



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

DESCRIPTION:

- 18 ga. (1.31) galvanized steel channel frame with 20 ga. (1.00) casing components.
- 16 ga. (1.61) galvanized steel inclined opposed blade dampers. 45° rotation. RH CW to close. LH CCW to close.
- Separate outside ventilation air inlet.
- Ultra-high efficiency ECM fan motor. EPIC fan volume controller.
- Multi-point averaging Diamond Flow sensor. Supplied with balancing tees.
- Universal access panels on all 4 sides.
- 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.

OPTIONS:

Digital Controls:

- Factory mounted (supplied by others)
- Field mounted (supplied by others)

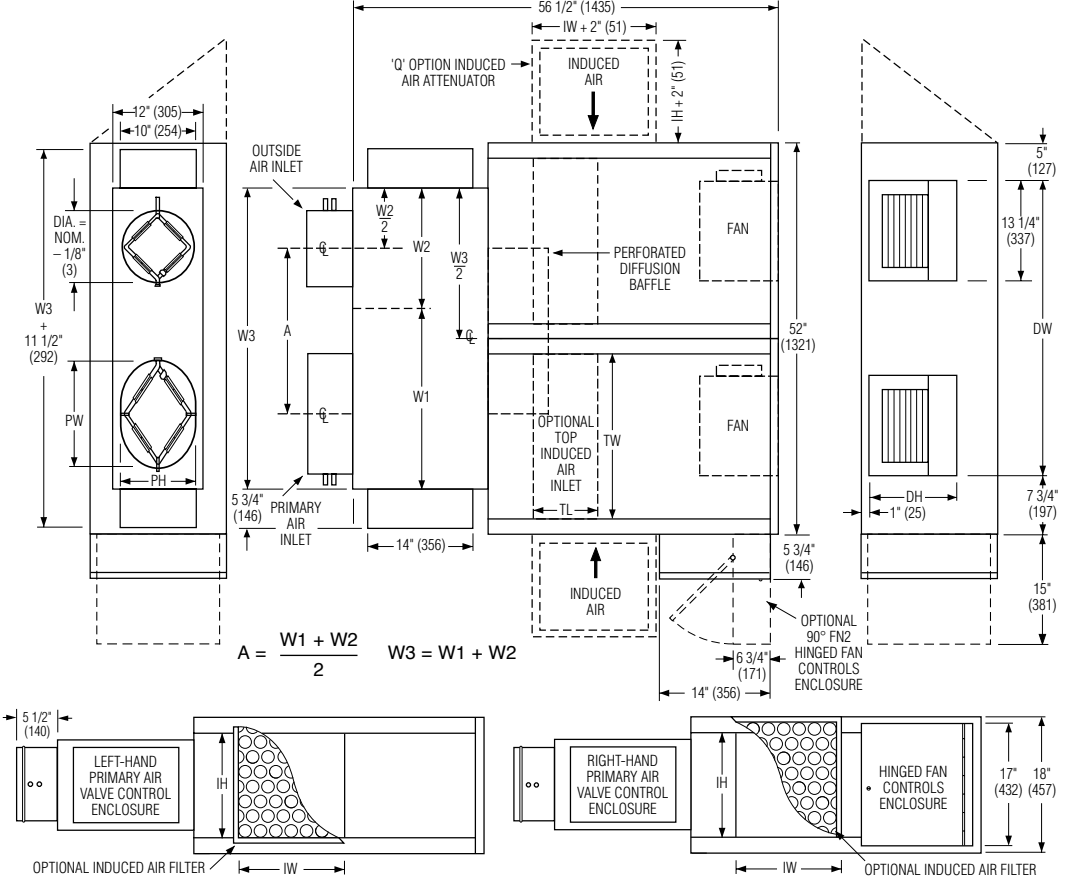
Liner:

- Steri-liner
- Steri-liner + Perforated metal
- Fiber-free
- Perforated metal
- Solid metal
- 1" (25) fiberglass

Other:

- Left-hand controls location
- Left-hand primary inlet location
- Toggle disconnect switch
- Fan unit fusing
- 24/24V Isolation transformer
- Cross Flow Sensor (not on primary inlet)
- 'Q' Option – Induced Air Inlet Attenuator. (not available w/FN2 option).
- Top entry induced air inlet
- 1" (25) Throwaway filter
- 2" (51) MERV 8 filter
- Hanger brackets.
- 1/4-turn fasteners (access panel)

Model 35S-OAI • Basic Unit



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)	12 x 14 (305 x 356)	8 1/2 x 22 (216 x 559)	39 1/4 x 11 1/2 (997 x 292)	14 x 16 (356 x 406)	10 x 25 (254 x 635)

**Flat oval inlets

Primary/Inlet Dimensions

Size	W1 or W2
6	12 (305)
7, 8	14 (356)
10	16 (406)
12**	19 (483)
14**	20 (508)
16**	24 (610)

Electrical Data

Unit Size	EPIC ECM Motor FLA			
	Motor HP	120V	208V	240V 277V
7	*	15.9	10.5	9.9 10.0

* The ECM is a variable horsepower motor. Refer to Selectworks schedule for actual power consumption. FLA = Full load amperage. All motors are single phase/60 Hz.

