



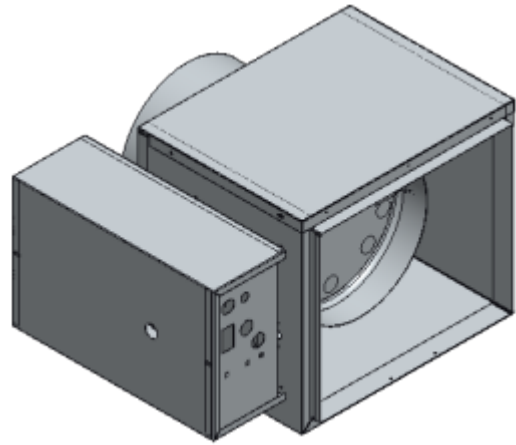
Variable Air Volume Single Duct

Unit Overview - VAVs, VAVs-1, VAVs-2, VAVs-3, VAVs-4

Unit model	Primary inlet	Design cooling airflow	Min cooling airflow	Trane Supplied Controls
VCCF (Cooling Only)	12" (305mm)	1500 cfm	800 cfm	Refer to "Customer Supplied" controls

Construction and Airflow

APD @ cooling airflow	0.010 in H2O
Cooling inlet velocity	1910 ft/min
Valve heating airflow	800 cfm
Connection side	Left
Unit Insulation	1/2" matte
Elevation	500.00 ft
Operating weight	27.0 lb
Air Leakage Class	Standard Air Leakage



Controls and Sensors

Customer supplied controls/No controls	Shaft only - with control enclosure
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Accessory Options

Disconnect Switch	Disconnect switch
Power fuse	Power Fuse
Transformer	208/24 volt transformer

Acoustics

Max inlet SP	Discharge transfer function				Radiated transfer function		
	AHRI 885-98/08				AHRI 885-98/08 Mineral Fiber		
0.750 in H2O	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	NC
Sound Path							
Discharge valve	67 dB	61 dB	58 dB	50 dB	48 dB	45 dB	18
Radiated valve	55 dB	51 dB	41 dB	33 dB	31 dB	26 dB	19

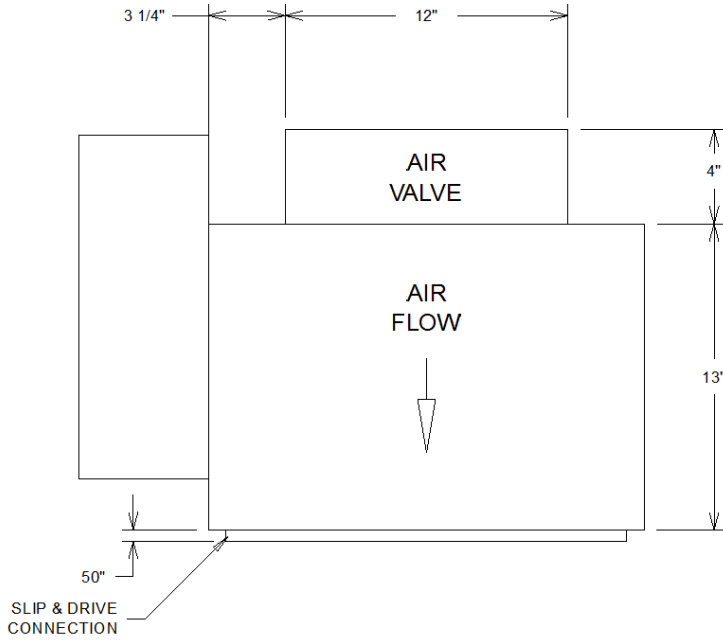
Note: Sound power level in dB re 1 pW. Acoustical data obtained in accordance with AHRI 880-11

Note: Ducted Discharge noise criteria (NC) estimate is calculated using the following transfer function: AHRI 885-2008.

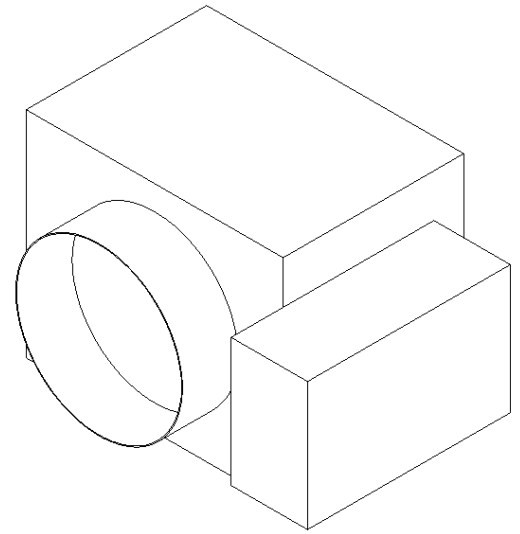
Note: Casing noise criteria (NC) estimate is calculated using the following transfer function: AHRI 885-2008.

