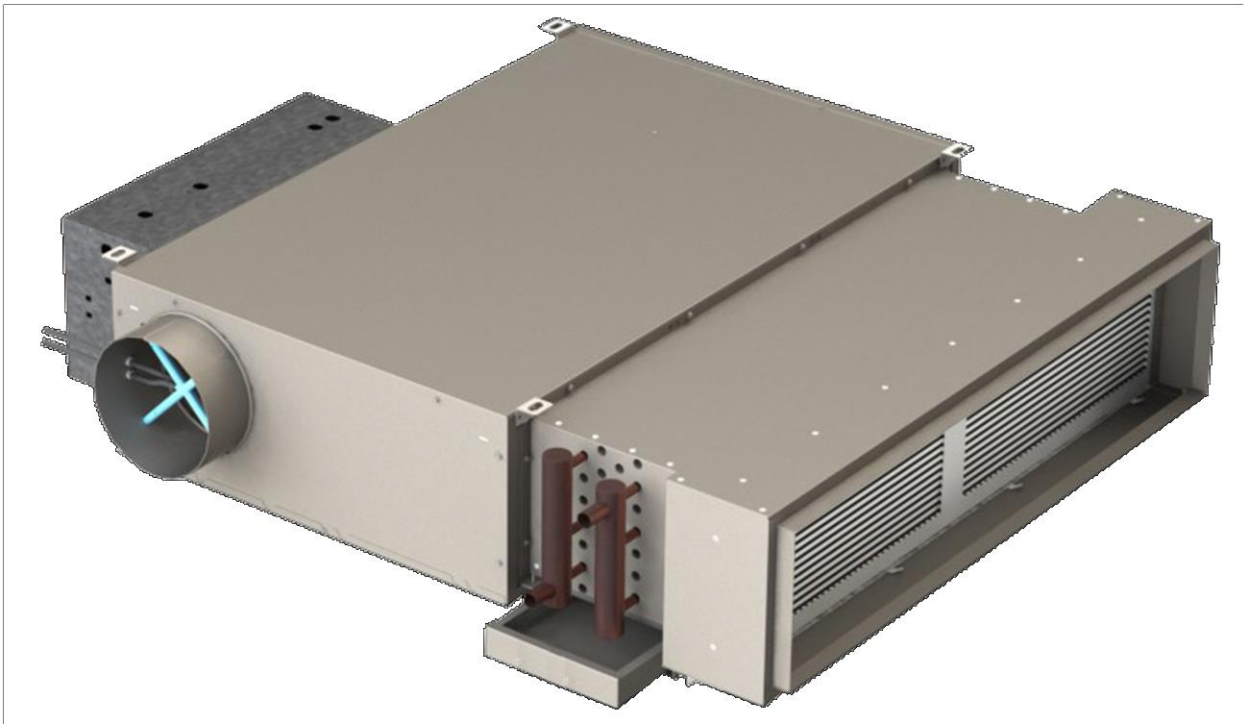
Titus
Redefine your comfort zone.™

Submittal

TU-DLSC-SB
03-06-2017

Series Fan Powered Terminal Unit with Sensible Cooling Coil

(150 to 1820 cfm)



Model: DLSC

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General Description

- Low Profile design on all sizes for application on shallow ceiling plenums.
- Pressure independent primary air flow control.
- Casing manufactured of 20 gauge G40 galvanized steel. Mechanically sealed, leak resistant construction with less than 2% of nominal CFM at 1.5" wg static pressure.
- Standard internal liner, ½ EcoShield Matted faced for resistance to air erosion. Contains no harmful irritants or chemicals with EPA registered antimicrobial inhibitor and meets requirements of NFPA 90A and UL 181.
- Ultra High efficiency ECM brushless DC motor with microprocessor based controller.
- DWDI direct driven centrifugal blowers manufactured of galvanized steel.
- Fan Airflow controlled by a Manual or Remote PWM speed controller.
- Titus AeroCross multipoint center averaging inlet velocity sensor with +/- 5% accuracy across the complete airflow range.
- Fully gasketed heavy duty round damper manufactured of heavy gauge galvanized steel with metal shaft rotating in Delrin self-lubricating bearings.
- Primary air flow balancing connections for CFM measurement.
- Single point electrical connections.
- Rectangular discharge opening is designed for flanged duct connections.
- Drip Pan.
- High Efficiency SENSIBLE Cooling and booster Heating coils factory installed on Induced air inlet.
- Removable Bottom Access panel for easy service/maintenance.
- UL Class2 control transformer 24V secondary voltage.
- ETL Certified

Basic Unit Configuration

- ☐ Righ Hand Control Enclosure
- ☐ Left Hand Control Enclosure

- ☐ Unit Size 1
- ☐ Unit Size 2
- ☐ Unit Size 3
- ☐ Unit Size 4
- ☐ Unit Size 5

- ☐ 4" Round Inlet
- ☐ 6" Round Inlet
- ☐ 8" Round Inlet
- ☐ 10" Round Inlet
- ☐ 12" Round Inlet
- ☐ 14" Round Inlet
- ☐ 16 X 8" Rectangular Inlet

- ☐ ECM Motor 120V/1Ph/60Hz
- ☐ ECM Motor 208V/240V/1Ph/60Hz
- ☐ ECM Motor 277V/1Ph/60Hz
- ☐ Manual PWM ECM Motor C'trl
- ☐ Remote PWM ECM Motor C'trl

