



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: 2/24/2025
Return Request: 3/11/2025
Project: UAMS (CAMID)
Supplier: Middleton
Manufacturer: Titus
Submittal: Air Terminal Units Re-Submittal #1
Submittal Number: 23 36 00-01
Drawing # and Installation: Mechanical Drawings

ARCHITECT

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

ENGINEER

Clark Kenerssen
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:

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CSUSA PROJECT NO.

22-6069

sean@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117

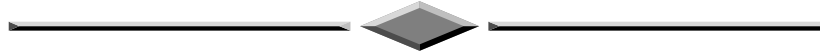
MIDDLETON, INC

P.O. BOX 506 BRYANT, AR 72089

TELEPHONE (501) 224-4888

LICENSE # 0225670422

Email: dsingleton@middletoninc.com



HVAC SUBMITTALS

03-11-25

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 : 23 36 00 –Revised- Titus Supply Air Terminals
Price Exhaust Air Terminals**



RESUBMITTAL

PRODUCT	Supply Air Terminals
MANUFACTURER	Titus
JOB NAME	UAMS Center for Animal Models of Infection & Disease
LOCATION	Little Rock, AR
ENGINEER	James R. Beecher
CONTRACTOR	Middleton Inc.
DATE	2/21/2025
SUBMITTED BY	Chris Atwood

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

****Revisions included in this Resubmittal:**

- 1) VAVs are provided with unit access doors.
- 2) VAVs are provided with Brass tees and plugs.
- 3) Coil connections were matched to Casing Handling connections for instances where they differed on piping plans.
- 4) Performances were recalculated for 140 degree water and either extended casings were used or coils were adjusted as needed.

Schedule



Date/Time: 02/21/2025 15:44:59
Job: UAMS Center for Animal Models of Infecti
Project:
Customer:
Sales Person:

Current Version: 2014.0.575
Modified Version: 2014.0.575

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	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-102	0 - BASIC	2 - STERIOLOC	6E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-103	0 - BASIC	2 - STERIOLOC	6E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-105	0 - BASIC	2 - STERIOLOC	6E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-106	0 - BASIC	2 - STERIOLOC	8E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-107	0 - BASIC	2 - STERIOLOC	6E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug

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DESV	1	VAV-108	0 - BASIC	2 - STERIOLOC	8E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-109	0 - BASIC	2 - STERIOLOC	08	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	000 - NONE	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-110	0 - BASIC	2 - STERIOLOC	8E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	W13 -3 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-111	0 - BASIC	2 - STERIOLOC	08	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	W13 -3 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-112	0 - BASIC	2 - STERIOLOC	14	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	W13 -3 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-113	0 - BASIC	2 - STERIOLOC	10	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	W23 -3 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug

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DESV	1	VAV-116	0 - BASIC	2 - STERIOLOC	7E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-117	0 - BASIC	2 - STERIOLOC	8E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-118	0 - BASIC	2 - STERIOLOC	6E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-119	0 - BASIC	2 - STERIOLOC	1E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-120	0 - BASIC	2 - STERIOLOC	6E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-121	0 - BASIC	2 - STERIOLOC	08	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug

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DESV	1	VAV-122	0 - BASIC	2 - STERIOLOC	7E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-123	0 - BASIC	2 - STERIOLOC	8E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-124	0 - BASIC	2 - STERIOLOC	6E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-125	0 - BASIC	2 - STERIOLOC	6E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-126	0 - BASIC	2 - STERIOLOC	09	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-127	0 - BASIC	2 - STERIOLOC	06	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug

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DESV	1	VAV-128	0 - BASIC	2 - STERIOLOC	5E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-129	0 - BASIC	2 - STERIOLOC	08	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-130	0 - BASIC	2 - STERIOLOC	8E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-131	0 - BASIC	2 - STERIOLOC	10	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	W23 -3 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-132	0 - BASIC	2 - STERIOLOC	6E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-133	0 - BASIC	2 - STERIOLOC	6E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug

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DESV	1	VAV-134	0 - BASIC	2 - STERIOLOC	6E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-135	0 - BASIC	2 - STERIOLOC	6E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-136	0 - BASIC	2 - STERIOLOC	09	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-137	0 - BASIC	2 - STERIOLOC	5E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-138	0 - BASIC	2 - STERIOLOC	7E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-139	0 - BASIC	2 - STERIOLOC	5E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug

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DESV	1	VAV-140	0 - BASIC	2 - STERIOLOC	6E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-141	0 - BASIC	2 - STERIOLOC	6E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-143	0 - BASIC	2 - STERIOLOC	8E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-144	0 - BASIC	2 - STERIOLOC	09	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	W23 -3 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-145	0 - BASIC	2 - STERIOLOC	7E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-148	0 - BASIC	2 - STERIOLOC	04	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug

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DESV	1	VAV-149	0 - BASIC	2 - STERIOLOC	08	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	000 - NONE	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-151	0 - BASIC	2 - STERIOLOC	6E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-152	0 - BASIC	2 - STERIOLOC	7E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-153	0 - BASIC	2 - STERIOLOC	7E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	W22 -2 ROW LH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-160	0 - BASIC	2 - STERIOLOC	1E	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-161	0 - BASIC	2 - STERIOLOC	1E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug

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DESV	1	VAV-163	0 - BASIC	2 - STERIOLOC	14	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	U12 -2 ROW RH HIGH CAPACITY	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-164	0 - BASIC	2 - STERIOLOC	14	ER - 20GA RH Premium Cam Lock, Hinged Access Door	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	W12 -2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-165	0 - BASIC	2 - STERIOLOC	1E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-166	0 - BASIC	2 - STERIOLOC	7E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-167	0 - BASIC	2 - STERIOLOC	09	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	U22 -2 ROW LH HIGH CAPACITY	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug
DESV	1	VAV-168	0 - BASIC	2 - STERIOLOC	09	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	U22 -2 ROW LH HIGH CAPACITY	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	Provide with Brass Tee and Plug

Job Name: UAMS Center for Animal Models of Infecti

DESV	1	VAV-169	0 - BASIC	2 - STERIOLOC	6E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug
DESV	1	VAV-170	0 - BASIC	2 - STERIOLOC	8E	EL - 20GA LH Premium Cam Lock, Hinged Access Door	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	Provide with Brass Tee and Plug

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.		CFM	MBH	EAT	EWT	LAT	APD	GPM	LWT	WPD	Rows	FPI
VAV-12	DESV	04	12x8	50	50	1	0.25	0.02	-	19	RH	50	3.1	55	140	111.6	0.01	0.8	131.7	0.12	2-RH	10
VAV-102	DESV	6E	12x10	250	170	1	0.25	0.08	14	24	RH	170	7.9	55	140	97.9	0.03	0.9	122.1	0.11	2-RH	10
VAV-103	DESV	6E	12x10	350	80	1	0.25	0.15	17	24	LH	175	8.6	55	140	100.2	0.05	1.1	124.1	0.15	2-LH	10
VAV-105	DESV	6E	12x10	350	350	1	0.25	0.15	17	24	RH	350	12.6	55	140	88.3	0.05	1.2	118.6	0.17	2-RH	10
VAV-106	DESV	8E	14x12.5	560	250	1	0.25	0.12	18	28	RH	560	18.4	55	140	85.4	0.11	1.9	120.3	0.32	2-RH	10
VAV-107	DESV	6E	12x10	350	350	1	0.25	0.15	17	24	RH	350	13	55	140	89.3	0.05	1.3	119.6	0.2	2-RH	10
VAV-108	DESV	8E	14x12.5	650	650	1	0.25	0.17	20	28	RH	650	19.5	55	140	82.3	0.15	1.9	118.5	0.31	2-RH	10
VAV-109	DESV	08	12x10	500	0	1	0.25	0.01	18	28	LH	-	-	-	-	-	-	-	-	-	-	-
VAV-110	DESV	8E	14x12.5	500	150	1	0.25	0.15	17	27	RH	500	19.7	55	140	91.3	0.14	1.4	110.3	0.15	3-RH	10
VAV-111	DESV	08	12x10	550	150	1	0.25	0.33	17	27	RH	550	21.7	55	140	91.3	0.32	2	118	0.34	3-RH	10
VAV-112	DESV	14	20x17.5	1400	450	1	0.25	0.27	13	18	RH	1400	52.6	55	140	89.6	0.25	3	104.4	0.37	3-RH	10
VAV-113	DESV	10	14x12.5	900	230	1	0.25	0.39	19	25	LH	900	33.7	55	140	89.5	0.38	3	117.2	0.41	3-LH	10
VAV-116	DESV	7E	14x12.5	400	400	1	0.25	0.13	18	24	LH	400	15.8	55	140	91.3	0.07	1.9	123.2	0.32	2-LH	10
VAV-117	DESV	8E	14x12.5	550	210	1	0.25	0.12	18	28	LH	550	18.3	55	140	85.7	0.11	1.9	120.4	0.32	2-LH	10
VAV-118	DESV	6E	12x10	350	350	1	0.25	0.15	17	24	LH	350	13	55	140	89.3	0.05	1.3	119.6	0.2	2-LH	10
VAV-119	DESV	1E	16x15	950	950	1	0.25	0.17	20	27	RH	950	25.7	55	140	79.9	0.16	1.8	111	0.35	2-RH	10
VAV-120	DESV	6E	12x10	350	350	1	0.25	0.15	17	24	LH	350	13	55	140	89.3	0.05	1.3	119.6	0.2	2-LH	10
VAV-121	DESV	08	12x10	720	250	1	0.25	0.33	20	25	LH	720	19.1	55	140	79.5	0.31	2.4	123.8	0.83	2-LH	10
VAV-122	DESV	7E	14x12.5	400	400	1	0.25	0.13	18	24	LH	400	14.8	55	140	89	0.07	1.6	120.6	0.25	2-LH	10
VAV-123	DESV	8E	14x12.5	500	90	1	0.25	0.11	18	27	LH	250	10.6	55	140	94	0.1	1.2	121.3	0.16	2-LH	10
VAV-124	DESV	6E	12x10	300	70	1	0.25	0.11	15	23	LH	300	11.4	55	140	90	0.04	1.1	119	0.15	2-LH	10
VAV-125	DESV	6E	12x10	400	400	1	0.25	0.2	18	25	RH	400	12.9	55	140	84.7	0.07	1.1	116.2	0.15	2-RH	10
VAV-126	DESV	09	14x12.5	375	375	1	0.25	0.07	-	17	LH	375	12.8	55	140	86.5	0.06	1.2	117.4	0.16	2-LH	10
VAV-127	DESV	06	12x8	350	80	1	0.25	0.26	15	23	LH	350	10.6	55	140	82.9	0.16	1.3	122.8	0.24	2-LH	10
VAV-128	DESV	5E	12x10	175	70	1	0.25	0.03	10	27	RH	175	5.1	55	140	81.8	0.02	0.9	128.5	0.48	1-RH	10
VAV-129	DESV	08	12x10	250	250	1	0.25	0.07	10	27	RH	250	9.5	55	140	90.2	0.06	1	120.6	0.24	2-RH	10
VAV-130	DESV	8E	14x12.5	500	500	1	0.25	0.11	18	27	LH	500	17.5	55	140	87.3	0.1	1.9	121.2	0.32	2-LH	10
VAV-131	DESV	10	14x12.5	975	975	1	0.25	0.45	19	27	LH	975	32.3	55	140	85.5	0.44	2.5	113.7	0.37	3-LH	10
VAV-132	DESV	6E	12x10	500	500	1	0.25	0.3	20	28	RH	500	16.3	55	140	85.1	0.1	1.6	118.6	0.25	2-RH	10
VAV-133	DESV	6E	12x10	500	500	1	0.25	0.3	20	28	LH	500	16.3	55	140	85.1	0.1	1.6	118.6	0.25	2-LH	10
VAV-134	DESV	6E	12x10	500	500	1	0.25	0.3	20	28	RH	500	16.3	55	140	85.1	0.1	1.6	118.6	0.25	2-RH	10
VAV-135	DESV	6E	12x10	250	250	1	0.25	0.08	14	24	LH	250	9.3	55	140	89.4	0.03	0.9	117.7	0.1	2-LH	10
VAV-136	DESV	09	14x12.5	600	600	1	0.25	0.15	13	23	RH	600	15.3	55	140	78.5	0.13	1.2	113	0.16	2-RH	10
VAV-137	DESV	5E	12x10	220	220	1	0.25	0.07	14	29	LH	220	8.8	55	140	91.9	0.05	1	121.2	0.22	2-LH	10
VAV-138	DESV	7E	14x12.5	400	170	1	0.25	0.13	18	24	LH	400	14.8	55	140	89	0.07	1.6	120.6	0.25	2-LH	10
VAV-139	DESV	5E	12x10	220	220	1	0.25	0.07	14	29	LH	220	8.8	55	140	91.9	0.05	1	121.2	0.22	2-LH	10