Warranty

Labor warranty first year	1st year labor warranty whole unit
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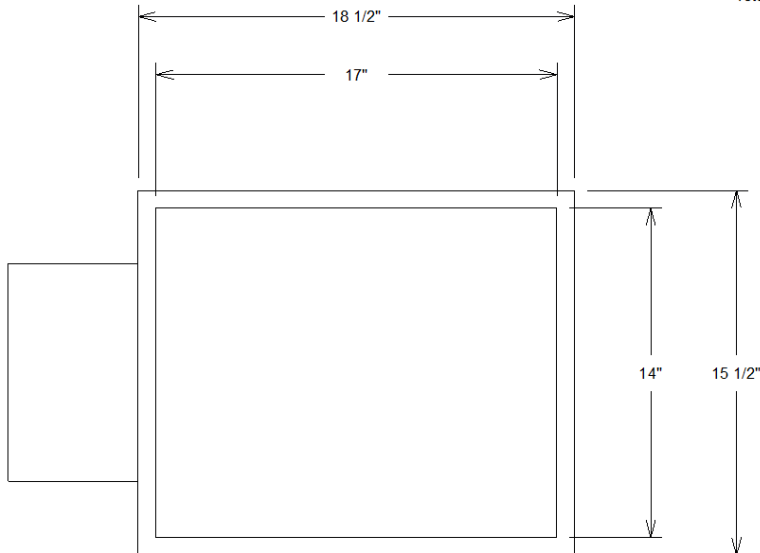


TOP VIEW



Customer Notes

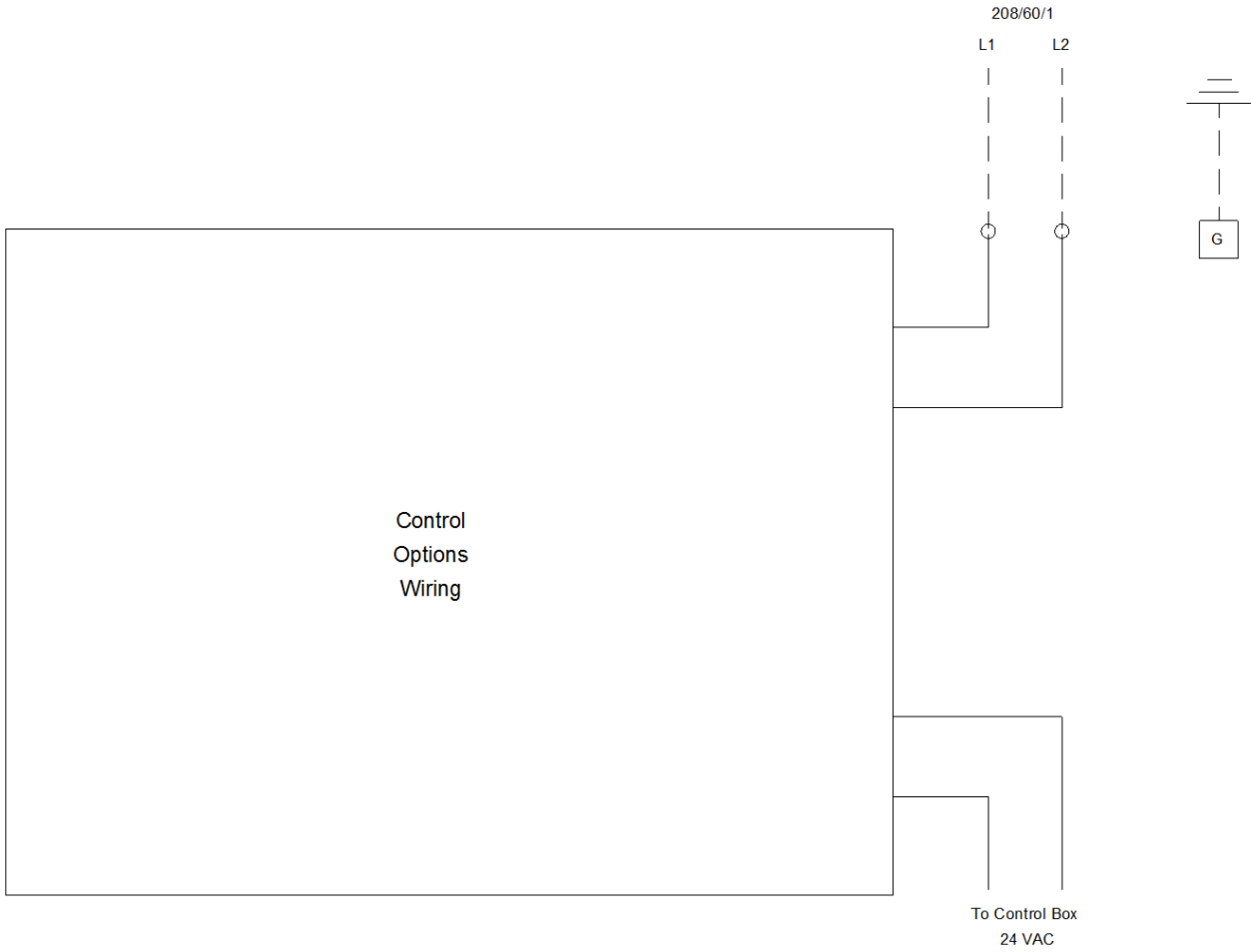
1. Air Inlet is centered in unit front panel.
2. Slip & Drive discharge outlet standard.
3. Minimum of 1.5 duct diameters of straight duct required at inlet for proper flow reading.
4. Allow 36" on control side for servicing.
5. Unit is field-convertible from a left-hand connection (shown) to a right-hand by rotating unit.