Liners

- ☐ ½" EcoShield Liner (Matte)
- ☐ ½" EcoShield Liner Foil Faced
- ☐ 1" EcoShield Liner
- ☐ 1" EcoShield Foil Faced
- ☐ ½" Fiberglass
- ☐ ½" Fiberglass Foil Faced
- ☐ 1" Fiberglass
- ☐ 1" Fiberglass Foil Faced
- ☐ ½" Fiber Free
- ☐ 3/8" Fiber Free
- ☐ 1" Fiber Free
- ☐ ½" UltraLoc
- ☐ ½" UltraLoc EcoShield
- ☐ ½" UltraLoc Foil Faced EcoShield Perforated inner liner
- ☐ ½" UltraLoc Foil Faced Perforated inner liner
- ☐ 1" UltraLoc
- ☐ 1" UltraLoc EcoShield
- ☐ 1" UltraLoc Foil Faced EcoShield Perforated inner liner
- ☐ 1" UltraLoc Foil Faced Perforated inner liner
- ☐ 1" SteriLoc
- ☐ No liner

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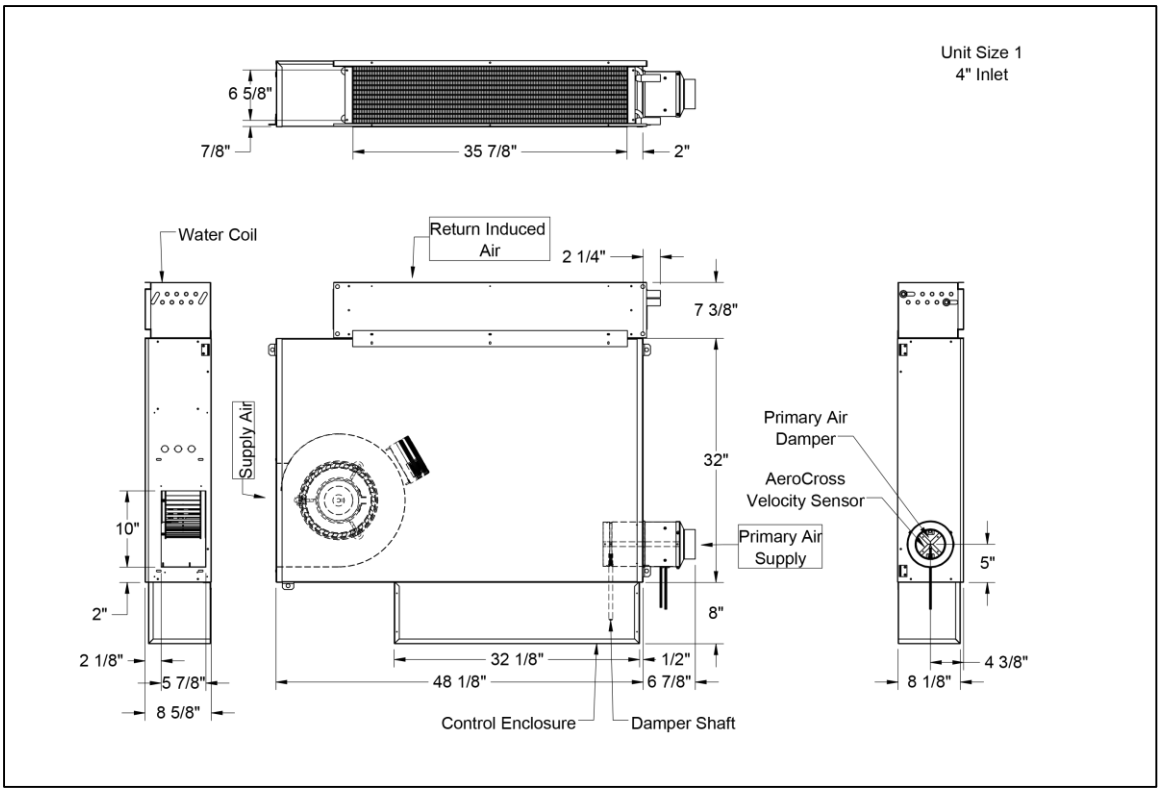

