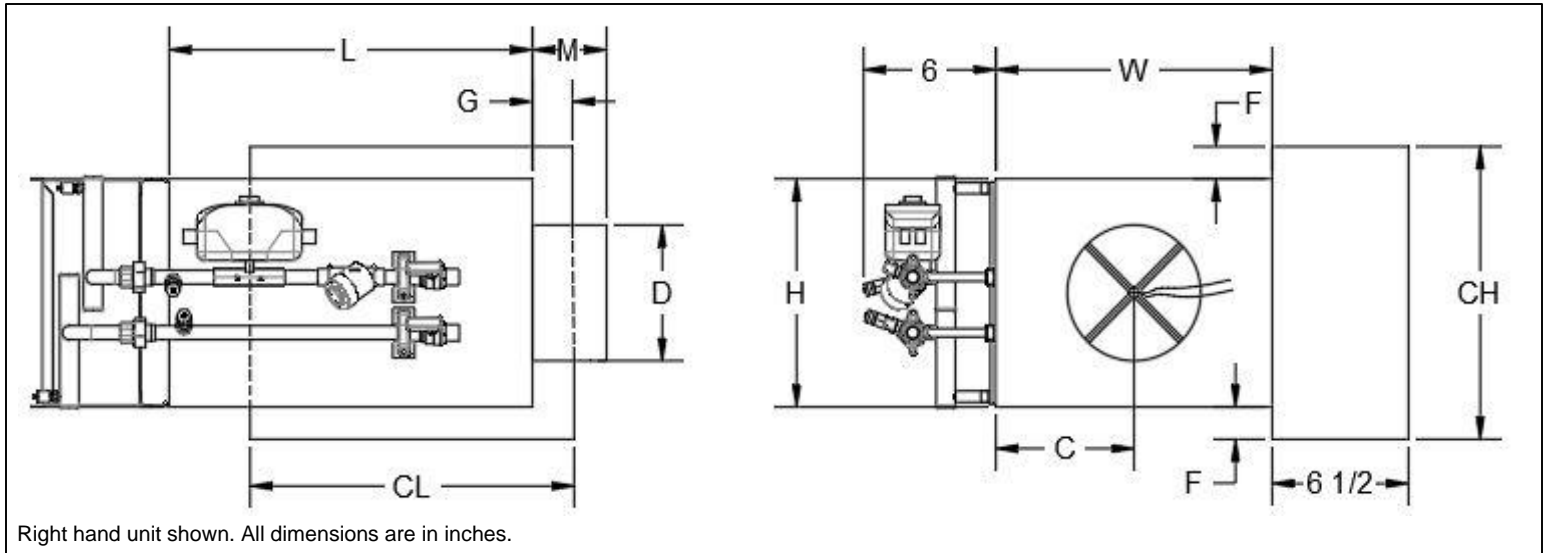


ESV Standard With Opposite Side Valve Package

Single Duct Terminal Unit

Digital Control, Pressure Independent



Size	CFM Range	D (H x W)	C	F	G	H	L	M	W	CH	CL
4	0-225	3 ⁷ / ₈	6 ¹ / ₂	2 ¹ / ₈	7 ³ / ₈	8	15 ¹ / ₂	5 ³ / ₈	12	12 ¹ / ₄	18
5	0-350	4 ⁷ / ₈	6 ¹ / ₂	2 ¹ / ₈	7 ³ / ₈	8	15 ¹ / ₂	5 ³ / ₈	12	12 ¹ / ₄	18
6	0-500	5 ⁷ / ₈	6 ¹ / ₂	2 ¹ / ₈	7 ³ / ₈	8	15 ¹ / ₂	3 ³ / ₈	12	12 ¹ / ₄	18
7	0-650	6 ⁷ / ₈	6	1 ¹ / ₈	7 ³ / ₈	10	15 ¹ / ₂	3 ³ / ₈	12	12 ¹ / ₄	18
8	0-900	7 ⁷ / ₈	6	1 ¹ / ₈	7 ³ / ₈	10	15 ¹ / ₂	3 ³ / ₈	12	12 ¹ / ₄	18
9	0-1050	8 ⁷ / ₈	7	-	5 ³ / ₈	12 ¹ / ₂	15 ¹ / ₂	3 ³ / ₈	14	12 ¹ / ₄	18
10	0-1400	9 ⁷ / ₈	7	-	5 ³ / ₈	12 ¹ / ₂	15 ¹ / ₂	3 ³ / ₈	14	12 ¹ / ₄	18
12	0-2000	11 ⁷ / ₈	8	-	5 ³ / ₈	15	15 ¹ / ₂	3 ³ / ₈	16	12 ¹ / ₄	18
14	0-3000	13 ⁷ / ₈	10 ¹ / ₂	-	3 ³ / ₈	17 ¹ / ₂	15 ¹ / ₂	3 ³ / ₈	20	12 ¹ / ₄	18
16	0-4000	15 ⁷ / ₈	13 ¹ / ₂	-	3 ³ / ₈	18	15 ¹ / ₂	3 ³ / ₈	24	12 ¹ / ₄	18