VAV-140	DESV	6E	12x10	350	350	1	0.25	0.15	17	24	LH	350	13	55	140	89.3	0.05	1.3	119.6	0.2	2-LH	10
VAV-141	DESV	6E	12x10	250	80	1	0.25	0.08	14	24	RH	250	9.3	55	140	89.4	0.03	0.9	117.7	0.1	2-RH	10
VAV-143	DESV	8E	14x12.5	500	500	1	0.25	0.11	18	27	LH	500	16.3	55	140	85.1	0.1	1.6	118.6	0.25	2-LH	10
VAV-144	DESV	09	14x12.5	680	340	1	0.25	0.27	14	24	LH	680	22.8	55	140	85.9	0.24	1.5	109.1	0.18	3-LH	10
VAV-145	DESV	7E	14x12.5	420	420	1	0.25	0.13	18	24	LH	420	15.1	55	140	88.1	0.07	1.6	120.2	0.25	2-LH	10
VAV-148	DESV	04	12x8	50	50	1	0.25	0.02	-	19	LH	50	2.5	55	140	100.2	0.01	0.2	115.1	0.01	2-LH	10
VAV-149	DESV	08	12x10	500	0	1	0.25	0.01	18	28	LH	-	-	-	-	-	-	-	-	-	-	-
VAV-151	DESV	6E	12x10	350	350	1	0.25	0.15	17	24	RH	350	12.2	55	140	87.1	0.05	1.1	117.5	0.15	2-RH	10
VAV-152	DESV	7E	14x12.5	450	90	1	0.25	0.15	19	25	RH	200	9.4	55	140	98.3	0.08	1.2	123.4	0.16	2-RH	10
VAV-153	DESV	7E	14x12.5	450	90	1	0.25	0.15	19	25	LH	200	9.4	55	140	98.3	0.08	1.2	123.4	0.16	2-LH	10
VAV-160	DESV	1E	16x15	1000	330	1	0.25	0.18	20	28	RH	1000	29	55	140	81.7	0.17	2.4	115.4	0.47	2-RH	10
VAV-161	DESV	1E	16x15	880	230	1	0.25	0.15	19	27	LH	880	27.6	55	140	84	0.14	2.5	117.1	0.48	2-LH	10
VAV-163	DESV	4E	24x18	1200	650	1	0.25	0.12	-	11	RH	1200	43.3	55	140	88.2	0.11	3.5	114.9	0.25	2-RH	12
VAV-164	DESV	14	20x17.5	1000	1000	1	0.25	0.1	10	18	RH	1000	21.3	55	140	74.7	0.09	1.1	100.5	0.09	2-RH	10
VAV-165	DESV	1E	16x15	1000	230	1	0.25	0.18	20	28	LH	1000	29	55	140	81.7	0.17	2.4	115.4	0.47	2-LH	10
VAV-166	DESV	7E	14x12.5	380	110	1	0.25	0.11	17	24	LH	380	12.6	55	140	85.6	0.06	1.1	116.7	0.15	2-LH	10
VAV-167	DESV	09	14x12.5	700	700	1	0.25	0.22	15	24	LH	700	22.5	55	140	84.7	0.19	2	117.1	0.33	2-LH	12
VAV-168	DESV	09	14x12.5	580	580	1	0.25	0.16	13	22	LH	580	20.8	55	140	88.1	0.14	2	118.8	0.33	2-LH	12
VAV-169	DESV	6E	12x10	350	180	1	0.25	0.15	17	24	LH	350	10.7	55	140	83.2	0.05	0.9	114.4	0.1	2-LH	10
VAV-170	DESV	8E	14x12.5	500	500	1	0.25	0.11	18	27	LH	500	17.5	55	140	87.3	0.1	1.9	121.2	0.32	2-LH	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-2

DESV

The diagram illustrates the dimensions of the DESV-2 unit. The front view (left) shows a square main body with width W and height H. A circular air inlet is centered on the front face. To the right of the main body is a control enclosure with a height of 12 1/4 inches and a width of 6 1/2 inches. The distance from the top of the main body to the top of the control enclosure is labeled F Type. The side view (right) shows the unit's depth. The distance from the front face to the back of the control enclosure is G. The distance from the back of the control enclosure to the back of the main body is M. The total depth of the unit is L. The distance from the front face to the back of the main body is D. The back of the main body features a water coil and a slip & drive cleat connection. The total width of the unit, including the control enclosure, is 18 inches.

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
04	0 - 225	4" Dia.	2 1/8"	7 3/8"	12"	8"	5 3/8"	20 1/2"
6E	0 - 500	6" Dia.	2 1/8"	7 3/8"	12"	10"	3 3/8"	20 1/2"
8E	0 - 900	8" Dia.	1 1/8"	7 3/8"	14"	12 1/2"	3 3/8"	20 1/2"
1E	0 - 1400	10" Dia.	-	5 3/8"	16"	15"	3 3/8"	20 1/2"
5E	0 - 350	5" Dia.	2 1/8"	7 3/8"	12"	10"	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"
09	0 - 1050	9" Dia.	-	5 3/8"	14"	12 1/2"	3 3/8"	20 1/2"
7E	0 - 650	7" Dia.	1 1/8"	7 3/8"	12"	12 1/2"	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-2
- Standard construction uses G40 22-gauge galvanized steel housing, and optional construction uses G40 20-gauge galvanized 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. - Unit in accordance with UL-1996 - Model DESV can be installed horizontally, vertically, or at any angle. Operation is not affected by position. - Gauge tees for CFM measurement.	

Project UAMS Center for Animal M
 Architect
 Engineer
 Contractor
 Designation VAVs ASI1 resize



Date 02/21/2025
 Office Powers of Arkansas
 Preparer Chris Atwood
 Version 2014.0.575

Option Schedule	DESV-2
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ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
1	1	VAV-12	04	50	50
2	1	VAV-102	6E	250	170
4	1	VAV-105	6E	350	350
5	1	VAV-106	8E	560	250
6	1	VAV-107	6E	350	350
7	1	VAV-108	8E	650	650
16	1	VAV-119	1E	950	950
22	1	VAV-125	6E	400	400
26	1	VAV-129	08	250	250
29	1	VAV-132	6E	500	500
31	1	VAV-134	6E	500	500
33	1	VAV-136	09	600	600
38	1	VAV-141	6E	250	80
44	1	VAV-151	6E	350	350
45	1	VAV-152	7E	450	90
47	1	VAV-160	1E	1000	330
50	1	VAV-164	14	1000	1000

SENSOR CODE 3 - AEROCROSS
UNIT CONFIG 0 -BASIC
LINER OPTION 2 -STERILOC
CASING CONFIG ER - 20GA RH Premium Cam Lock,
 Hinged Access Door
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
25	1	VAV-128	5E	175	70

SENSOR CODE 3 - AEROCROSS
UNIT CONFIG 0 -BASIC
LINER OPTION 2 -STERILOC
CASING CONFIG ER - 20GA RH Premium Cam Lock,
 Hinged Access Door
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

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ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
49	1	VAV-163	14	1200	650

SENSOR CODE 3 - AEROCROSS

UNIT CONFIG 0 -BASIC

LINER OPTION 2 -STERILOC

CASING CONFIG ER - 20GA RH Premium Cam Lock,
Hinged Access Door

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 U12 -2 ROW RH HIGH CAPACITY