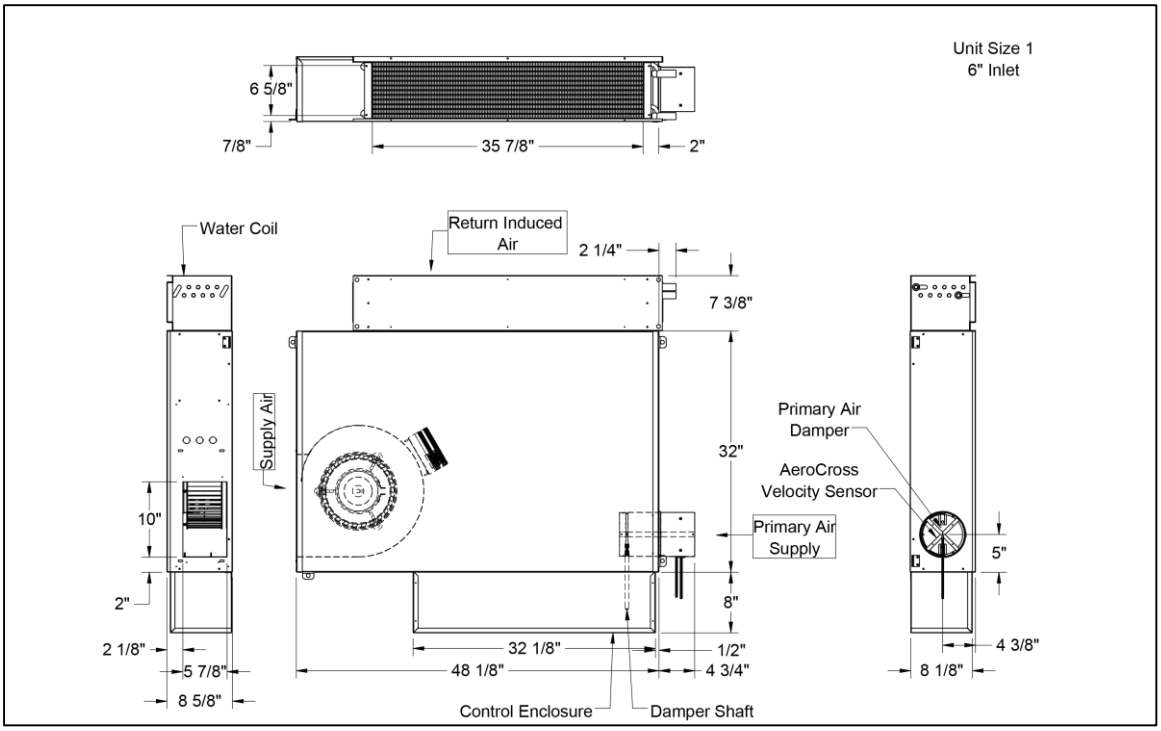

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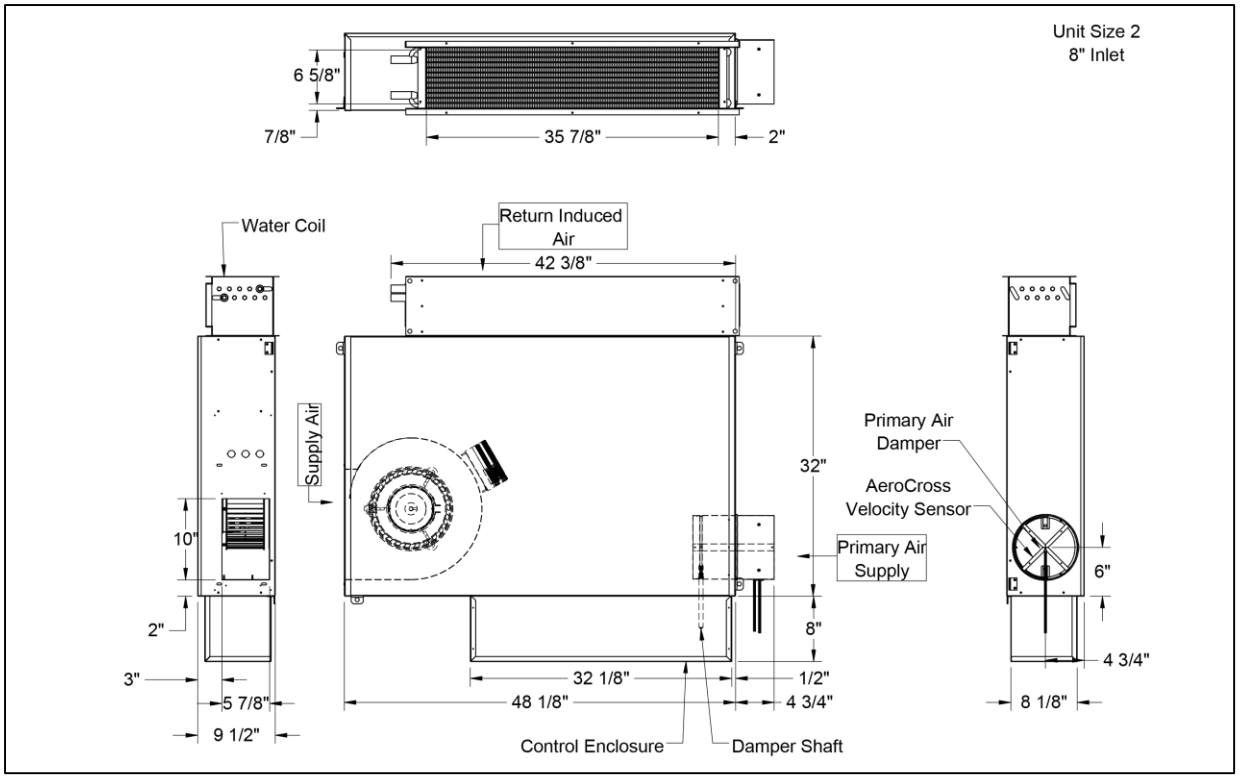

