

*Quality People. Building Solutions.*

Comfort Systems USA (Arkansas), Inc.  
P.O. Box 16620  
Little Rock, AR 72231  
Phone 501-834-3320  
Fax 501-834-5416

**Date:** 10/18/2024

**Return Request:** 11/1/2024

**Project:** UAMS (CAMID)

**Supplier:** Middleton

**Manufacturer:** Titus

**Submittal:** Air Terminal Units

**Submittal Number:** 23 36 00-01

**Drawing # and Installation:** Mechanical Drawings

**ARCHITECT**

Clark Kenersen  
2020 Baltimore Avenue, Suite 300  
Kansas City, MO 64108  
816-474-8237

**ENGINEER**

Clark Kenersen  
2020 Baltimore Avenue, Suite 300  
Kansas City, MO 64108  
816-474-8237

**GENERAL CONTRACTOR**

CDI Contractors  
3000 Cantrell Rd.  
Little Rock, AR 72202  
501-666-4300

**MECHANICAL SUBCONTRACTOR**

Comfort Systems USA (Arkansas), Inc.  
9924 Landers Rd.  
N. Little Rock, AR 72117  
501-834-3320

Notes:

**CSUSA PROJECT NO.**

**22-6069**

[sean@comfortar.com](mailto:sean@comfortar.com)

9924 Landers Rd.  
No. Little Rock, AR 72117

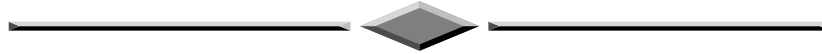
# MIDDLETON, INC

P.O. BOX 506 BRYANT, AR 72089

TELEPHONE (501) 224-4888

LICENSE # 0225670422

Email: [dsingleton@middletontinc.com](mailto:dsingleton@middletontinc.com)



## HVAC SUBMITTALS

10-17-24

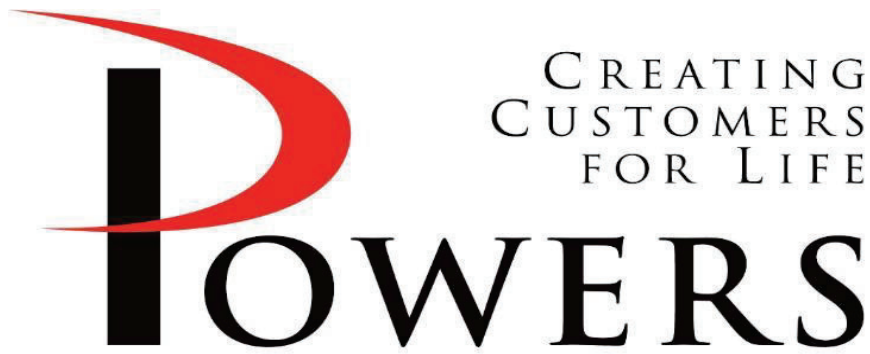
PROJECT: UAMS Center for Animal Models of Infection & Disease  
CONTRACTOR: Comfort Systems

PREPARED BY: David Singleton – **Middleton, Inc.**

## CONTENTS

FURNISHED BY: **MIDDLETON, INC.**

**Submittal Items 233600 – Air Terminal Units**



# SUBMITTAL

<b>PRODUCT</b>	Supply Air Terminals
<b>MANUFACTURER</b>	Titus
<b>JOB NAME</b>	UAMS Center for Animal Models of Infection & Disease
<b>LOCATION</b>	Little Rock, AR
<b>ENGINEER</b>	James R. Beecher
<b>CONTRACTOR</b>	Middleton Inc.
<b>DATE</b>	10/16/2024
<b>SUBMITTED BY</b>	Chris Atwood

5440 Northshore Drive - North Little Rock, Arkansas 72118 - Tel: 501.374.5420 Fax: 501.370.9298

## Schedule



Date/Time: 09/29/2024 16:13:38  
 Job: UAMS Center for Animal Models of Infect  
 Project:  
 Customer:  
 Sales Person:

Current Version: 2014.0.570  
 Modified Version: 2014.0.570

Model	Quantity	Tag	Unit Config	Liner Option	Unit Size	Casing Config	Controller	Actuator Type	Max Primary CFM	Min Primary CFM	Control Acc1	Control Acc2	Control Acc3	Unit Acc1	Unit Acc2	Unit Acc3	Unit Acc4	Unit Acc5	Water Coil	Electric Heat	KW	Elec Coil Acc1	Elec Coil Acc2	Elec Coil Acc3	Elec Coil Acc4	Comments
DESV	1	VAV-12	0 - BASIC	2 - STERIOLOC	04	0R - STD 22GA RH	0000 - NONE	0000 - NONE	50	50	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W21 -1 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	VAV-102	0 - BASIC	2 - STERIOLOC	06	0R - STD 22GA RH	0000 - NONE	0000 - NONE	250	170	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	VAV-103	0 - BASIC	2 - STERIOLOC	06	0L - STD 22GA LH	0000 - NONE	0000 - NONE	350	80	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	VAV-105	0 - BASIC	2 - STERIOLOC	06	0R - STD 22GA RH	0000 - NONE	0000 - NONE	350	350	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	VAV-106	0 - BASIC	2 - STERIOLOC	08	0R - STD 22GA RH	0000 - NONE	0000 - NONE	560	250	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	VAV-107	0 - BASIC	2 - STERIOLOC	06	0R - STD 22GA RH	0000 - NONE	0000 - NONE	350	350	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	VAV-108	0 - BASIC	2 - STERIOLOC	08	0R - STD 22GA RH	0000 - NONE	0000 - NONE	650	650	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	VAV-109	0 - BASIC	2 - STERIOLOC	08	0L - STD 22GA LH	0000 - NONE	0000 - NONE	500	0	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	VAV-110	0 - BASIC	2 - STERIOLOC	08	0R - STD 22GA RH	0000 - NONE	0000 - NONE	500	150	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	VAV-111	0 - BASIC	2 - STERIOLOC	08	0R - STD 22GA RH	0000 - NONE	0000 - NONE	550	150	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	VAV-112	0 - BASIC	2 - STERIOLOC	14	0R - STD 22GA RH	0000 - NONE	0000 - NONE	1400	450	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	

DESV	1	VAV-113	0 - BASIC	2 - STERIOLOC	10	0L - STD 22GA LH	0000 - NONE	0000 - NONE	900	230	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-116	0 - BASIC	2 - STERIOLOC	07	0L - STD 22GA LH	0000 - NONE	0000 - NONE	400	400	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-117	0 - BASIC	2 - STERIOLOC	08	0L - STD 22GA LH	0000 - NONE	0000 - NONE	550	210	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-118	0 - BASIC	2 - STERIOLOC	06	0L - STD 22GA LH	0000 - NONE	0000 - NONE	350	350	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-119	0 - BASIC	2 - STERIOLOC	10	0R - STD 22GA RH	0000 - NONE	0000 - NONE	950	950	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-120	0 - BASIC	2 - STERIOLOC	06	0L - STD 22GA LH	0000 - NONE	0000 - NONE	350	350	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-121	0 - BASIC	2 - STERIOLOC	08	0L - STD 22GA LH	0000 - NONE	0000 - NONE	720	250	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	U22 -2 ROW LH HIGH CAPACITY	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-122	0 - BASIC	2 - STERIOLOC	07	0L - STD 22GA LH	0000 - NONE	0000 - NONE	400	400	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-123	0 - BASIC	2 - STERIOLOC	08	0L - STD 22GA LH	0000 - NONE	0000 - NONE	500	90	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-124	0 - BASIC	2 - STERIOLOC	06	0L - STD 22GA LH	0000 - NONE	0000 - NONE	300	70	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-125	0 - BASIC	2 - STERIOLOC	06	0R - STD 22GA RH	0000 - NONE	0000 - NONE	400	400	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-126	0 - BASIC	2 - STERIOLOC	09	0L - STD 22GA LH	0000 - NONE	0000 - NONE	375	375	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-127	0 - BASIC	2 - STERIOLOC	06	0L - STD 22GA LH	0000 - NONE	0000 - NONE	350	80	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE

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DESV	1	VAV-128	0 - BASIC	2 - STERIOLOC	05	0R - STD 22GA RH	0000 - NONE	0000 - NONE	175	70	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W11 -1 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-129	0 - BASIC	2 - STERIOLOC	08	0R - STD 22GA RH	0000 - NONE	0000 - NONE	250	250	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W21 -1 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-130	0 - BASIC	2 - STERIOLOC	08	0L - STD 22GA LH	0000 - NONE	0000 - NONE	500	500	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	U22 -2 ROW LH HIGH CAPACITY	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-131	0 - BASIC	2 - STERIOLOC	10	0L - STD 22GA LH	0000 - NONE	0000 - NONE	975	975	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-132	0 - BASIC	2 - STERIOLOC	06	0R - STD 22GA RH	0000 - NONE	0000 - NONE	500	500	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	U12 -2 ROW RH HIGH CAPACITY	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-133	0 - BASIC	2 - STERIOLOC	06	0L - STD 22GA LH	0000 - NONE	0000 - NONE	500	500	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	U22 -2 ROW LH HIGH CAPACITY	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-134	0 - BASIC	2 - STERIOLOC	06	0R - STD 22GA RH	0000 - NONE	0000 - NONE	500	500	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	U22 -2 ROW LH HIGH CAPACITY	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-135	0 - BASIC	2 - STERIOLOC	06	0L - STD 22GA LH	0000 - NONE	0000 - NONE	250	250	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W11 -1 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-136	0 - BASIC	2 - STERIOLOC	09	0R - STD 22GA RH	0000 - NONE	0000 - NONE	600	600	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W11 -1 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-137	0 - BASIC	2 - STERIOLOC	05	0L - STD 22GA LH	0000 - NONE	0000 - NONE	220	220	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-138	0 - BASIC	2 - STERIOLOC	07	0L - STD 22GA LH	0000 - NONE	0000 - NONE	400	170	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-139	0 - BASIC	2 - STERIOLOC	05	0L - STD 22GA LH	0000 - NONE	0000 - NONE	220	220	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-140	0 - BASIC	2 - STERIOLOC	06	0L - STD 22GA LH	0000 - NONE	0000 - NONE	350	350	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE

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DESV	1	VAV-141	0 - BASIC	2 - STERIOLOC	06	0R - STD 22GA RH	0000 - NONE	0000 - NONE	250	80	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-143	0 - BASIC	2 - STERIOLOC	08	0L - STD 22GA LH	0000 - NONE	0000 - NONE	500	500	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-144	0 - BASIC	2 - STERIOLOC	09	0L - STD 22GA LH	0000 - NONE	0000 - NONE	680	340	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-145	0 - BASIC	2 - STERIOLOC	07	0L - STD 22GA LH	0000 - NONE	0000 - NONE	420	420	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-148	0 - BASIC	2 - STERIOLOC	04	0L - STD 22GA LH	0000 - NONE	0000 - NONE	50	50	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W21 -1 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-149	0 - BASIC	2 - STERIOLOC	08	0L - STD 22GA LH	0000 - NONE	0000 - NONE	500	0	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-151	0 - BASIC	2 - STERIOLOC	06	0R - STD 22GA RH	0000 - NONE	0000 - NONE	350	350	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-152	0 - BASIC	2 - STERIOLOC	07	0R - STD 22GA RH	0000 - NONE	0000 - NONE	450	90	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W11 -1 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-153	0 - BASIC	2 - STERIOLOC	07	0L - STD 22GA LH	0000 - NONE	0000 - NONE	450	90	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W11 -1 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-160	0 - BASIC	2 - STERIOLOC	10	0R - STD 22GA RH	0000 - NONE	0000 - NONE	1000	330	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-161	0 - BASIC	2 - STERIOLOC	10	0L - STD 22GA LH	0000 - NONE	0000 - NONE	880	230	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-163	0 - BASIC	2 - STERIOLOC	14	0R - STD 22GA RH	0000 - NONE	0000 - NONE	1200	650	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-164	0 - BASIC	2 - STERIOLOC	14	0R - STD 22GA RH	0000 - NONE	0000 - NONE	1000	1000	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE

Job Name: UAMS Center for Animal Models of Infecti

DESV	1	VAV-165	0 - BASIC	2 - STERIOLOC	10	0L - STD 22GA LH	0000 - NONE	0000 - NONE	1000	230	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-166	0 - BASIC	2 - STERIOLOC	07	0L - STD 22GA LH	0000 - NONE	0000 - NONE	380	110	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-167	0 - BASIC	2 - STERIOLOC	09	0L - STD 22GA LH	0000 - NONE	0000 - NONE	700	700	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-168	0 - BASIC	2 - STERIOLOC	09	0L - STD 22GA LH	0000 - NONE	0000 - NONE	580	580	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W11 -1 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-169	0 - BASIC	2 - STERIOLOC	06	0L - STD 22GA LH	0000 - NONE	0000 - NONE	350	180	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	VAV-170	0 - BASIC	2 - STERIOLOC	08	0L - STD 22GA LH	0000 - NONE	0000 - NONE	500	500	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	B - HANGER BRACKET	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE



