



FAN POWERED CHILLED WATER TERMINAL UNIT

SENSIBLE COOLING (DOAS)

CONSTANT OR VARIABLE VOLUME

MODELS: 33SZ, 33SZE AND 33SZW

UNIT SIZES: 10 AND 30 (LOW PROFILE)

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).
- 20 ga. (1.00) galvanized steel construction.
- 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.
- 1/2" (13) 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 designed 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. Unit size 30 ordered with LH controls (optional) is inverted and discharge duct hanging elevation will therefore change.
- Galvanized steel drip pan integral to sensible coil.

OPTIONS:

CW Coil:

- ☐ 2-Row ☐ 4-Row
- ☐ 6-Row ☐ 8-Row
- ☐ Condensate Sensor

Coil Connections:

- ☐ Right Hand (Default)
- ☐ Left Hand

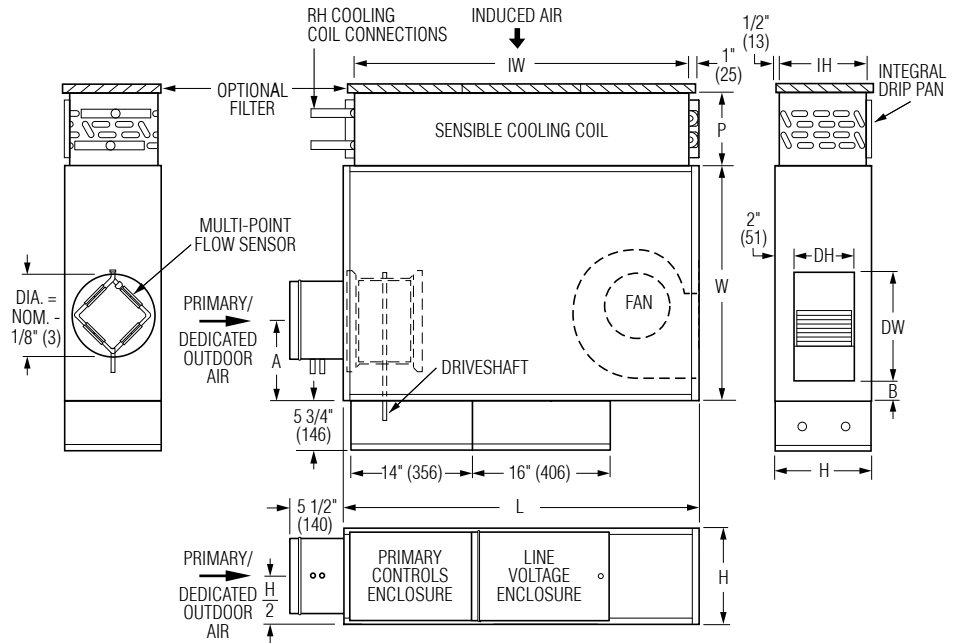
Liner:

- ☐ 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	A	B	Cooling Coil IW x IH	P	Outlet Discharge DW x DH	Filter Size
10	4, 5, 6 (102, 127, 152)	26 1/2 (673)	8 1/2 (216)	47 1/4 (1200)	5 1/8 (130)	2 (51)	43 x 7 1/2 (1092 x 191)	2 Row: 5 1/8 (130) 4 Row: 7 5/16 (186) 6 Row: 9 1/2 (241) 8 Row: 11 11/16 (297)	7 1/8 x 4 3/4 (181 x 121)	45 x 8 1/2 (1143 x 216)
30	4, 5, 6, 8 (102, 127, 152, 203)	26 1/2 (673)	11 (279)	40 1/4 (1022)	8 (203)	2 (51)	36 x 8 3/4 (914 x 222)		12 3/8 x 6 7/8 (314 x 175)	38 x 10 (965 x 254)

Electrical Data

Unit Size	EPIC ECM Motor FLA	120V	208V	240V	277V
10	*	2.2	1.6	1.5	1.5
30	*	7.5	5.0	5.0	4.9

* 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)
- ☐ 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
10, 30	2, 4, 6 & 8
	7/8" (22)



Seismic Certification (Size 30):

- ☐ 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:

CONTRACTOR:

DATE

2 - 6 - 23

B SERIES

3300

SUPERSEDES

7 - 20 - 21

DRAWING NO.