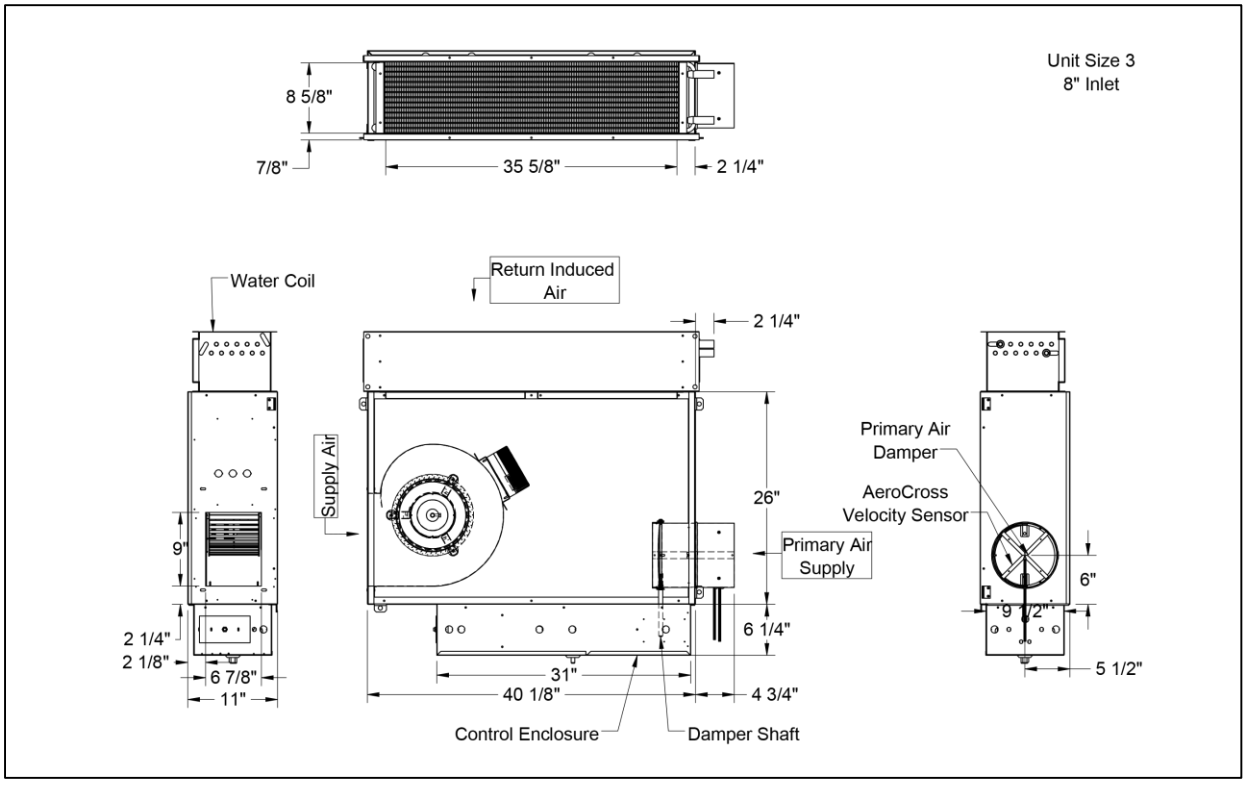

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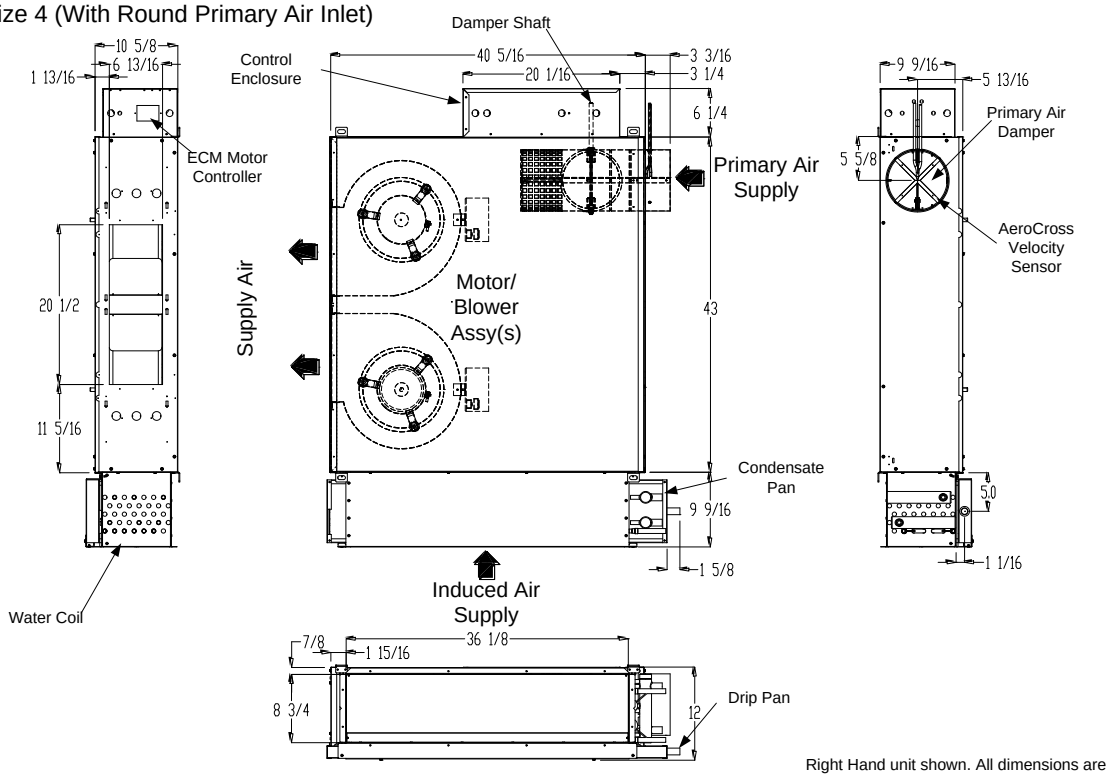
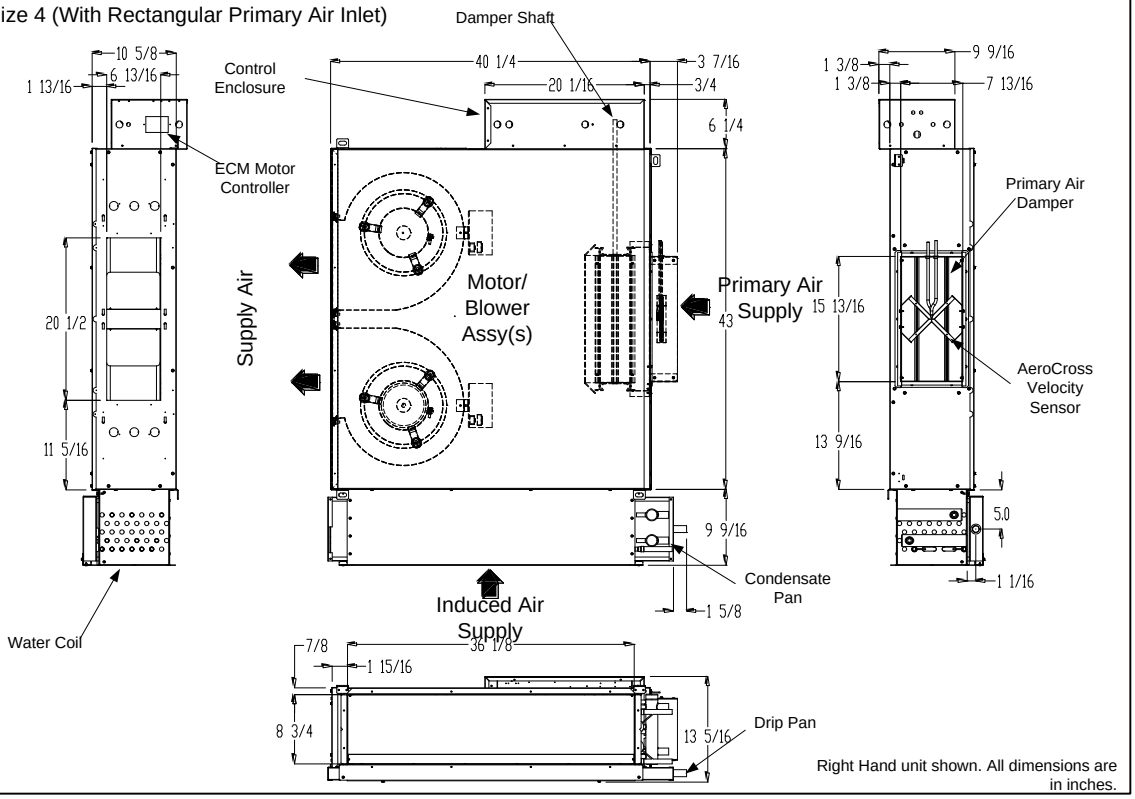
Basic Unit Dimensions

Unit Size 4 (With Round Primary Air Inlet)



