



**FAN POWERED CHILLED WATER TERMINAL UNIT**  
**SENSIBLE COOLING (DOAS) • CONSTANT OR VARIABLE VOLUME**  
**MODELS: 33SZ, 33SZE AND 33SZW**  
**UNIT SIZES: 40, 50 AND 55**  
**WITH 90° LINE VOLTAGE ENCLOSURE (FN2 OPTION)**

**DESCRIPTION:**

- Sensible cooling coil on the induced air inlet handles zone sensible load. Opposite side to controls location. Aluminum ripple fins (10 FPI) and 1/2" (13) copper tubes. Hand of coil connection is determined looking in direction of airflow (RH shown).
- 18 ga. (1.31) galvanized steel channel frame with 20 ga. (1.00) casing components.
- 16 ga. (1.61) galvanized steel inclined opposed blade damper. 45° rotation. CW to close.
- Ultra-high efficiency ECM, fan motor. EPIC fan volume controller.
- 3/4" (19) dual density fiberglass installation, exposed edge coated to prevent air erosion. Meets requirements of NFPA 90A and UL 181.
- Access panels top and bottom.
- Multi-point averaging diamond flow sensor.
- Discharge opening for flanged duct connection.
- Single point electrical connection.
- Low voltage NEMA 1 type enclosure for factory mounted DDC controls.
- FN2 line voltage enclosure incorporates a hinged access door opening upstream that helps ensure NEC clearance requirements and reduces footprint.
- 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.
- Galvanized steel drip pan integral to sensible coil.
- Filter Frame and 1" (25) disposable filter.

**OPTIONS:**

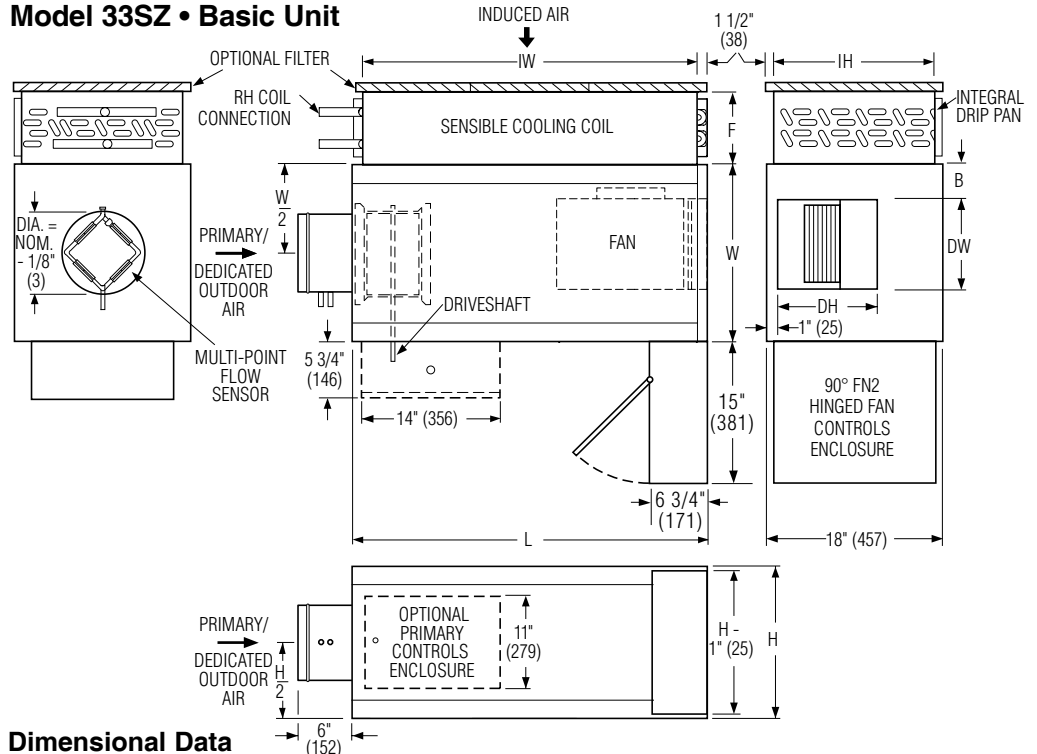
**CW Coil:**

- 2-Row  4-Row
- 6-Row  8-Row
- Left Hand coil connections.
- Condensate sensor.

