

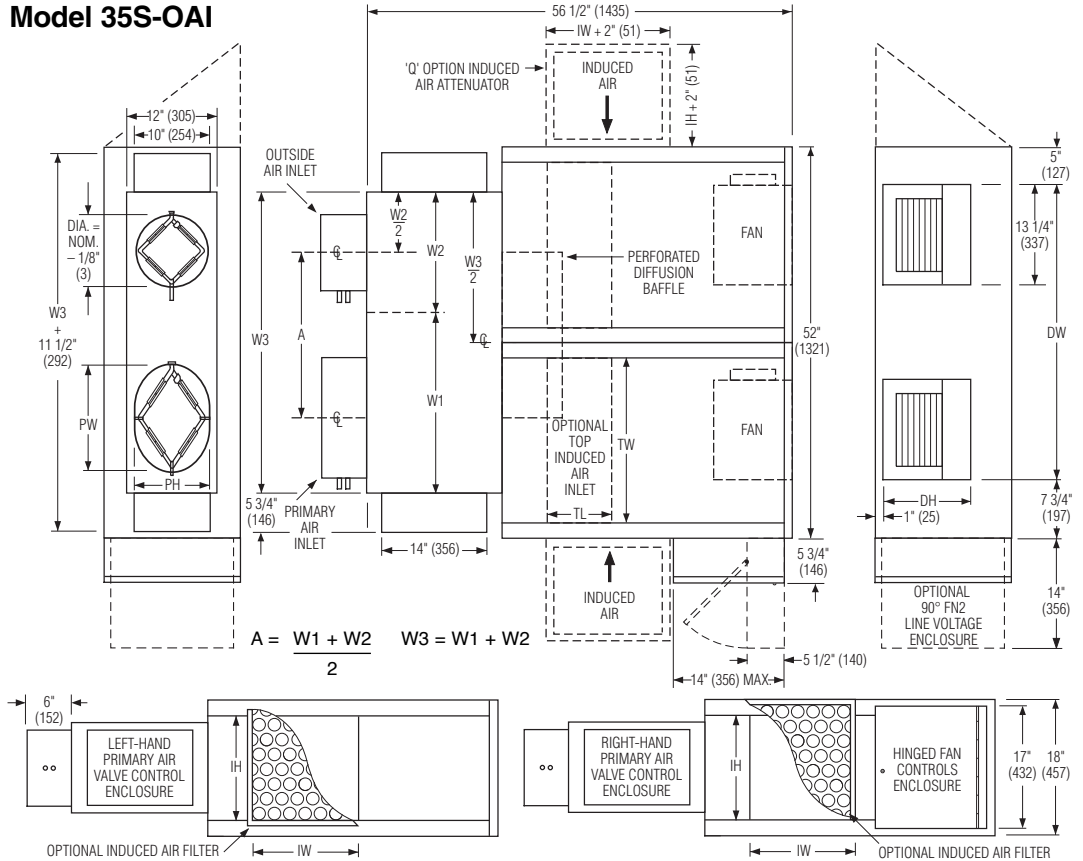


**FAN POWERED TERMINAL UNIT WITH OUTSIDE AIR INLET  
ECM MOTOR  
SERIES FLOW • CONSTANT VOLUME  
MODELS: 35S-OAI, 35SW-OAI AND 35SE-OAI  
UNIT SIZE 7**

**DESCRIPTION:**

- 16 ga. (1.6) galvanized steel channel frame with 20 ga. (1.0) casing components.
- 16 ga. (1.6) galvanized steel inclined opposed blade dampers. 45° rotation. RH CW to close. LH CCW to close.
- Separate outside ventilation air inlet.
- Multi-point averaging Diamond flow sensors.
- Universal access panels on all 4 sides.
- Ultra-high efficiency ECM fan motor. EPIC fan volume controller.
- 3/4" (19) dual density insulation, coated to prevent air erosion, meets requirements of NFPA 90A and UL 181.
- Single point electrical and/or pneumatic main air connection.
- Discharge opening for flanged duct connection.
- Full enclosure for factory mounted DDC and analog electronic controls.
- Choice of right or left-hand primary inlet location. Hand of unit is determined by location of primary inlet looking in direction of airflow. Right-hand illustrated.

**Model 35S-OAI**



**Dimensional Data**

Unit Size	Primary Inlet Size	Outside Inlet Size	Induced Air Inlet		Outlet Discharge DW x DH	Filter Size	
			Side (std.) IW x IH	Top (opt.) TL x TW		Side Inlet (std.)	Top Inlet (opt.)
7	12*, 14*, 16* (203*, 254*, 305*)	6, 7, 8, 10 (152, 178, 203, 254)	14 x 14 (356 x 356) Qty. of 2	8 1/2 x 20 (216 x 508) Qty. of 2	39 1/4 x 11 1/2 (997 x 292)	14 x 16 (356 x 406) Qty. of 2	16 x 25 (406 x 635) Qty. of 2

**OPTIONS:**

- FN2 90° Line Voltage Enclosure
- FN3 Remote Line Voltage Controls Enclosure (See submittal FN3)
- 'Q' Option – Induced Air Inlet Attenuator (not available w/FN2 option).
- Filter frame and 1" (25) disposable filter.

**Primary/Inlet Dimensions**

Size	W1 or W2
12*	18 (457)
14*	24 (610)
16*	28 (711)

- Toggle disconnect switch.
- Steri-liner.
- Fiber-free liner.
- Solid metal liner.
- Perforated metal liner.