Right Hand unit shown. All dimensions are in inches.

Unit Size 4 (With Rectangular Primary Air Inlet)



Right Hand unit shown. All dimensions are in inches.

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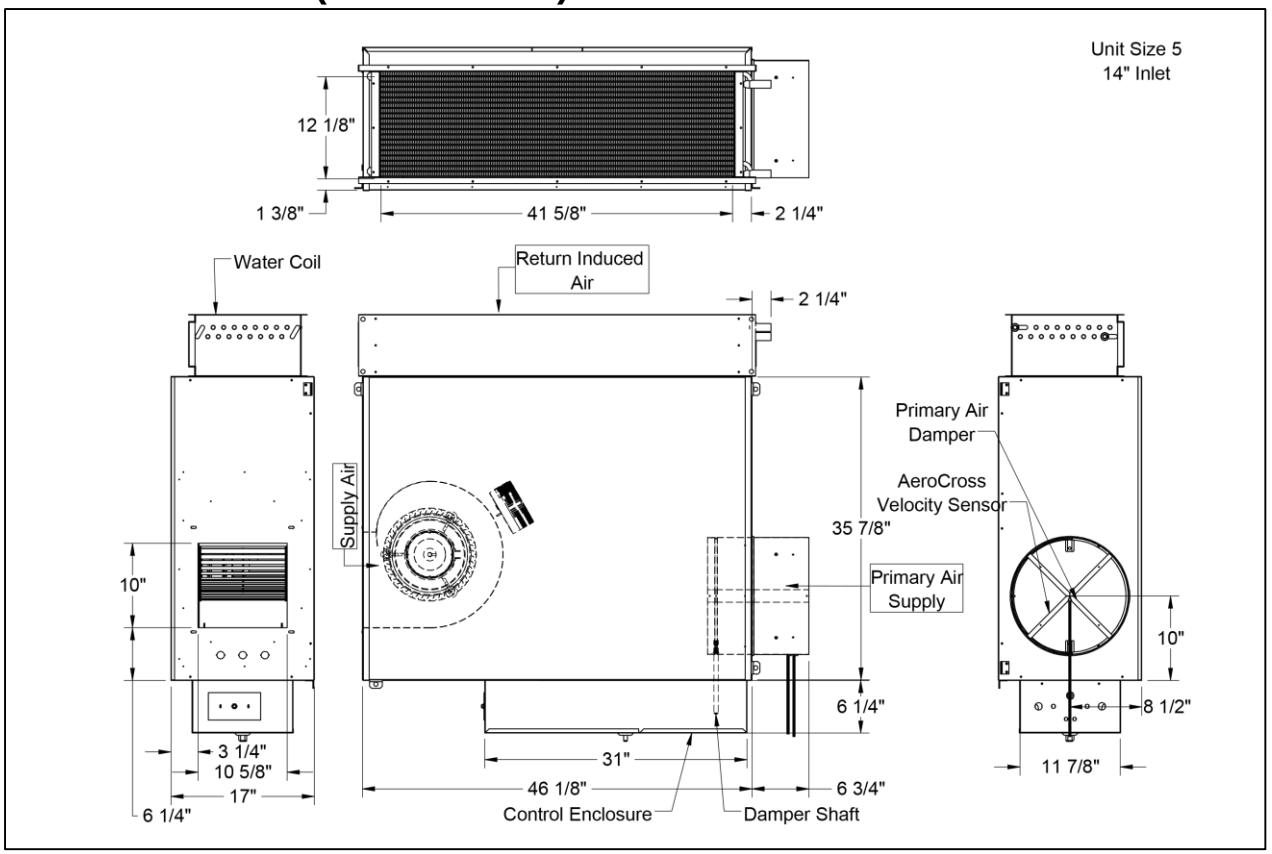
Basic Unit Dimensions (Continuation)



