



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. Supplied with balancing tees.
- 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
- Condensate Sensor

Coil Connections:

- Right Hand (Default)
- Left Hand

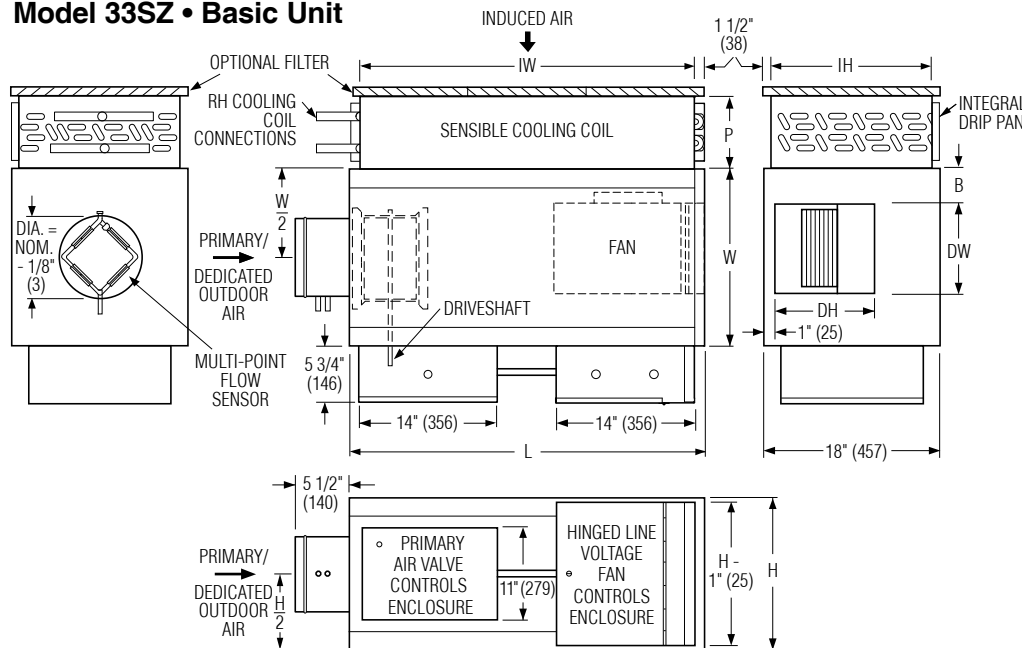
Liner:

- Fiber-free
- Steri-liner
- Steri-liner + Perforated metal
- Perforated metal
- Solid metal

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	P	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	4, 5, 6, 8, 10, 12 (102, 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	4, 5, 6, 8, 10, 12 (102, 127, 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	*	10.5	6.8	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
- FN3 - Remote line voltage enclosure
- Motor fusing

Other:

- Cross Flow Sensor
- Hanger brackets
- 1/4-turn fasteners (access panel).
- Dust tight enclosure seal
- Induced Air Silencer (See submittal 33SZ-DSI)
- Induced Air Silencer Elbow (See submittal 33SZ-DSIE)

CW Coil O.D. Sweat Connections

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



Intertek

Seismic Certification:

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

Page 1 of 3.

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

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:		DATE	B SERIES	SUPERSEDES
CONTRACTOR:		2 - 6 - 23	3300	6 - 6 - 22
				DRAWING NO.
				33SZ-2

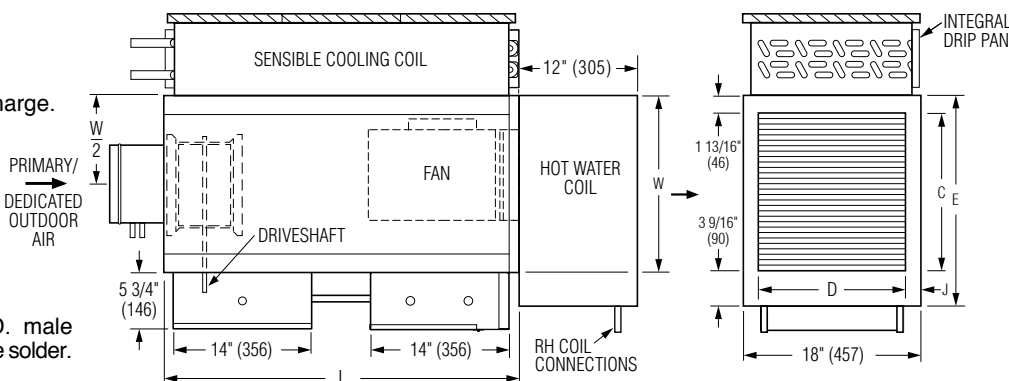


FAN POWERED CHILLED WATER TERMINAL UNIT
SENSIBLE COOLING (DOAS)
CONSTANT OR VARIABLE VOLUME
MODELS: 33SZ AND 33SZW
UNIT SIZES: 40, 50 AND 55

Hot Water Coil Section
Model 33SZW

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 @ 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.

