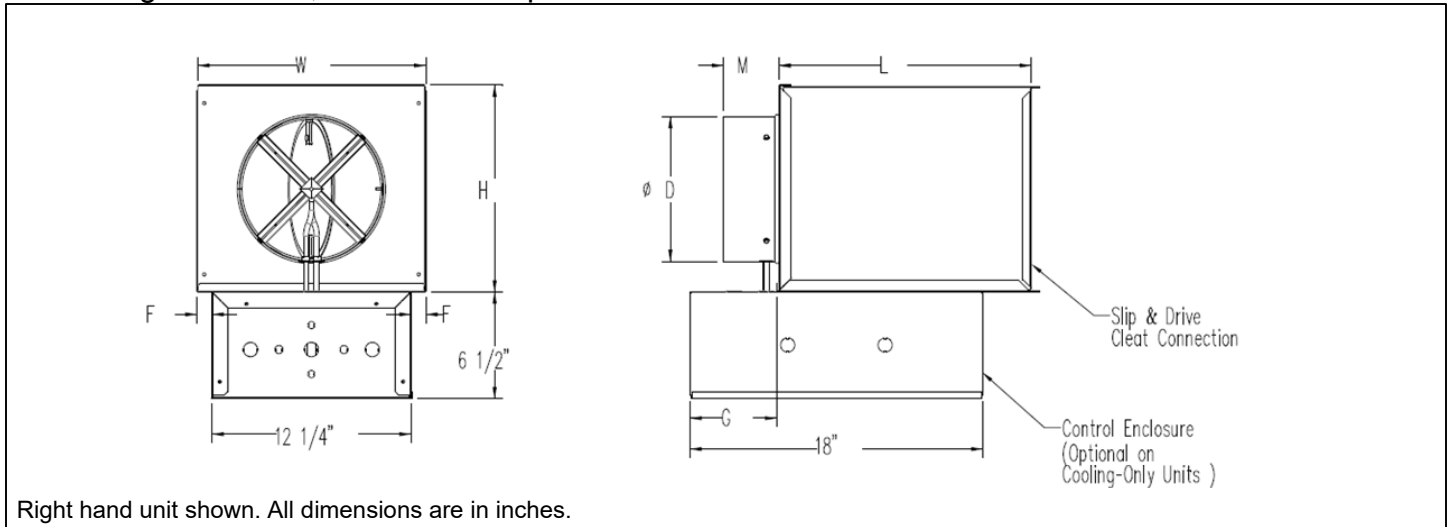


## DESV

Single Duct Terminal Unit (Bottom Control Enclosure)

Direct Digital Control, Pressure Independent



Right hand unit shown. All dimensions are in inches.

Inlet Size	CFM Range	D	F	G	H	L	M	W
4	0-225	3 <sup>7</sup> / <sub>8</sub>	-	7 <sup>3</sup> / <sub>8</sub>	8	15 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>8</sub>	12
5	0-350	4 <sup>7</sup> / <sub>8</sub>	-	7 <sup>3</sup> / <sub>8</sub>	8	15 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>8</sub>	12
6	0-500	5 <sup>7</sup> / <sub>8</sub>	-	7 <sup>3</sup> / <sub>8</sub>	8	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	12
7	0-650	6 <sup>7</sup> / <sub>8</sub>	-	7 <sup>3</sup> / <sub>8</sub>	10	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	12
8	0-900	7 <sup>7</sup> / <sub>8</sub>	-	7 <sup>3</sup> / <sub>8</sub>	10	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	12
9	0-1050	8 <sup>7</sup> / <sub>8</sub>	<sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	14
10	0-1400	9 <sup>7</sup> / <sub>8</sub>	<sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	14
12	0-2000	11 <sup>7</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	15	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	16
14	0-3000	13 <sup>7</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	17 <sup>1</sup> / <sub>2</sub>	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	20
16	0-4000	15 <sup>7</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	18	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	24



## Accessories (Optional)

Check  if provided.