Induced Air Coil

- ☐ 2 Row Cool Coil
- ☐ 2 Row Cool + 1 Row Heat Coil
- ☐ 3 Row Cool Coil
- ☐ 4 Row Cool Coil
- ☐ 4 Row Cool + 1 Row Heat Coil
- ☐ 5 Row Cool Coil
- ☐ 6 Row Cool Coil
- ☐ 6 Row Cool + 1 Row Heat Coil
- ☐ 7 Row Cool Coil
- ☐ 8 Row Cool Coil

Connection Orientation

- ☐ Inlet side connection
- ☐ Discharge side connection

NOTE: Units with electric discharge heaters cannot have induction water coils with discharge side connections in order to prevent interference at installation.

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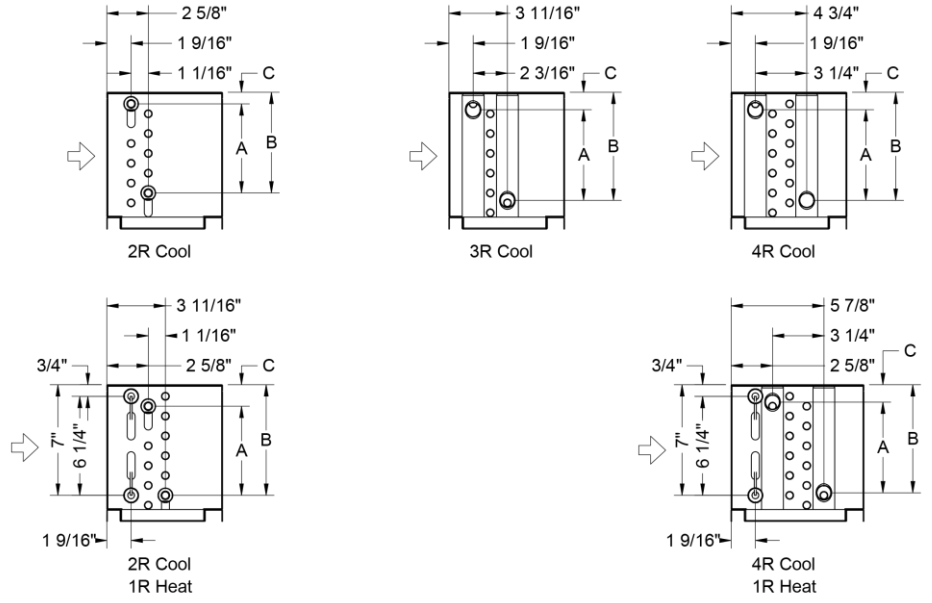
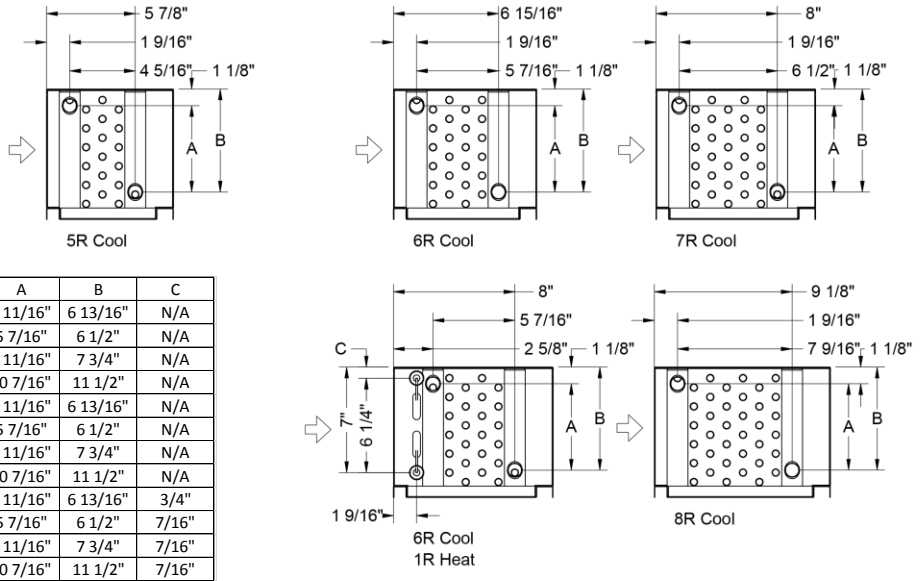
Water Coil(s) Connections