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-2

Selected Insulation: SteriLoc

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

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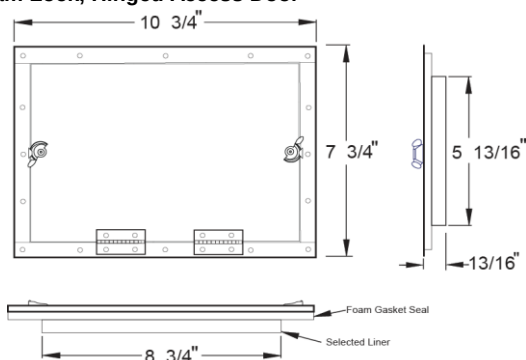


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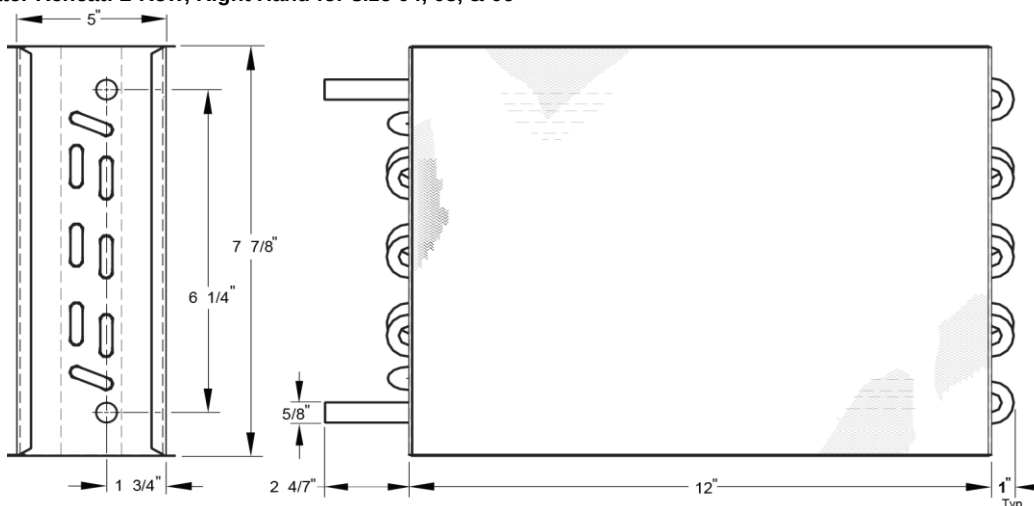
Accessories (continued)

DES-2

Premium Cam Lock, Hinged Access Door



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



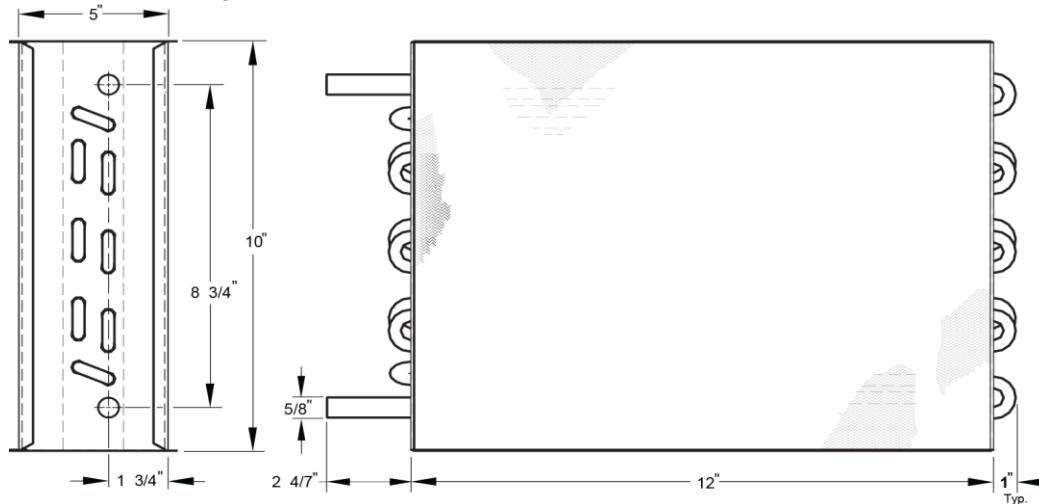
- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- 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)

DES-2

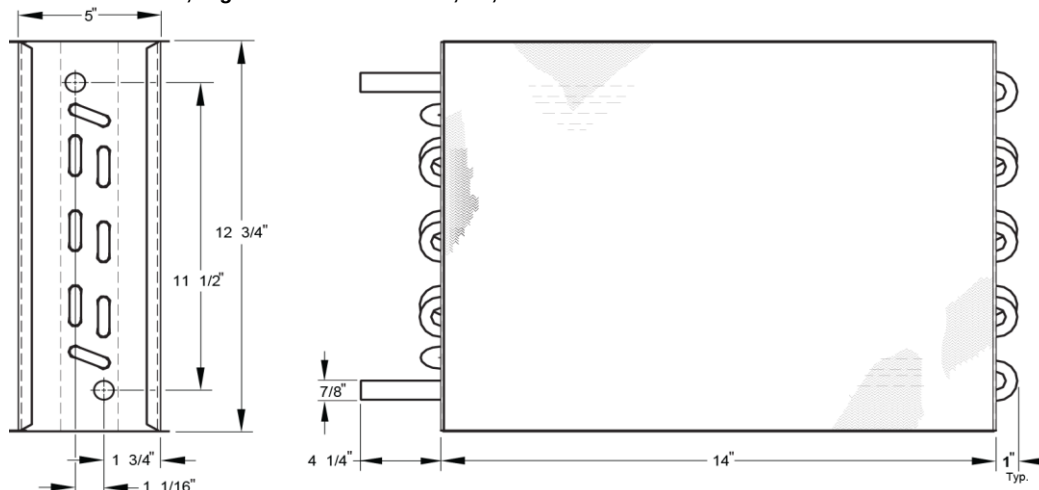
ESV Hot Water Reheat: 2-Row, Right Hand for size 07, 08, 5E, & 6E



- 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 09 10, 7E, & 8E



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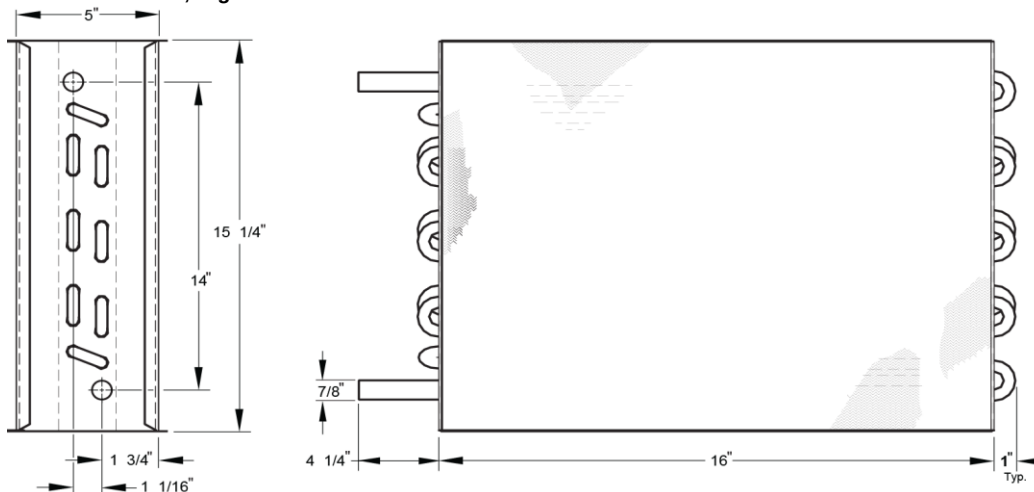
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Designation VAVs ASI1 resize

- 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: 2-Row, Right Hand for size 12 & 1E



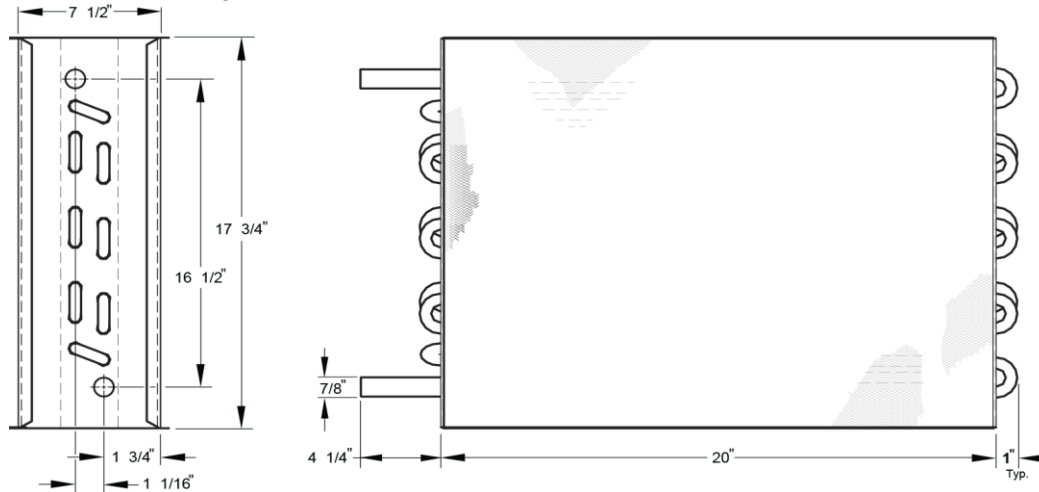
- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.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

Water Weight (lbs.)	Water Volume (gal)
3.45	0.41

Accessories (continued)