## SUPPLY AIR TERMINAL UNIT SCHEDULE

Tag	Model	Size		CFM		Static Pressure			NC Levels		Unit	Hot Water Heat Coil										
		Unit	Outlet	Max	Min	Inlet	Down	Min	Rad.	Disch.		Hand	CFM	MBH	EAT	EWT	LAT	APD	GPM	LWT	WPD	Rows
VAV-12	DESV	04	12x8	50	50	1	0.25	0.01	-	19	RH	50	3.4	55	180	117.1	0	1	173.1	0.43	1-LH	10
VAV-102	DESV	06	12x8	250	170	1	0.25	0.14	13	23	RH	170	9.8	55	180	108.3	0.09	0.75	153.1	0.1	2-RH	10
VAV-103	DESV	06	12x8	350	80	1	0.25	0.26	15	23	LH	175	8.4	55	180	99.2	0.16	0.5	145.5	0.06	2-LH	10
VAV-105	DESV	06	12x8	350	350	1	0.25	0.26	15	23	RH	350	15.1	55	180	94.7	0.16	1	149	0.15	2-RH	10
VAV-106	DESV	08	12x10	560	250	1	0.25	0.22	18	27	RH	560	23.2	55	180	93.2	0.21	1.5	148.2	0.33	2-RH	10
VAV-107	DESV	06	12x8	350	350	1	0.25	0.26	15	23	RH	350	15.1	55	180	94.7	0.16	1	149	0.15	2-RH	10
VAV-108	DESV	08	12x10	650	650	1	0.25	0.29	19	28	RH	650	19.1	55	180	81.7	0.27	0.8	130.9	0.15	2-LH	10
VAV-109	DESV	08	12x10	500	0	1	0.25	0.01	18	28	LH	-	-	-	-	-	-	-	-	-	-	-
VAV-110	DESV	08	12x10	500	150	1	0.25	0.19	17	27	RH	500	19.6	55	180	91	0.18	1	139.8	0.2	2-LH	10
VAV-111	DESV	08	12x10	550	150	1	0.25	0.21	18	27	RH	550	23.1	55	180	93.6	0.2	1.5	148.4	0.33	2-RH	10
VAV-112	DESV	14	20x17.5	1400	450	1	0.25	0.18	14	19	RH	1400	54.3	55	180	90.7	0.16	2.2	129.3	0.25	2-RH	10
VAV-113	DESV	10	14x12.5	900	230	1	0.25	0.26	19	25	LH	900	34.2	55	180	90	0.25	2	144.8	0.27	2-LH	10
VAV-116	DESV	07	12x10	400	400	1	0.25	0.18	17	24	LH	400	18	55	180	96.5	0.12	1	143	0.2	2-LH	10
VAV-117	DESV	08	12x10	550	210	1	0.25	0.21	18	27	LH	550	20.2	55	180	88.9	0.2	1	138.5	0.2	2-LH	10
VAV-118	DESV	06	12x8	350	350	1	0.25	0.26	15	23	LH	350	15.1	55	180	94.7	0.16	1	149	0.15	2-LH	10
VAV-119	DESV	10	14x12.5	950	950	1	0.25	0.28	19	27	RH	950	30.3	55	180	84.4	0.27	1.4	135.4	0.19	2-LH	10
VAV-120	DESV	06	12x8	350	350	1	0.25	0.26	15	23	LH	350	15.1	55	180	94.7	0.16	1	149	0.15	2-LH	10
VAV-121	DESV	08	12x10	720	250	1	0.25	0.38	20	25	LH	720	28.7	55	180	91.7	0.36	1.65	144.3	0.4	2-LH	12
VAV-122	DESV	07	12x10	400	400	1	0.25	0.18	17	24	LH	400	18	55	180	96.5	0.12	1	143	0.2	2-RH	10
VAV-123	DESV	08	12x10	500	90	1	0.25	0.18	17	27	LH	250	10.9	55	180	95	0.17	0.5	135.3	0.07	2-LH	10
VAV-124	DESV	06	12x8	300	70	1	0.25	0.19	14	22	LH	300	15.8	55	180	103.4	0.12	1.65	160.4	0.31	2-LH	10
VAV-125	DESV	06	12x8	400	400	1	0.25	0.32	17	24	RH	400	15.9	55	180	91.6	0.19	1	147.3	0.15	2-RH	10
VAV-126	DESV	09	14x12.5	375	375	1	0.25	0.07	-	17	LH	375	13.1	55	180	87.1	0.06	0.5	126.3	0.04	2-LH	10
VAV-127	DESV	06	12x8	350	80	1	0.25	0.26	15	23	LH	350	10.5	55	180	82.6	0.16	0.5	136.9	0.06	2-LH	10
VAV-128	DESV	05	12x8	175	70	1	0.25	0.04	10	27	RH	175	6.7	55	180	90.5	0.03	1	166.2	0.43	1-RH	10
VAV-129	DESV	08	12x10	250	250	1	0.25	0.04	10	27	RH	250	7.9	55	180	84.2	0.03	0.5	147.5	0.19	1-LH	10
VAV-130	DESV	08	12x10	500	500	1	0.25	0.21	17	27	LH	500	27.9	55	180	106.4	0.2	3	160.9	1.22	2-LH	12
VAV-131	DESV	10	14x12.5	975	975	1	0.25	0.29	19	27	LH	975	31.6	55	180	84.9	0.28	1.5	136.7	0.2	2-RH	10
VAV-132	DESV	06	12x8	500	500	1	0.25	0.52	18	25	RH	500	19.9	55	180	91.6	0.32	1.2	146	0.16	2-RH	12
VAV-133	DESV	06	12x8	500	500	1	0.25	0.52	18	25	LH	500	19.9	55	180	91.6	0.32	1.2	146	0.16	2-LH	12
VAV-134	DESV	06	12x8	500	500	1	0.25	0.52	18	25	RH	500	19.9	55	180	91.6	0.32	1.2	146	0.16	2-LH	12
VAV-135	DESV	06	12x8	250	250	1	0.25	0.1	14	24	LH	250	7.9	55	180	84.1	0.05	1	163.8	0.43	1-RH	10
VAV-136	DESV	09	14x12.5	600	600	1	0.25	0.08	14	23	RH	600	13.1	55	180	75.1	0.06	0.8	146.3	0.1	1-RH	10
VAV-137	DESV	05	12x8	220	220	1	0.25	0.09	13	29	LH	220	9.1	55	180	93.2	0.07	0.5	142.5	0.06	2-LH	10
VAV-138	DESV	07	12x10	400	170	1	0.25	0.18	17	24	LH	400	12.5	55	180	83.9	0.12	0.5	128.5	0.07	2-LH	10
VAV-139	DESV	05	12x8	220	220	1	0.25	0.09	13	29	LH	220	9.1	55	180	93.2	0.07	0.5	142.5	0.06	2-LH	10

VAV-140	DESV	06	12x8	350	350	1	0.25	0.26	15	23	LH	350	15.1	55	180	94.7	0.16	1	149	0.15	2-LH	10
VAV-141	DESV	06	12x8	250	80	1	0.25	0.14	13	23	RH	250	9.5	55	180	90.1	0.09	0.5	140.9	0.06	2-RH	10
VAV-143	DESV	08	12x10	500	500	1	0.25	0.19	17	27	LH	500	19.6	55	180	91	0.18	1	139.8	0.2	2-LH	10
VAV-144	DESV	09	14x12.5	680	340	1	0.25	0.19	15	24	LH	680	23	55	180	86.2	0.16	1	132.7	0.12	2-LH	10
VAV-145	DESV	07	12x10	420	420	1	0.25	0.19	18	24	LH	420	18.3	55	180	95.3	0.13	1	142.3	0.2	2-RH	10
VAV-148	DESV	04	12x8	50	50	1	0.25	0.01	-	19	LH	50	2.7	55	180	105.4	0	0.25	157.5	0.05	1-LH	10
VAV-149	DESV	08	12x10	500	0	1	0.25	0.01	18	28	LH	-	-	-	-	-	-	-	-	-	-	-
VAV-151	DESV	06	12x8	350	350	1	0.25	0.26	15	23	RH	350	10.5	55	180	82.6	0.16	0.5	136.9	0.06	2-RH	10
VAV-152	DESV	07	12x10	450	90	1	0.25	0.14	19	25	RH	200	8.2	55	180	92.8	0.07	1	163.1	0.56	1-RH	10
VAV-153	DESV	07	12x10	450	90	1	0.25	0.14	19	25	LH	200	8.2	55	180	92.8	0.07	1	163.1	0.56	1-RH	10
VAV-160	DESV	10	14x12.5	1000	330	1	0.25	0.3	19	27	RH	1000	31.9	55	180	84.4	0.29	1.5	136.3	0.2	2-LH	10
VAV-161	DESV	10	14x12.5	880	230	1	0.25	0.25	19	25	LH	880	36	55	180	92.7	0.24	2.5	150.4	0.41	2-LH	10
VAV-163	DESV	14	20x17.5	1200	650	1	0.25	0.14	13	19	RH	1200	48	55	180	91.9	0.13	1.9	128	0.2	2-RH	10
VAV-164	DESV	14	20x17.5	1000	1000	1	0.25	0.1	10	18	RH	1000	31.4	55	180	83.9	0.09	1	115.4	0.07	2-LH	10
VAV-165	DESV	10	14x12.5	1000	230	1	0.25	0.3	19	27	LH	1000	31.9	55	180	84.4	0.29	1.5	136.3	0.2	2-LH	10
VAV-166	DESV	07	12x10	380	110	1	0.25	0.16	17	24	LH	380	12.4	55	180	85	0.11	0.5	129.2	0.07	2-LH	10
VAV-167	DESV	09	14x12.5	700	700	1	0.25	0.19	15	25	LH	700	23.2	55	180	85.5	0.16	1	132.3	0.12	2-LH	10
VAV-168	DESV	09	14x12.5	580	580	1	0.25	0.08	13	23	LH	580	17.1	55	180	82.2	0.06	2.5	166	0.62	1-RH	10
VAV-169	DESV	06	12x8	350	180	1	0.25	0.26	15	23	LH	350	10.5	55	180	82.6	0.16	0.5	136.9	0.06	2-LH	10
VAV-170	DESV	08	12x10	500	500	1	0.25	0.19	17	27	LH	500	19.6	55	180	91	0.18	1	139.8	0.2	2-RH	10

Notes: • Selections are based on Titus as Manufacturer.

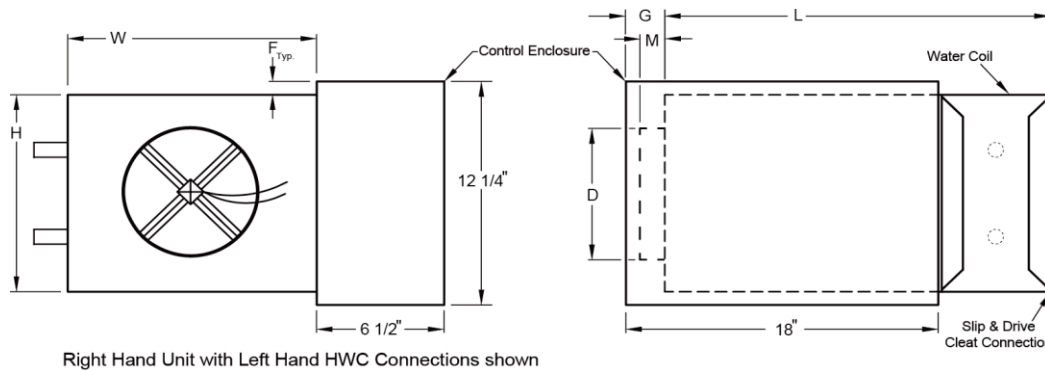
- All performance based on tests conducted in accordance with ASHRAE 130-2008 and AHRI 880-2008.
- All NC levels determined using AHRI 885-2008 Appendix E.
- All airflow, pressure losses and heating performance values have been corrected for altitude.
- Units of measure: dimensions (in), airflow (cfm), water flow (gpm), air pressure (in wg), water head losses (ft) and temperatures (degF).
- Water pressure drop (WPD) units is in ft. water.

# DESV

## Single Duct Terminal Unit, Direct Digital Control, Pressure Independent

**Main Product** **DESV-1**

**DESV**



Air Inlet (D) is 1/8" smaller than its Nom. Inlet.  
 All dimensions are in inches.

Unit-Size	CFM Range	Nom. Inlet	F	G	W	H	M	L
04	0 - 225	4" Dia.	2 1/8"	7 3/8"	12"	8"	5 3/8"	20 1/2"
08	0 - 900	8" Dia.	1 1/8"	7 3/8"	12"	10"	3 3/8"	20 1/2"
10	0 - 1400	10" Dia.	-	5 3/8"	14"	12 1/2"	3 3/8"	20 1/2"
06	0 - 500	6" Dia.	2 1/8"	7 3/8"	12"	8"	3 3/8"	20 1/2"
14	0 - 3000	14" Dia.	-	3 3/8"	20"	17 1/2"	3 3/8"	23"

**General Description** **DESV-1**

- 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.

**Option Schedule** **DESV-1**

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
1	1	VAV-12	04	50	50
26	1	VAV-129	08	250	250

Project UAMS Center for Animal M  
 Architect  
 Engineer  
 Contractor  
 Designation VAVs



Date 09/29/2024  
 Office Powers of Arkansas  
 Preparer Chris Atwood  
 Version 2014.0.570

**Option Schedule (continued) DESV-1**

<b>SENSOR CODE 3 - AEROCROSS</b> <b>UNIT CONFIG 0 -BASIC</b> <b>LINER OPTION 2 -STERILOC</b> <b>CASING CONFIG 0R -STD 22GA RH</b> <b>DIGITAL CONTROLLER 0000 -NONE</b> <b>ACTUATOR TYPE 0000 -NONE</b> <b>CONTROL ACC1 00 -NONE</b> <b>CONTROL ACC2 00 -NONE</b> <b>CONTROL ACC3 00 -NONE</b> <b>UNIT ACC1 A - REMOVABLE FLOW SENSOR</b> <b>UNIT ACC2 B -HANGER BRACKET</b>	<b>UNIT ACC3 E -METAL CTRL ENCLOS</b> <b>UNIT ACC4 D -TOGGLE DISC SW.</b> <b>UNIT ACC5 0 -NONE</b> <b>WATER COIL W21 -1 ROW LH</b> <b>ELECTRIC HEAT TYPE 000 -NONE</b> <b>KW 0</b> <b>ELEC COIL ACC1 0 -NONE</b> <b>ELEC COIL ACC2 0 -NONE</b> <b>ELEC COIL ACC3 0 -NONE</b> <b>ELEC COIL ACC4 0 -NONE</b>
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ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
7	1	VAV-108	08	650	650
9	1	VAV-110	08	500	150
16	1	VAV-119	10	950	950
47	1	VAV-160	10	1000	330
50	1	VAV-164	14	1000	1000

<b>SENSOR CODE 3 - AEROCROSS</b> <b>UNIT CONFIG 0 -BASIC</b> <b>LINER OPTION 2 -STERILOC</b> <b>CASING CONFIG 0R -STD 22GA RH</b> <b>DIGITAL CONTROLLER 0000 -NONE</b> <b>ACTUATOR TYPE 0000 -NONE</b> <b>CONTROL ACC1 00 -NONE</b> <b>CONTROL ACC2 00 -NONE</b> <b>CONTROL ACC3 00 -NONE</b> <b>UNIT ACC1 A - REMOVABLE FLOW SENSOR</b> <b>UNIT ACC2 B -HANGER BRACKET</b>	<b>UNIT ACC3 E -METAL CTRL ENCLOS</b> <b>UNIT ACC4 D -TOGGLE DISC SW.</b> <b>UNIT ACC5 0 -NONE</b> <b>WATER COIL W22 -2 ROW LH</b> <b>ELECTRIC HEAT TYPE 000 -NONE</b> <b>KW 0</b> <b>ELEC COIL ACC1 0 -NONE</b> <b>ELEC COIL ACC2 0 -NONE</b> <b>ELEC COIL ACC3 0 -NONE</b> <b>ELEC COIL ACC4 0 -NONE</b>
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ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
31	1	VAV-134	06	500	500