33SZ-1



FAN POWERED CHILLED WATER TERMINAL UNIT
SENSIBLE COOLING (DOAS)
CONSTANT OR VARIABLE VOLUME
MODELS: 33SZ AND 33SZW
UNIT SIZES: 10 AND 30 (LOW PROFILE)

☐ **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: One row: 1/2" (13) O.D. male solder. Two row: 5/8" (16) O.D. male solder.
- Flanged outlet duct connection.

Coil Rows:

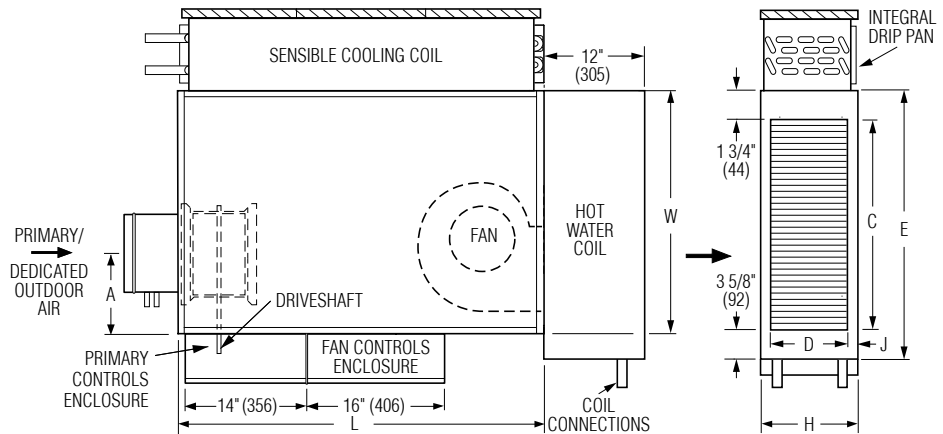
- ☐ 1-Row ☐ 2-Row

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	H	L	Outlet Duct Size C x D	J	E
10	26 1/2 (673)	8 1/2 (216)	47 1/4 (1200)	24 x 7 1/2 (610 x 191)	1/2 (13)	29 3/8 (746)
30	26 1/2 (673)	11 (279)	40 1/4 (1022)	24 x 8 3/4 (610 x 222)	1 1/8 (29)	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.

Voltage:

Single phase, 60 Hz.

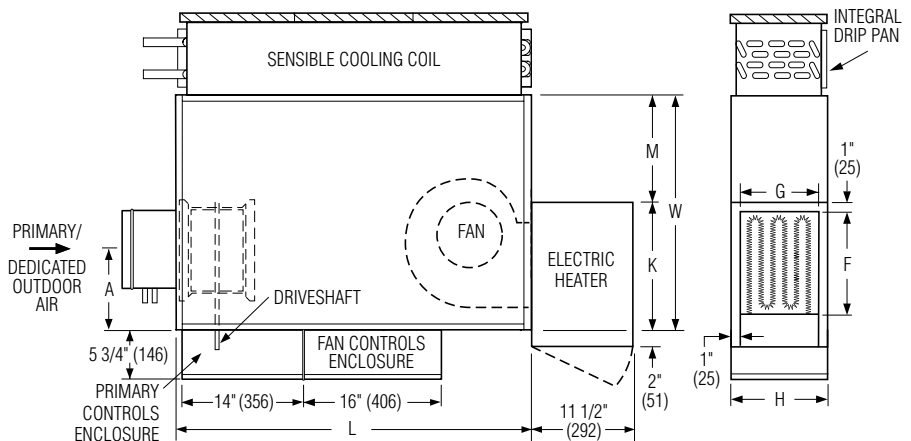
- ☐ 120V ☐ 208V
☐ 240V ☐ 277V

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



Dimensional Data

Unit Size	W	H	L	K	M	Outlet Duct Size F x G
10	26 1/2 (673)	8 1/2 (213)	47 1/4 (1200)	11 1/4 (286)	15 1/4 (387)	8 1/4 x 6 (210 x 152)
30	26 1/2 (673)	11 (279)	40 1/4 (1022)	15 3/8 (391)	11 1/8 (283)	12 3/8 x 9 (314 x 229)

