

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
Little Rock, AR 72231
Phone 501-834-3320
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Date: 5/17/2024

Return Request: 5/27/2024

Project: CALS Main Library Renovations

Supplier: Powers of Arkansas

Manufacturer: Titus

Submittal: Air Terminal Units

Submittal Number: 23 36 00-01

Drawing # and Installation: Mechanical Drawings

ARCHITECT

Polk Stanley Wilcox
801 South Spring St.
Little Rock, AR 72201
501-378-0878

ENGINEER

Bernhard
1 Allied Drive, Bldg. 2, Suite 2600
Little Rock, AR 72202
501-666-6776

GENERAL CONTRACTOR

CDI
3000 Cantrell Rd.
Little Rock, AR 72202
501-5666-4300

MECHANICAL SUBCONTRACTOR

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

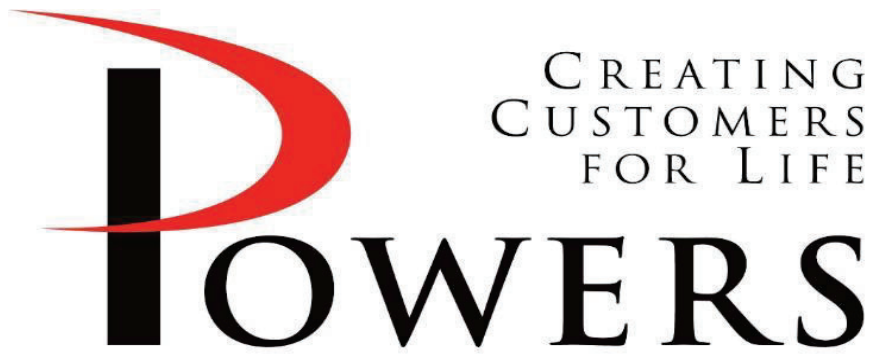
Notes:

CSUSA PROJECT NO.

23-8016

dpierce@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117



SUBMITTAL

PRODUCT	VAV Boxes with Hot Water Re-Heat
MANUFACTURER	Titus
JOB NAME	CALS Main Library Renovation
LOCATION	Little Rock, AR
ENGINEER	Bernhard TME
CONTRACTOR	Comfort Systems
DATE	5/14/2024
SUBMITTED BY	Courtney Michael

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

Single Duct Terminal Unit Schedule

Tag	Model	Size		CFM		Static Pressure			Hot Water Heat Coil								
		Unit	Outlet	Max	Min	Inlet	Down	Min	CFM	MBH	EAT	EWT	LAT	APd	GPM	LWT	WPd
ST-1-01	DESV	06	12x8	255	140	1	0.25	0.14	140	5.3	55	140	89.9	0.09	0.6	122.1	0.08
ST-1-02	DESV	10	14x12.5	950	250	1	0.25	0.28	525	19.8	55	140	89.7	0.27	3	126.6	0.6
ST-1-03	DESV	10	14x12.5	990	600	1	0.25	0.46	740	28.7	55	140	90.8	0.45	2.3	114.6	0.33
ST-1-04	DESV	12	16x15	1480	230	1	0.25	0.34	735	27.1	55	140	89	0.33	3.3	123.3	0.84
ST-2-01	DESV	10	14x12.5	740	300	1	0.25	0.19	470	17.8	55	140	89.9	0.18	2.3	124.3	0.36
ST-2-02	DESV	08	12x10	540	255	1	0.25	0.21	320	12.2	55	140	90.2	0.2	1.6	124.5	0.39
ST-2-03	DESV	06	12x8	250	120	1	0.25	0.14	130	5.1	55	140	91.3	0.09	0.6	122.7	0.08
ST-2-04	DESV	06	12x8	225	200	1	0.25	0.12	200	7.6	55	140	90.1	0.08	1	124.5	0.18
ST-3-06	DESV	06	12x8	425	115	1	0.25	0.36	240	9.2	55	140	90.2	0.21	1.4	126.7	0.25
ST-4-06	DESV	08	12x10	850	315	1	0.25	0.44	425	13.3	55	140	83.8	0.41	1.3	119.2	0.33
ST-B-01	DESV	08	12x10	580	145	1	0.25	0.23	445	16.3	55	140	88.7	0.22	3.5	130.6	1.69
ST-B-02	DESV	08	12x10	520	245	1	0.25	0.2	350	13.3	55	140	90	0.19	2	126.5	0.59
ST-B-03	DESV	06	12x8	240	145	1	0.25	0.13	165	6.4	55	140	90.9	0.08	0.8	123.7	0.13
ST-B-04	DESV	08	12x10	415	170	1	0.25	0.14	370	14.1	55	140	90.1	0.13	2.4	128.1	0.83
ST-B-05	DESV	06	12x8	310	145	1	0.25	0.21	155	5.9	55	140	90.3	0.13	0.7	122.8	0.11
ST-B-06	DESV	08	12x10	525	500	1	0.25	0.3	500	19.2	55	140	90.3	0.29	1.6	115.6	0.27
ST-B-07	DESV	08	12x10	440	405	1	0.25	0.23	405	15.7	55	140	90.8	0.22	1.2	113.4	0.18
ST-B-08	DESV	16	24x18	2240	1047	1	0.25	0.42	1200	46.6	55	140	90.8	0.4	2.8	106.1	0.15
ST-B-09	DESV	16	24x18	2240	1047	1	0.25	0.42	1200	46.6	55	140	90.8	0.4	2.8	106.1	0.15
ST-B-10	DESV	08	12x10	680	374	1	0.25	0.31	400	15.1	55	140	89.8	0.29	3	129.8	1.26
ST-B-11	DESV	08	12x10	527	390	1	0.25	0.3	490	19	55	140	90.8	0.29	1.6	115.8	0.27
ST-B-12	DESV	08	12x10	580	275	1	0.25	0.35	555	21.2	55	140	90.2	0.34	1.9	117.3	0.33