<b>SENSOR CODE 3 - AEROCROSS</b> <b>UNIT CONFIG 0 -BASIC</b> <b>LINER OPTION 2 -STERILOC</b> <b>CASING CONFIG 0R -STD 22GA RH</b> <b>DIGITAL CONTROLLER 0000 -NONE</b> <b>ACTUATOR TYPE 0000 -NONE</b> <b>CONTROL ACC1 00 -NONE</b> <b>CONTROL ACC2 00 -NONE</b> <b>CONTROL ACC3 00 -NONE</b> <b>UNIT ACC1 A - REMOVABLE FLOW SENSOR</b> <b>UNIT ACC2 B -HANGER BRACKET</b>	<b>UNIT ACC3 E -METAL CTRL ENCLOS</b> <b>UNIT ACC4 D -TOGGLE DISC SW.</b> <b>UNIT ACC5 0 -NONE</b> <b>WATER COIL U22 -2 ROW LH HIGH CAPACITY</b> <b>ELECTRIC HEAT TYPE 000 -NONE</b> <b>KW 0</b> <b>ELEC COIL ACC1 0 -NONE</b> <b>ELEC COIL ACC2 0 -NONE</b> <b>ELEC COIL ACC3 0 -NONE</b> <b>ELEC COIL ACC4 0 -NONE</b>
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**Accessories**

**DESV-1**

**Selected Insulation: SteriLoc**

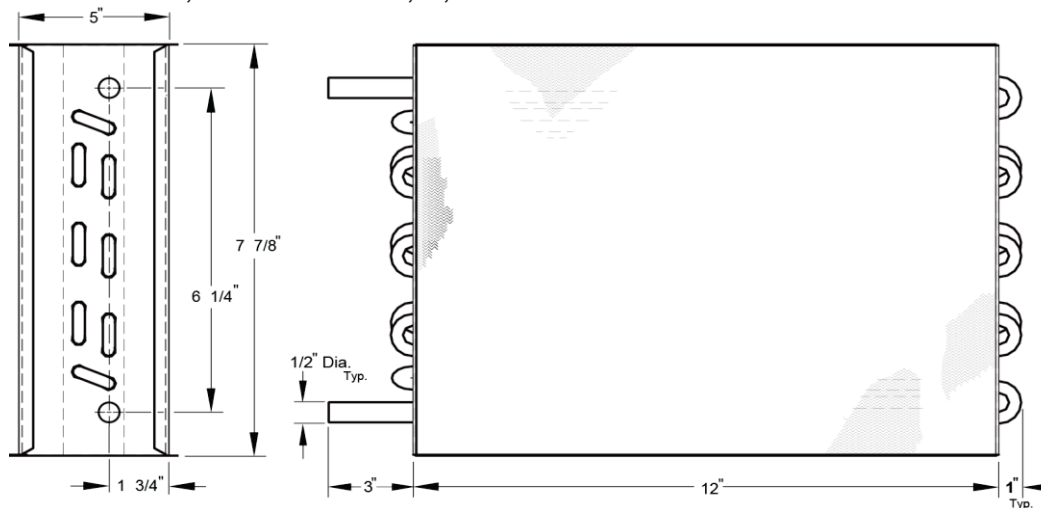
Insulation Characteristics:

Material: SteriLoc  
 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> with 4.0 lbs/ft<sup>3</sup> face  
 Flame Spread: less than 25  
 Smoke Density: less than 50  
 Mold Growth: None

Code Compliances:

UL 723 (NFPA 90A & 90B) - Flame / Smoke Spread (25/50)  
 UL 181 - Air Erosion  
 UL 181 - Mold Growth and Humidity  
 ASTM C 665 – Corrosiveness  
 ASTM 1338 - Fungi Resistance  
 ASTM G 21 - Fungi Resistance  
 ASTM G 22 - Bacteria Resistance

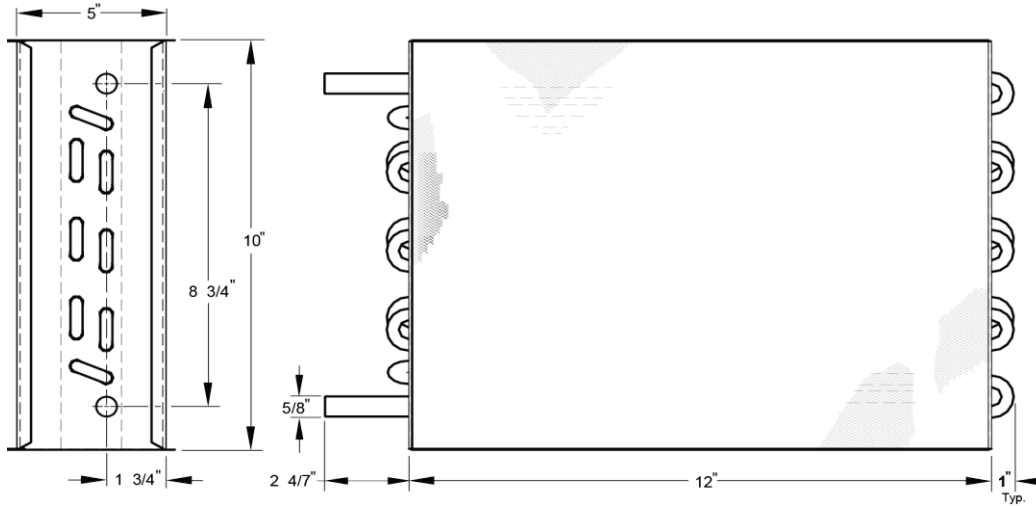
**ESV Hot Water Reheat: 1-Row, Left Hand for size 04, 05, & 06**



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs)	Water Volume (gal)
0.59	0.07

**ESV Hot Water Reheat: 2-Row, Right Hand for size 07, 08, 5E, & 6E**



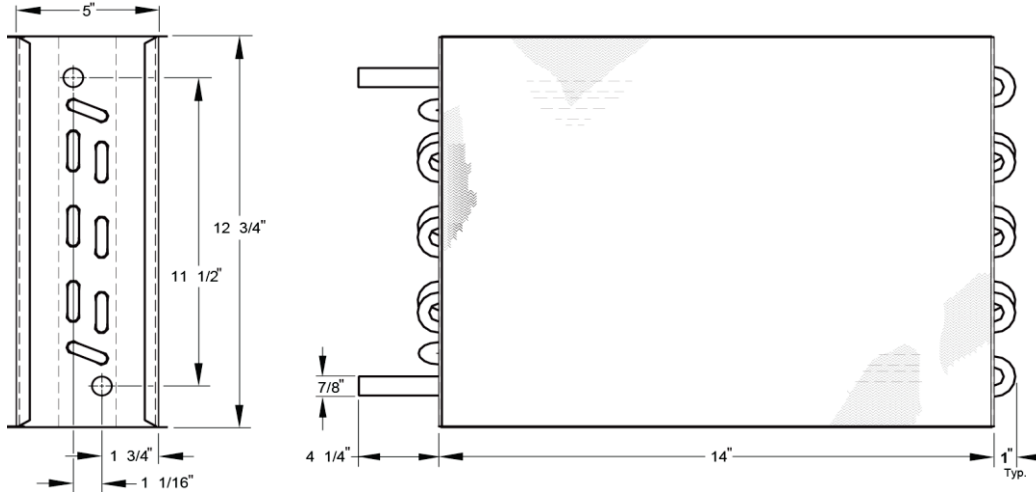
- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
1.82	0.22

Accessories (continued)

DESV-1

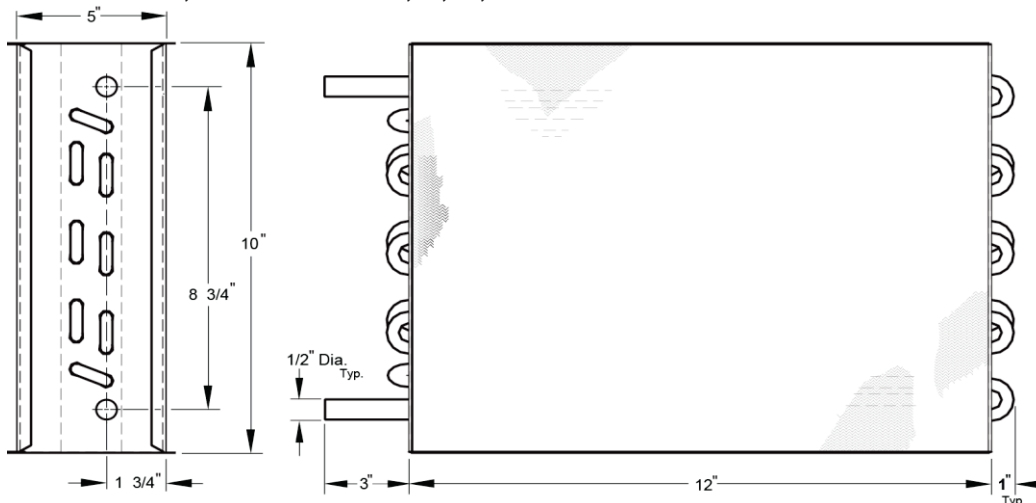
ESV Hot Water Reheat: 2-Row, Right Hand for size 09, 10, 7E, & 8E



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
2.32	0.28

ESV Hot Water Reheat: 1-Row, Left Hand for size 07, 08, 5E, & 6E

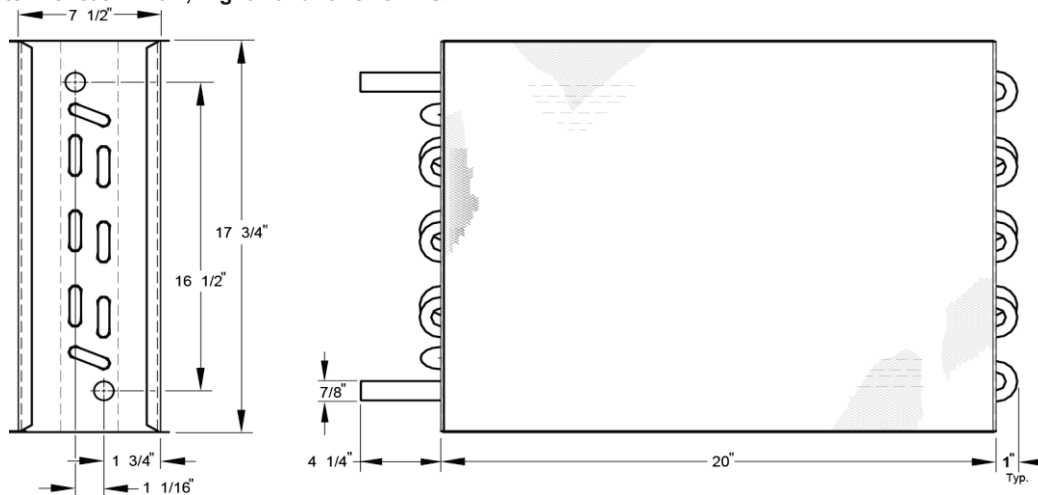


**Accessories (continued) DESV-1**

- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs)	Water Volume (gal)
0.77	0.09

**ESV Hot Water Reheat: 2-Row, Right Hand for size 14 & 2E**



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
4.08	0.49

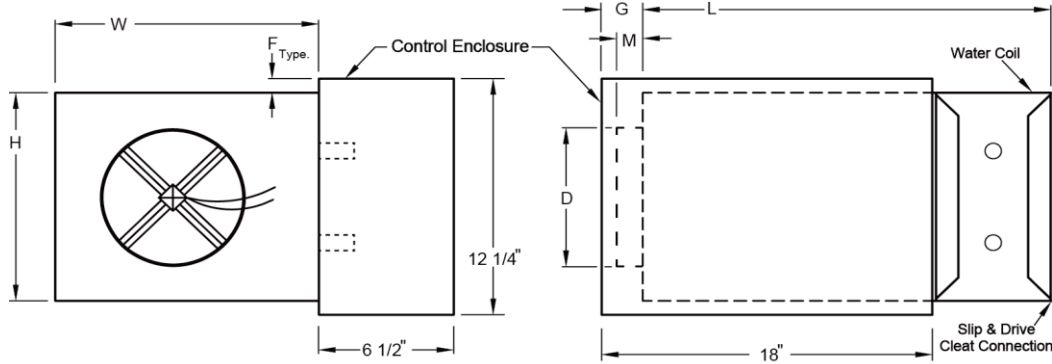


# DESV

## Single Duct Terminal Unit, Direct Digital Control, Pressure Independent

**Main Product** DESV-1 (2)

**DESV**



Right Hand Unit with Right Hand HWC Connections shown

Air Inlet (D) is 1/8" smaller than its Nom. Inlet.  
 All dimensions are in inches.

Unit-Size	CFM Range	Nom. Inlet	F	G	W	H	M	L
06	0 - 500	6" Dia.	2 1/8"	7 3/8"	12"	8"	3 3/8"	20 1/2"
08	0 - 900	8" Dia.	1 1/8"	7 3/8"	12"	10"	3 3/8"	20 1/2"
14	0 - 3000	14" Dia.	-	3 3/8"	20"	17 1/2"	3 3/8"	23"
05	0 - 350	5" Dia.	2 1/8"	7 3/8"	12"	8"	5 3/8"	20 1/2"
09	0 - 1050	9" Dia.	-	5 3/8"	14"	12 1/2"	3 3/8"	20 1/2"
07	0 - 650	7" Dia.	1 1/8"	7 3/8"	12"	10"	3 3/8"	20 1/2"

**General Description** DESV-1 (2)

- 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.