20	0-2000	7 ¹ / ₂ x 12 ¹ / ₄	8	1/4	3	10	15 ¹ / ₂	3 ³ / ₈	16	10 ¹ / ₄	15 ¹ / ₄
5E	0-350	4 ⁷ / ₈	6	2 ¹ / ₈	7 ³ / ₈	10	15 ¹ / ₂	3 ³ / ₈	12	12 ¹ / ₄	18
6E	0-500	5 ⁷ / ₈	6	2 ¹ / ₈	7 ³ / ₈	10	15 ¹ / ₂	3 ³ / ₈	12	12 ¹ / ₄	18
7E	0-650	6 ⁷ / ₈	7	1 ¹ / ₈	5 ³ / ₈	12 ¹ / ₂	15 ¹ / ₂	3 ³ / ₈	14	12 ¹ / ₄	18
8E	0-900	7 ⁷ / ₈	7	1 ¹ / ₈	5 ³ / ₈	12 ¹ / ₂	15 ¹ / ₂	3 ³ / ₈	14	12 ¹ / ₄	18
1E	0-1400	9 ⁷ / ₈	8	-	5 ³ / ₈	15	15 ¹ / ₂	3 ³ / ₈	16	12 ¹ / ₄	18
2E	0-2000	11 ⁷ / ₈	10 ¹ / ₂	-	3 ³ / ₈	17 ¹ / ₂	15 ¹ / ₂	3 ³ / ₈	20	12 ¹ / ₄	18
4E	0-3000	13 ⁷ / ₈	13 ¹ / ₂	-	3 ³ / ₈	18	15 ¹ / ₂	3 ³ / ₈	24	12 ¹ / ₄	18

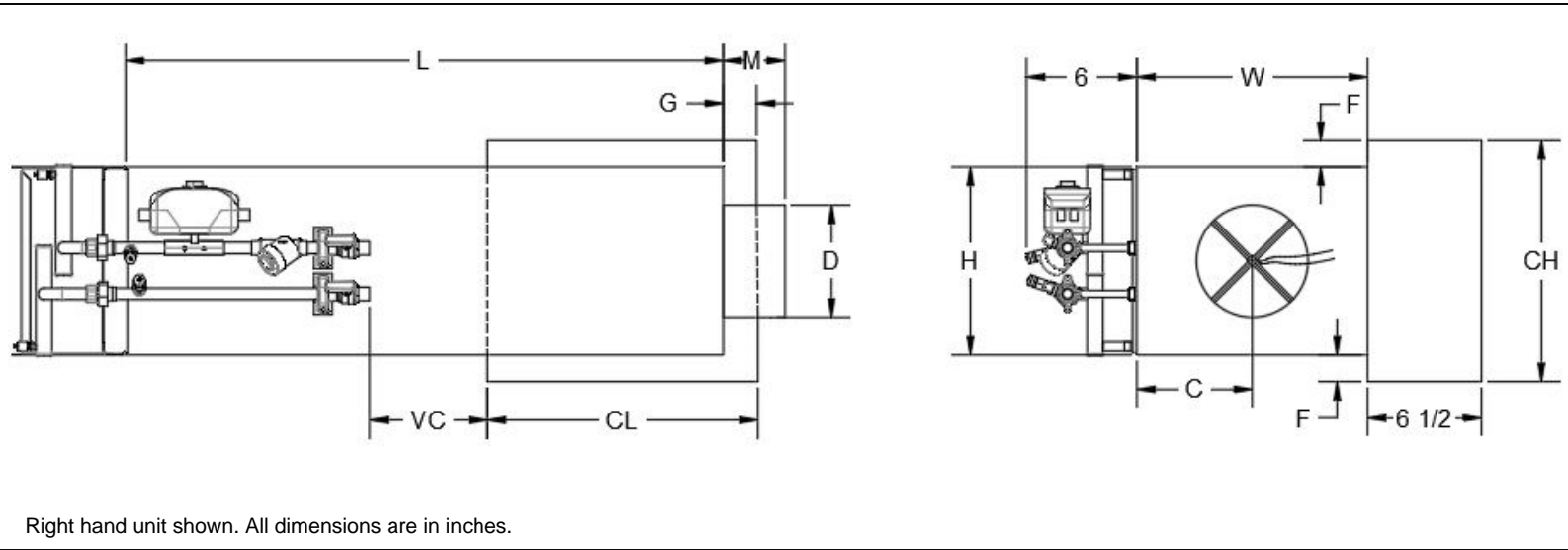
This submittal is meant to demonstrate general dimensions of this product. The drawings are not meant to detail every aspect of the product. Drawings are not to scale. Titus reserves the right to make changes without written notice.