1. Selections are based on Titus as Manufacturer.
2. All performance based on tests conducted in accordance with ASHRAE 130-2008 and
3. All NC levels determined using AHRI 885-2008 Appendix E.
4. All airflow, pressure losses and heating performance values have been corrected for
5. Units of measure: dimensions (in), airflow (cfm), water flow (gpm), air pressure (in wg),
6. Water pressure drop (WPd) units is in ft. water.

ST-1-03 changed to 10" to meet airflow. Will coordinate to the sheet metal contractor

The results of this program are only an aid to the designer and are not a substitute for professional design services

DESV

Single Duct Terminal Unit, Direct Digital Control, Pressure Independent

Main Product DESV-1

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"
10	0 - 1400	10" Dia.	-	5 3/8"	14"	12 1/2"	3 3/8"	20 1/2"
12	0 - 2000	12" Dia.	-	5 3/8"	16"	15"	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"

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.

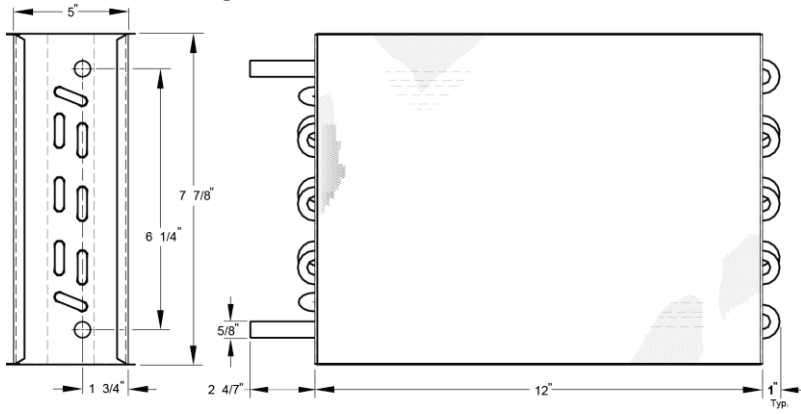
Option Schedule **DESV-1**

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
1	1	ST-1-01	06	255	140
2	1	ST-1-02	10	950	250
4	1	ST-1-04	12	1480	230
5	1	ST-2-01	10	740	300
6	1	ST-2-02	08	540	255
7	1	ST-2-03	06	250	120
8	1	ST-2-04	06	225	200
9	1	ST-3-06	06	425	115
10	1	ST-4-06	08	850	315
11	1	ST-B-01	08	580	145
12	1	ST-B-02	08	520	245
13	1	ST-B-03	06	240	145
14	1	ST-B-04	08	415	170
15	1	ST-B-05	06	310	145
20	1	ST-B-10	08	680	374