BACK VIEW

Approximate Dry Weight	27.0 lb
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Weights reflected may vary ± 5.0 lb based upon options selected.



	<p>WARNING</p> <p>HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH</p>
	<p>CAUTION</p> <p>USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.</p>

Customer Notes:

- 1. ————— Factory installed.
- - - - - Optional or installed by others.



General Unit Information

The unit casing is comprised of 22 gauge galvanized steel. Outlet connection is slip and drive. Agency Listing - The unit is UL and Canadian UL listed as a room air terminal unit. UL Control # 9N65. All Trane terminal units are AHRI 880 - 98 certified.

General Unit Clearance

Allow adequate clearance on control box side of unit to meet NEC. A minimum of one and one half duct diameters of straight duct work, upstream of the air inlet connection, must be present for optimum airflow measurement performance. Upstream duct work should be the same diameter as the primary inlet connection. Allow access to the bottom of unit if Optional Bottom Access Door is selected.

1/2" Matte - Faced Insulation

The interior surface of the unit casing is acoustically and thermally lined with 1/2" 1.50 lb.cu. ft. [24.00 kg./cu. m.] composite density glass fiber with 4.0 lb. cu.ft. [64 kg./cu. m.] high density facing. The insulation is UL listed and meets NFPA-90A and UL 181 standards. The insulation R-value is 1.9. All cut edges of insulation are completely encapsulated in metal to prevent erosion.

Air Valve Size - 12

Air Valve is 2000.0 cfm 12" inlet.

Air Valve Round

The air inlet connection is an 18 gauge galvanized steel cylinder sized to fit standard round duct. A multiple point, averaging flow sensing ring is provided with balancing taps for measuring within +/- 5% of unit cataloged airflow. An airflow versus pressure differential calibration chart is provided. The damper blade is constructed of a closed cell foam seal mechanically locked between two 22 gauge galvanized steel disks. The damper blade assembly is connected through a cast zinc stub axle and shaft supported by self lubricating bearings. The shaft is cast with a damper position indicator. The valve assembly includes a mechanical stop to prevent over stroking. At 4.0" w.g. air valve leakage does not exceed 1% of cataloged airflow.

Slip & Drive Connection

A slip and drive connection has two straight flanges on the top and bottom, and two drive connections on the left and right sides. This is a standard option on all VAV single duct terminal units.

Toggle Disconnect Switch (for VCCF & VCWF)

A switch, installed in a unit mounted controls enclosure, which breaks both power legs within the control box.

Control Fuse

Replaceable fuse on primary voltage hot line.

Line Fuse - VCCF and VCWF

For VCCF and VCWF units, optional fusing breaks all energized lines of incoming power.

Control Transformer

The 50 VA transformer is factory mounted in a unit mounted controls enclosure with 7/8" knockouts to provide 24 VAC for controls.