DES-2

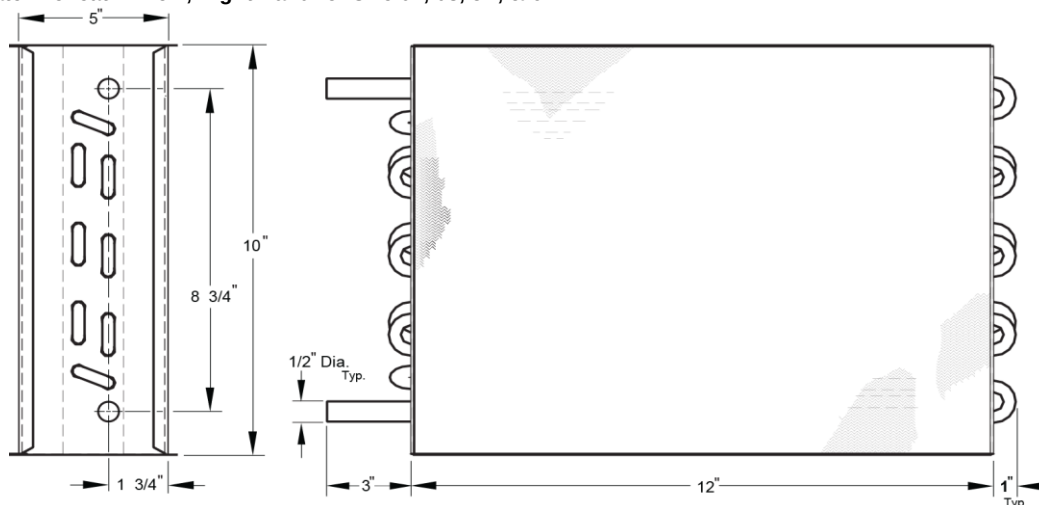
ESV Hot Water Reheat: 2-Row, Right Hand for size 14 & 2E



- 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

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



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Accessories (continued)

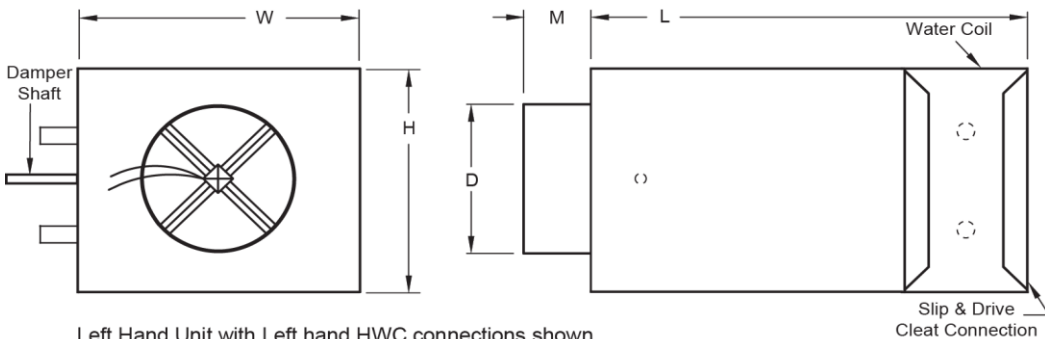
DESV-2

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

DESV

Single Duct Terminal Unit, Direct Digital Control, Pressure Independent

Main Product						DESV-2 (2)
DESV						
 Left Hand Unit with Left 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	W	H	M	L
6E	0 - 500	6" Dia.	12"	10"	3 3/8"	20 1/2"
7E	0 - 650	7" Dia.	12"	12 1/2"	3 3/8"	20 1/2"
8E	0 - 900	8" Dia.	14"	12 1/2"	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"
06	0 - 500	6" Dia.	12"	8"	3 3/8"	20 1/2"
5E	0 - 350	5" Dia.	12"	10"	5 3/8"	20 1/2"
04	0 - 225	4" Dia.	12"	8"	5 3/8"	20 1/2"
1E	0 - 1400	10" Dia.	16"	15"	3 3/8"	20 1/2"

General Description	DESV-2 (2)
- Standard construction uses G40 22-gauge galvanized steel housing, and optional construction uses G40 20-gauge galvanized 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. - Unit in accordance with UL-1996 - 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-2 (2)

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
3	1	VAV-103	6E	350	80
13	1	VAV-116	7E	400	400
14	1	VAV-117	8E	550	210
15	1	VAV-118	6E	350	350
17	1	VAV-120	6E	350	350
18	1	VAV-121	08	720	250
19	1	VAV-122	7E	400	400
20	1	VAV-123	8E	500	90
21	1	VAV-124	6E	300	70
23	1	VAV-126	09	375	375
24	1	VAV-127	06	350	80
27	1	VAV-130	8E	500	500
30	1	VAV-133	6E	500	500
32	1	VAV-135	6E	250	250
34	1	VAV-137	5E	220	220
35	1	VAV-138	7E	400	170
36	1	VAV-139	5E	220	220
37	1	VAV-140	6E	350	350
39	1	VAV-143	8E	500	500
41	1	VAV-145	7E	420	420
42	1	VAV-148	04	50	50
46	1	VAV-153	7E	450	90
48	1	VAV-161	1E	880	230
51	1	VAV-165	1E	1000	230
52	1	VAV-166	7E	380	110
57	1	VAV-169	6E	350	180
58	1	VAV-170	8E	500	500

SENSOR CODE 3 - AEROCROSS

UNIT CONFIG 0 -BASIC

LINER OPTION 2 -STERILOC

CASING CONFIG EL - 20GA LH Premium Cam Lock,
Hinged Access Door

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 W22 -2 ROW LH

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
53	1	VAV-167	09	700	700
54	1	VAV-168	09	580	580

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Option Schedule (continued)

DESV-2 (2)

SENSOR CODE 3 - AEROCROSS

UNIT CONFIG 0 -BASIC

LINER OPTION 2 -STERILOC

CASING CONFIG EL - 20GA LH Premium Cam Lock,
Hinged Access Door

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 U22 -2 ROW LH HIGH CAPACITY

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-2 (2)

Selected Insulation: SteriLoc

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

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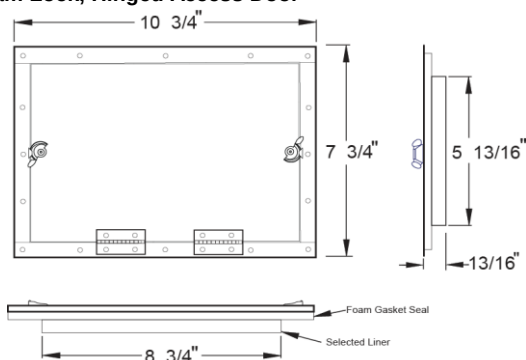


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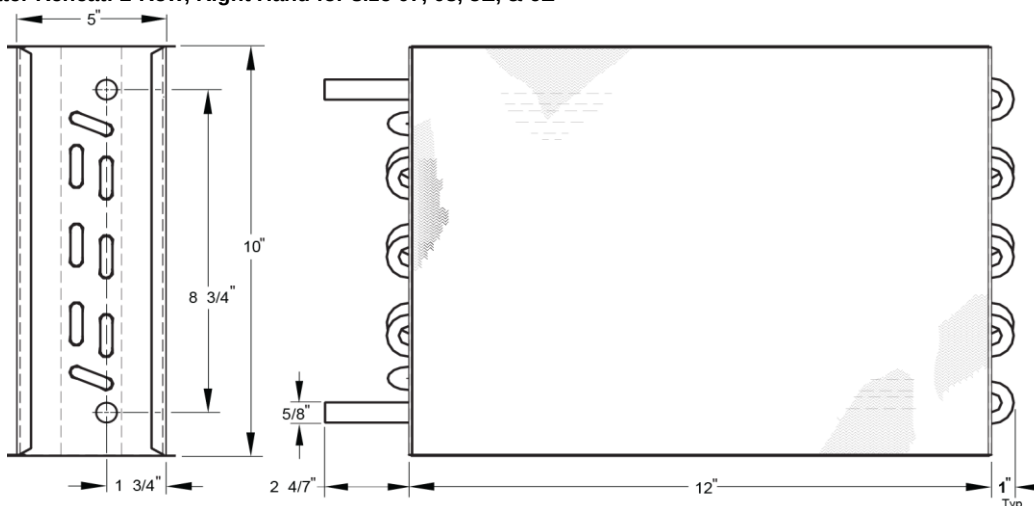
Accessories (continued)

DESV-2 (2)

Premium Cam Lock, Hinged Access Door



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



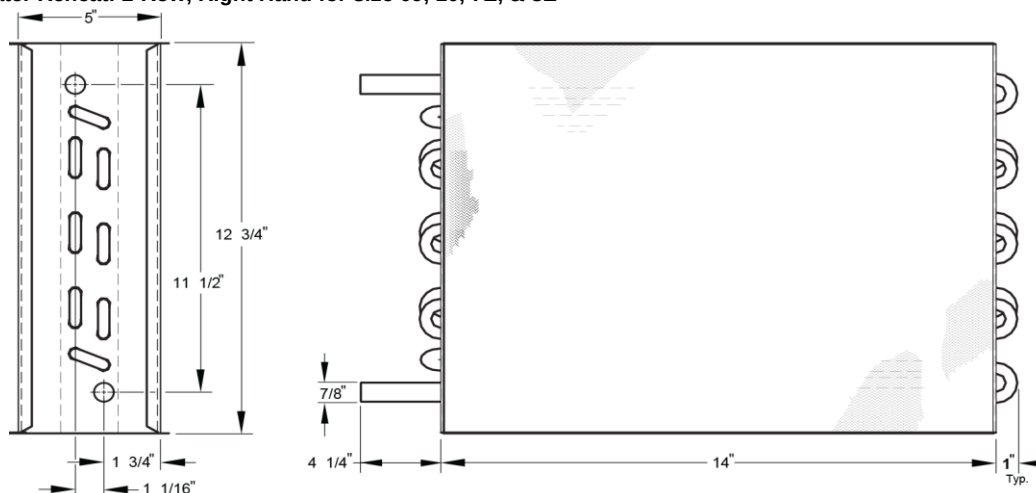
- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- 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-2 (2)

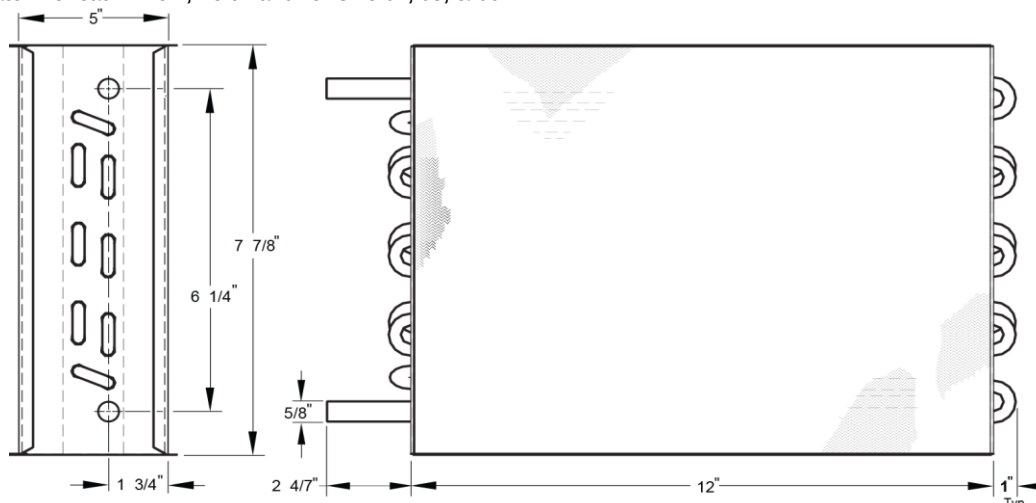
ESV Hot Water Reheat: 2-Row, Right Hand for size 09, 10, 7E, & 8E