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**Option Schedule** **DESV-1 (2)**

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
2	1	VAV-102	06	250	170
4	1	VAV-105	06	350	350
5	1	VAV-106	08	560	250
6	1	VAV-107	06	350	350
10	1	VAV-111	08	550	150
11	1	VAV-112	14	1400	450
22	1	VAV-125	06	400	400
38	1	VAV-141	06	250	80
44	1	VAV-151	06	350	350
49	1	VAV-163	14	1200	650

<p><b>SENSOR CODE 3 - AEROCROSS</b>  <b>UNIT CONFIG 0 -BASIC</b>  <b>LINER OPTION 2 -STERILOC</b>  <b>CASING CONFIG 0R -STD 22GA RH</b>  <b>DIGITAL CONTROLLER 0000 -NONE</b>  <b>ACTUATOR TYPE 0000 -NONE</b>  <b>CONTROL ACC1 00 -NONE</b>  <b>CONTROL ACC2 00 -NONE</b>  <b>CONTROL ACC3 00 -NONE</b>  <b>UNIT ACC1 A - REMOVABLE FLOW SENSOR</b>  <b>UNIT ACC2 B -HANGER BRACKET</b></p>	<p><b>UNIT ACC3 E -METAL CTRL ENCLOS</b>  <b>UNIT ACC4 D -TOGGLE DISC SW.</b>  <b>UNIT ACC5 0 -NONE</b>  <b>WATER COIL W12 -2 ROW RH</b>  <b>ELECTRIC HEAT TYPE 000 -NONE</b>  <b>KW 0</b>  <b>ELEC COIL ACC1 0 -NONE</b>  <b>ELEC COIL ACC2 0 -NONE</b>  <b>ELEC COIL ACC3 0 -NONE</b>  <b>ELEC COIL ACC4 0 -NONE</b></p>
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ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
25	1	VAV-128	05	175	70
33	1	VAV-136	09	600	600
45	1	VAV-152	07	450	90

<p><b>SENSOR CODE 3 - AEROCROSS</b>  <b>UNIT CONFIG 0 -BASIC</b>  <b>LINER OPTION 2 -STERILOC</b>  <b>CASING CONFIG 0R -STD 22GA RH</b>  <b>DIGITAL CONTROLLER 0000 -NONE</b>  <b>ACTUATOR TYPE 0000 -NONE</b>  <b>CONTROL ACC1 00 -NONE</b>  <b>CONTROL ACC2 00 -NONE</b>  <b>CONTROL ACC3 00 -NONE</b>  <b>UNIT ACC1 A - REMOVABLE FLOW SENSOR</b>  <b>UNIT ACC2 B -HANGER BRACKET</b></p>	<p><b>UNIT ACC3 E -METAL CTRL ENCLOS</b>  <b>UNIT ACC4 D -TOGGLE DISC SW.</b>  <b>UNIT ACC5 0 -NONE</b>  <b>WATER COIL W11 -1 ROW RH</b>  <b>ELECTRIC HEAT TYPE 000 -NONE</b>  <b>KW 0</b>  <b>ELEC COIL ACC1 0 -NONE</b>  <b>ELEC COIL ACC2 0 -NONE</b>  <b>ELEC COIL ACC3 0 -NONE</b>  <b>ELEC COIL ACC4 0 -NONE</b></p>
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ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
29	1	VAV-132	06	500	500

**Project** UAMS Center for Animal M  
**Architect**  
**Engineer**  
**Contractor**  
**Designation** VAVs



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**Preparer** Chris Atwood  
**Version** 2014.0.570

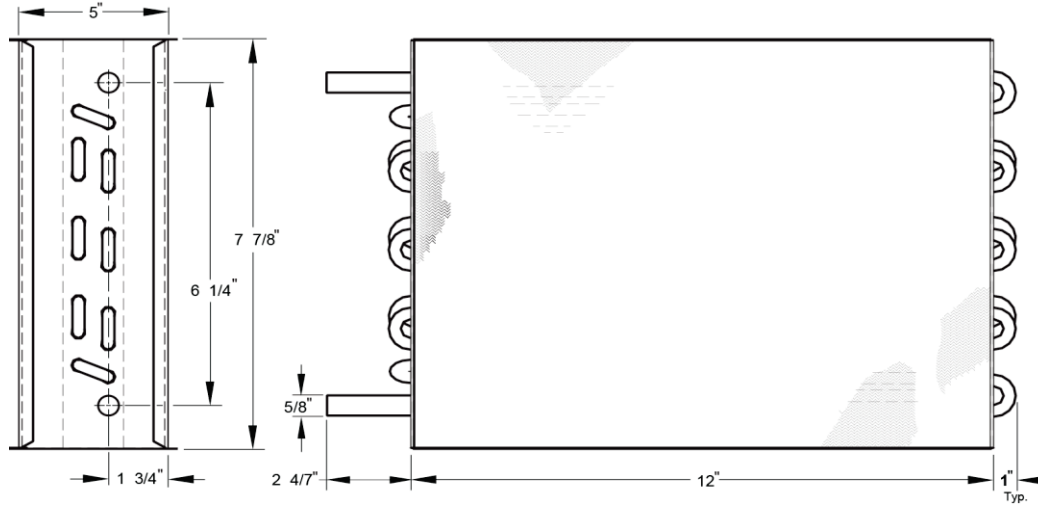
Option Schedule (continued)	DESV-1 (2)
<b>SENSOR CODE</b> 3 - AEROCROSS <b>UNIT CONFIG</b> 0 -BASIC <b>LINER OPTION</b> 2 -STERILOC <b>CASING CONFIG</b> 0R -STD 22GA RH <b>DIGITAL CONTROLLER</b> 0000 -NONE <b>ACTUATOR TYPE</b> 0000 -NONE <b>CONTROL ACC1</b> 00 -NONE <b>CONTROL ACC2</b> 00 -NONE <b>CONTROL ACC3</b> 00 -NONE <b>UNIT ACC1</b> A - REMOVABLE FLOW SENSOR <b>UNIT ACC2</b> B -HANGER BRACKET	<b>UNIT ACC3</b> E -METAL CTRL ENCLOS <b>UNIT ACC4</b> D -TOGGLE DISC SW. <b>UNIT ACC5</b> 0 -NONE <b>WATER COIL</b> U12 -2 ROW RH HIGH CAPACITY <b>ELECTRIC HEAT TYPE</b> 000 -NONE <b>KW</b> 0 <b>ELEC COIL ACC1</b> 0 -NONE <b>ELEC COIL ACC2</b> 0 -NONE <b>ELEC COIL ACC3</b> 0 -NONE <b>ELEC COIL ACC4</b> 0 -NONE

Accessories	DESV-1 (2)
<b>Selected Insulation: SteriLoc</b> Insulation Characteristics: Material: SteriLoc Thickness: 13/16 inch R-Value: 3.5 ft2 °F h/Btu @ 75°F Density: 4.0 lbs/ft3 with 4.0 lbs/ft3 face Flame Spread: less than 25 Smoke Density: less than 50 Mold Growth: None  Code Compliances: UL 723 (NFPA 90A & 90B) - Flame / Smoke Spread (25/50) UL 181 - Air Erosion UL 181 - Mold Growth and Humidity ASTM C 665 – Corrosiveness ASTM 1338 - Fungi Resistance ASTM G 21 - Fungi Resistance ASTM G 22 - Bacteria Resistance	

**Accessories (continued)**

**DESV-1 (2)**

**ESV Hot Water Reheat: 2-Row, Right Hand for size 04, 05, & 06**



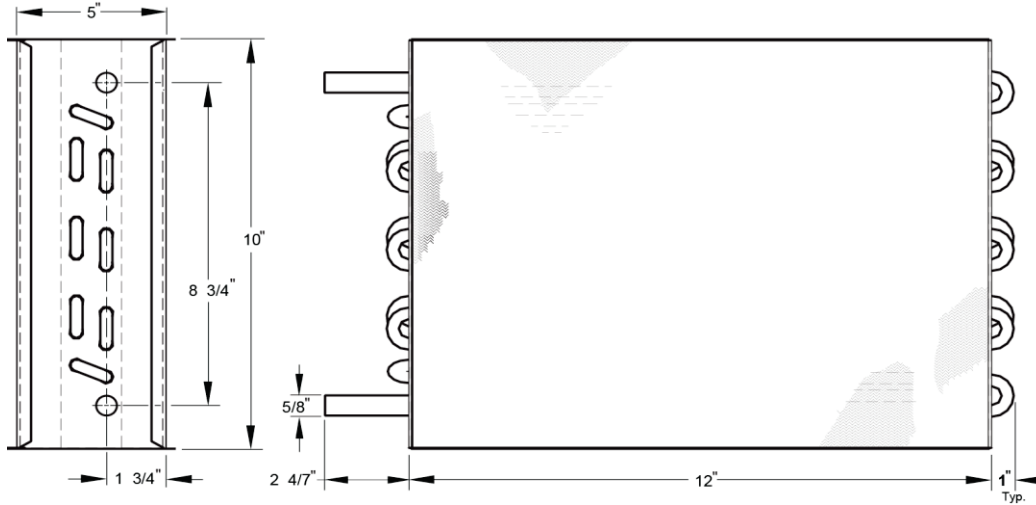
- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
1.26	0.15

Accessories (continued)

DESV-1 (2)

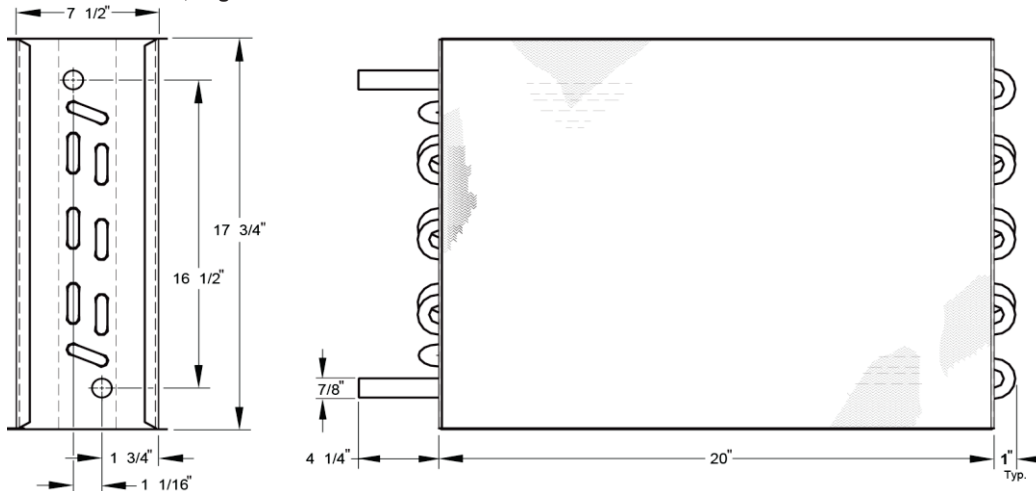
ESV Hot Water Reheat: 2-Row, Right Hand for size 07, 08, 5E, & 6E



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
1.82	0.22

ESV Hot Water Reheat: 2-Row, Right Hand for size 14 & 2E

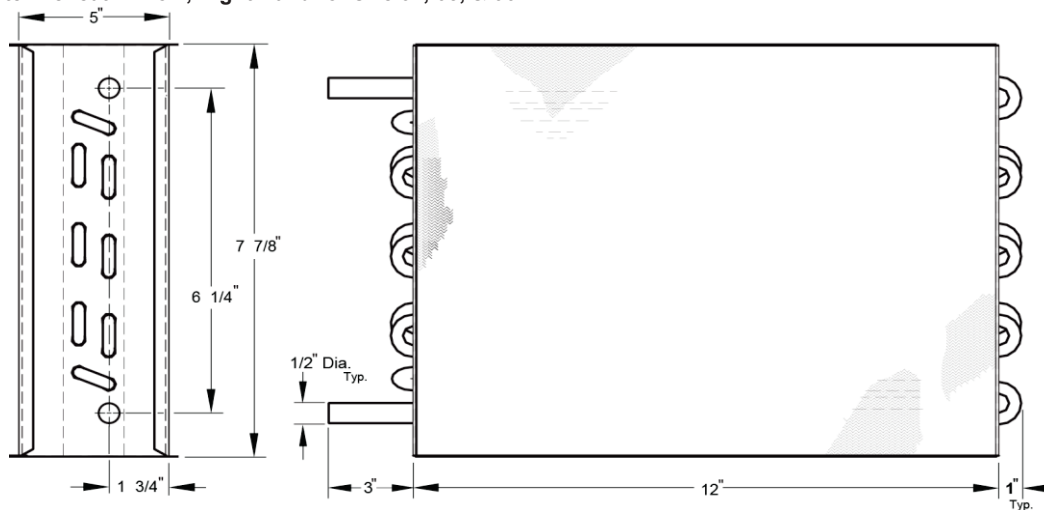


**Accessories (continued) DESV-1 (2)**

- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
4.08	0.49

**ESV Hot Water Reheat: 1-Row, Right Hand for size 04, 05, & 06**



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs)	Water Volume (gal)
0.59	0.07

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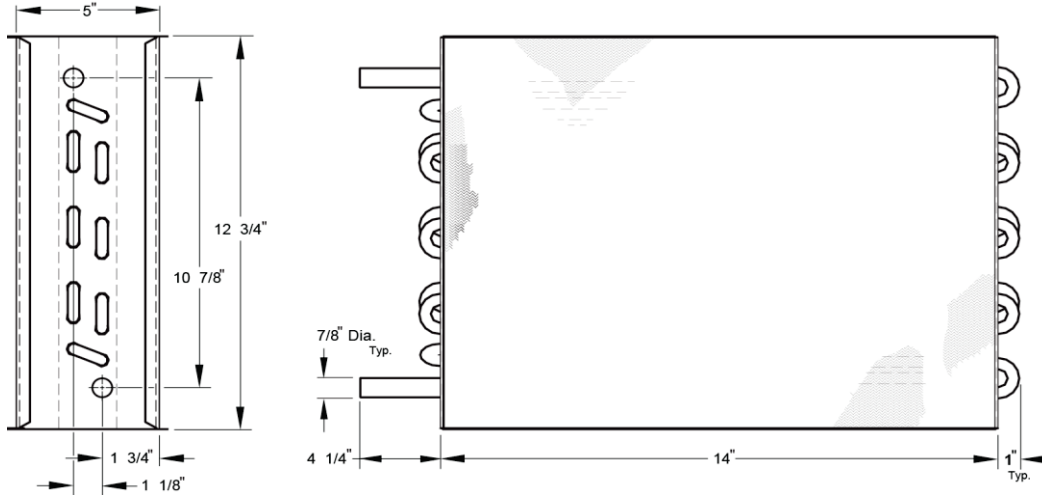


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Accessories (continued)

DESV-1 (2)

ESV Hot Water Reheat: 1-Row, Right Hand for size 09 & 10



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs)	Water Volume (gal)
1.17	0.14

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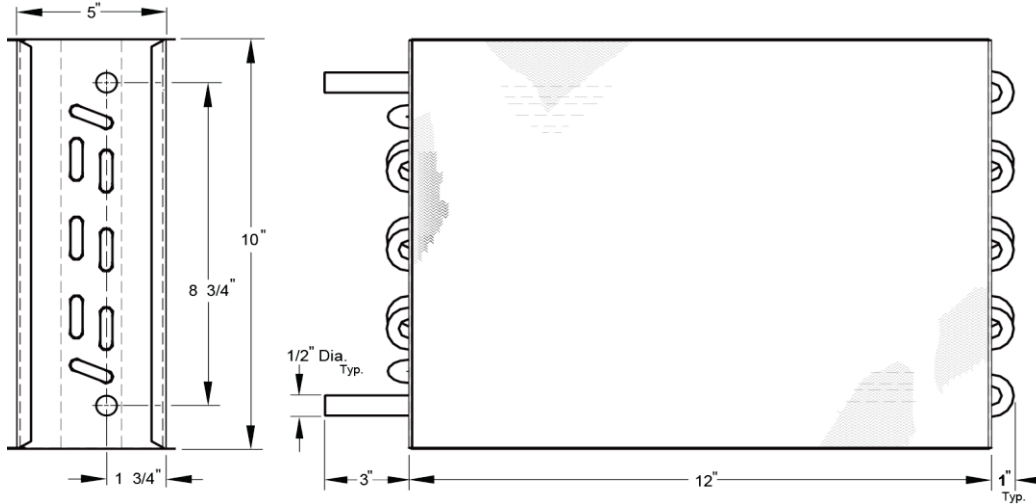


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Accessories (continued)

DES-1 (2)

ESV Hot Water Reheat: 1-Row, Right Hand for size 07, 08, 5E, & 6E



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

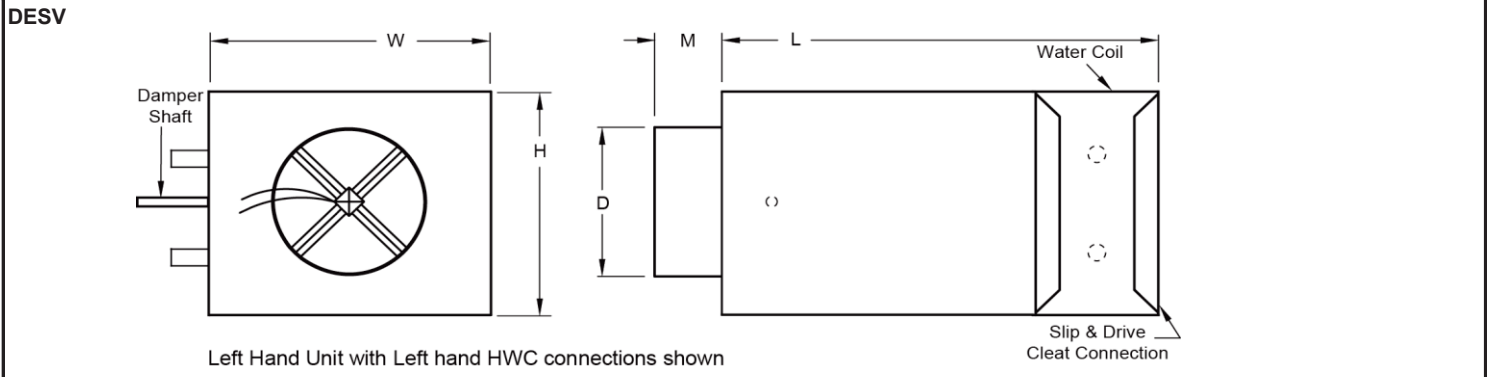
Water Weigth (lbs)	Water Volume (gal)
.77	.09



# DESV

## Single Duct Terminal Unit, Direct Digital Control, Pressure Independent

**Main Product** DESV-1 (3)



Air Inlet (D) is 1/8" smaller than its Nom. Inlet.  
 All dimensions are in inches.