**Oval Inlet Dimensions**

Size	PW x PH
12*	12 13/16 x 9 13/16 (329 x 249)
14*	16 1/16 x 9 13/16 (408 x 249)
16*	16 3/16 x 9 13/16 (487 x 249)

\* Flat oval inlets

- Fan unit fusing.
- Hanger brackets.
- Top induced air inlet.
- Special features

**Electrical Data**

Unit Size	Motor H.P.	ECM FLA			
		120/1/60	208/1/60	240/1/60	277/1/60
7	*	19.2	12.2	11.6	10.0

\* The ECM is a variable horsepower motor. Refer to Selectworks Schedule. FLA = Full load amperage



**SCHEDULE TYPE**

**PROJECT**

**ENGINEER**

**CONTRACTOR**

For heat options, see page 2. Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
10 - 21 - 11	3500	NEW	35S-OAI-4



**FAN POWERED TERMINAL UNIT WITH OUTSIDE AIR INLET  
ECM MOTOR  
SERIES FLOW • CONSTANT VOLUME  
HEAT ACCESSORIES  
MODELS: 35SW-OAI AND 35SE-OAI • UNIT SIZE 7**

**Hot Water Coil Section Model 35SW-OAI**

**Standard Features:**

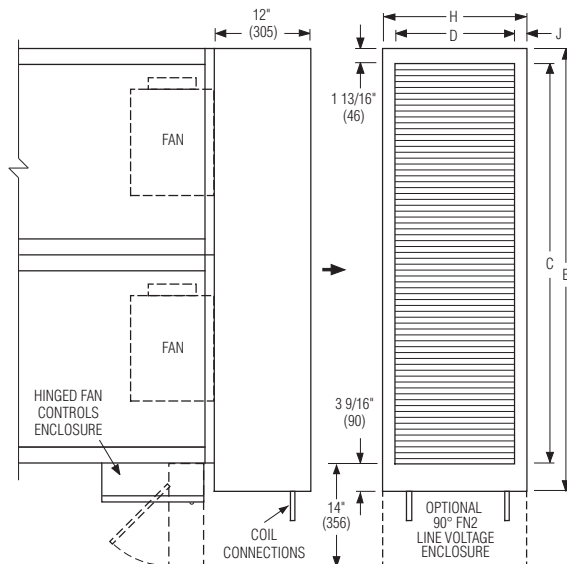
- Coil section installed on unit discharge.
- Coil (and header on multi-circuit units) is installed in insulated casing for increased thermal efficiency.
- 1/2" (13) copper tubes.
- Aluminum ripple fins.
- Sweat Connections: One and two row, 7/8" (22) O.D. male solder. Three row 1 3/8" (35) O.D. male solder.
- Top and bottom access panels for inspection and coil cleaning.
- Flanged outlet duct connection.

**Coil Rows:**

- 1-Row     2-Row     3-Row

**Coil Hand Connections:**

- (Looking in direction of airflow).
- Right hand (illustrated). Standard.
  - Left hand. Optional.



Unit Size	Outlet Duct Size C x D	E	H	J
7	50 x 14 1/4 (1270 x 378)	55 5/8 (1407)	18 (457)	1 1/16 (40)

**Electric Coil Section Model 35SE-OAI**

**Standard Features:**

- Unique hinged heater design permits easy access, removal and replacement of heater element without disturbing ductwork.
- Coil installed on unit discharge.
- Insulated coil element wrapper.
- Automatic reset high limit cut-outs (one per element).
- Single point electrical connection (except 600V).
- Positive pressure airflow switch.
- Flanged outlet duct connection.
- Terminal unit with coil is ETL Listed as an assembly.
- Controls mounted as standard on RH side as shown. Terminals ordered with LH controls (optional) are inverted and discharge duct hanging elevation will therefore change.

**Voltage:**

Single phase, 60 Hz.

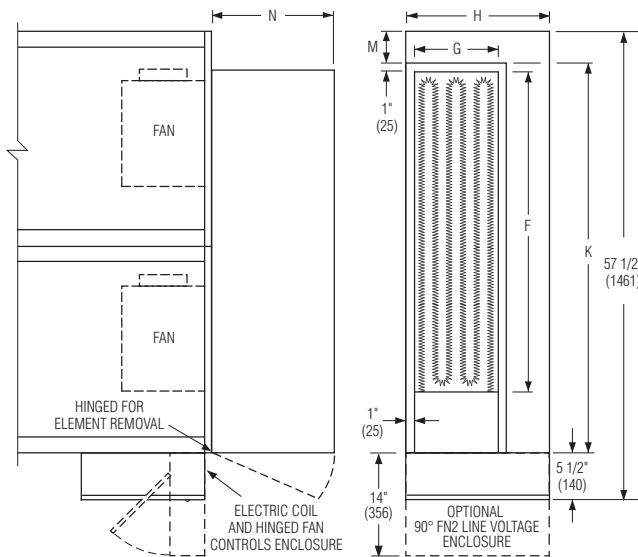
- 120V     208V     240V     277V

Three phase, 60 Hz.

- 208V     480V (4 wire wye).  
 600V (Dual point connection)     \_\_\_\_\_

**Options:**

- Toggle disconnect switch (includes fan).
- Door interlock disconnect switch.
- SCR Control.
- Mercury contactors.
- Power circuit fusing.
- Class 'A' 80/20 Ni./Ch. wire.
- Dust tight construction.
- Manual reset secondary thermal cut out.



Unit Size	Outlet Duct Size F x G	K	H	M	N
7	40 1/4 x 11 3/4 (1022 x 298)	48 (1219)	18 (457)	4 (102)	15 1/4 (387)

<b>SCHEDULE TYPE</b>
<b>PROJECT</b>
<b>ENGINEER</b>
<b>CONTRACTOR</b>

Page 2 of 2.  
Dimensions are in inches (mm).

<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
10 - 3 - 11	3500	NEW	35S-OAI-4