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ESV Attenuated With Same Side Valve Package

Single Duct Terminal Unit

Digital Control, Pressure Independent



Size	CFM Range	D (H x W)	C	F	G	H	L	M	W	CH	CL	VC
4	0-225	3 ⁷ / ₈	6 ¹ / ₂	2 ¹ / ₈	7 ³ / ₈	8	39 ¹ / ₂	5 ³ / ₈	12	12 ¹ / ₄	18	15
5	0-350	4 ⁷ / ₈	6 ¹ / ₂	2 ¹ / ₈	7 ³ / ₈	8	39 ¹ / ₂	5 ³ / ₈	12	12 ¹ / ₄	18	15
6	0-500	5 ⁷ / ₈	6 ¹ / ₂	2 ¹ / ₈	7 ³ / ₈	8	39 ¹ / ₂	3 ³ / ₈	12	12 ¹ / ₄	18	15
7	0-650	6 ⁷ / ₈	6	1 ¹ / ₈	7 ³ / ₈	10	39 ¹ / ₂	3 ³ / ₈	12	12 ¹ / ₄	18	15
8	0-900	7 ⁷ / ₈	6	1 ¹ / ₈	7 ³ / ₈	10	39 ¹ / ₂	3 ³ / ₈	12	12 ¹ / ₄	18	15
9	0-1050	8 ⁷ / ₈	7	-	5 ³ / ₈	12 ¹ / ₂	39 ¹ / ₂	3 ³ / ₈	14	12 ¹ / ₄	18	13
10	0-1400	9 ⁷ / ₈	7	-	5 ³ / ₈	12 ¹ / ₂	39 ¹ / ₂	3 ³ / ₈	14	12 ¹ / ₄	18	13
12	0-2000	11 ⁷ / ₈	8	-	5 ³ / ₈	15	39 ¹ / ₂	3 ³ / ₈	16	12 ¹ / ₄	18	13
14	0-3000	13 ⁷ / ₈	10 ¹ / ₂	-	3 ³ / ₈	17 ¹ / ₂	39 ¹ / ₂	3 ³ / ₈	20	12 ¹ / ₄	18	11
16	0-4000	15 ⁷ / ₈	13 ¹ / ₂	-	3 ³ / ₈	18	39 ¹ / ₂	3 ³ / ₈	24	12 ¹ / ₄	18	11
20	0-2000	7 ¹ / ₂ x 12 ¹ / ₄	8	1/4	3	10	39 ¹ / ₂	3 ³ / ₈	16	10 ¹ / ₄	15 ¹ / ₄	13
5E	0-350	4 ⁷ / ₈	6	2 ¹ / ₈	7 ³ / ₈	10	39 ¹ / ₂	3 ³ / ₈	12	12 ¹ / ₄	18	15
6E	0-500	5 ⁷ / ₈	6	2 ¹ / ₈	7 ³ / ₈	10	39 ¹ / ₂	3 ³ / ₈	12	12 ¹ / ₄	18	15
7E	0-650	6 ⁷ / ₈	7	1 ¹ / ₈	5 ³ / ₈	12 ¹ / ₂	39 ¹ / ₂	3 ³ / ₈	14	12 ¹ / ₄	18	13
8E	0-900	7 ⁷ / ₈	7	1 ¹ / ₈	5 ³ / ₈	12 ¹ / ₂	39 ¹ / ₂	3 ³ / ₈	14	12 ¹ / ₄	18	13
1E	0-1400	9 ⁷ / ₈	8	-	5 ³ / ₈	15	39 ¹ / ₂	3 ³ / ₈	16	12 ¹ / ₄	18	13
2E	0-2000	11 ⁷ / ₈	10 ¹ / ₂	-	3 ³ / ₈	17 ¹ / ₂	39 ¹ / ₂	3 ³ / ₈	20	12 ¹ / ₄	18	14
4E	0-3000	13 ⁷ / ₈	13 ¹ / ₂	-	3 ³ / ₈	18	39 ¹ / ₂	3 ³ / ₈	24	12 ¹ / ₄	18	16