Unit-Size	CFM Range	Nom. Inlet	W	H	M	L
06	0 - 500	6" Dia.	12"	8"	3 3/8"	20 1/2"
10	0 - 1400	10" Dia.	14"	12 1/2"	3 3/8"	20 1/2"
07	0 - 650	7" Dia.	12"	10"	3 3/8"	20 1/2"
08	0 - 900	8" Dia.	12"	10"	3 3/8"	20 1/2"
09	0 - 1050	9" Dia.	14"	12 1/2"	3 3/8"	20 1/2"
05	0 - 350	5" Dia.	12"	8"	5 3/8"	20 1/2"
04	0 - 225	4" Dia.	12"	8"	5 3/8"	20 1/2"

**General Description** DESV-1 (3)

- 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.

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**Option Schedule** **DESV-1 (3)**

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
3	1	VAV-103	06	350	80
12	1	VAV-113	10	900	230
13	1	VAV-116	07	400	400
14	1	VAV-117	08	550	210
15	1	VAV-118	06	350	350
17	1	VAV-120	06	350	350
20	1	VAV-123	08	500	90
21	1	VAV-124	06	300	70
23	1	VAV-126	09	375	375
24	1	VAV-127	06	350	80
34	1	VAV-137	05	220	220
35	1	VAV-138	07	400	170
36	1	VAV-139	05	220	220
37	1	VAV-140	06	350	350
39	1	VAV-143	08	500	500
40	1	VAV-144	09	680	340
48	1	VAV-161	10	880	230
51	1	VAV-165	10	1000	230
52	1	VAV-166	07	380	110
53	1	VAV-167	09	700	700
57	1	VAV-169	06	350	180

<p><b>SENSOR CODE 3 - AEROCROSS</b>  <b>UNIT CONFIG 0 -BASIC</b>  <b>LINER OPTION 2 -STERILOC</b>  <b>CASING CONFIG 0L -STD 22GA LH</b>  <b>DIGITAL CONTROLLER 0000 -NONE</b>  <b>ACTUATOR TYPE 0000 -NONE</b>  <b>CONTROL ACC1 00 -NONE</b>  <b>CONTROL ACC2 00 -NONE</b>  <b>CONTROL ACC3 00 -NONE</b>  <b>UNIT ACC1 A - REMOVABLE FLOW SENSOR</b>  <b>UNIT ACC2 B -HANGER BRACKET</b></p>	<p><b>UNIT ACC3 E -METAL CTRL ENCLOS</b>  <b>UNIT ACC4 D -TOGGLE DISC SW.</b>  <b>UNIT ACC5 0 -NONE</b>  <b>WATER COIL W22 -2 ROW LH</b>  <b>ELECTRIC HEAT TYPE 000 -NONE</b>  <b>KW 0</b>  <b>ELEC COIL ACC1 0 -NONE</b>  <b>ELEC COIL ACC2 0 -NONE</b>  <b>ELEC COIL ACC3 0 -NONE</b>  <b>ELEC COIL ACC4 0 -NONE</b></p>
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ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
18	1	VAV-121	08	720	250
27	1	VAV-130	08	500	500
30	1	VAV-133	06	500	500

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**Option Schedule (continued) DESV-1 (3)**

<p><b>SENSOR CODE</b> 3 - AEROCROSS  <b>UNIT CONFIG</b> 0 -BASIC  <b>LINER OPTION</b> 2 -STERILOC  <b>CASING CONFIG</b> 0L -STD 22GA LH  <b>DIGITAL CONTROLLER</b> 0000 -NONE  <b>ACTUATOR TYPE</b> 0000 -NONE  <b>CONTROL ACC1</b> 00 -NONE  <b>CONTROL ACC2</b> 00 -NONE  <b>CONTROL ACC3</b> 00 -NONE  <b>UNIT ACC1</b> A - REMOVABLE FLOW SENSOR  <b>UNIT ACC2</b> B -HANGER BRACKET</p>	<p><b>UNIT ACC3</b> E -METAL CTRL ENCLOS  <b>UNIT ACC4</b> D -TOGGLE DISC SW.  <b>UNIT ACC5</b> 0 -NONE  <b>WATER COIL</b> U22 -2 ROW LH HIGH CAPACITY  <b>ELECTRIC HEAT TYPE</b> 000 -NONE  <b>KW</b> 0  <b>ELEC COIL ACC1</b> 0 -NONE  <b>ELEC COIL ACC2</b> 0 -NONE  <b>ELEC COIL ACC3</b> 0 -NONE  <b>ELEC COIL ACC4</b> 0 -NONE</p>
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ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
42	1	VAV-148	04	50	50

<p><b>SENSOR CODE</b> 3 - AEROCROSS  <b>UNIT CONFIG</b> 0 -BASIC  <b>LINER OPTION</b> 2 -STERILOC  <b>CASING CONFIG</b> 0L -STD 22GA LH  <b>DIGITAL CONTROLLER</b> 0000 -NONE  <b>ACTUATOR TYPE</b> 0000 -NONE  <b>CONTROL ACC1</b> 00 -NONE  <b>CONTROL ACC2</b> 00 -NONE  <b>CONTROL ACC3</b> 00 -NONE  <b>UNIT ACC1</b> A - REMOVABLE FLOW SENSOR  <b>UNIT ACC2</b> B -HANGER BRACKET</p>	<p><b>UNIT ACC3</b> E -METAL CTRL ENCLOS  <b>UNIT ACC4</b> D -TOGGLE DISC SW.  <b>UNIT ACC5</b> 0 -NONE  <b>WATER COIL</b> W21 -1 ROW LH  <b>ELECTRIC HEAT TYPE</b> 000 -NONE  <b>KW</b> 0  <b>ELEC COIL ACC1</b> 0 -NONE  <b>ELEC COIL ACC2</b> 0 -NONE  <b>ELEC COIL ACC3</b> 0 -NONE  <b>ELEC COIL ACC4</b> 0 -NONE</p>
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**Accessories**

**DESV-1 (3)**

**Selected Insulation: SteriLoc**

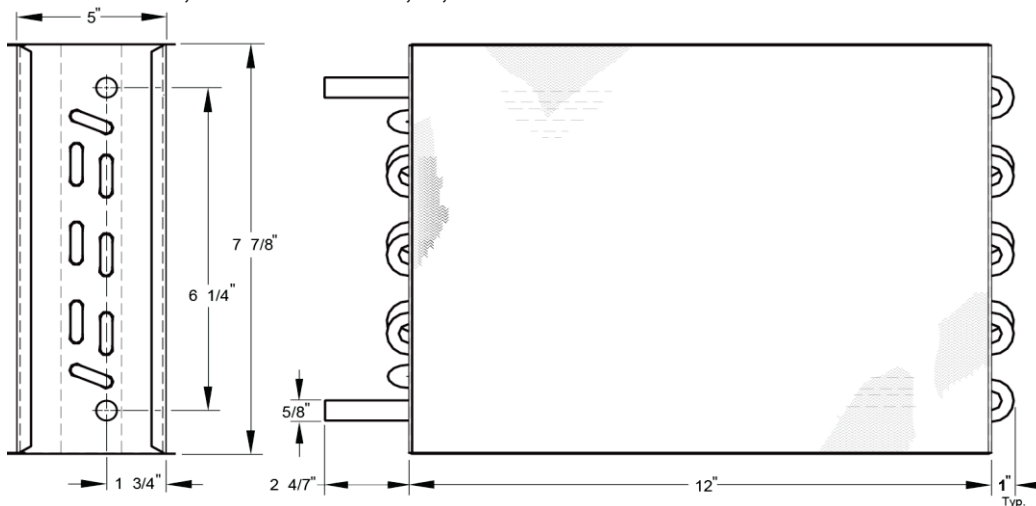
Insulation Characteristics:

Material: SteriLoc  
 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> with 4.0 lbs/ft<sup>3</sup> face  
 Flame Spread: less than 25  
 Smoke Density: less than 50  
 Mold Growth: None

Code Compliances:

UL 723 (NFPA 90A & 90B) - Flame / Smoke Spread (25/50)  
 UL 181 - Air Erosion  
 UL 181 - Mold Growth and Humidity  
 ASTM C 665 – Corrosiveness  
 ASTM 1338 - Fungi Resistance  
 ASTM G 21 - Fungi Resistance  
 ASTM G 22 - Bacteria Resistance

**ESV Hot Water Reheat: 2-Row, Left Hand for size 04, 05, & 06**

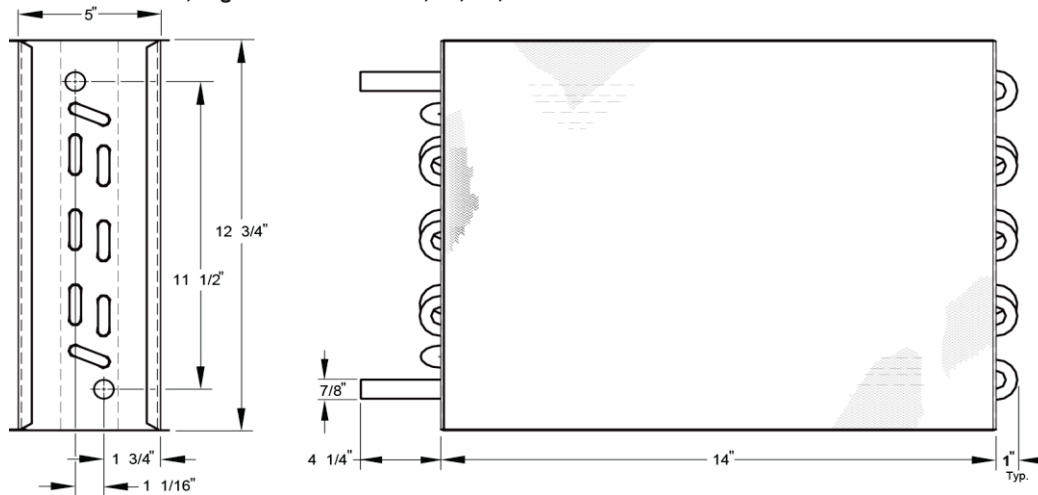


- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

**Accessories (continued) DESV-1 (3)**

Water Weight (lbs)	Water Volume (gal)
1.26	0.15

**ESV Hot Water Reheat: 2-Row, Right Hand for size 09, 10, 7E, & 8E**



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
2.32	0.28

Project UAMS Center for Animal M  
 Architect  
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 Contractor  
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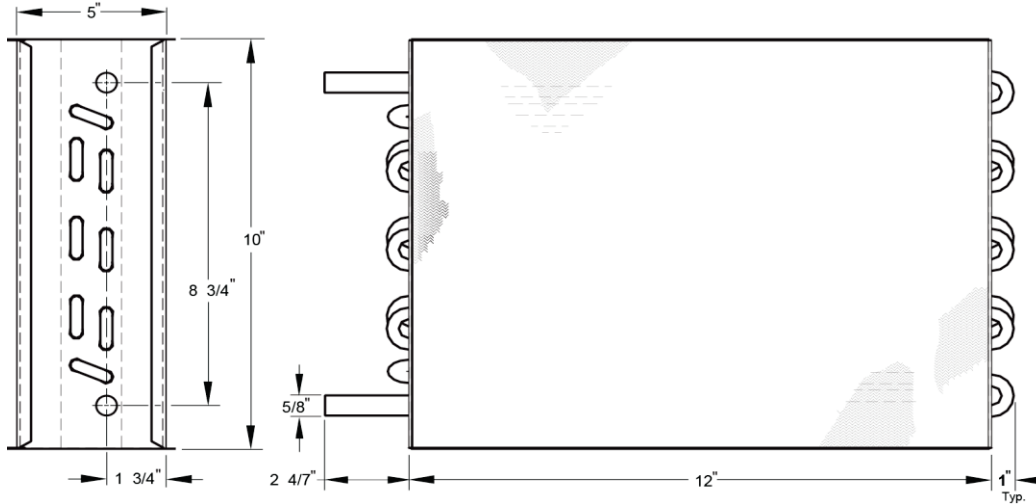


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Accessories (continued)

DESV-1 (3)

ESV Hot Water Reheat: 2-Row, Right Hand for size 07, 08, 5E, & 6E



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
1.82	0.22

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 Contractor  
 Designation VAVs

