



**FAN POWERED CHILLED WATER TERMINAL UNIT**  
**SENSIBLE COOLING (DOAS) • CONSTANT OR**  
**VARIABLE VOLUME**  
**MODELS: 33SZ, 33SE AND 33SZW**  
**UNIT SIZES: 40, 50 AND 55**

**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. (1.0) 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.
- 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.

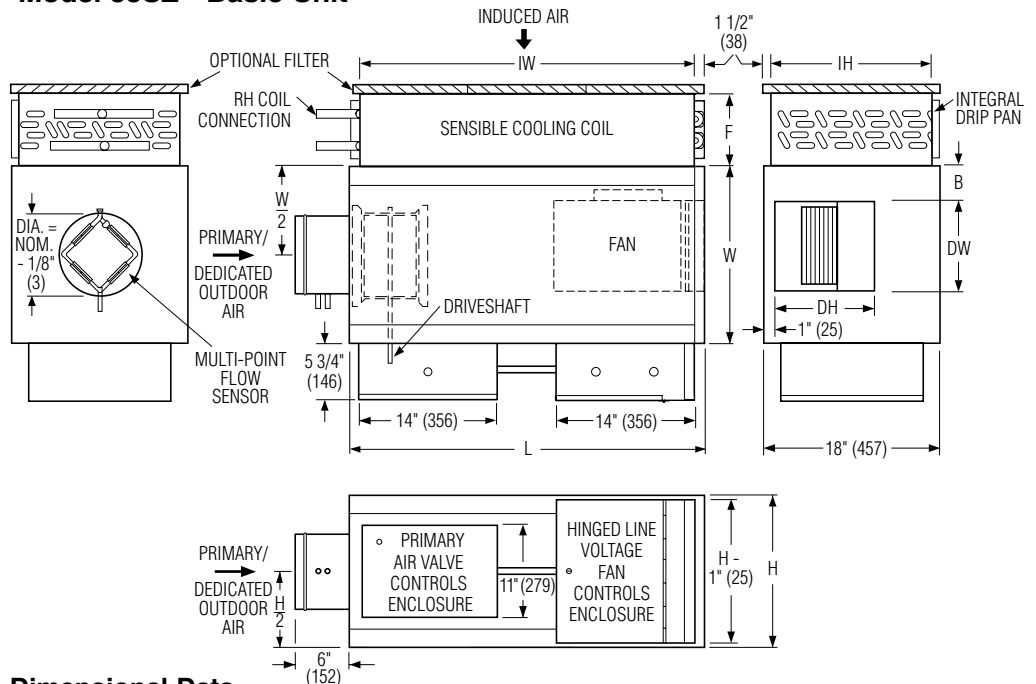
**Liner:**

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

**Filter:**

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

**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)
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

\* 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.

**Electrical:**

- LH Controls enclosure
- Toggle disconnect switch.
- FN2 – 90° line voltage enclosure.
- FN3 – Remote line voltage enclosure.
- Motor fusing.

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

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

**Others:**

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



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

<b>SCHEDULE TYPE:</b>				
<b>PROJECT:</b>				
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
<b>CONTRACTOR:</b>	8 - 4 - 20	3300	1 - 29 - 20	33SZ-2



**FAN POWERED CHILLED WATER TERMINAL UNIT**  
**SENSIBLE COOLING (DOAS) • CONSTANT OR**  
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**MODELS: 33SZE AND 33SZW**  
**UNIT SIZES: 40, 50 AND 55**