Oval Inlet Dimensions

Size	PW x PH
12**	12 13/16 x 9 13/16 (325 x 249)
14**	16 1/16 x 9 13/16 (408 x 249)
16**	19 3/16 x 9 13/16 (487 x 249)

- FN2 90° Line Voltage Enclosure
- FN3 Remote Line Voltage Controls Enclosure (See submittal FN3)
- Dust tight enclosure seal
- Remote user disconnect

Seismic Certification:

- Seismic Source International (Standard)
- HCAI (formerly OSHPD, California)
- Special Features: _____



SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Page 1 of 2. For heat options; see page 2. Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
2 - 6 - 23	3500	11 - 15 - 22	35S-OAI-2



**FAN POWERED TERMINAL UNIT WITH
OUTSIDE AIR INLET • EPIC ECM MOTOR
HEAT ACCESSORIES**
SERIES FLOW • CONSTANT OR VARIABLE VOLUME
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: 1 and 2 row, 7/8" (22) O. D. male solder. 3 row 1 3/8" (35) O.D. male solder.
- Top and bottom access panels for inspection and coil cleaning.
- Flanged outlet duct connection.

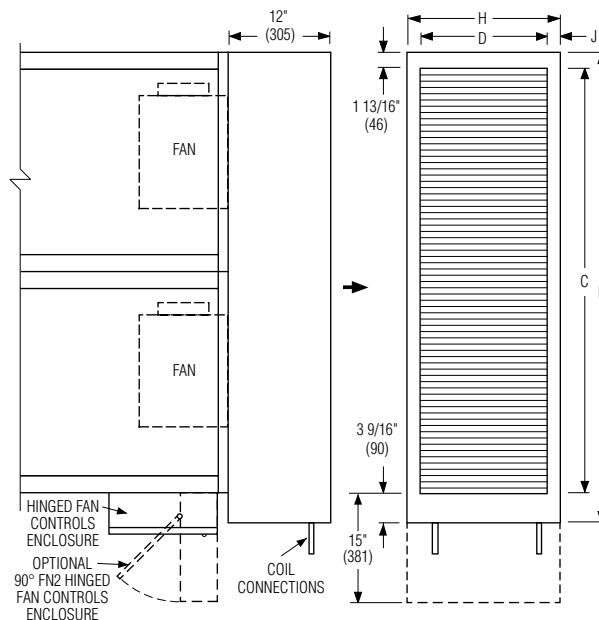
Coil Rows:

- 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 7/8 (1270 x 378)	55 3/8 (1407)	18 (457)	1 9/16 (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.
- Class A 80/20 Ni/Cr wire.
- 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

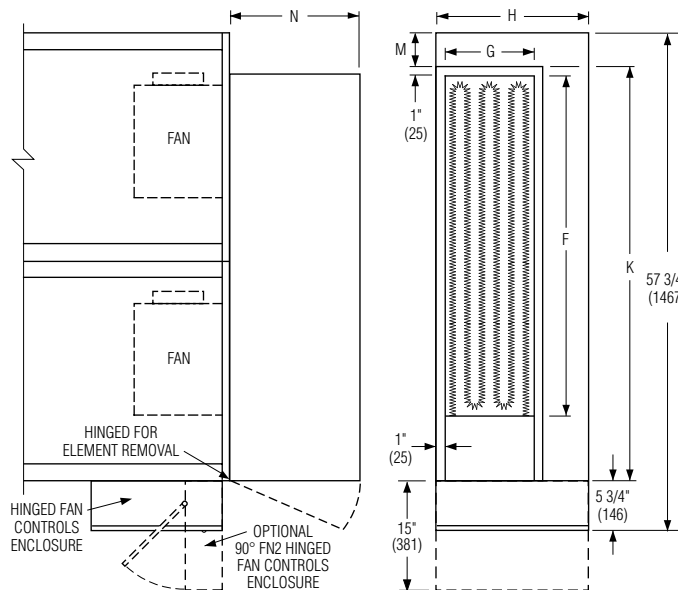
Three phase, 60 Hz.

- 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.
- 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)

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	2 - 6 - 23	3500	11 - 15 - 22	35S-OAI-2