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

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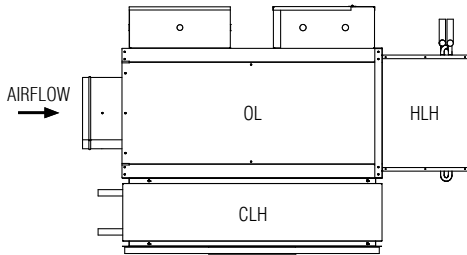
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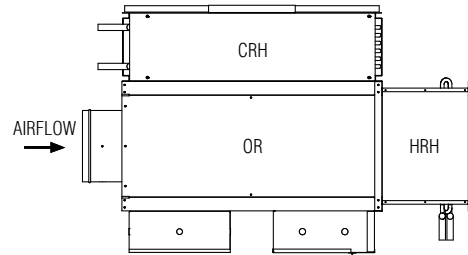
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33SZ-1

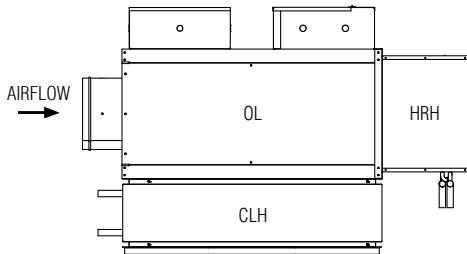
FAN POWERED CHILLED WATER TERMINAL UNITS ORIENTATIONS MODELS: 33SIZE AND 33SZW UNIT SIZES: 10 AND 30 (LOW PROFILE)



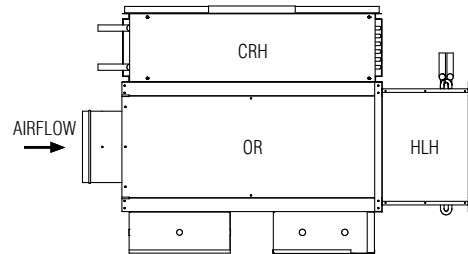
OL LEFT HAND CONTROLS
CLH LEFT HAND COOLING COIL CONNECTIONS
HLH LEFT HAND HEATING COIL CONNECTIONS



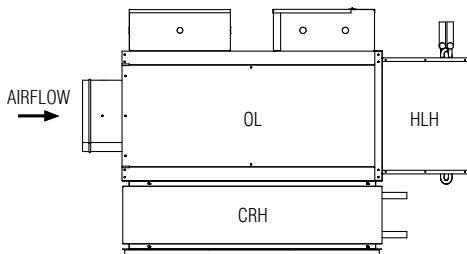
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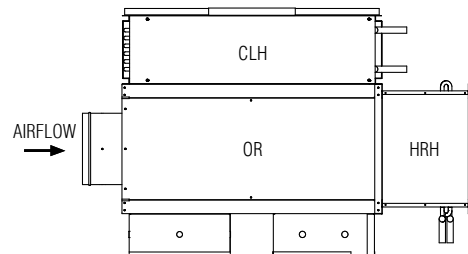
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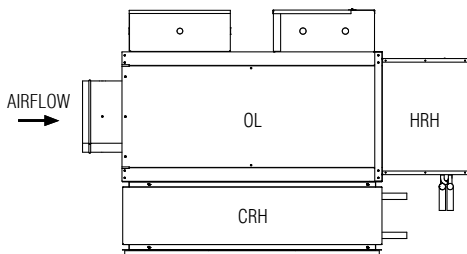
OR RIGHT HAND CONTROLS
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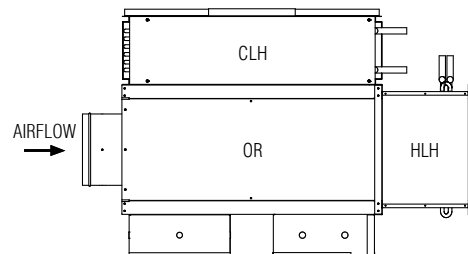
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CRH RIGHT HAND COOLING COIL CONNECTIONS
HLH LEFT HAND HEATING COIL CONNECTIONS



OR RIGHT HAND CONTROLS
CLH LEFT HAND COOLING COIL CONNECTIONS
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