Water Coil Dimensions, 1-4 row



Right hand control panel coil orientation shown
Left hand is mirrored including airflow direction
Dimensions shown to nearest 1/16"

Water Coil Dimensions, 5-8 row



Coil Size	Unit Size	A	B	C
5R Cool	Size 1	5 11/16"	6 13/16"	N/A
	Size 2	5 7/16"	6 1/2"	N/A
	Size 3	6 11/16"	7 3/4"	N/A
	Size 5	10 7/16"	11 1/2"	N/A
6R Cool	Size 1	5 11/16"	6 13/16"	N/A
	Size 2	5 7/16"	6 1/2"	N/A
	Size 3	6 11/16"	7 3/4"	N/A
	Size 5	10 7/16"	11 1/2"	N/A
6R Cool 1R Heat	Size 1	5 11/16"	6 13/16"	3/4"
	Size 2	5 7/16"	6 1/2"	7/16"
	Size 3	6 11/16"	7 3/4"	7/16"
	Size 5	10 7/16"	11 1/2"	7/16"
7R Cool	Size 1	5 11/16"	6 13/16"	N/A
	Size 2	5 7/16"	6 1/2"	N/A
	Size 3	6 11/16"	7 3/4"	N/A
	Size 5	10 7/16"	11 1/2"	N/A
8R Cool	Size 1	5 11/16"	6 13/16"	N/A
	Size 2	5 7/16"	6 1/2"	N/A
	Size 3	6 11/16"	7 3/4"	N/A
	Size 5	10 7/16"	11 1/2"	N/A

Right hand control panel coil orientation shown
Left hand is mirrored including airflow direction
Dimensions shown to nearest 1/16"

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Optional Accessories (Continued)

Control Accessories

Check ☑ if provided.

- ☐ FMA controls
- ☐ Controller _____
- ☐ Damper Actuator_____
- ☐ Dust Tight Control Enclosure (Chicago Code)
- ☐ Dust Tight Disconnect SW (Chicago Code)
- ☐ Remote User Disconnect (Chicago Code)
- ☐ Disconnect Switch-NonFused

Discharge Electric Heater

Check ☑ if provided.

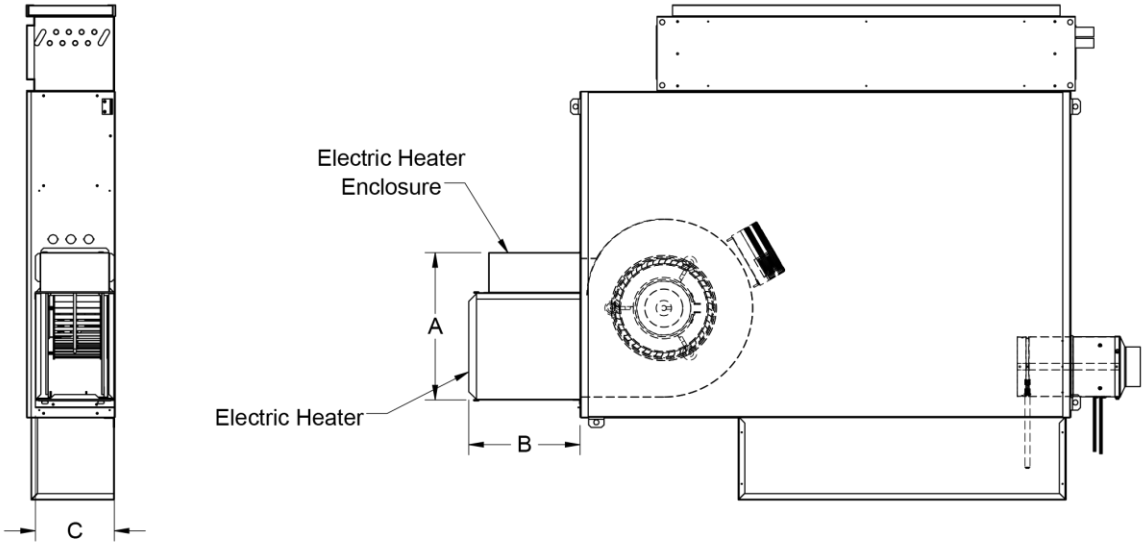
- ☐ Power Supply 208V/1Ph/60H
- ☐ Power Supply 240V/1Ph/60Hz
- ☐ Power Supply 277V/1Ph/60Hz
- ☐ Power Supply 208/3Ph/60Hz
- ☐ Power Supply 480/3Ph/60Hz
- ☐ 1 Stage
- ☐ 2 Stages
- ☐ 3 Stages
- ☐ PWM Control
- ☐ 0-10V / 0-20mA
- ☐ 2-10V / 4-20mA
- ☐ Incremental T'Stat
- ☐ Binary
- ☐ 3 Point Floating
- ☐ Mercury Contactors
- ☐ Fuse Block
- ☐ Disconnect Switch - Fused
- ☐ Disconnect Switch - NonFused
- ☐ Manual Reset Secondary CutOut
- ☐ Dust Tight Construction
- ☐ Lynergy™ Discharge Temperature Sensor

NOTE: Units with electric discharge heaters cannot have induction water coils with discharge side connections in order to prevent interference at installation.