- 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: 2-Row, Left Hand for size 04, 05, & 06



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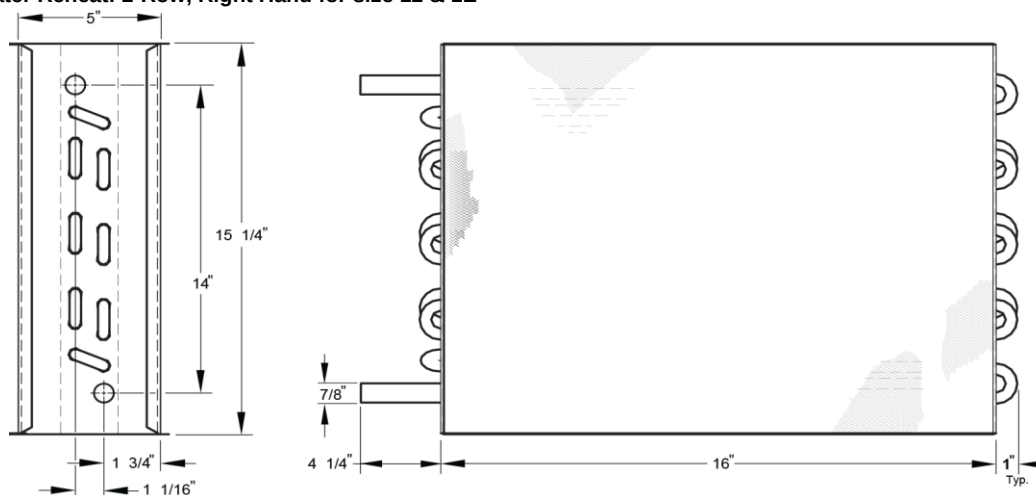
Accessories (continued)

DES-2 (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)
1.26	0.15

ESV Hot Water Reheat: 2-Row, Right Hand for size 12 & 1E



- 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)
3.45	0.41

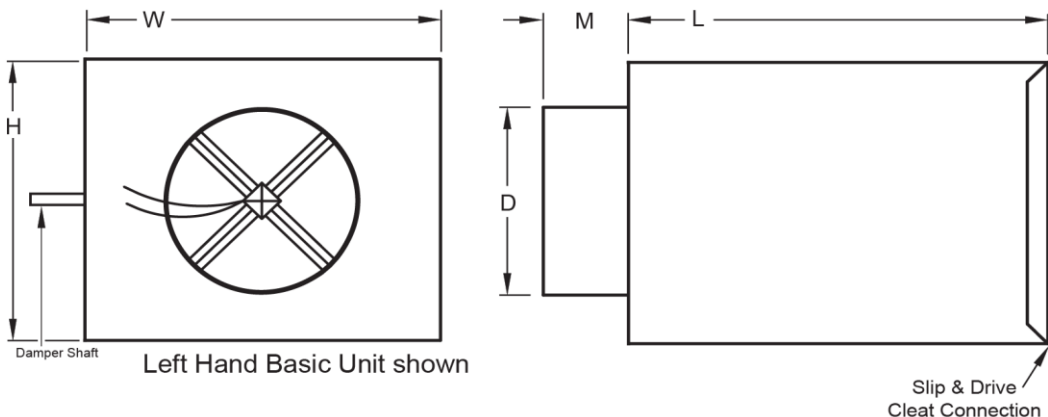
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DESV

Single Duct Terminal Unit, Direct Digital Control, Pressure Independent

Main Product						DESV-2 (3)
DESV						
 Left Hand Basic Unit shown Slip & Drive Cleat Connection 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
08	0 - 900	8" Dia.	12"	10"	3 3/8"	15 1/2"

General Description						DESV-2 (3)
- Standard construction uses G40 22-gauge galvanized steel housing, and optional construction uses G40 20-gauge galvanized 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. - Unit in accordance with UL-1996 - 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-2 (3)
ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM	
8	1	VAV-109	08	500	0	
43	1	VAV-149	08	500	0	

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Option Schedule (continued)

DESV-2 (3)

SENSOR CODE 3 - AEROCROSS

UNIT CONFIG 0 -BASIC

LINER OPTION 2 -STERILOC

CASING CONFIG EL - 20GA LH Premium Cam Lock,
Hinged Access Door

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 000 -NONE

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-2 (3)

Selected Insulation: SteriLoc

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

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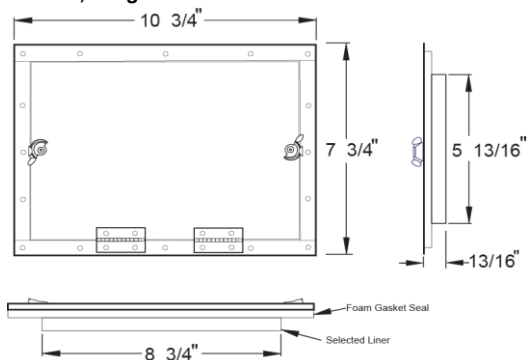


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Accessories (continued)

DES-2 (3)

Premium Cam Lock, Hinged Access Door



DESV

Single Duct Terminal Unit, Direct Digital Control, Pressure Independent

Main Product

DESV-2 (4)

DESV

The diagram illustrates the dimensions of the DESV unit. The front view (left) shows a rectangular unit with width W, height H, and a circular air inlet with a diameter of 12 1/4". The side view (right) shows the unit's depth with dimensions G, L, M, and D. A water coil is shown on the right side, and a slip & drive cleat connection is indicated at the bottom right. The unit is labeled "Control Enclosure" and "Water Coil".

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
8E	0 - 900	8" Dia.	1 1/8"	7 3/8"	14"	12 1/2"	3 3/8"	22 3/4"
08	0 - 900	8" Dia.	1 1/8"	7 3/8"	12"	10"	3 3/8"	22 3/4"
14	0 - 3000	14" Dia.	-	3 3/8"	20"	17 1/2"	3 3/8"	25 1/4"

General Description	DESV-2 (4)
• Standard construction uses G40 22-gauge galvanized steel housing, and optional construction uses G40 20-gauge galvanized 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. • Unit in accordance with UL-1996 • 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-2 (4)		
ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM			
9	1	VAV-110	8E	500	150			
10	1	VAV-111	08	550	150			
11	1	VAV-112	14	1400	450			

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Option Schedule (continued)

DESV-2 (4)

SENSOR CODE 3 - AEROCROSS

UNIT CONFIG 0 -BASIC

LINER OPTION 2 -STERILOC

CASING CONFIG ER - 20GA RH Premium Cam Lock,
Hinged Access Door

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 W13 -3 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-2 (4)

Selected Insulation: SteriLoc

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

Project UAMS Center for Animal M
 Architect
 Engineer
 Contractor
 Designation VAVs ASI1 resize

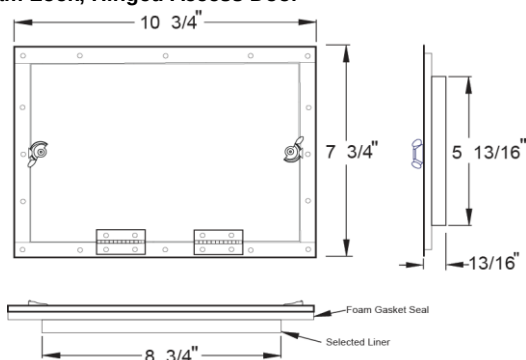


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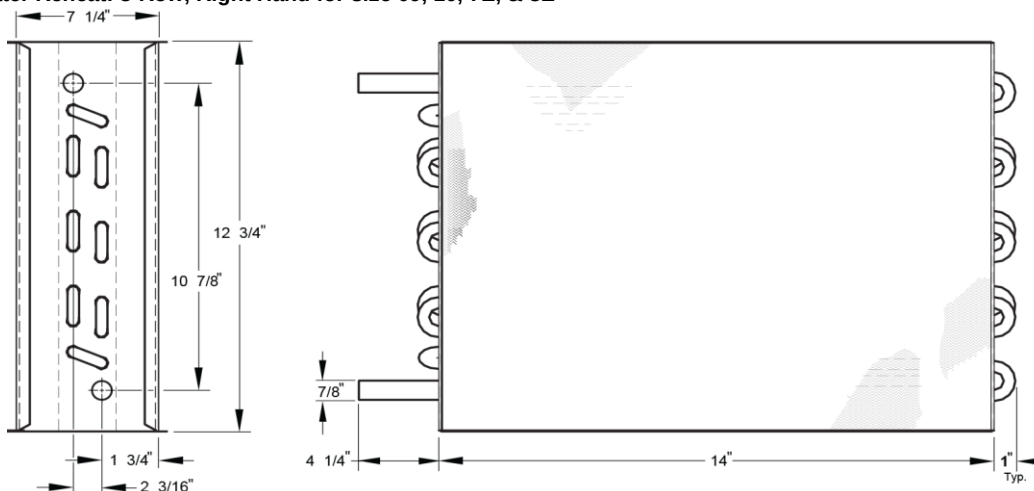
Accessories (continued)

DESV-2 (4)