**Liner:**

- Fiber-free liner.
- Perforated metal liner.
- Solid metal liner.
- Steri-liner.
- Steri-liner w/perforated liner.

**Model 33SZ • Basic Unit**



**Dimensional Data**

Unit Size	Inlet Size	W	H	L	B	Cooling Coil IW x IH	F	Outlet Discharge DW x DH	Filter Size
40	4, 5, 6, 8, 10 (102, 127, 152, 203, 254)	18 (457)	18 (457)	36 (914)	3 1/2 (89)	31 x 15 (787 x 381)	2 Row: 5 1/8 (130)	9 1/8 x 10 1/4 (232 x 260)	33 x 16 (838 x 406)
							4 Row: 7 5/16 (186)		
50	5, 6, 8, 10, 12 (127, 152, 203, 254, 305)	26 (660)	18 (457)	41 (1041)	5 (127)	36 x 15 (914 x 381)	6 Row: 9 1/2 (241)	13 1/8 x 11 1/4 (333 x 286)	38 x 16 (965 x 406)
							8 Row: 11 1/2 (292)		
55	6, 8, 10, 12 (152, 203, 254, 305)	26 (660)	18 (457)	55 (1397)	5 (127)	50 x 15 (1270 x 381)	6 Row: 9 1/2 (241)	13 1/8 x 11 1/4 (333 x 286)	52 x 16 (1321 x 406)
							8 Row: 11 1/2 (292)		

**Electrical Data**

Unit Size	EPIC ECM Motor FLA				
	Motor HP	120V	208V	240V	277V
40	*	6.5	4.3	4.2	4.2
50	*	9.5	6.4	6.2	6.0
55	*	9.5	6.4	6.2	6.0

**CW Coil O.D. Sweat Connections**

Unit Size	No. of Row	
	2, 4, & 6	8
40		
50	7/8" (22)	-
55		7/8" (22)



**Intertek**

\* The EPIC 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.

**Filter:**

- 1" (25) Throwaway.
- 2" (51) Pleated MERV 8.
- 2" (51) Pleated MERV 13.
- Ducted Return Filter Rack (See submittal 33SZ-FR).

**Electrical:**

- LH Controls enclosure
- Toggle disconnect switch.
- FN3 - Remote line voltage enclosure.
- Motor fusing.

**Others:**

- Hanger brackets.
- Induced Air Silencer (See submittal 33SZ-DSI).

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

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

DATE

B SERIES

SUPERSEDES

DRAWING NO.

1 - 29 - 20

3300

7 - 11 - 17

33SZ-4



**FAN POWERED CHILLED WATER TERMINAL UNIT**  
**SENSIBLE COOLING (DOAS) • CONSTANT OR VARIABLE VOLUME**  
**MODELS: 33SZ AND 33SZW**  
**UNIT SIZES: 40, 50 AND 55**  
**WITH 90° LINE VOLTAGE ENCLOSURE (FN2 OPTION)**

**Hot Water Coil Section**  
**Model 33SZW**

**Standard Features:**

- Coil section installed on unit discharge.
- 1/2" (13) copper tubes.
- Aluminum ripple fins @ 10 FPI.
- Sweat Connections:  
 Size 40 one row: 1/2" (13) O.D. male solder. All others: 7/8" (22) O.D. male solder.
- Flanged outlet duct connection.

**Coil Rows:**

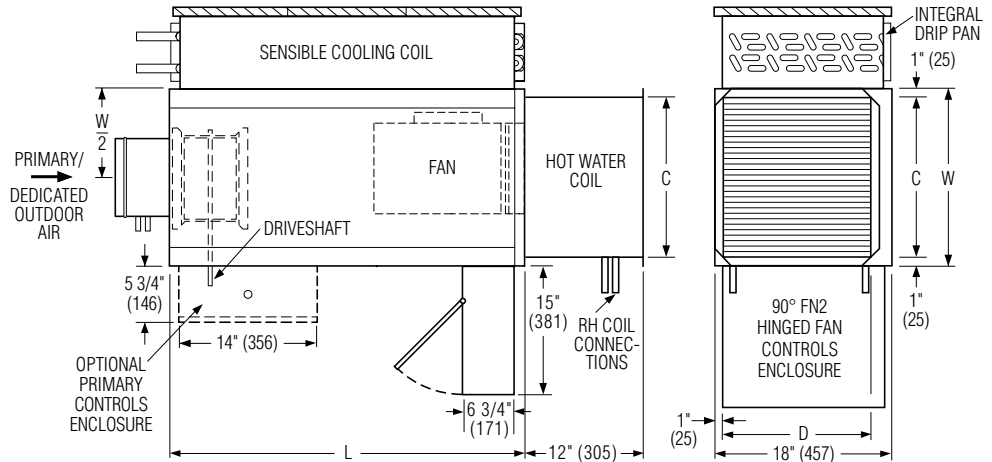
- 1-Row     2-Row

**Coil Hand Connections:**

(Looking in direction of airflow).