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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.
- Units equipped with the Titus II velocity controller can either be direct acting or reverse acting, with the damper either normally open or normally closed. Controller maintains constant span and start point. (Span and start point are adjustable.)
- Rectangular discharge opening is designed for slip and drive cleat duct connection.
- Multipoint center averaging inlet velocity sensor.
- Control packages can be factory mounted by Titus.
- Choice of right hand or left hand control location.
- Units equipped with the Titus I velocity controller are available in both direct acting / normally open and reverse acting / normally closed operating modes.
- 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.
- OSHPD Seismic Certification: OSP-0352-10
- Only Titus Alpha digital and pneumatic controls approved for seismic installation.

Accessories (Optional)

Check if provided.

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

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Accessories

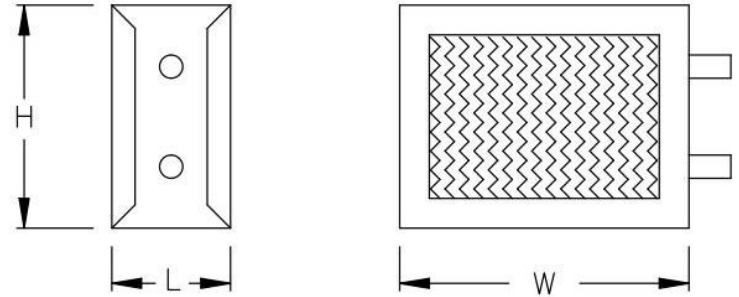
Hot Water Coil

- Aluminum ripple fins, 10 per inch
- Coil is installed at discharge of unit for standard units. Attenuated units have the coil mounted before the attenuator
- Coils rated and certified to AHRI Standard 410

- 1 Row
- 2 Row
- 3 Row
- 4 Row

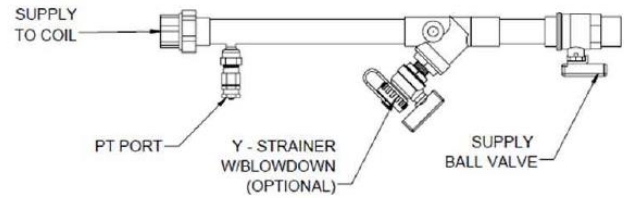
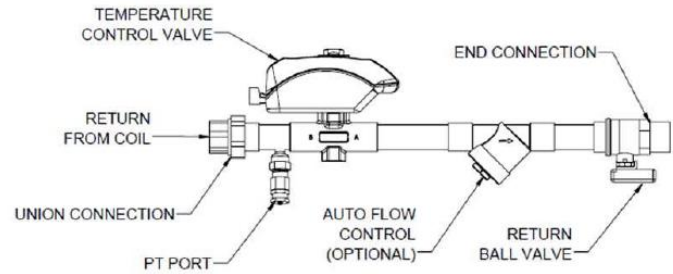
Valve Package Provided By:

- Titus
- Others



Titus Provided 2 Way Valve Package

- Valve packages produced using 1/2" OD piping
- Valve package connection to water coil is 1/2" Union. With 1/2" sweat field end connection
- Factory pressure tested to 100 psi.
- Pressure/Temperature test ports provided.
- Air vent and drain provided at coil headers.
- Supply and return connections to receive 1/2" OD tube.
- Valve package mounted opposite of controls except on attenuated units which allow for same hand package.



- On/Off, normally closed
- 3-Point Floating, fail in place

Flow Control

- Y- Strainer w/ blowdown
- Left hand valve package
- Right hand valve package

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}
20	10	16	5	7 ^{1/4}
5E	10	12	5	7 ^{1/4}
6E	10	12	5	7 ^{1/4}
7E	12 ^{1/2}	14	5	7 ^{1/4}
8E	12 ^{1/2}	14	5	7 ^{1/4}
1E	15	16	5	7 ^{1/4}
2E	17 ^{1/2}	20	5	7 ^{1/4}
4E	18	24	5	7 ^{1/4}

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

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