Electric Heater Option Table

Unit Size	A	B	C
1	14 3/8"	10 7/8"	7 3/4"
2	14 3/8"	10 7/8"	7 3/4"
3	16 5/8"	9 3/4"	8 1/2"
4	31 1/4"	9 3/4"	8 1/2"
5	18 1/4"	9 3/4"	13"

Electric Heater Option



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Optional Accessories (Continued)

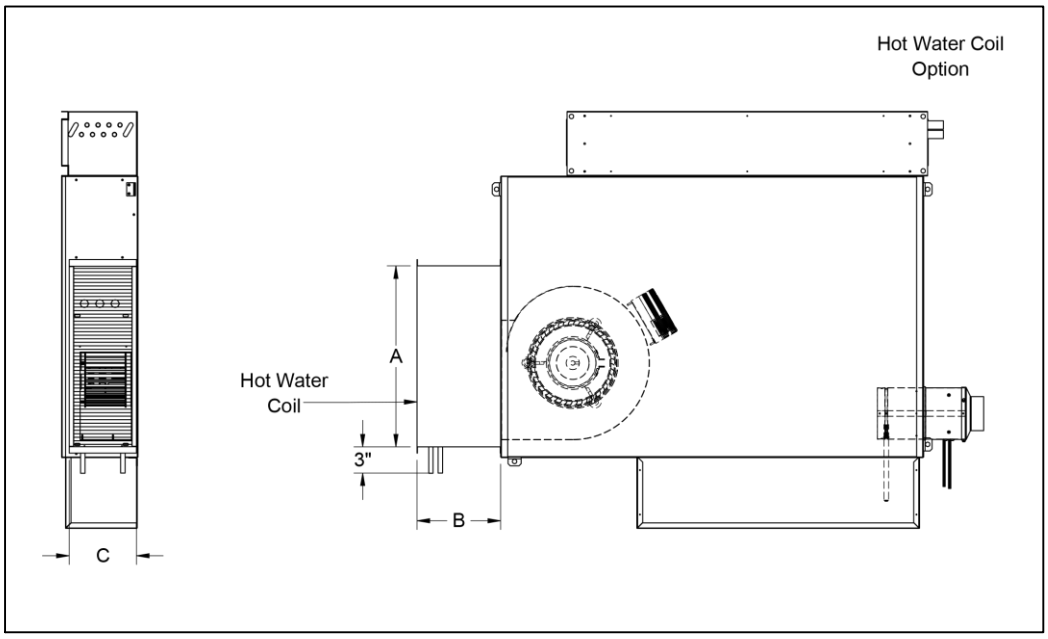
Discharge Water Coil

Check ☑ if provided.

☐ 1 Row
☐ 2 Row
☐ Right Hand
☐ Left Hand

Hot Water Coil Option Table

Unit Size	A	B	C
1	20 5/8"	9 1/2"	7 11/16"
2	20 5/8"	9 1/2"	7 11/16"
3	21 1/4"	9 1/2"	10 1/2"
4	N/A	N/A	N/A
5	22"	8"	16"



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ECM Motor Ratings

Unit Size	Motor HP	277/1/60	240/1/60	208/1/60	120/1/60
1	1/3	2.6	2.8	3.3	5.0
2	1/3	2.6	2.8	3.3	5.0
3	1/2	4.1	4.3	5.0	7.7
4	2 @ 1/3	5.2	5.6	6.6	10.0
5	3/4	5.5	6.8	7.9	9.6

All fan motors are single phase, same voltage as electric coil (when supplied), with exception that 277 V motors are used with 480V, 3 phase coils (4 wire wye).

Motor amp ratings for size 4 unit are for two motors.

Optional Accessories

Unit Accessories

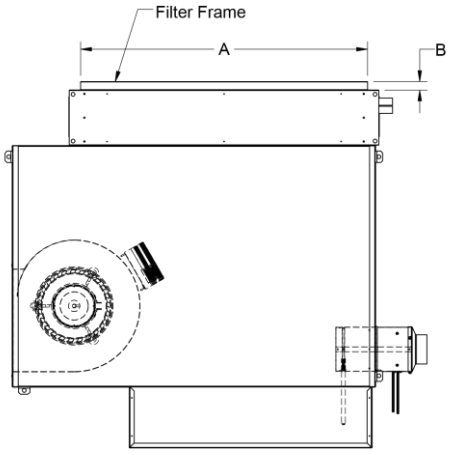
Check ☑ if provided.

- ☐ 1" Pleated Filter – MERV 8
- ☐ 2" Pleated Filter – MERV 13
- ☐ Induced Air Filter Option – Ducted
- ☐ Hanger Brackets
- ☐ Motor Fuses
- ☐ Slip & Drive Discharge Connections
- ☐ Camlock Access Panels
- ☐ Metal Control Enclosure

Filter Option Tables

UNIT SIZE	A
1, 2, 3, & 4	38
5	44

Filter Type	B
MERV 8	1 1/8"
MERV 13	2 1/8"



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