- |  |  |   |  |
|--|--|---|--|
| <input type="checkbox"/> 24 V Control Transformer  | <input type="checkbox"/> 1" Fiberglass Liner | <input type="checkbox"/> 1/2" EcoShield Liner (Foil Face) | <input type="checkbox"/> Removable Air Flow Sensor |
| <input type="checkbox"/> Dust Tight Enclosure Seal | <input type="checkbox"/> 1" EcoShield Liner  | <input type="checkbox"/> 1" EcoShield Liner (Foil Face)   | <input type="checkbox"/> Bottom Access Door        |
| <input type="checkbox"/> Fibre Free Liner          | <input type="checkbox"/> SteriLoc Liner      | <input type="checkbox"/> Disconnect Switch                | <input type="checkbox"/> _____                     |
| <input type="checkbox"/> 1/2" EcoShield Liner      | <input type="checkbox"/> UltraLoc Liner      | <input type="checkbox"/> Hanger Brackets                  |  |

## General Description

- Heavy gauge steel housing. Mechanically sealed and gasketed, leak resistant construction. Less than 2% of nominal cfm at 1.5" sp wg.
- Dual density internal insulation, treated to resist air erosion. Meets requirements of NFPA 90A and UL 181.
- Rectangular discharge opening is designed for slip and drive cleat duct connection.
- Multipoint center averaging inlet velocity sensor.
- Digital control packages can be factory mounted by Titus.
- Choice of right hand or left hand control location.
- Model DESV without coils can be installed horizontally, vertically, or at any angle. Operation is not affected by position. For units with coils, consult technical support.
- Gauge tees for cfm measurement.

This submittal is meant to demonstrate general dimensions of this product. The drawings are not meant to detail every aspect of the product. Drawings are not to scale. Titus reserves the right to make changes without written notice.

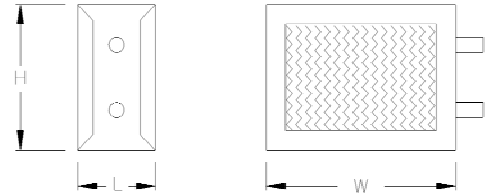
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## Accessories (Optional)

Hot Water Coil Section

- Aluminum ripple fins, 10 per inch
- Coil pipe connections are male, sweat, type "L" copper. Connection sizes are 1/2" OD for 1 row coil unit sizes 04-08 and 5/8". All other coils have 7/8" OD.
- Coil is installed at discharge of unit.
- On units with attenuators, coil are installed at the discharge of attenuator.

- 1 Row  
 2 Row  
 3 Row  
 4 Row



Electric Coil Section

Optional SCR Controlled Electric Heater

Optional Lynergy Controlled Electric Heater

**Standard Features**

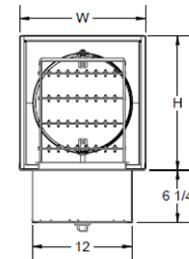
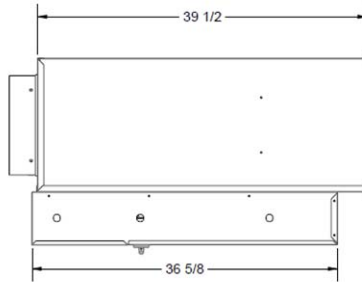
- Single side access to low voltage, high voltage, and electric heater controls.
- Automatic reset thermal cutouts, one per element
- Manual reset secondary protection.
- Positive pressure flow switch
- Magnetic contactor for each step.
- Slip and drive cleat discharge duct connection.

**Options**

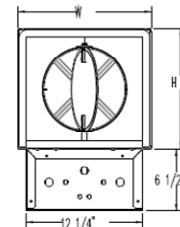
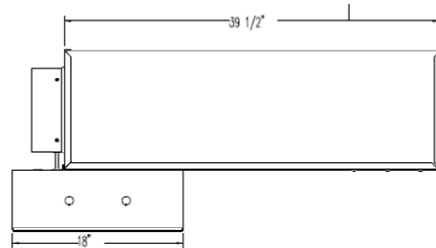
- Fuse Block  
 Disconnect switch, door interlock type  
 Dust tight construction  
 Mercury contactors

**Supply Voltage**

- 120V, 1 ph, 60Hz     277V, 1 ph, 60Hz  
 208V, 1 ph, 60Hz     208V, 3 ph, 60Hz  
 240V, 1 ph, 60Hz     480V, 3 ph, 60Hz (4 wire wye standard)



Integral Sound Attenuator



Inlet Size	H	W	Water Coil	
			L (1-2 Row)	L (3-4 Row)
4	8	12	5	7 1/4
5	8	12	5	7 1/4
6	8	12	5	7 1/4
7	10	12	5	7 1/4
8	10	12	5	7 1/4
9	12 1/2	14	5	7 1/4
10	12 1/2	14	5	7 1/4
12	15	16	5	7 1/4
14	17 1/2	20	7 1/2	9 3/4
16	18	24	7 1/2	9 3/4

The total length of the DESV unit is the summation of the unit length (with or without attenuator) and the length of the optional water coil.

This submittal is meant to demonstrate general dimensions of this product. The drawings are not meant to detail every aspect of the product. Drawings are not to scale. Titus reserves the right to make changes without written notice.

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