- Right Hand (illustrated). Standard.  
 Left Hand. Optional.

Heating coil, sensible coil and controls enclosure orientation must all be specified separately.



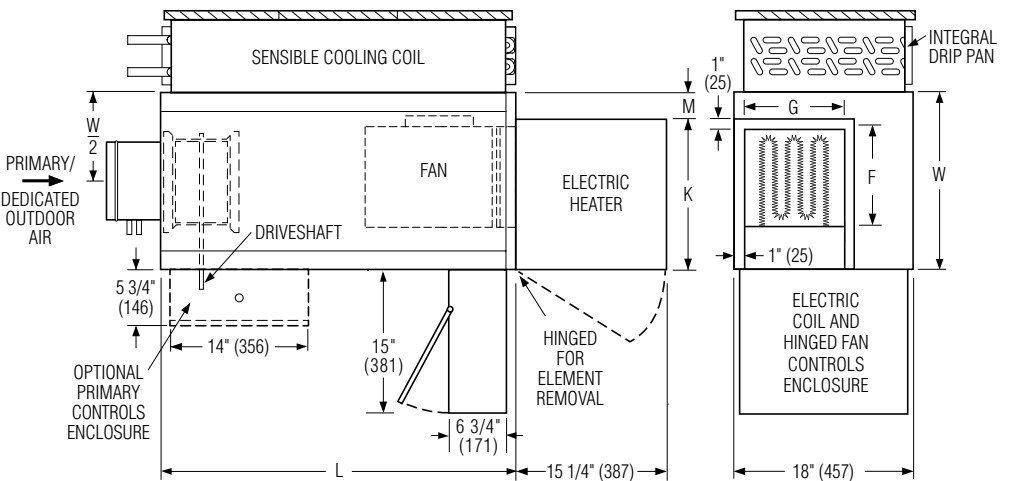
**Dimensional Data**

Unit Size	W	L	Outlet Duct Size C x D
40	18 (457)	36 (914)	16 x 15 (406 x 381)
50	26 (660)	41 (1041)	24 x 15 (610 x 381)
55	26 (660)	55 (1397)	24 x 15 (610 x 381)

**Electric Coil Section**  
**Model 33SZE**

**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 for entire terminal unit.
- Magnetic contactors per stage.
- Class A 80/20 Ni/Cr wire.
- Electronic Fan Interlock Relay.
- Flanged outlet duct connection.
- Terminal unit with coil is ETL listed as on assembly.
- Controls mounted as standard on RH side as shown. Terminals ordered with L.H. controls (optional) are inverted and discharge duct hanging elevation will change.



**Dimensional Data**

Unit Size	W	L	K	M	Outlet Duct Size F x G
40	18 (457)	36 (914)	15 1/2 (394)	2 1/2 (64)	10 1/4 x 10 1/2 (260 x 267)
50	26 (660)	41 (1041)	22 (559)	4 (102)	14 1/4 x 11 3/4 (362 x 298)
55	26 (660)	55 (1397)	22 (559)	4 (102)	14 1/4 x 11 3/4 (362 x 298)

**Voltage:**

- Single phase, 60 Hz.  
 120V     208V     240V     277V  
 Three phase, 60 Hz.  
 208V     480V (4 wire wye)  
 600V (dual point connection).  
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**Electric Coil Options:**

- SCR control.
- SCR control with discharge temperature control.
- Toggle disconnect (includes fan).
- Door interlock disconnect switch.
- Quiet contactors.
- Main line fusing.
- Dust tight construction.
- Manual Reset secondary thermal cut out.
- Positive Pressure airflow switch.

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

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

DATE	B SERIES	SUPERSEDES	DRAWING NO.
1 - 29 - 20	3300	7 - 11 - 17	33SZ-4