SENSOR CODE 3 - AEROCROSS
UNIT CONFIG 0 -BASIC
LINER OPTION M - 1" EcoShield (Foil Face)
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 E -METAL CTRL ENCLOS
UNIT ACC2 B -HANGER BRACKET
UNIT ACC3 D -TOGGLE DISC SW.
UNIT ACC4 0 -NONE
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

Accessories **DESV-1**

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



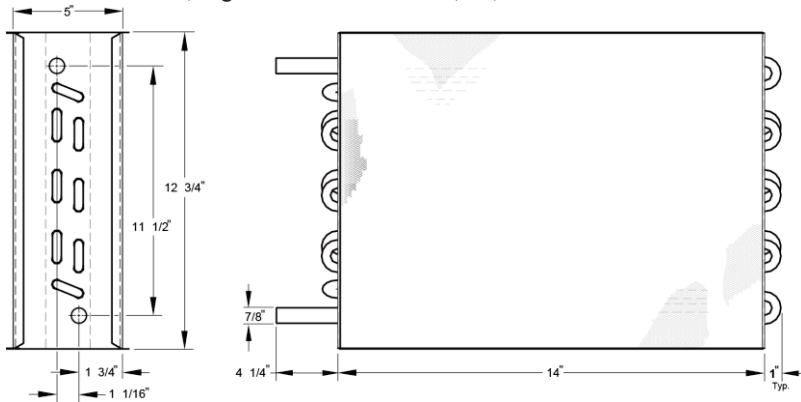
Accessories (continued)

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)
1.26	0.15

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



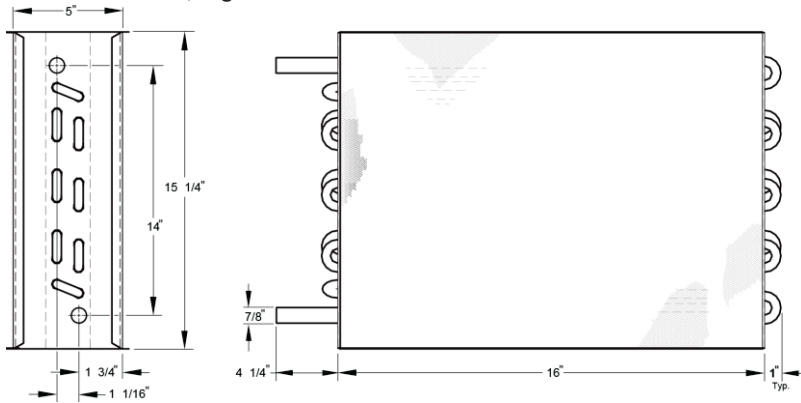
- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.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

Accessories (continued)

DESV-1

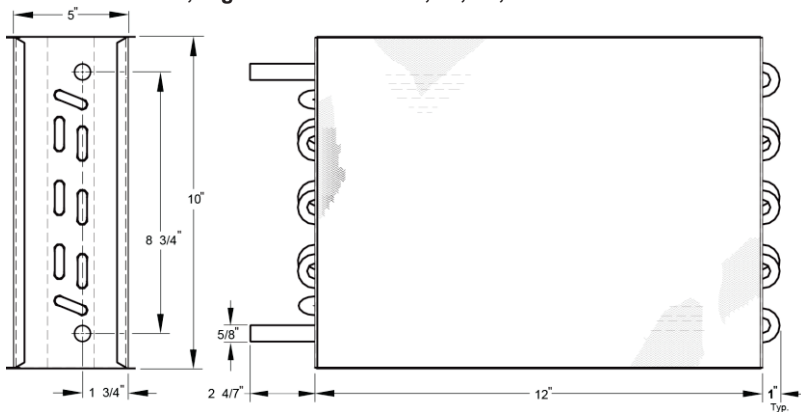
ESV Hot Water Reheat: 2-Row, Right Hand for size 12 & 1E



- 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 (ibs.)	Water Volume (gal)
3.45	0.41

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



Project CALS Main Library Renove
Architect
Engineer
Contractor
Designation VAV



Date 05/09/2024
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Version 2014.0.563

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)
1.82	0.22

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
10	0 - 1400	10" Dia.	-	5 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"
16	0 - 4000	16" Dia.	-	3 3/8"	24"	18"	3 3/8"	25 1/4"

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.