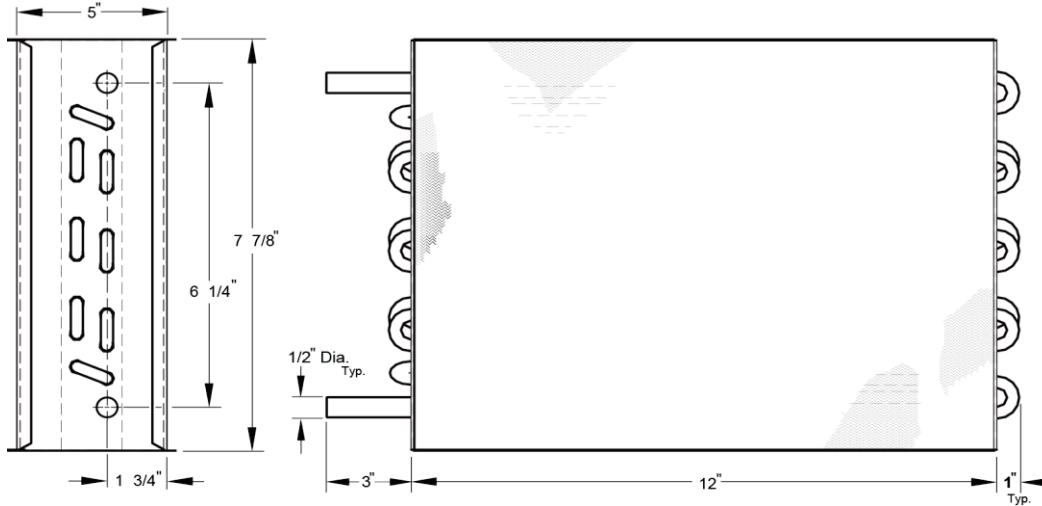


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 Version 2014.0.570

Accessories (continued)

DES-1 (3)

ESV Hot Water Reheat: 1-Row, Left Hand for size 04, 05, & 06



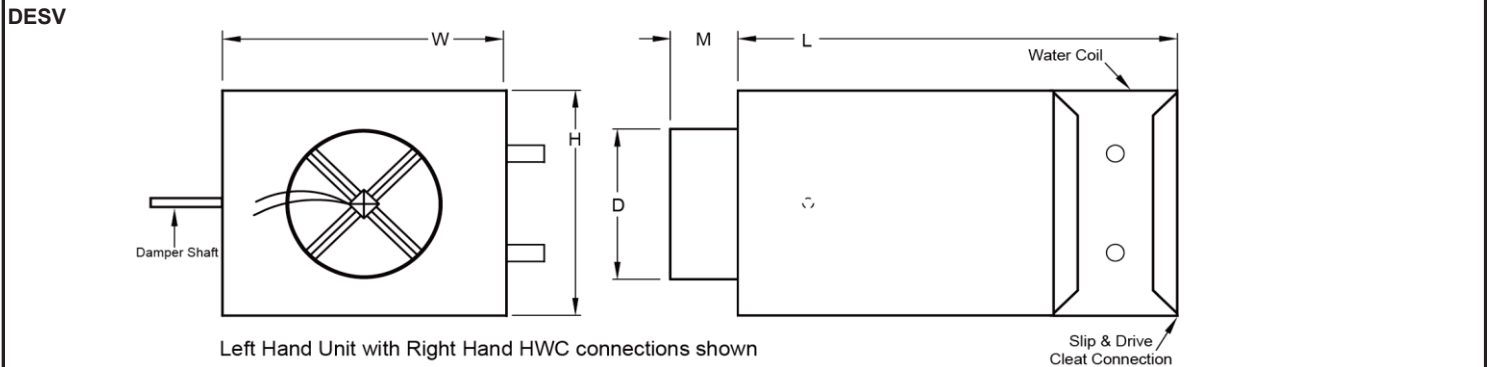
- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs)	Water Volume (gal)
0.59	0.07

# DESV

## Single Duct Terminal Unit, Direct Digital Control, Pressure Independent

**Main Product** **DESV-1 (4)**



Air Inlet (D) is 1/8" smaller than its Nom. Inlet.  
 All dimensions are in inches.

Unit-Size	Nom. Inlet	W	H	M	L
08	8" Dia.	12"	10"	3 3/8"	20 1/2"
07	7" Dia.	12"	10"	3 3/8"	20 1/2"
10	10" Dia.	14"	12 1/2"	3 3/8"	20 1/2"
06	6" Dia.	12"	8"	3 3/8"	20 1/2"
09	9" Dia.	14"	12 1/2"	3 3/8"	20 1/2"

**General Description** **DESV-1 (4)**

- 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.

**Option Schedule** **DESV-1 (4)**

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
8	1	VAV-109	08	500	0
19	1	VAV-122	07	400	400
28	1	VAV-131	10	975	975
41	1	VAV-145	07	420	420
43	1	VAV-149	08	500	0
58	1	VAV-170	08	500	500



**Project** UAMS Center for Animal M  
**Architect**  
**Engineer**  
**Contractor**  
**Designation** VAVs



**Date** 09/29/2024  
**Office** Powers of Arkansas  
**Preparer** Chris Atwood  
**Version** 2014.0.570

**SENSOR CODE** 3 - AEROCROSS  
**UNIT CONFIG** 0 -BASIC  
**LINER OPTION** 2 -STERILOC  
**CASING CONFIG** 0L -STD 22GA LH  
**DIGITAL CONTROLLER** 0000 -NONE  
**ACTUATOR TYPE** 0000 -NONE  
**CONTROL ACC1** 00 -NONE  
**CONTROL ACC2** 00 -NONE  
**CONTROL ACC3** 00 -NONE  
**UNIT ACC1** A - REMOVABLE FLOW SENSOR  
**UNIT ACC2** B -HANGER BRACKET  
**UNIT ACC3** E -METAL CTRL ENCLOS  
**UNIT ACC4** D -TOGGLE DISC SW.  
**UNIT ACC5** 0 -NONE  
**WATER COIL** W12 -2 ROW RH  
**ELECTRIC HEAT TYPE** 000 -NONE  
**KW** 0  
**ELEC COIL ACC1** 0 -NONE  
**ELEC COIL ACC2** 0 -NONE  
**ELEC COIL ACC3** 0 -NONE  
**ELEC COIL ACC4** 0 -NONE

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
32	1	VAV-135	06	250	250
46	1	VAV-153	07	450	90
54	1	VAV-168	09	580	580

**SENSOR CODE** 3 - AEROCROSS  
**UNIT CONFIG** 0 -BASIC  
**LINER OPTION** 2 -STERILOC  
**CASING CONFIG** 0L -STD 22GA LH  
**DIGITAL CONTROLLER** 0000 -NONE  
**ACTUATOR TYPE** 0000 -NONE  
**CONTROL ACC1** 00 -NONE  
**CONTROL ACC2** 00 -NONE  
**CONTROL ACC3** 00 -NONE  
**UNIT ACC1** A - REMOVABLE FLOW SENSOR  
**UNIT ACC2** B -HANGER BRACKET  
**UNIT ACC3** E -METAL CTRL ENCLOS  
**UNIT ACC4** D -TOGGLE DISC SW.  
**UNIT ACC5** 0 -NONE  
**WATER COIL** W11 -1 ROW RH  
**ELECTRIC HEAT TYPE** 000 -NONE  
**KW** 0  
**ELEC COIL ACC1** 0 -NONE  
**ELEC COIL ACC2** 0 -NONE  
**ELEC COIL ACC3** 0 -NONE  
**ELEC COIL ACC4** 0 -NONE

**Accessories**

**DESV-1 (4)**

**Selected Insulation: SteriLoc**

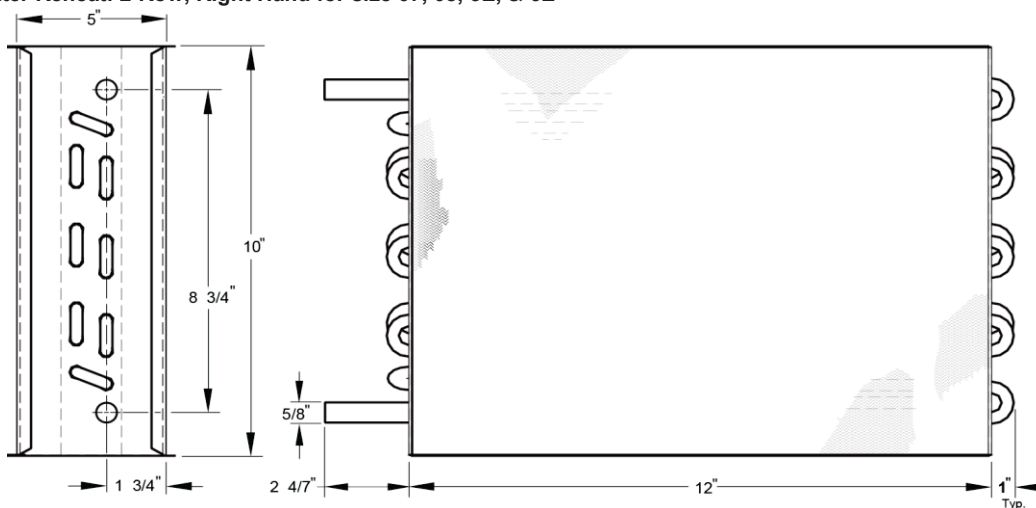
Insulation Characteristics:

Material: SteriLoc  
 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> with 4.0 lbs/ft<sup>3</sup> face  
 Flame Spread: less than 25  
 Smoke Density: less than 50  
 Mold Growth: None

Code Compliances:

UL 723 (NFPA 90A & 90B) - Flame / Smoke Spread (25/50)  
 UL 181 - Air Erosion  
 UL 181 - Mold Growth and Humidity  
 ASTM C 665 – Corrosiveness  
 ASTM 1338 - Fungi Resistance  
 ASTM G 21 - Fungi Resistance  
 ASTM G 22 - Bacteria Resistance

**ESV Hot Water Reheat: 2-Row, Right Hand for size 07, 08, 5E, & 6E**

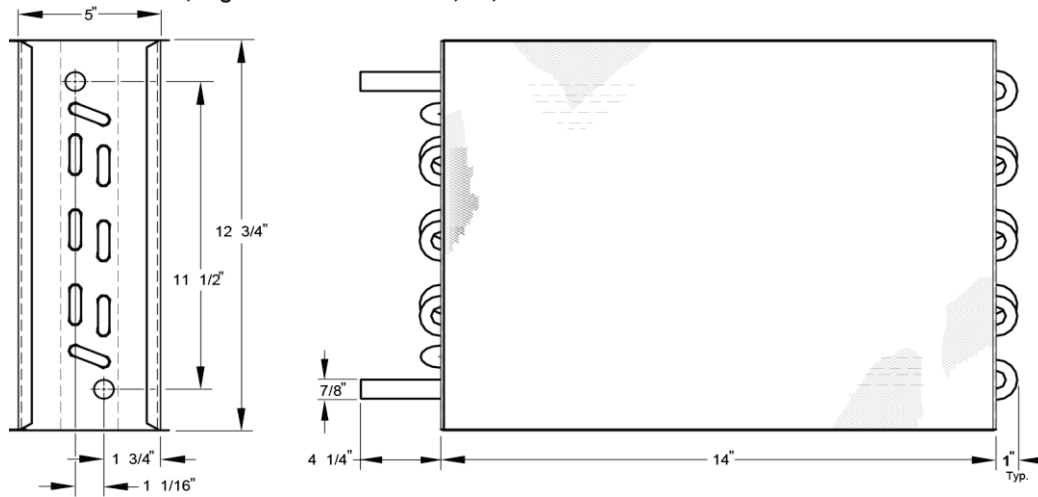


- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

**Accessories (continued) DESV-1 (4)**

Water Weight (lbs.)	Water Volume (gal)
1.82	0.22

**ESV Hot Water Reheat: 2-Row, Right Hand for size 09 10, 7E, & 8E**



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
2.32	0.28

Project UAMS Center for Animal M  
 Architect  
 Engineer  
 Contractor  
 Designation VAVs

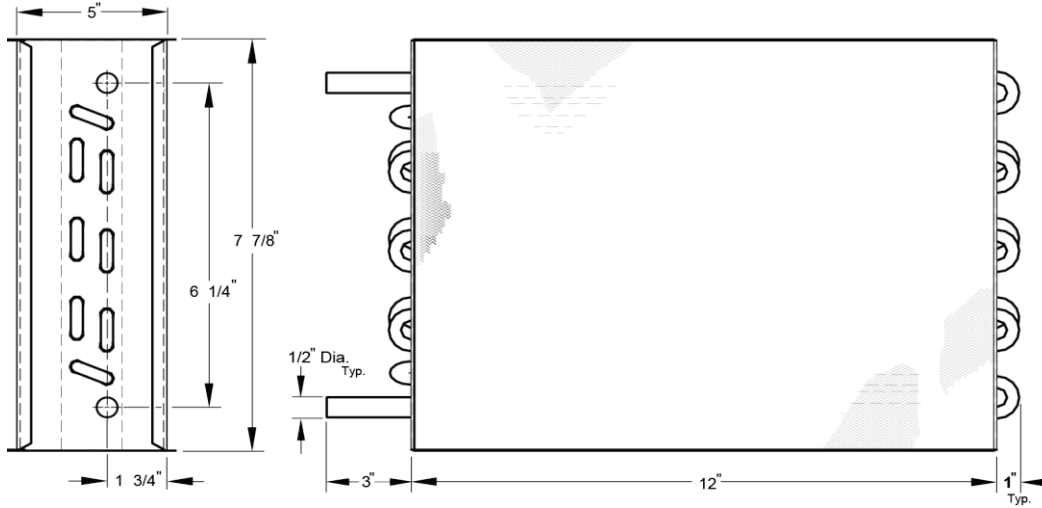


Date 09/29/2024  
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 Preparer Chris Atwood  
 Version 2014.0.570

Accessories (continued)

DESV-1 (4)

ESV Hot Water Reheat: 1-Row, Right Hand for size 04, 05, & 06



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs)	Water Volume (gal)
0.59	0.07

Project UAMS Center for Animal M  
 Architect  
 Engineer  
 Contractor  
 Designation VAVs

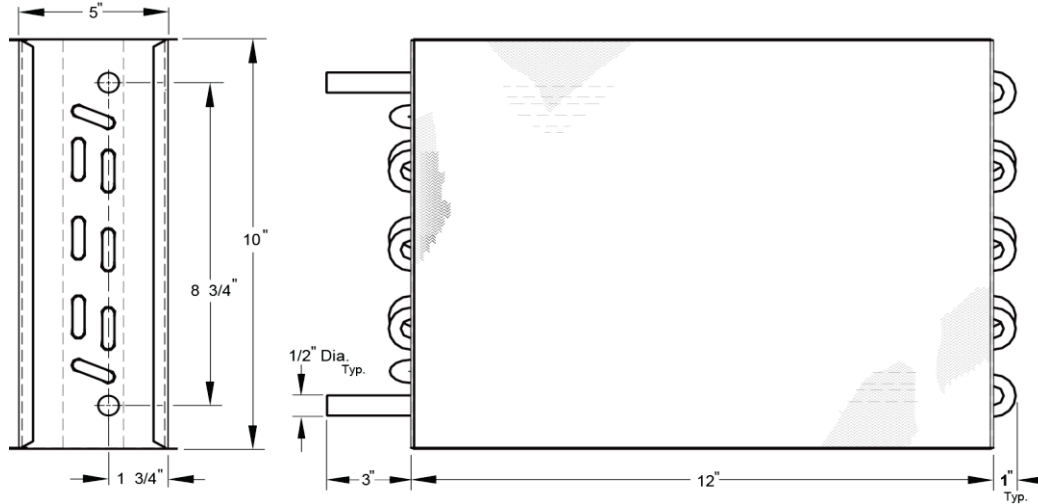


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 Office Powers of Arkansas  
 Preparer Chris Atwood  
 Version 2014.0.570