Premium Cam Lock, Hinged Access Door



ESV Hot Water Reheat: 3-Row, Right Hand for size 09, 10, 7E, & 8E



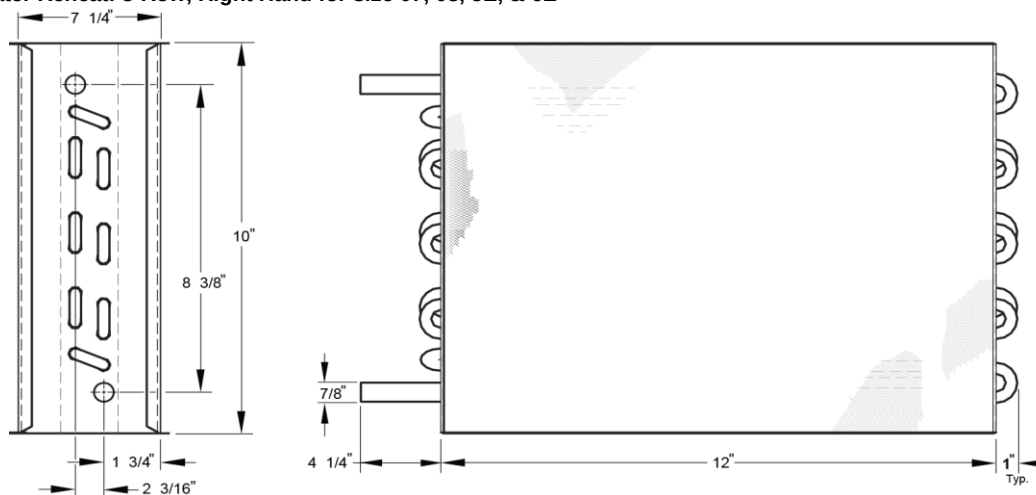
- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.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

Water Weight (lbs.)	Water Volume (gal)
3.47	0.42

Accessories (continued)

DESV-2 (4)

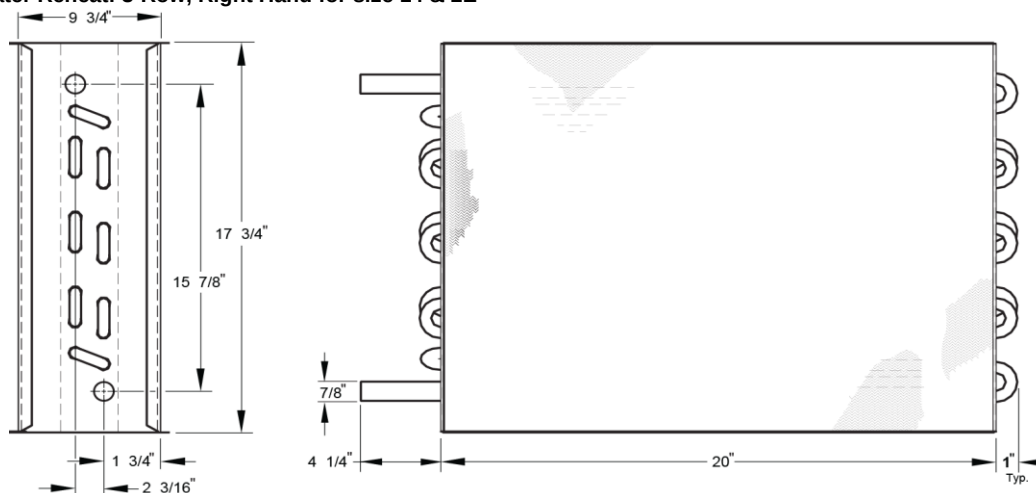
ESV Hot Water Reheat: 3-Row, Right Hand for size 07, 08, 5E, & 6E



- 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)
3.92	0.48

ESV Hot Water Reheat: 3-Row, Right Hand for size 14 & 2E



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Accessories (continued)

DESV-2 (4)

- 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)
5.87	0.71

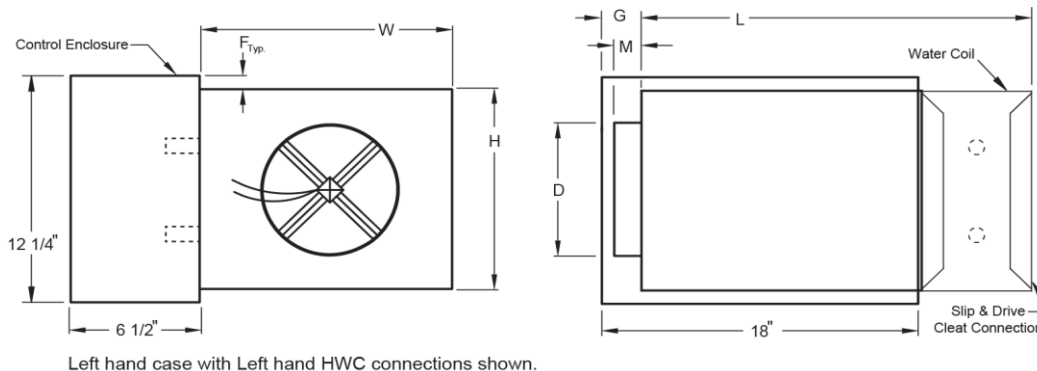
DESV

Single Duct Terminal Unit, Direct Digital Control, Pressure Independent

Main Product

DESV-2 (5)

DESV



Air Inlet (D) is 1/8" smaller than its Nom. Inlet.

All dimensions are in inches.

Unit-Size	Nom. Inlet Size	F	G	W	H	M	L
10	10" Dia.	-	5 3/8"	14"	12 1/2"	3 3/8"	22 3/4"
09	9" Dia.	-	5 3/8"	14"	12 1/2"	3 3/8"	22 3/4"

General Description

DESV-2 (5)

- Standard construction uses G40 22-gauge galvanized steel housing, and optional construction uses G40 20-gauge galvanized 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.
- Unit in accordance with UL-1996
- 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-2 (5)

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
12	1	VAV-113	10	900	230
28	1	VAV-131	10	975	975
40	1	VAV-144	09	680	340

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Option Schedule (continued)

DESV-2 (5)

SENSOR CODE 3 - AEROCROSS

UNIT CONFIG 0 -BASIC

LINER OPTION 2 -STERILOC

CASING CONFIG EL - 20GA LH Premium Cam Lock,
Hinged Access Door

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 W23 -3 ROW LH

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-2 (5)

Selected Insulation: SteriLoc

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

Project UAMS Center for Animal M
Architect
Engineer
Contractor
Designation VAVs ASI1 resize

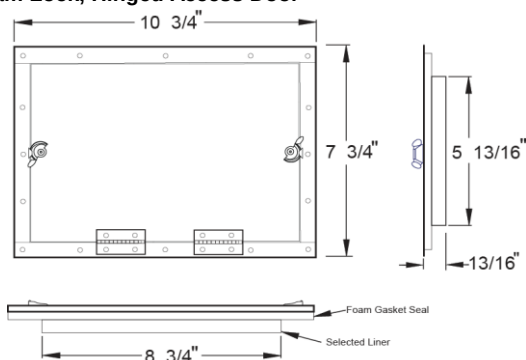


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Office Powers of Arkansas
Preparer Chris Atwood
Version 2014.0.575

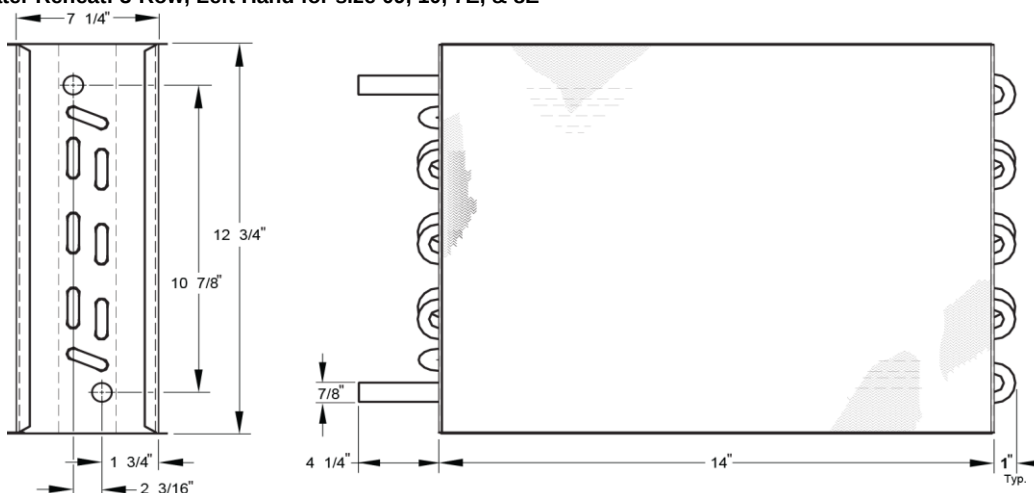
Accessories (continued)

DES-2 (5)

Premium Cam Lock, Hinged Access Door

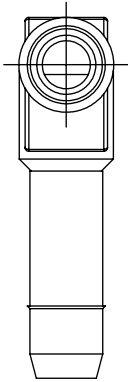
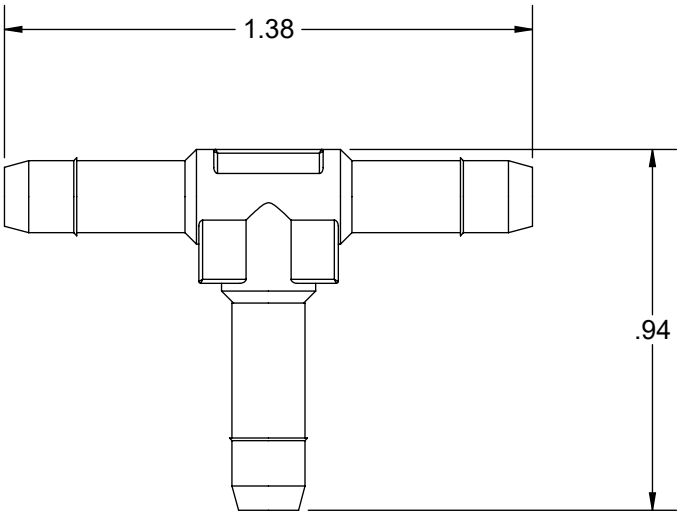
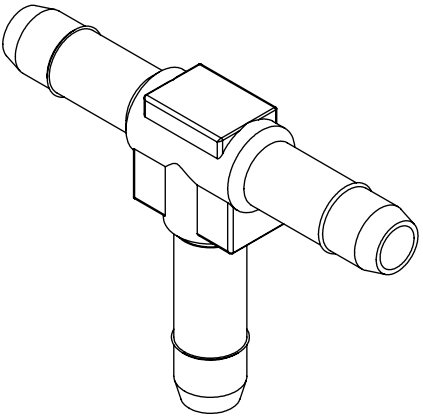