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

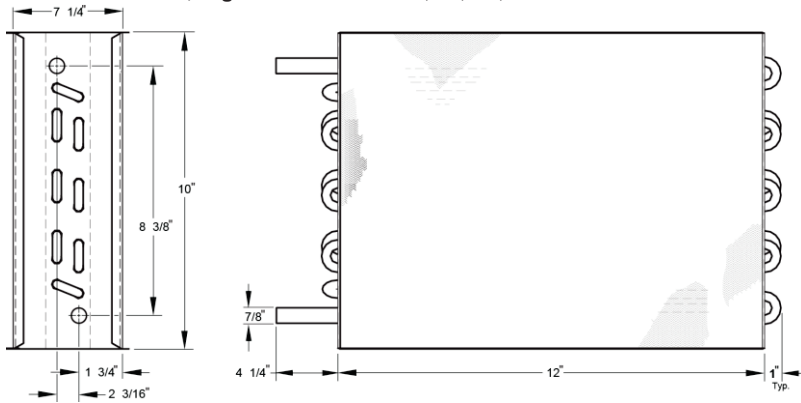
ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
3	1	ST-1-03	10	990	600
16	1	ST-B-06	08	525	500
17	1	ST-B-07	08	440	405
18	1	ST-B-08	16	2240	1047
19	1	ST-B-09	16	2240	1047
21	1	ST-B-11	08	527	390
22	1	ST-B-12	08	580	275

Option Schedule (continued)	DESV-1 (2)
<p>SENSOR CODE 3 - AEROCROSS UNIT CONFIG 0 -BASIC LINER OPTION M - 1" EcoShield (Foil Face) 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 E -METAL CTRL ENCLOS UNIT ACC2 B -HANGER BRACKET</p>	<p>UNIT ACC3 D -TOGGLE DISC SW. UNIT ACC4 0 -NONE 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</p>

Accessories	DESV-1 (2)				
ESV Hot Water Reheat: 3-Row, Right Hand for size 09, 10, 7E, & 8E					
<ul style="list-style-type: none"> • 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 					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">Water Weight (lbs.)</th> <th style="text-align: center; padding: 5px;">Water Volume (gal)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">3.47</td> <td style="text-align: center; padding: 5px;">0.42</td> </tr> </tbody> </table>	Water Weight (lbs.)	Water Volume (gal)	3.47	0.42	
Water Weight (lbs.)	Water Volume (gal)				
3.47	0.42				

Accessories (continued) DESV-1 (2)

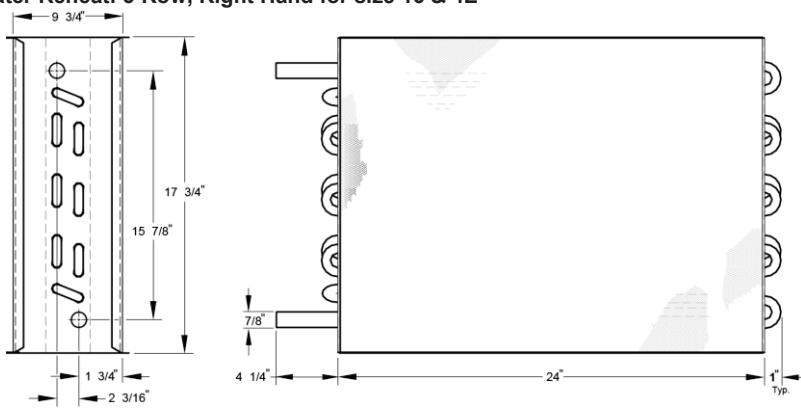
ESV Hot Water Reheat: 3-Row, Right Hand for size 07, 08, 5E, & 6E



- 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 16 & 4E



Project CALS Main Library Renove
Architect
Engineer
Contractor
Designation VAV



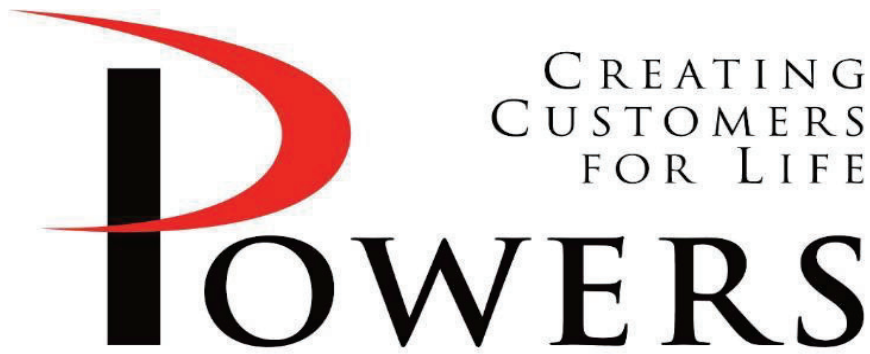
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Preparer CMICHAEL
Version 2014.0.563