Accessories (continued)

DESV-1 (4)

ESV Hot Water Reheat: 1-Row, Right Hand for size 07, 08, 5E, & 6E



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weigth (lbs)	Water Volume (gal)
.77	.09

Project UAMS Center for Animal M  
 Architect  
 Engineer  
 Contractor  
 Designation VAVs

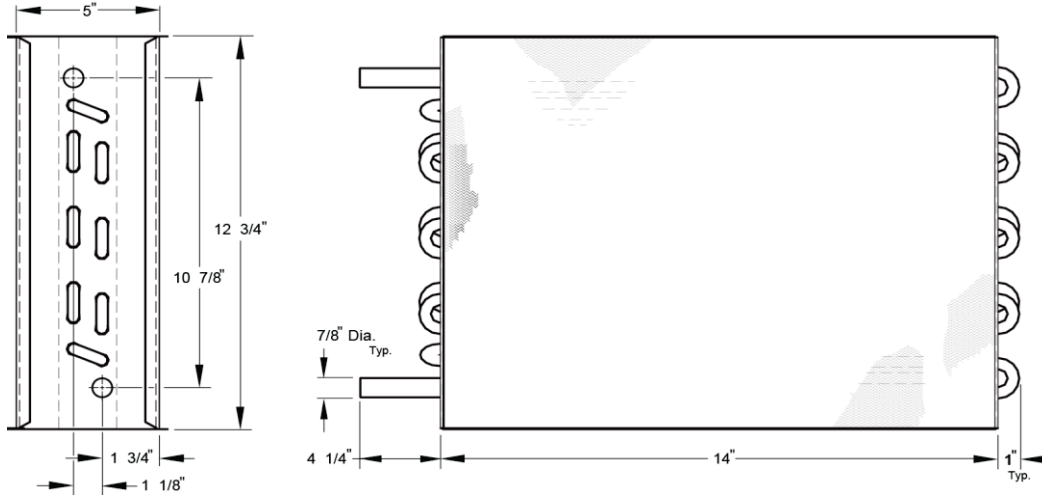


Date 09/29/2024  
 Office Powers of Arkansas  
 Preparer Chris Atwood  
 Version 2014.0.570

Accessories (continued)

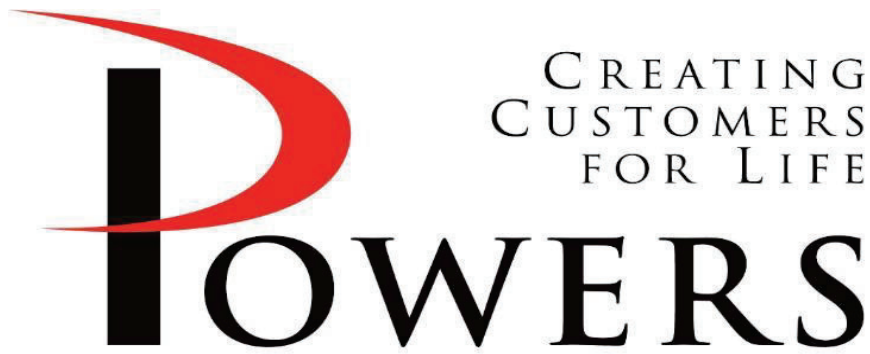
DES-1 (4)

ESV Hot Water Reheat: 1-Row, Right Hand for size 09 & 10



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs)	Water Volume (gal)
1.17	0.14



# SUBMITTAL

<b>PRODUCT</b>	Exhaust Air Terminals
<b>MANUFACTURER</b>	Titus
<b>JOB NAME</b>	UAMS Center for Animal Models of Infection & Disease
<b>LOCATION</b>	Little Rock, AR
<b>ENGINEER</b>	James R. Beecher
<b>CONTRACTOR</b>	Middleton Inc.
<b>DATE</b>	10/16/2024
<b>SUBMITTED BY</b>	Chris Atwood

5440 Northshore Drive - North Little Rock, Arkansas 72118 - Tel: 501.374.5420 Fax: 501.370.9298

## Schedule



**Date/Time:** 09/29/2024 15:54:16  
**Job:** UAMS Center for Animal Models of Infect  
**Project:**  
**Customer:**  
**Sales Person:**

Current Version: 2014.0.570  
 Modified Version: 2014.0.570

Model	Quantity	Tag	Unit Config	Liner Option	Unit Size	Casing Config	Controller	Actuator Type	Max Primary CFM	Min Primary CFM	Control Acc1	Control Acc2	Control Acc3	Unit Acc1	Unit Acc2	Unit Acc3	Unit Acc4	Unit Acc5	Water Coil	Electric Heat	KW	Elec Coil Acc1	Elec Coil Acc2	Elec Coil Acc3	Elec Coil Acc4	Comments	
DECV	1	EAV-12	0 - BASIC	0 - STANDARD	06	0L - STD 22GA LH	0000 - NONE	0000 - NONE	250	250	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	0 - NONE									
DECV	1	EAV-102	0 - BASIC	0 - STANDARD	06	0R - STD 22GA RH	0000 - NONE	0000 - NONE	150	70	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	0 - NONE									
DECV	1	EAV-103	0 - BASIC	0 - STANDARD	06	0L - STD 22GA LH	0000 - NONE	0000 - NONE	250	80	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	0 - NONE									
DECV	1	EAV-104	0 - BASIC	0 - STANDARD	05	0L - STD 22GA LH	0000 - NONE	0000 - NONE	200	200	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	0 - NONE									
DECV	1	EAV-105	0 - BASIC	0 - STANDARD	07	0L - STD 22GA LH	0000 - NONE	0000 - NONE	450	450	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	0 - NONE									
DECV	1	EAV-106	0 - BASIC	0 - STANDARD	08	0L - STD 22GA LH	0000 - NONE	0000 - NONE	460	160	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	0 - NONE									
DECV	1	EAV-107	0 - BASIC	0 - STANDARD	07	0R - STD 22GA RH	0000 - NONE	0000 - NONE	450	450	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	0 - NONE									
DECV	1	EAV-109	0 - BASIC	0 - STANDARD	08	0R - STD 22GA RH	0000 - NONE	0000 - NONE	500	0	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	0 - NONE									
DECV	1	EAV-110	0 - BASIC	0 - STANDARD	10	0L - STD 22GA LH	0000 - NONE	0000 - NONE	600	250	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	0 - NONE									
DECV	1	EAV-111	0 - BASIC	0 - STANDARD	08	0R - STD 22GA RH	0000 - NONE	0000 - NONE	750	350	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	0 - NONE									
DECV	1	EAV-112	0 - BASIC	0 - STANDARD	14	0L - STD 22GA LH	0000 - NONE	0000 - NONE	1500	475	00 - NONE	00 - NONE	00 - NONE	A - REMOVABLE FLOW SENSOR	E - METAL CTRL ENCLOS	D - TOGGLE DISC SW.	0 - NONE	0 - NONE									









## EXHAUST AIR TERMINAL UNIT SCHEDULE

Tag	Model	Size		CFM		Static Pressure			Unit
		Unit	Outlet	Max	Min	Inlet	Down	Min	Hand
EAV-12	DECV	06	5.9	250	250	1	0.25	0.06	LH
EAV-102	DECV	06	5.9	150	70	1	0.25	0.02	RH
EAV-103	DECV	06	5.9	250	80	1	0.25	0.06	LH
EAV-104	DECV	05	4.9	200	200	1	0.25	0.12	LH
EAV-105	DECV	07	6.9	450	450	1	0.25	0.11	LH
EAV-106	DECV	08	7.9	460	160	1	0.25	0.06	LH
EAV-107	DECV	07	6.9	450	450	1	0.25	0.11	RH
EAV-109	DECV	08	7.9	500	0	1	0.25	0.08	RH
EAV-110	DECV	10	9.9	600	250	1	0.25	0.05	LH
EAV-111	DECV	08	7.9	750	350	1	0.25	0.17	RH
EAV-112	DECV	14	13.9	1500	475	1	0.25	0.07	LH
EAV-113	DECV	10	9.9	1000	330	1	0.25	0.13	RH
EAV-114	DECV	04	3.9	100	100	1	0.25	0.07	RH
EAV-116	DECV	08	7.9	500	500	1	0.25	0.08	RH
EAV-117	DECV	07	6.9	450	110	1	0.25	0.11	RH
EAV-118	DECV	07	6.9	450	450	1	0.25	0.11	LH
EAV-120	DECV	07	6.9	450	450	1	0.25	0.11	LH
EAV-121	DECV	08	7.9	620	150	1	0.25	0.12	RH
EAV-122	DECV	08	7.9	500	500	1	0.25	0.08	RH
EAV-123	DECV	07	6.9	500	90	1	0.25	0.13	LH
EAV-124	DECV	06	5.9	300	70	1	0.25	0.09	RH
EAV-127	DECV	07	6.9	450	180	1	0.25	0.11	RH
EAV-128	DECV	06	5.9	250	125	1	0.25	0.06	RH
EAV-135	DECV	06	5.9	350	350	1	0.25	0.12	RH
EAV-137	DECV	06	5.9	320	320	1	0.25	0.1	LH
EAV-138	DECV	06	5.9	300	70	1	0.25	0.09	LH
EAV-139	DECV	06	5.9	320	320	1	0.25	0.1	RH
EAV-140	DECV	07	6.9	450	450	1	0.25	0.11	LH
EAV-141	DECV	06	5.9	250	180	1	0.25	0.06	RH
EAV-143	DECV	09	8.9	600	600	1	0.25	0.07	RH
EAV-145	DECV	08	7.9	520	520	1	0.25	0.08	LH
EAV-146	DECV	05	4.9	200	200	1	0.25	0.12	LH
EAV-148	DECV	05	4.9	150	150	1	0.25	0.07	LH
EAV-149	DECV	08	7.9	500	0	1	0.25	0.08	RH
EAV-152	DECV	09	8.9	750	390	1	0.25	0.11	RH
EAV-153	DECV	09	8.9	800	440	1	0.25	0.12	RH

EAV-160	DECV	10	9.9	900	230	1	0.25	0.1	RH
EAV-161	DECV	10	9.9	880	230	1	0.25	0.1	RH
EAV-163	DECV	14	13.9	1000	450	1	0.25	0.03	RH
EAV-165	DECV	12	11.9	1200	430	1	0.25	0.09	RH
EAV-166	DECV	08	7.9	480	210	1	0.25	0.07	LH
EAV-168	DECV	09	8.9	680	680	1	0.25	0.09	RH
EAV-169	DECV	06	5.9	250	80	1	0.25	0.06	LH
EAV-170	DECV	09	8.9	600	600	1	0.25	0.07	RH

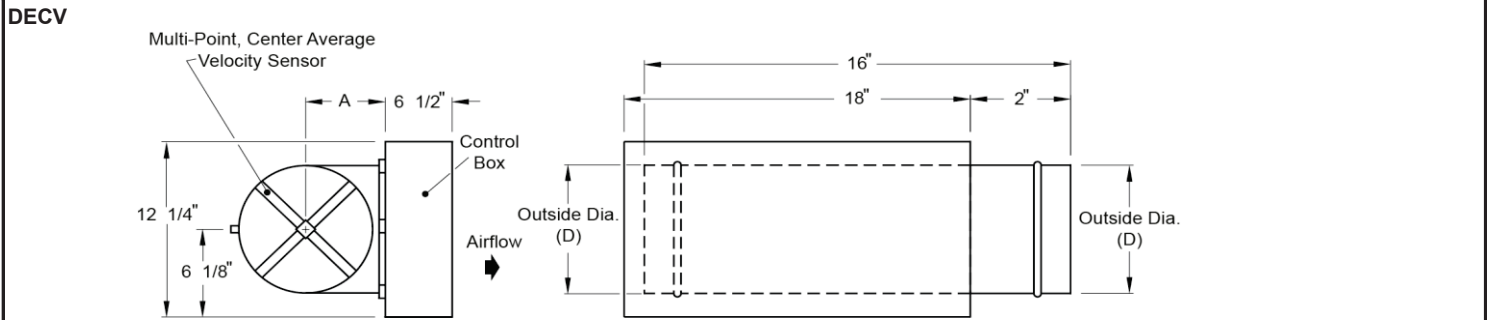
Notes: • Selections are based on Titus as Manufacturer.

- All performance based on tests conducted in accordance with ASHRAE 130-2008 and AHRI 880-2008.
- All NC levels determined using AHRI 885-2008 Appendix E.
- All airflow, pressure losses and heating performance values have been corrected for altitude.
- Units of measure: dimensions (in), airflow (cfm), water flow (gpm), air pressure (in wg), water head losses (ft) and temperatures (degF).

# DECV

## Digital Control Pressure Independent Round Retrofit Unit

**Main Product** **DECV-1**



Right Hand Unit is shown.