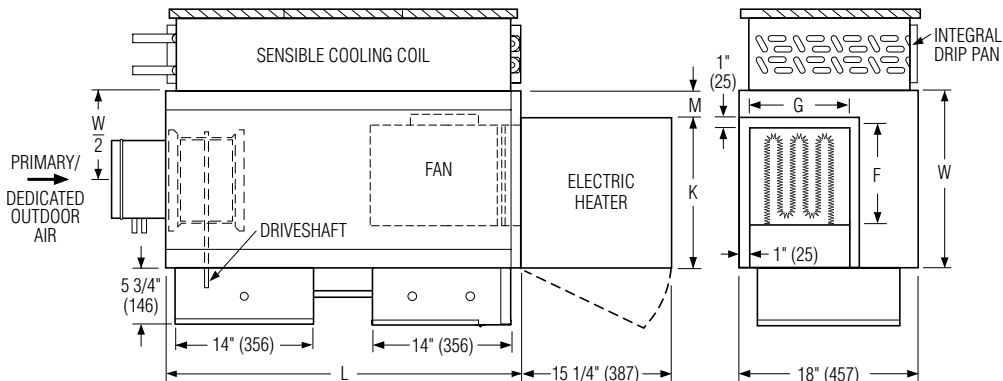
Dimensional Data

Unit Size	W	L	Outlet Duct Size C x D	J	E
40	18 (457)	36 (914)	16 x 14 7/8 (406 x 378)	1 1/2 (38)	21 3/8 (543)
50	26 (660)	41 (1041)	24 x 14 7/8 (610 x 378)	1 1/2 (38)	29 3/8 (746)
55	26 (660)	55 (1397)	24 x 14 7/8 (610 x 378)	1 1/2 (38)	29 3/8 (746)

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)

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:

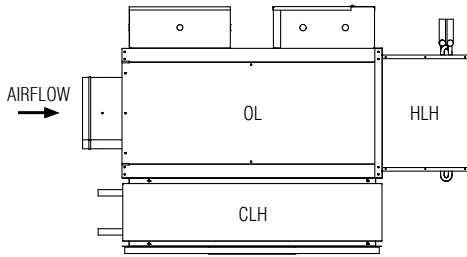
CONTRACTOR:

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

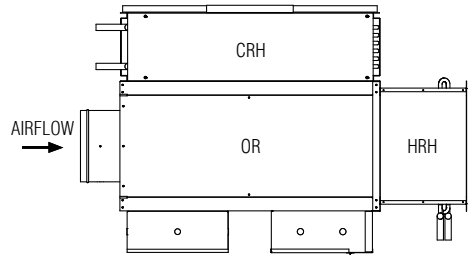
DATE	B SERIES	SUPERSEDES	DRAWING NO.
2 - 6 - 23	3300	6 - 6 - 22	33SZ-2



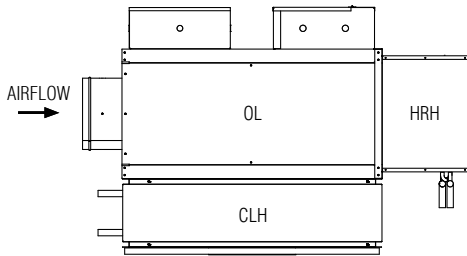
**FAN POWERED CHILLED WATER TERMINAL UNITS
ORIENTATIONS
MODELS: 33SZE AND 33SZW
UNIT SIZES: 40, 50 AND 55**



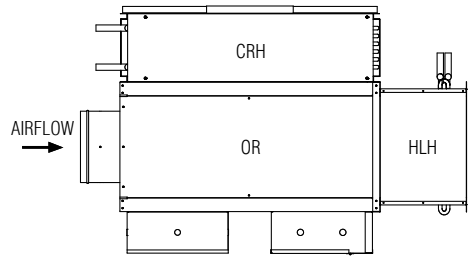
OL LEFT HAND CONTROLS
CLH LEFT HAND COOLING COIL CONNECTIONS
HLH LEFT HAND HEATING COIL CONNECTIONS



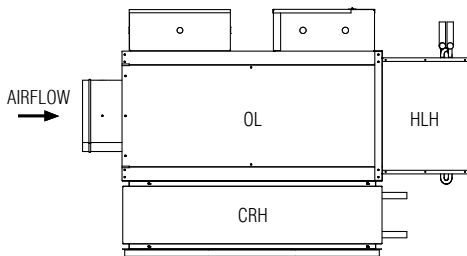
OR RIGHT HAND CONTROLS
CRH RIGHT HAND COOLING COIL CONNECTIONS
HRH RIGHT HAND HEATING COIL CONNECTIONS



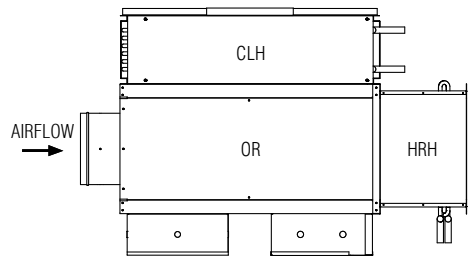
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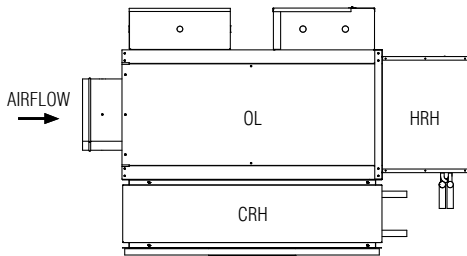
OR RIGHT HAND CONTROLS
CRH RIGHT HAND COOLING COIL CONNECTIONS
HLH LEFT HAND HEATING COIL CONNECTIONS



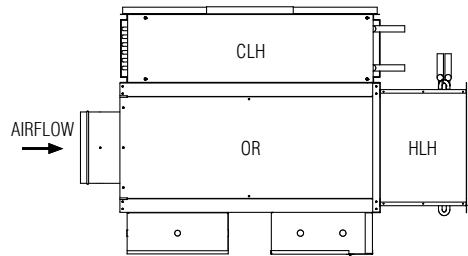
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CRH RIGHT HAND COOLING COIL CONNECTIONS
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CLH LEFT HAND COOLING COIL CONNECTIONS
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OR RIGHT HAND CONTROLS
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HLH LEFT HAND HEATING COIL CONNECTIONS

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Page 3 of 3.

Dimensions are in inches (mm)

DATE

B SERIES

SUPERSEDES

DRAWING NO.

2 - 6 - 23

3300

6 - 6 - 22

33SZ-2