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)
6.83	0.82



SUBMITTAL

PRODUCT	Underfloor Fan-Powered Boxes
MANUFACTURER	Titus
JOB NAME	CALS Main Library Renovation
LOCATION	Little Rock, AR
ENGINEER	Bernhard TME
CONTRACTOR	Comfort Systems
DATE	5/14/2024
SUBMITTED BY	Courtney Michael

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

Fan Powered Terminal Unit Schedule

Tag	Model	Size			CFM		Static Pressure		Fan				Hot Water Heat Coil								Electric		
		Unit	Inlet	Outlet	Max	Min	Inlet	Down	CFM	ESP	Hp	Volt/Ph	CFM	MBH	EAT	LAT	APd	GPM	EWT	LWT	WPd	MCA	MOP
FPT-5-1	DLHK	04	10	18.5x13	465	465	1	0.25	930	0.41	0.33	277/1	930	16.1	65	83	0.16	0.8	140	99	0.25	3.1	15
FPT-5-2	DLHK	04	10	18.5x13	850	850	1	0.25	1000	0.43	0.33	277/1	1000	25.3	57.3	81.5	0.18	1.5	140	106	0.59	3.1	15
FPT-5-3	DLHK	04	10	18.5x13	850	850	1	0.25	1000	0.43	0.33	277/1	1000	23.5	63.3	84.9	0.18	1.5	140	108	0.59	3.1	15
FPT-5-4	DLHK	03	09	18.5x10	200	200	1	0.25	450	0.3	0.25	277/1	450	14.5	63.9	93.5	0.05	1	140	111	0.36	2.2	15
FPT-5-5	DLHK	03	09	18.5x10	320	320	1	0.25	640	0.34	0.25	277/1	640	15.6	65	87.4	0.09	0.9	140	105	0.3	2.2	15
FPT-5-6	DLHK	04	10	18.5x13	325	325	1	0.25	960	0.42	0.33	277/1	960	21.4	61.8	82.3	0.17	1.2	140	104	0.47	3.1	15
FPT-5-7	DLHK	03	09	18.5x10	365	365	1	0.25	730	0.31	0.25	277/1	730	12.5	65	83.8	0.06	2	140	127	0.49	2.2	15
FPT-5-8	DLHK	03	09	18.5x10	175	175	1	0.25	540	0.28	0.25	277/1	540	11.6	61.5	82.2	0.03	2	140	128	0.49	2.2	15
FPT-5-9	DLHK	03	09	18.5x10	290	290	1	0.25	700	0.35	0.25	277/1	700	14.7	66.7	86	0.1	0.8	140	103	0.25	2.2	15
FPT-5-10	DLHK	03	09	18.5x10	290	290	1	0.25	580	0.29	0.25	277/1	580	12.5	65	84.8	0.04	4.1	140	134	1.88	2.2	15
FPT-5-11	DLHK	04	10	18.5x13	575	575	1	0.25	1050	0.45	0.33	277/1	1050	18.9	66	82.5	0.2	1	140	102	0.36	3.1	15
FPT-5-12	DLHK	04	10	18.5x13	575	575	575	0.25	1050	0.45	0.33	277/1	1050	20.8	66	84.2	0.2	1.2	140	105	0.46	3.1	15
FPT-5-13	DLHK	03	09	18.5x10	275	275	1	0.25	550	0.29	0.25	277/1	550	11.2	65	83.7	0.04	2	140	129	0.49	2.2	15

1. Selections are based on Titus as Manufacturer.
2. All performance based on tests conducted in accordance with ASHRAE 130-
3. All NC levels determined using AHRI 885-2008 Appendix E.
4. All airflow, pressure losses and heating performance values have been
5. Units of measure: dimensions (in), airflow (cfm), water flow (gpm), air pressure
6. Water pressure drop (WPd) units is in ft. water.