UNIT SIZE	Outside Dia. (D)	A
06	5 7/8" Dia.	3 9/16"
07	6 7/8" Dia.	4 1/16"
08	7 7/8" Dia.	4 9/16"

**General Description** **DECV-1**

- Direct digital control package supplied by Titus includes direct digital controller, tested and calibrated.) Room sensor is optional.
- Tight Close-Off damper. Leakage is less than 2% of nominal CFM at 6" sp W.G.
  - Multi-point inlet velocity sensor with center averaging.
  - Gauge tees for cfm measurement.
  - Inlet and Discharge connections fit inside a standard round duct.
  - Uninsulated

**Option Schedule** **DECV-1**

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
1	1	EAV-12	06	250	250
3	1	EAV-103	06	250	80
5	1	EAV-105	07	450	450
6	1	EAV-106	08	460	160
16	1	EAV-118	07	450	450
17	1	EAV-120	07	450	450
20	1	EAV-123	07	500	90
25	1	EAV-137	06	320	320
26	1	EAV-138	06	300	70
28	1	EAV-140	07	450	450
31	1	EAV-145	08	520	520
41	1	EAV-166	08	480	210
43	1	EAV-169	06	250	80

Project UAMS Center for Animal M  
 Architect  
 Engineer  
 Contractor  
 Designation EXH VAVs



Date 09/29/2024  
 Office Powers of Arkansas  
 Preparer Chris Atwood  
 Version 2014.0.570

**Option Schedule (continued) DECV-1**

**SENSOR CODE** 3 - AEROCROSS  
**UNIT CONFIG** 0 -BASIC  
**LINER OPTION** 0 -STANDARD  
**CASING CONFIG** 0L -STD 22GA LH  
**DIGITAL CONTROLLER** 0000 -NONE  
**ACTUATOR TYPE** 0000 -NONE  
**CONTROL ACC1** 00 -NONE

**CONTROL ACC2** 00 -NONE  
**CONTROL ACC3** 00 -NONE  
**UNIT ACC1** A - REMOVABLE FLOW SENSOR  
**UNIT ACC2** E -METAL CTRL ENCLOS  
**UNIT ACC3** D -TOGGLE DISC SW.  
**UNIT ACC4** 0 -NONE  
**UNIT ACC5** 0 -NONE

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
2	1	EAV-102	06	150	70
7	1	EAV-107	07	450	450
8	1	EAV-109	08	500	0
10	1	EAV-111	08	750	350
14	1	EAV-116	08	500	500
15	1	EAV-117	07	450	110
18	1	EAV-121	08	620	150
19	1	EAV-122	08	500	500
21	1	EAV-124	06	300	70
22	1	EAV-127	07	450	180
23	1	EAV-128	06	250	125
24	1	EAV-135	06	350	350
27	1	EAV-139	06	320	320
29	1	EAV-141	06	250	180
34	1	EAV-149	08	500	0

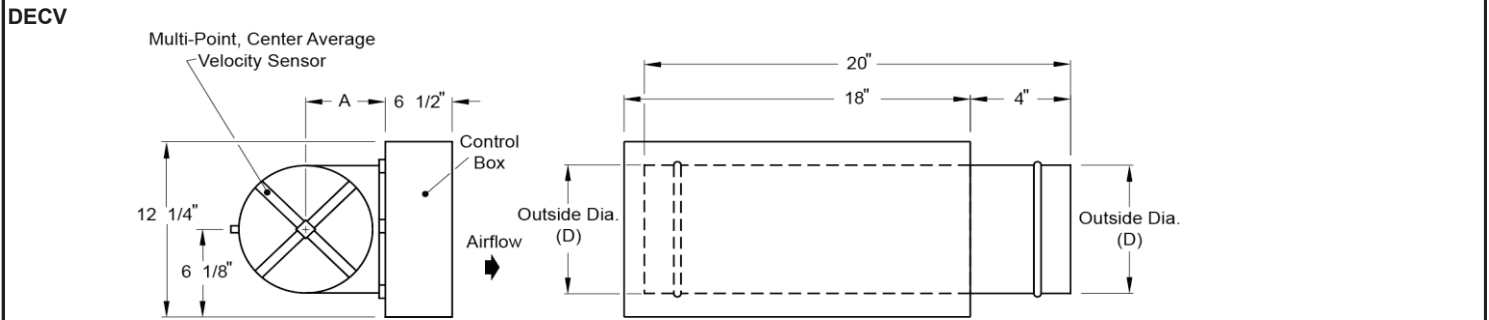
**SENSOR CODE** 3 - AEROCROSS  
**UNIT CONFIG** 0 -BASIC  
**LINER OPTION** 0 -STANDARD  
**CASING CONFIG** 0R -STD 22GA RH  
**DIGITAL CONTROLLER** 0000 -NONE  
**ACTUATOR TYPE** 0000 -NONE  
**CONTROL ACC1** 00 -NONE

**CONTROL ACC2** 00 -NONE  
**CONTROL ACC3** 00 -NONE  
**UNIT ACC1** A - REMOVABLE FLOW SENSOR  
**UNIT ACC2** E -METAL CTRL ENCLOS  
**UNIT ACC3** D -TOGGLE DISC SW.  
**UNIT ACC4** 0 -NONE  
**UNIT ACC5** 0 -NONE

# DECV

## Digital Control Pressure Independent Round Retrofit Unit

**Main Product** **DECV-1 (2)**



Size 4 and 5 are build with a Unit-Size 06. A duct adapter is added to each end for the smaller Outside diameter. Right Hand Unit is shown.

UNIT SIZE	Outsize Dia. (D)	A
05	4 7/8" Dia.	3 9/16"
04	3 7/8" Dia.	3 9/16"

**General Description** **DECV-1 (2)**

- Direct digital control package supplied by Titus includes direct digital controller, tested and calibrated.) Room sensor is optional.
- Tight Close-Off damper. Leakage is less than 2% of nominal CFM at 6" sp W.G.
  - Multi-point inlet velocity sensor with center averaging.
  - Gauge tees for cfm measurement.
  - Inlet and Discharge connections fit inside a standard round duct.
  - Uninsulated

**Option Schedule** **DECV-1 (2)**

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
4	1	EAV-104	05	200	200
32	1	EAV-146	05	200	200
33	1	EAV-148	05	150	150

**SENSOR CODE** 3 - AEROCROSS  
**UNIT CONFIG** 0 -BASIC  
**LINER OPTION** 0 -STANDARD  
**CASING CONFIG** 0L -STD 22GA LH  
**DIGITAL CONTROLLER** 0000 -NONE  
**ACTUATOR TYPE** 0000 -NONE  
**CONTROL ACC1** 00 -NONE

**CONTROL ACC2** 00 -NONE  
**CONTROL ACC3** 00 -NONE  
**UNIT ACC1** A - REMOVABLE FLOW SENSOR  
**UNIT ACC2** E -METAL CTRL ENCLOS  
**UNIT ACC3** D -TOGGLE DISC SW.  
**UNIT ACC4** 0 -NONE  
**UNIT ACC5** 0 -NONE



**Project** UAMS Center for Animal M  
**Architect**  
**Engineer**  
**Contractor**  
**Designation** EXH VAVs



**Date** 09/29/2024  
**Office** Powers of Arkansas  
**Preparer** Chris Atwood  
**Version** 2014.0.570

**Option Schedule (continued) DECV-1 (2)**

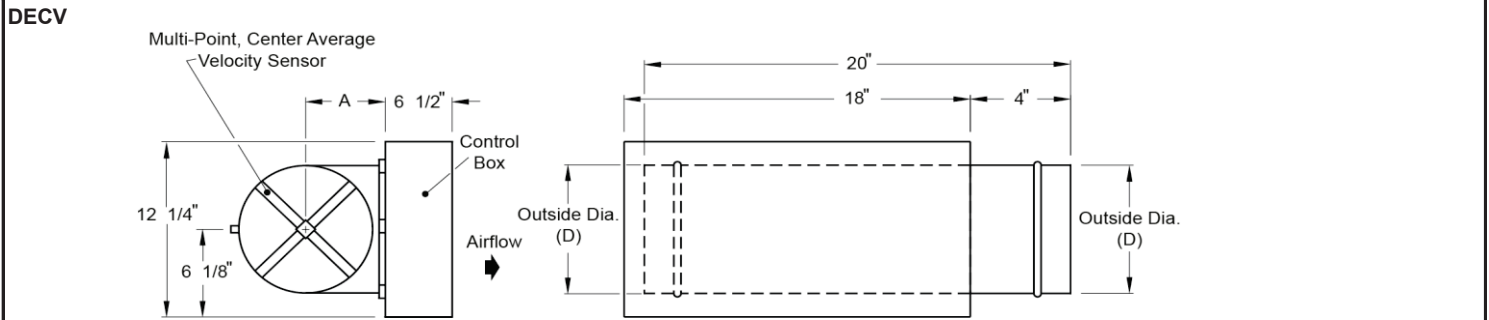
ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
13	1	EAV-114	04	100	100

<p> <b>SENSOR CODE</b> 3 - AEROCROSS  <b>UNIT CONFIG</b> 0 -BASIC  <b>LINER OPTION</b> 0 -STANDARD  <b>CASING CONFIG</b> 0R -STD 22GA RH  <b>DIGITAL CONTROLLER</b> 0000 -NONE  <b>ACTUATOR TYPE</b> 0000 -NONE  <b>CONTROL ACC1</b> 00 -NONE         </p>	<p> <b>CONTROL ACC2</b> 00 -NONE  <b>CONTROL ACC3</b> 00 -NONE  <b>UNIT ACC1</b> A - REMOVABLE FLOW SENSOR  <b>UNIT ACC2</b> E -METAL CTRL ENCLOS  <b>UNIT ACC3</b> D -TOGGLE DISC SW.  <b>UNIT ACC4</b> 0 -NONE  <b>UNIT ACC5</b> 0 -NONE         </p>
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# DECV

## Digital Control Pressure Independent Round Retrofit Unit

**Main Product** **DECV-1 (3)**



Right Hand Unit is shown.

UNIT SIZE	Outside Dia. (D)	A
10	9 7/8" Dia.	5 9/16"
09	8 7/8" Dia.	5 1/16"
12	11 7/8" Dia.	6 9/16"

**General Description** **DECV-1 (3)**

- Direct digital control package supplied by Titus includes direct digital controller, tested and calibrated.) Room sensor is optional.
- Tight Close-Off damper. Leakage is less than 2% of nominal CFM at 6" sp W.G.
  - Multi-point inlet velocity sensor with center averaging.
  - Gauge tees for cfm measurement.
  - Inlet and Discharge connections fit inside a standard round duct.
  - Uninsulated

**Option Schedule** **DECV-1 (3)**

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
9	1	EAV-110	10	600	250

- |                                      |  |
|--------------------------------------|--|
| <b>SENSOR CODE</b> 3 - AEROCROSS     | <b>CONTROL ACC2</b> 00 -NONE               |
| <b>UNIT CONFIG</b> 0 -BASIC          | <b>CONTROL ACC3</b> 00 -NONE               |
| <b>LINER OPTION</b> 0 -STANDARD      | <b>UNIT ACC1</b> A - REMOVABLE FLOW SENSOR |
| <b>CASING CONFIG</b> 0L -STD 22GA LH | <b>UNIT ACC2</b> E -METAL CTRL ENCLOS      |
| <b>DIGITAL CONTROLLER</b> 0000 -NONE | <b>UNIT ACC3</b> D -TOGGLE DISC SW.        |
| <b>ACTUATOR TYPE</b> 0000 -NONE      | <b>UNIT ACC4</b> 0 -NONE                   |
| <b>CONTROL ACC1</b> 00 -NONE         | <b>UNIT ACC5</b> 0 -NONE                   |

**Project** UAMS Center for Animal M  
**Architect**  
**Engineer**  
**Contractor**  
**Designation** EXH VAVs



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**Preparer** Chris Atwood  
**Version** 2014.0.570

**Option Schedule (continued) DECV-1 (3)**

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
12	1	EAV-113	10	1000	330
30	1	EAV-143	09	600	600
35	1	EAV-152	09	750	390
36	1	EAV-153	09	800	440
37	1	EAV-160	10	900	230
38	1	EAV-161	10	880	230
40	1	EAV-165	12	1200	430
42	1	EAV-168	09	680	680
44	1	EAV-170	09	600	600

**SENSOR CODE** 3 - AEROCROSS  
**UNIT CONFIG** 0 -BASIC  
**LINER OPTION** 0 -STANDARD  
**CASING CONFIG** 0R -STD 22GA RH  
**DIGITAL CONTROLLER** 0000 -NONE  
**ACTUATOR TYPE** 0000 -NONE  
**CONTROL ACC1** 00 -NONE

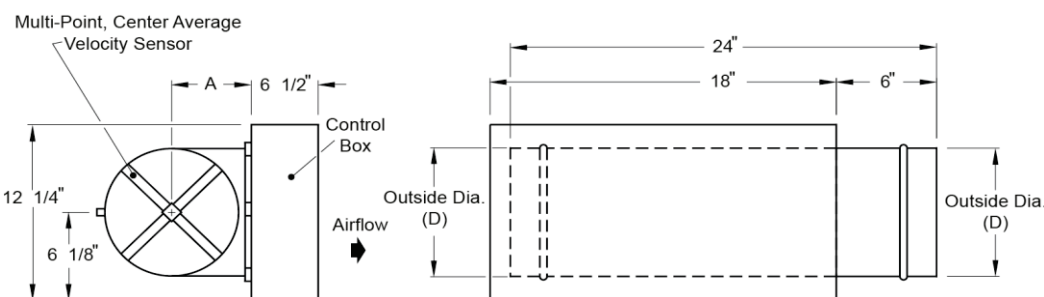
**CONTROL ACC2** 00 -NONE  
**CONTROL ACC3** 00 -NONE  
**UNIT ACC1** A - REMOVABLE FLOW SENSOR  
**UNIT ACC2** E -METAL CTRL ENCLOS  
**UNIT ACC3** D -TOGGLE DISC SW.  
**UNIT ACC4** 0 -NONE  
**UNIT ACC5** 0 -NONE

# DECV

## Digital Control Pressure Independent Round Retrofit Unit

**Main Product** **DECV-1 (4)**

**DECV**



Right Hand Unit is shown.

UNIT SIZE	Outside Dia. (D)	A
14	13 7/8" Dia.	7 9/16"

**General Description** **DECV-1 (4)**

Direct digital control package supplied by Titus includes direct digital controller, tested and calibrated.) Room sensor is optional.

- Tight Close-Off damper. Leakage is less than 2% of nominal CFM at 6" sp W.G.
- Multi-point inlet velocity sensor with center averaging.
- Gauge tees for cfm measurement.
- Inlet and Discharge connections fit inside a standard round duct.
- Uninsulated

**Option Schedule** **DECV-1 (4)**

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
11	1	EAV-112	14	1500	475

**SENSOR CODE** 3 - AEROCROSS  
**UNIT CONFIG** 0 -BASIC  
**LINER OPTION** 0 -STANDARD  
**CASING CONFIG** 0L -STD 22GA LH  
**DIGITAL CONTROLLER** 0000 -NONE  
**ACTUATOR TYPE** 0000 -NONE  
**CONTROL ACC1** 00 -NONE

**CONTROL ACC2** 00 -NONE  
**CONTROL ACC3** 00 -NONE  
**UNIT ACC1** A - REMOVABLE FLOW SENSOR  
**UNIT ACC2** E -METAL CTRL ENCLOS  
**UNIT ACC3** D -TOGGLE DISC SW.  
**UNIT ACC4** 0 -NONE  
**UNIT ACC5** 0 -NONE

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
39	1	EAV-163	14	1000	450

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Option Schedule (continued)	DECV-1 (4)
<p><b>SENSOR CODE</b> 3 - AEROCROSS <b>UNIT CONFIG</b> 0 -BASIC <b>LINER OPTION</b> 0 -STANDARD <b>CASING CONFIG</b> 0R -STD 22GA RH <b>DIGITAL CONTROLLER</b> 0000 -NONE <b>ACTUATOR TYPE</b> 0000 -NONE <b>CONTROL ACC1</b> 00 -NONE</p>	<p><b>CONTROL ACC2</b> 00 -NONE <b>CONTROL ACC3</b> 00 -NONE <b>UNIT ACC1</b> A - REMOVABLE FLOW SENSOR <b>UNIT ACC2</b> E -METAL CTRL ENCLOS <b>UNIT ACC3</b> D -TOGGLE DISC SW. <b>UNIT ACC4</b> 0 -NONE <b>UNIT ACC5</b> 0 -NONE</p>