ESV Hot Water Reheat: 3-Row, Left Hand for size 09, 10, 7E, & 8E



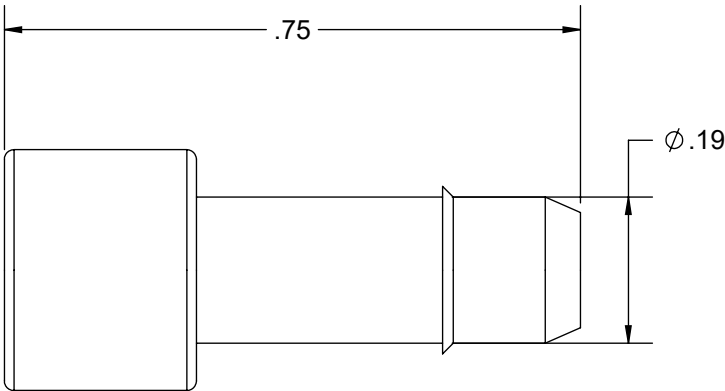
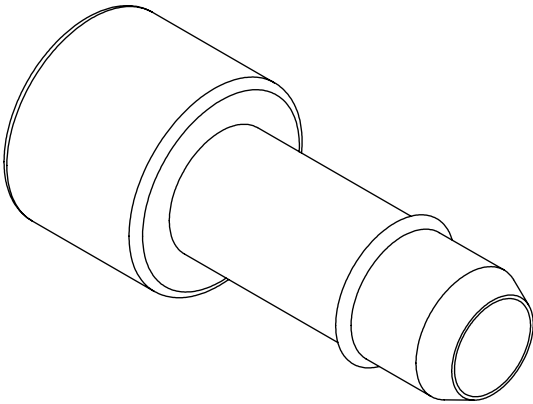
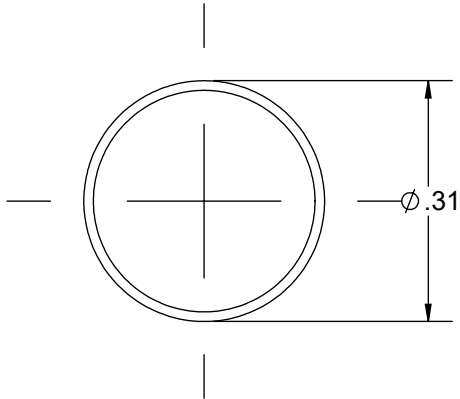
- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.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

Water Weight (lbs.)	Water Volume (gal)
3.47	0.42



NOTES:
1. USED FOR ABBOTT CONSTRUCTION

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AIR SYSTEM COMPONENTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AIR SYSTEM COMPONENTS IS PROHIBITED.	DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 2^\circ$ TWO PLACE DECIMAL $\pm .03$ THREE PLACE DECIMAL $\pm .015$	MATERIAL BRASS	LATEST ECO T20019	RELEASED ON 09/19/22	TITLE BRASS TEE	DWG NO 101791	
			WORKFLOW STATE Released	RELEASED BY ATC		REV A	SHEET 1 OF 1
		FINISH					



THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AIR SYSTEM COMPONENTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AIR SYSTEM COMPONENTS IS PROHIBITED.	DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 2^\circ$ TWO PLACE DECIMAL $\pm .03$ THREE PLACE DECIMAL $\pm .015$	MATERIAL	LATEST ECO	RELEASED ON	TITLE	DWG NO	
		BRASS	T20019	09/19/22		103100	
		FINISH	WORKFLOW STATE	RELEASED BY		REV	SHEET
DO NOT SCALE DRAWING REMOVE ALL BURRS AND SHARP EDGES			Released	ATC	BRASS PLUG	A	1 OF 1



RESUBMITTAL

PRODUCT	Exhaust Air Terminals
MANUFACTURER	Price Industries
JOB NAME	UAMS Center for Animal Models of Infection & Disease
LOCATION	Little Rock, AR
ENGINEER	James R. Beecher
CONTRACTOR	Middleton Inc.
DATE	2/21/2025
SUBMITTED BY	Chris Atwood

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

Revisions included in this Resubmittal:

1) Titus DECV Exhaust Air Terminals were replaced with Price Industries RDV with orifice type flowing sensing rings.



All-In-One
Detailed Submittal Schedule
Terminals

Tag	EAV-12	EAV-102	EAV-103	EAV-104
#	1	2	3	4
Qty	1	1	1	1
Model	RDV5	RDV5	RDV5	RDV5
Size 1	6	6	6	6
Unit Size	6	6	6	6
Inlet Dia	6	6	6	6
Max Primary (CFM)	250	150	250	200
Min Primary (CFM)	250	70	80	200
Heat Min (CFM)	0	0	0	0
Inlet SP (in. w.g.)	1.00	1.00	1.00	1.00
Differential PD (in. w.g.)	0.75	0.75	0.75	0.75
Downstream SP (in. w.g.)	0.25	0.25	0.25	0.25
Supply Air Temp (°F)	55.00	55.00	55.00	55.00
Return Air Temp (°F)	75.00	75.00	75.00	75.00
Coil Amps	0	0	0	0
Sequence	2000	2000	2000	2000
Accessories 1	PS	PS	PS	PS
Accessories 2	GT	GT	GT	GT
Accessories 3	DSW	DSW	DSW	DSW
Weight (lbs)	5	5	5	5

Tag	EAV-105	EAV-106	EAV-107	EAV-109
#	5	6	7	8
Qty	1	1	1	1
Model	RDV5	RDV5	RDV5	RDV5
Size 1	7	8	7	8
Unit Size	7	8	7	8
Inlet Dia	7	8	7	8
Max Primary (CFM)	450	460	450	500
Min Primary (CFM)	450	160	450	0
Heat Min (CFM)	0	0	0	0
Inlet SP (in. w.g.)	1.00	1.00	1.00	1.00
Differential PD (in. w.g.)	0.75	0.75	0.75	0.75
Downstream SP (in. w.g.)	0.25	0.25	0.25	0.25
Supply Air Temp (°F)	55.00	55.00	55.00	55.00
Return Air Temp (°F)	75.00	75.00	75.00	75.00
Coil Amps	0	0	0	0
Sequence	2000	2000	2000	2000
Accessories 1	PS	PS	PS	PS
Accessories 2	GT	GT	GT	GT
Accessories 3	DSW	DSW	DSW	DSW
Weight (lbs)	6	6	6	6

Tag	EAV-110	EAV-111	EAV-112	EAV-113
#	9	10	11	12
Qty	1	1	1	1
Model	RDV5	RDV5	RDV5	RDV5
Size 1	10	8	14	10
Unit Size	10	8	14	10
Inlet Dia	10	8	14	10
Max Primary (CFM)	600	750	1500	1000
Min Primary (CFM)	250	350	475	330
Heat Min (CFM)	0	0	0	0
Inlet SP (in. w.g.)	1.00	1.00	1.00	1.00
Differential PD (in. w.g.)	0.75	0.75	0.75	0.75
Downstream SP (in. w.g.)	0.25	0.25	0.25	0.25
Supply Air Temp (°F)	55.00	55.00	55.00	55.00
Return Air Temp (°F)	75.00	75.00	75.00	75.00
Coil Amps	0	0	0	0
Sequence	2000	2000	2000	2000
Accessories 1	PS	PS	PS	PS
Accessories 2	GT	GT	GT	GT
Accessories 3	DSW	DSW	DSW	DSW
Weight (lbs)	10	6	14	10

Tag	EAV-114	EAV-116	EAV-117	EAV-118
#	13	14	15	16
Qty	1	1	1	1
Model	RDV5	RDV5	RDV5	RDV5
Size 1	4	8	7	7
Unit Size	4	8	7	7
Inlet Dia	4	8	7	7
Max Primary (CFM)	100	500	450	450
Min Primary (CFM)	100	500	110	450
Heat Min (CFM)	0	0	0	0
Inlet SP (in. w.g.)	1.00	1.00	1.00	1.00
Differential PD (in. w.g.)	0.75	0.75	0.75	0.75
Downstream SP (in. w.g.)	0.25	0.25	0.25	0.25
Supply Air Temp (°F)	55.00	55.00	55.00	55.00
Return Air Temp (°F)	75.00	75.00	75.00	75.00
Coil Amps	0	0	0	0
Sequence	2000	2000	2000	2000
Accessories 1	PS	PS	PS	PS
Accessories 2	GT	GT	GT	GT
Accessories 3	DSW	DSW	DSW	DSW
Weight (lbs)	8	6	6	6

Tag	EAV-120	EAV-121	EAV-122	EAV-123
#	17	18	19	20
Qty	1	1	1	1
Model	RDV5	RDV5	RDV5	RDV5
Size 1	7	8	8	7
Unit Size	7	8	8	7
Inlet Dia	7	8	8	
Max Primary (CFM)	450	620	500	500
Min Primary (CFM)	450	150	500	90
Heat Min (CFM)	0	0	0	0
Inlet SP (in. w.g.)	1.00	1.00	1.00	1.00
Differential PD (in. w.g.)	0.75	0.75	0.75	
Downstream SP (in. w.g.)	0.25	0.25	0.25	0.25
Supply Air Temp (°F)	55.00	55.00	55.00	55.00
Return Air Temp (°F)	75.00	75.00	75.00	75.00
Coil Amps	0	0	0	0
Sequence	2000	2000	2000	2000
Accessories 1	PS	PS	PS	PS
Accessories 2	GT	GT	GT	GT
Accessories 3	DSW	DSW	DSW	DSW
Weight (lbs)	6	6	6	

