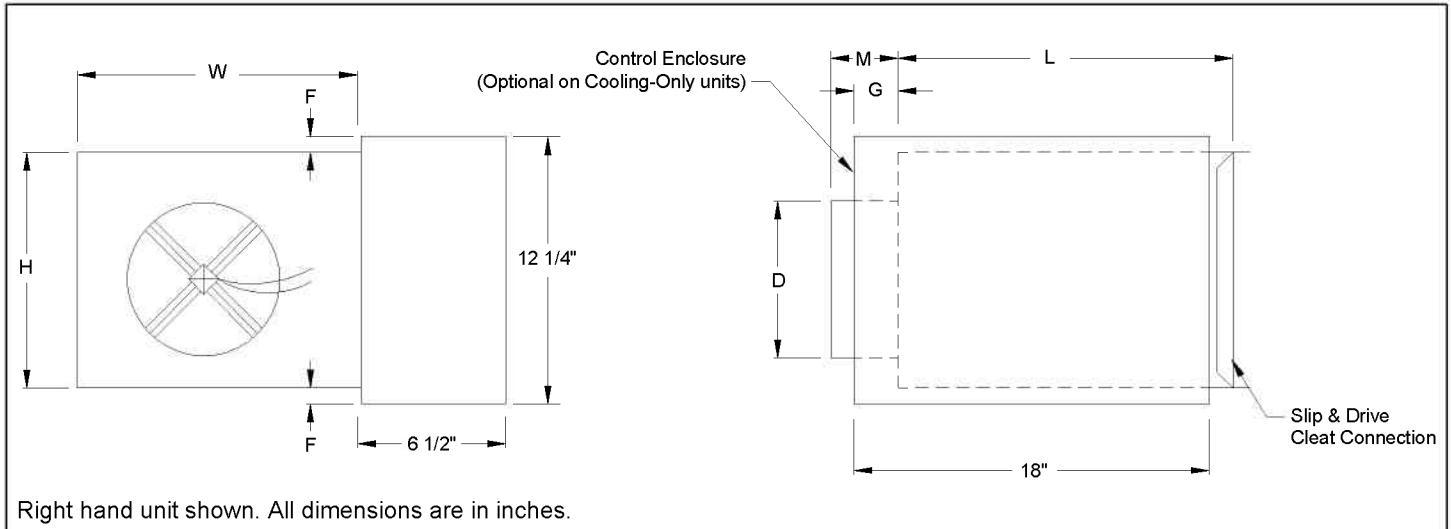


## DESV

Single Duct Terminal Unit  
 Direct Digital Control, Pressure Independent



Inlet Size	CFM Range	D	F	G	H	L	M	W
4	0-225	3 <sup>7</sup> / <sub>8</sub>	2 <sup>1</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>	2 <sup>1</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>	2 <sup>1</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>	1 <sup>1</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>	1 <sup>1</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>	-	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>	-	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>	-	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>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>	-	3 <sup>3</sup> / <sub>8</sub>	18	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	24
24 x 16	0-8000	23 <sup>7</sup> / <sub>8</sub> x 15 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	18	15	3 <sup>3</sup> / <sub>8</sub>	38



### Accessories (Optional)

Check  if provided.

- |  |  |   |  |
|--|--|---|--|
| <input type="checkbox"/> 24 V Control Transformer  | <input checked="" type="checkbox"/> SteriLoc Liner | <input type="checkbox"/> 1" EcoShield Liner             | <input type="checkbox"/> Hanger Brackets               |
| <input type="checkbox"/> Dust Tight Enclosure Seal | <input type="checkbox"/> UltraLoc Liner            | <input type="checkbox"/> ½" EcoShield Liner (Foil Face) | <input type="checkbox"/> Removable Air Flow Sensor     |
| <input type="checkbox"/> Fibre Free Liner          | <input type="checkbox"/> 1" Fiberglass Liner       | <input type="checkbox"/> 1" EcoShield Liner (Foil Face) | <input checked="" type="checkbox"/> Bottom Access Door |
|  | <input type="checkbox"/> ½" EcoShield Liner        | <input type="checkbox"/> Disconnect Switch              | <input type="checkbox"/> _____                         |

### 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 can be installed horizontally, vertically, or at any angle. Operation is not affected by position.
- Gauge tees for cfm measurement.

## SteriLoc Insulation

### Insulation Characteristics

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Material:	Foil Faced Duct Board Insulation
Thickness:	13/16 inch
R-Value:	3.5 ft <sup>2</sup> °F h/Btu @ 75°F
Density:	4.0 lbs/ft <sup>3</sup>
Flame Spread:	25
Smoke Density:	50
Mold Growth:	None

### Code Compliances

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UL 723 (NFPA 90A & 90B)	Flame / Smoke (25/50)
UL 181	Air Erosion
UL 181	Mold Growth and Humidity
ASTM C 665	Corrosiveness
ASTM 1338	Fungi Resistance
ASTM G21	Fungi Resistance
ASTM G22	Fungi Resistance

### Acoustical Performance

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Correction factors to standard liner catalog data are shown below.

#### ESV Basic Units

Band	2	3	4	5	6	7	NC
HZ	125	250	500	1000	2000	4000	Impact
Discharge	0	0	0	0	0	0	0
Radiated	-2	-6	-7	-8	-9	-10	-3

#### ESV Attenuator Units (Average Correction Factor - Actual correction factor is dependent on unit size.)

Band	2	3	4	5	6	7	NC
HZ	125	250	500	1000	2000	4000	Impact
Discharge	0	-1	-2	-3	-3	-2	-2
Radiated	-2	-6	-7	-8	-9	-10	-3

#### Fan Powered Terminals

Band	2	3	4	5	6	7	NC
HZ	125	250	500	1000	2000	4000	Impact
Discharge	0	0	0	0	0	0	0
Radiated	+2	+3	+6	+11	+10	+3	+4