**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:**

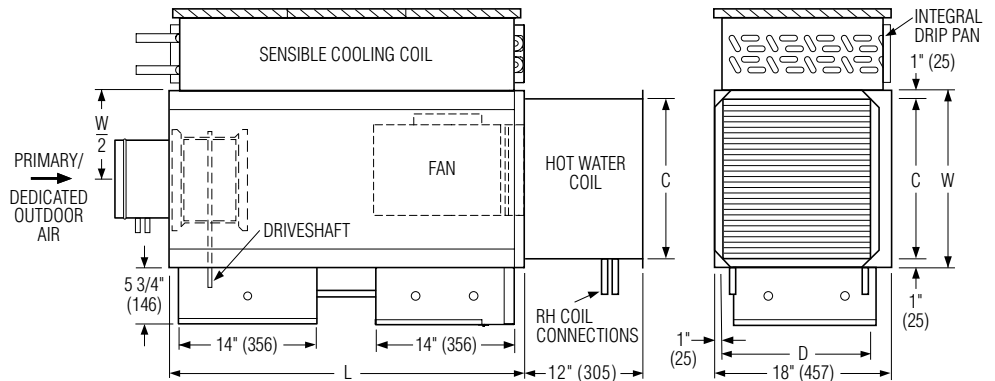
- 1-Row    2-Row

**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.



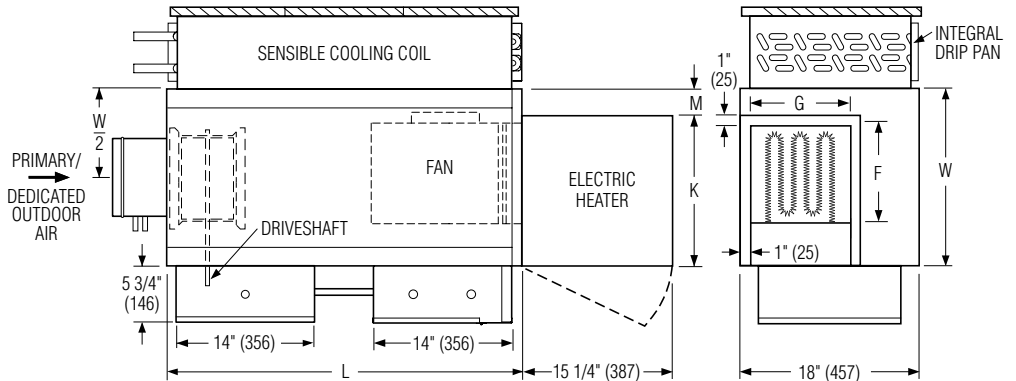
**Dimensional Data**

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.

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Page 2 of 3.  
 Dimensions are in inches (mm).

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8 - 4 - 20

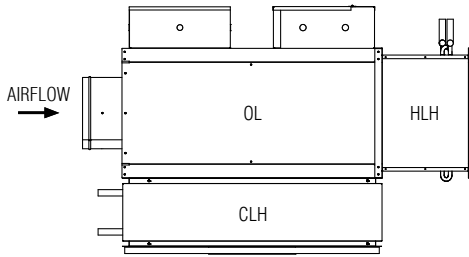
3300

1 - 29 - 20

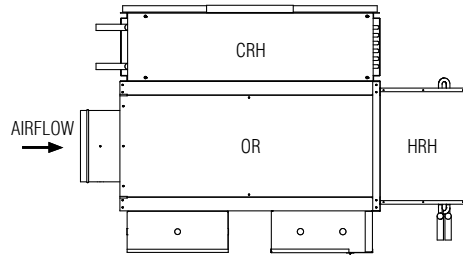
33SZ-2



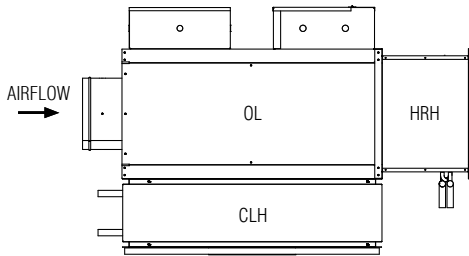
**FAN POWERED CHILLED WATER TERMINAL UNITS  
ORIENTATIONS  
MODELS: 33SZE AND 33SZW  
UNIT SIZES: 40, 50 AND 55**



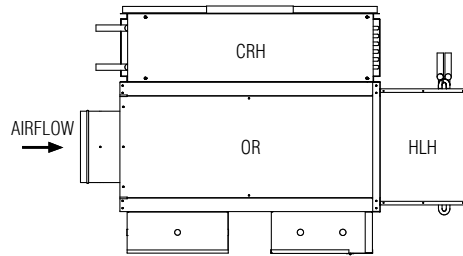
LEFT HAND CONTROLS  
LEFT HAND COOLING COIL CONNECTIONS  
LEFT HAND HEATING COIL CONNECTIONS



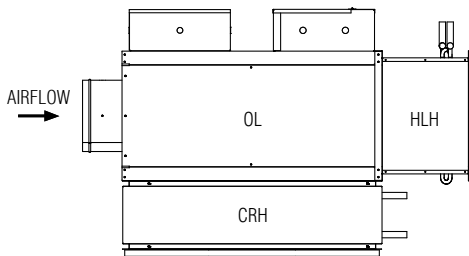
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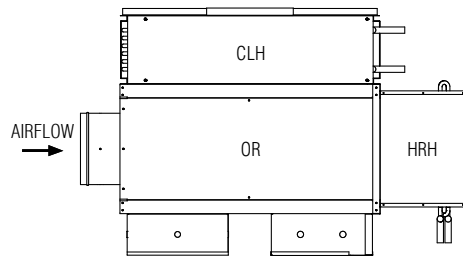
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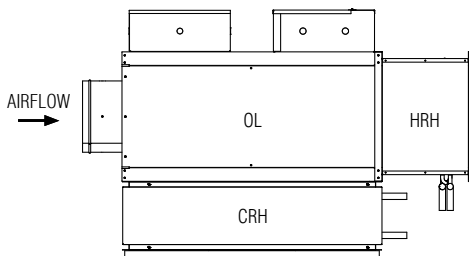
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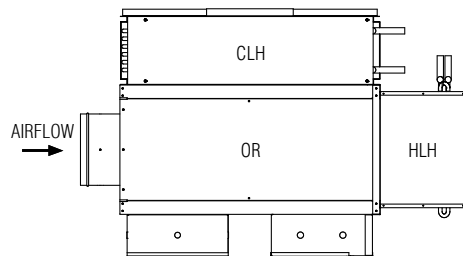
LEFT HAND CONTROLS  
RIGHT HAND COOLING COIL CONNECTIONS  
LEFT HAND HEATING COIL CONNECTIONS



RIGHT HAND CONTROLS  
LEFT HAND COOLING COIL CONNECTIONS  
RIGHT HAND HEATING COIL CONNECTIONS



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Page 3 of 3.

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