SUBMITTAL NOTES

- FPT-5-2: Adjusted heating and fan CFM to get close to design LAT/MBH
- FPT-5-3: Adjusted heating and fan CFM to get close to design LAT/MBH
- FPT-5-4: Changed to size 3. Airflow was less than minimum for size. Adjusted fan and heat cfm's to get close to design and meet the minimum for the box.
- FPT-5-9: Changed to size 3
- FPT-5-10: Changed to size 3
- FPT-5-11: Changed airflow to 1,050 instead of 1,150 and adjusted heating cfm to stay within the maximum for the box and meet design.
- FPT-5-12: Same as 5-11 above
- FPT-5-13: Changed to size 3

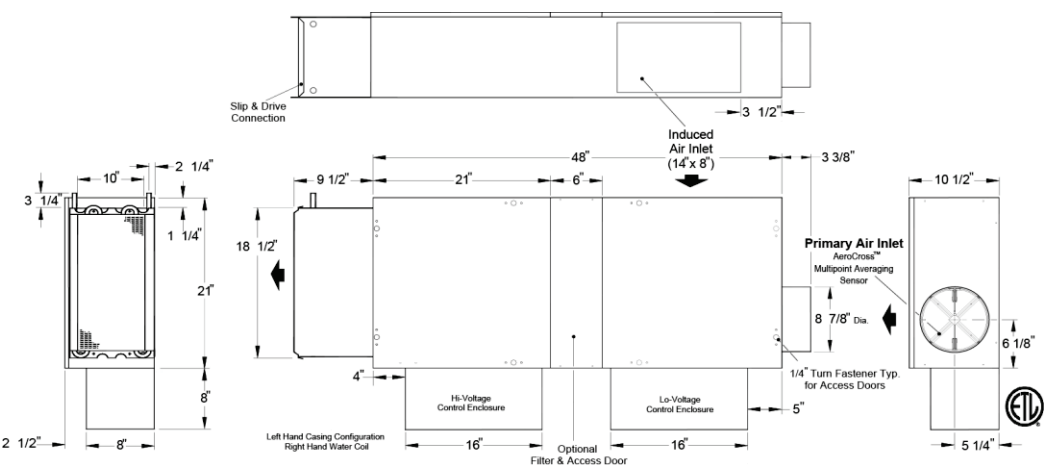
PLEASE VERIFY IF THESE CHANGES ARE ACCEPTABLE FROM THE DESIGN TEAM

DLHK

Digital Access Floor Series Fan Powered Terminal

Main Product **DLHK-1**

DLHK



- 1/2" copper tubes
- Aluminum ripple fins, 10 per inch
- Connections: Male solder, 1/2" for 1-row and 7/8" for 2-row. Left or right hand connections.
- Galvanized steel casing.
- Slip and drive duct connection.
- Coil is installed at discharge of unit.

General Description **DLHK-1**

- The LHK fan powered terminal is designed to be installed in the underfloor plenum of an access floor grid system.
- 20 gauge steel casing.
- Dual density insulation, coated to prevent air erosion, meet requirements of NFPA 90A and UL 181.
- Adjustable SCR fan speed control with minimum voltage stop.
- Multipoint, center averaging velocity sensor.
- Top access panels can be removed for service of damper, blower, or filter sections.
- Energy efficient fan motor, permanent split capacitor type, mounted in vibration isolators.
- Primary air flow balancing connections.
- Pressure independent primary flow control.
- Single point electrical connections.
- Rectangular discharge opening is designed for flanged duct connections.

Option Schedule **DLHK-1**

ID	Quantity	Tag	UNIT SIZE	FAN BOX INLET SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM	FAN CFM
8	1	FPT-5-7	3	09	365	365	730
9	1	FPT-5-8	3	09	175	175	540
11	1	FPT-5-10	3	09	290	290	580
14	1	FPT-5-13	3	09	275	275	550

Project CALS Main Library Renovat
Architect
Engineer
Contractor
Designation FAN VAV



Date 05/14/2024
Office Powers of Arkansas
Preparer CMICHAEL
Version 2014.0.563

Option Schedule (continued)	DLHK-1
<p> SENSOR CODE 3 - AEROCROSS LINER OPTION 0 - 1/2" Fiberglass FAN MOTOR VOLTAGE C -277V DIGITAL CONTROLLER 0000 -NONE ACTUATOR TYPE 0000 -NONE CONTROL ACC1 00 -NONE CONTROL ACC2 00 -NONE CONTROL ACC3 00 -NONE UNIT ACC1 E -METAL CTRL ENCLOS UNIT ACC2 F -IND. AIR FILTER </p>	<p> UNIT ACC3 D -TOGGLE DISC SW. UNIT ACC4 0 -NONE 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 </p>

