48 | 43 | 35 | 66 | 63 | 62 | 54 | 49 | 41 | 69 | 66 | 66 | 57 | 53 | 45 | | | |
| 14 | 500 | 236 | | 43 | 37 | 35 | 28 | 22 | — | 48 | 43 | 41 | 33 | 27 | — | 54 | 50 | 47 | 39 | 32 | 26 | 57 | 53 | 51 | 42 | 35 | 29 | | | |
| | 1250 | 590 | | 49 | 44 | 42 | 35 | 30 | 21 | 55 | 50 | 48 | 41 | 35 | 27 | 60 | 56 | 54 | 46 | 40 | 33 | 63 | 60 | 58 | 50 | 43 | 37 | | | |
| | 2000 | 944 | | 52 | 47 | 45 | 39 | 34 | 25 | 58 | 53 | 51 | 44 | 39 | 31 | 63 | 59 | 57 | 50 | 44 | 37 | 67 | 63 | 61 | 53 | 47 | 41 | | | |
| | 2750 | 1298 | | 54 | 49 | 47 | 41 | 37 | 28 | | 60 | 56 | 54 | 47 | 42 | 34 | 66 | 62 | 60 | 52 | 47 | 40 | 69 | 65 | 63 | 56 | 50 | 43 | | |
| | 3420 | 1614 | | 56 | 51 | 49 | 43 | 39 | 30 | | 62 | 57 | 55 | 49 | 44 | 36 | 67 | 63 | 61 | 54 | 49 | 42 | 70 | 67 | 65 | 58 | 51 | 45 | | |
| 16 | 600 | 283 | | 37 | 39 | 32 | 28 | 23 | -- | 42 | 45 | 37 | 33 | 28 | 26 | 47 | 52 | 43 | 37 | 33 | 33 | 51 | 55 | 46 | 40 | 36 | 37 | | | |
| | 1400 | 661 | | 45 | 45 | 40 | 36 | 31 | 26 | | 51 | 51 | 45 | 40 | 36 | 32 | 56 | 58 | 51 | 45 | 42 | 39 | 59 | 61 | 54 | 48 | 45 | 42 | | |
| | 2200 | 1038 | | 50 | 48 | 44 | 40 | 36 | 29 | | 55 | 55 | 49 | 44 | 41 | 35 | 60 | 61 | 55 | 49 | 46 | 42 | 63 | 65 | 58 | 52 | 50 | 46 | | |
| | 3000 | 1416 | | 53 | 50 | 47 | 43 | 39 | 31 | | 58 | 57 | 52 | 47 | 44 | 37 | 63 | 63 | 58 | 52 | 49 | 44 | 67 | 67 | 61 | 55 | 53 | 48 | | |
| | 3800 | 1793 | | 55 | 52 | 49 | 45 | 41 | 32 | | 60 | 58 | 55 | 49 | 46 | 39 | 66 | 65 | 60 | 54 | 52 | 46 | 69 | 68 | 63 | 57 | 55 | 49 | | |
| | 4470 | 2110 | | 57 | 53 | 50 | 46 | 43 | 34 | | 62 | 60 | 56 | 51 | 48 | 40 | 67 | 66 | 62 | 55 | 53 | 47 | 70 | 70 | 65 | 58 | 57 | 50 | | |
| 18 | 1500 | 708 | | 49 | 46 | 40 | 34 | 29 | 23 | | 52 | 50 | 44 | 37 | 31 | 26 | 55 | 54 | 48 | 39 | 33 | 29 | 57 | 57 | 50 | 41 | 34 | 31 | | |
| | 3500 | 1652 | | 61 | 56 | 52 | 48 | 44 | 37 | | 64 | 60 | 56 | 50 | 46 | 40 | 67 | 65 | 60 | 53 | 48 | 43 | 69 | 67 | 62 | 54 | 49 | 45 | | |
| | 5500 | 2596 | | 68 | 62 | 58 | 55 | 52 | 44 | | 71 | 66 | 62 | 58 | 54 | 47 | 74 | 70 | 66 | 60 | 56 | 50 | 75 | 73 | 68 | 62 | 57 | 52 | | |
| | 7500 | 3540 | | 72 | 66 | 63 | 60 | 58 | 49 | | 75 | 70 | 67 | 63 | 60 | 52 | 78 | 74 | 70 | 65 | 62 | 56 | 80 | 76 | 73 | 67 | 63 | 57 | | |
| | 8530 | 4026 | | 74 | 67 | 65 | 62 | 60 | 51 | | 77 | 71 | 68 | 65 | 62 | 54 | 80 | 76 | 72 | 67 | 64 | 58 | 82 | 78 | 75 | 69 | 65 | 59 | | |

Performance Notes:

1. Tested in accordance with with AHRI 880-2011 and ASHRAE Standard 130-1996: "Methods of 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 in Pascals, (Pa) and inches of water gauge (in. w.g.).

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