Tag	EAV-124	EAV-127	EAV-128	EAV-135
#	21	22	23	24
Qty	1	1	1	1
Model	RDV5	RDV5	RDV5	RDV5
Size 1	6	7	6	6
Unit Size	6	7	6	6
Inlet Dia	6	7	6	6
Max Primary (CFM)	300	450	250	350
Min Primary (CFM)	70	180	125	350
Heat Min (CFM)	0	0	0	0
Inlet SP (in. w.g.)	1.00	1.00	1.00	1.00
Differential PD (in. w.g.)	0.75	0.75	0.75	0.75
Downstream SP (in. w.g.)	0.25	0.25	0.25	0.25
Supply Air Temp (°F)	55.00	55.00	55.00	55.00
Return Air Temp (°F)	75.00	75.00	75.00	75.00
Coil Amps	0	0	0	0
Sequence	2000	2000	2000	2000
Accessories 1	PS	PS	PS	PS
Accessories 2	GT	GT	GT	GT
Accessories 3	DSW	DSW	DSW	DSW
Weight (lbs)	5	6	5	5

Tag	EAV-137	EAV-138	EAV-139	EAV-140
#	25	26	27	28
Qty	1	1	1	1
Model	RDV5	RDV5	RDV5	RDV5
Size 1	6	6	6	7
Unit Size	6	6	6	7
Inlet Dia	6	6	6	7
Max Primary (CFM)	320	300	320	450
Min Primary (CFM)	320	70	320	450
Heat Min (CFM)	0	0	0	0
Inlet SP (in. w.g.)	1.00	1.00	1.00	1.00
Differential PD (in. w.g.)	0.75	0.75	0.75	0.75
Downstream SP (in. w.g.)	0.25	0.25	0.25	0.25
Supply Air Temp (°F)	55.00	55.00	55.00	55.00
Return Air Temp (°F)	75.00	75.00	75.00	75.00
Coil Amps	0	0	0	0
Sequence	2000	2000	2000	2000
Accessories 1	PS	PS	PS	PS
Accessories 2	GT	GT	GT	GT
Accessories 3	DSW	DSW	DSW	DSW
Weight (lbs)	5	5	5	6

Tag	EAV-141	EAV-143	EAV-145	EAV-146
#	29	30	31	32
Qty	1	1	1	1
Model	RDV5	RDV5	RDV5	RDV5
Size 1	6	9	8	5
Unit Size	6	9	8	5
Inlet Dia	6	9	8	5
Max Primary (CFM)	250	600	520	200
Min Primary (CFM)	180	600	520	200
Heat Min (CFM)	0	0	0	0
Inlet SP (in. w.g.)	1.00	1.00	1.00	1.00
Differential PD (in. w.g.)	0.75	0.75	0.75	0.75
Downstream SP (in. w.g.)	0.25	0.25	0.25	0.25
Supply Air Temp (°F)	55.00	55.00	55.00	55.00
Return Air Temp (°F)	75.00	75.00	75.00	75.00
Coil Amps	0	0	0	0
Sequence	2000	2000	2000	2000
Accessories 1	PS	PS	PS	PS
Accessories 2	GT	GT	GT	GT
Accessories 3	DSW	DSW	DSW	DSW
Weight (lbs)	5	10	6	8

Tag	EAV-148	EAV-149	EAV-152	EAV-153
#	33	34	35	36
Qty	1	1	1	1
Model	RDV5	RDV5	RDV5	RDV5
Size 1	5	8	9	9
Unit Size	5	8	9	9
Inlet Dia	5	8	9	9
Max Primary (CFM)	150	500	750	800
Min Primary (CFM)	150	0	390	440
Heat Min (CFM)	0	0	0	0
Inlet SP (in. w.g.)	1.00	1.00	1.00	1.00
Differential PD (in. w.g.)	0.75	0.75	0.75	0.75
Downstream SP (in. w.g.)	0.25	0.25	0.25	0.25
Supply Air Temp (°F)	55.00	55.00	55.00	55.00
Return Air Temp (°F)	75.00	75.00	75.00	75.00
Coil Amps	0	0	0	0
Sequence	2000	2000	2000	2000
Accessories 1	PS	PS	PS	PS
Accessories 2	GT	GT	GT	GT
Accessories 3	DSW	DSW	DSW	DSW
Weight (lbs)	8	6	10	10

Tag	EAV-160	EAV-161	EAV-163	EAV-165
#	37	38	39	40
Qty	1	1	1	1
Model	RDV5	RDV5	RDV5	RDV5
Size 1	10	10	14	12
Unit Size	10	10	14	12
Inlet Dia	10	10	14	12
Max Primary (CFM)	900	880	1000	1200
Min Primary (CFM)	230	230	450	430
Heat Min (CFM)	0	0	0	0
Inlet SP (in. w.g.)	1.00	1.00	1.00	1.00
Differential PD (in. w.g.)	0.75	0.75	0.75	0.75
Downstream SP (in. w.g.)	0.25	0.25	0.25	0.25
Supply Air Temp (°F)	55.00	55.00	55.00	55.00
Return Air Temp (°F)	75.00	75.00	75.00	75.00
Coil Amps	0	0	0	0
Sequence	2000	2000	2000	2000
Accessories 1	PS	PS	PS	PS
Accessories 2	GT	GT	GT	GT
Accessories 3	DSW	DSW	DSW	DSW
Weight (lbs)	10	10	14	12

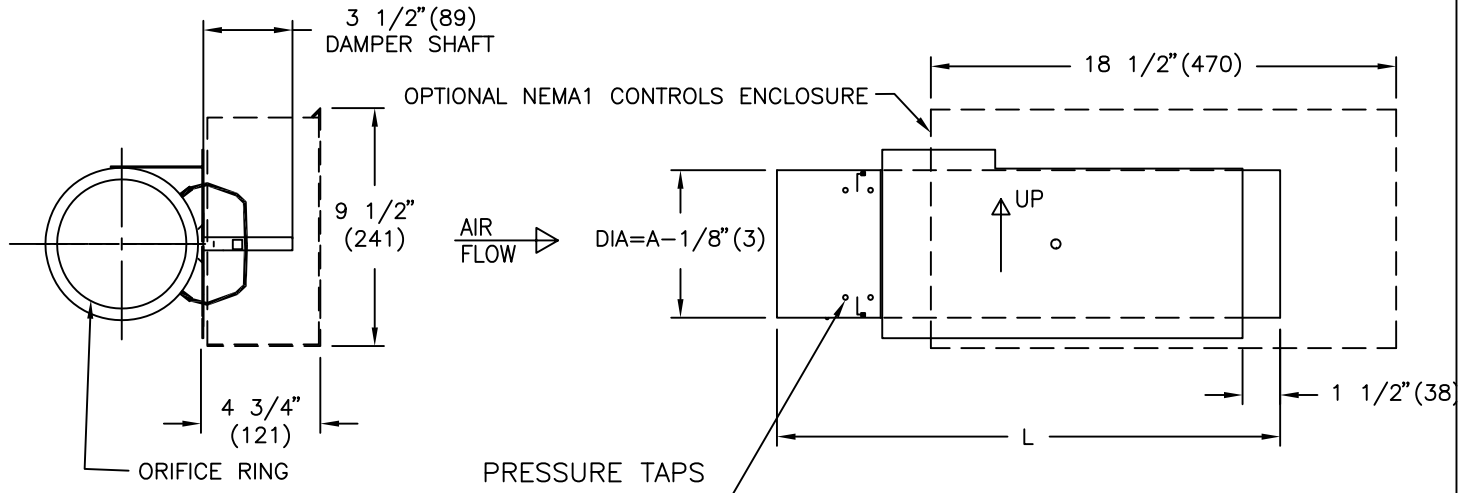
Tag	EAV-166	EAV-168	EAV-169	EAV-170
#	41	42	43	44
Qty	1	1	1	1
Model	RDV5	RDV5	RDV5	RDV5
Size 1	8	9	6	9
Unit Size	8	9	6	9
Inlet Dia	8	9	6	9
Max Primary (CFM)	480	680	250	600
Min Primary (CFM)	210	680	80	600
Heat Min (CFM)	0	0	0	0
Inlet SP (in. w.g.)	1.00	1.00	1.00	1.00
Differential PD (in. w.g.)	0.75	0.75	0.75	0.75
Downstream SP (in. w.g.)	0.25	0.25	0.25	0.25
Supply Air Temp (°F)	55.00	55.00	55.00	55.00
Return Air Temp (°F)	75.00	75.00	75.00	75.00
Coil Amps	0	0	0	0
Sequence	2000	2000	2000	2000
Accessories 1	PS	PS	PS	PS
Accessories 2	GT	GT	GT	GT
Accessories 3	DSW	DSW	DSW	DSW
Weight (lbs)	6	10	5	10



Performance Notes

Date Printed: 2/6/2025

1. Dashes (--) indicate NC values less than 20.
2. Sound power levels are given in decibels (dB).
3. Dashes (--) indicate sound power levels below 36-29-26-22-19-17 for each octave band; values below these sound power levels are considered below significance per AHRI 880.
4. Minimum operating pressure is the minimum static pressure required to operate the terminal item assembly at maximum primary flow with a wide open damper.
5. Airflow is given in cubic feet per minute (cfm).
6. Air pressure drop is given in inches water gauge (in. w.g.), and water pressure drop is given in feet of water gauge (ft. w.g.).



UNIT SIZE	MAX L/S	MAX CFM	S.I. UNITS mm		IMPERIAL UNITS in.	
			A	L	A	L
6	212	450	152	518	6	20 ³ / ₈
7	307	650	178		7	
8	378	800	203		8	
9	496	1050	229		9	
10	637	1350	254	530	10	20 ⁷ / ₈
12	991	2100	305	587	12	23 ¹ / ₈
14	1416	3000	356	613	14	24 ¹ / ₈
16	1888	4000	406	664	16	26 ¹ / ₈

NOTES:

- 22 GA. ZINC COATED STEEL HOUSING. MECHANICALLY SEALED AND GASKETED, LEAK RESISTANT CONSTRUCTION.
- PRESSURE INDEPENDENT.
- DIGITAL CONTROLS BY CONTROL CONTRACTOR.
- 20GA. ZINC COATED STEEL ORIFICE RING

OPTIONS:

☐ NEMA1 CONTROLS ENCLOSURE

☐ DISCONNECT SWITCH

☐ GT - BRASS AIRFLOW SENSOR GAUGE TAPS

ALL METRIC DIMENSIONS () ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

price®

BP

PXY60968

10/1/2018

RDV5000
SINGLE DUCT TERMINAL
AIR VOLUME
DIGITAL CONTROLS
WITH ORIFACE FLOWMETER