Accessories	DLHK-1								
<p>Motor Amperage Rating</p> <p>FLA = Full Load Amperage, as tested in accordance with UL 1995 All fan motors are single phase, same voltage as electric coil (when supplied), with exception that 277V motors are used with 480V, 3 phase coils (4 wire wye).</p>									
<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">UNIT SIZE</th> <th style="text-align: center;">Motor HP</th> <th style="text-align: center;">Voltage/Type</th> <th style="text-align: center;">FLA</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">1/4</td> <td style="text-align: center;">277V PSC</td> <td style="text-align: center;">1.8</td> </tr> </tbody> </table>		UNIT SIZE	Motor HP	Voltage/Type	FLA	3	1/4	277V PSC	1.8
UNIT SIZE	Motor HP	Voltage/Type	FLA						
3	1/4	277V PSC	1.8						
<p>Selected Liner: 1/2" Fiberglass Insulation</p> <p>Insulation Characteristics: Material: Dual Density Fiberglass Thickness: 1/2 inch R-Value: 1.9 ft2 °F h/Btu @ 75°F Density: 1.5 lbs/ft3 with 4.0 lbs/ft3 face Flame Spread: less than 25 Smoke Density: less than 50 Mold Growth: None</p> <p>Code Compliances: NFPA 90A & 90B - Appliances NFPA 255 - Flame / Smoke Spread (25/50) UL 181 - Air Erosion UL 181 - Mold Growth and Humidity UL 723 - Flame / Smoke Spread (25/50) ASTM E84 - Flame / Smoke Spread (25/50) ASTM C 1071 - Maximum Air Velocity</p>									



DLHK

Digital Access Floor Series Fan Powered Terminal

General Description	DLHK-1 (2)
<ul style="list-style-type: none"> • The LHK fan powered terminal is designed to be installed in the underfloor plenum of an access floor grid system. • 20 gauge steel casing. • Dual density insulation, coated to prevent air erosion, meet requirements of NFPA 90A and UL 181. • Adjustable SCR fan speed control with minimum voltage stop. • Multipoint, center averaging velocity sensor. • Top access panels can be removed for service of damper, blower, or filter sections. • Energy efficient fan motor, permanent split capacitor type, mounted in vibration isolators. • Primary air flow balancing connections. • Pressure independent primary flow control. • Single point electrical connections. • Rectangular discharge opening is designed for flanged duct connections. 	

Option Schedule								DLHK-1 (2)
ID	Quantity	Tag	UNIT SIZE	FAN BOX INLET SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM	FAN CFM	
2	1	FPT-5-1	4	10	465	465	930	
3	1	FPT-5-2	4	10	850	850	1000	
4	1	FPT-5-3	4	10	850	850	1000	
5	1	FPT-5-4	3	09	200	200	450	
6	1	FPT-5-5	3	09	320	320	640	
7	1	FPT-5-6	4	10	325	325	960	
10	1	FPT-5-9	3	09	290	290	700	
12	1	FPT-5-11	4	10	575	575	1050	
13	1	FPT-5-12	4	10	575	575	1050	
<p> SENSOR CODE 3 - AEROCROSS LINER OPTION 0 - 1/2" Fiberglass FAN MOTOR VOLTAGE C -277V DIGITAL CONTROLLER 0000 -NONE ACTUATOR TYPE 0000 -NONE CONTROL ACC1 00 -NONE CONTROL ACC2 00 -NONE CONTROL ACC3 00 -NONE UNIT ACC1 E -METAL CTRL ENCLOS UNIT ACC2 F -IND. AIR FILTER </p> <p> UNIT ACC3 D -TOGGLE DISC SW. UNIT ACC4 0 -NONE 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 </p>								

Accessories	DLHK-1 (2)
<p>Motor Amperage Rating</p> <p>FLA = Full Load Amperage, as tested in accordance with UL 1995</p> <p>All fan motors are single phase, same voltage as electric coil (when supplied), with exception that 277V motors are used with 480V, 3 phase coils (4 wire wye).</p>	

Project CALS Main Library Renovat
Architect
Engineer
Contractor
Designation FAN VAV



Date 05/14/2024
Office Powers of Arkansas
Preparer CMICHAEL
Version 2014.0.563

Accessories (continued) DLHK-1 (2)

UNIT SIZE	Motor HP	Voltage/Type	FLA
4	1/3	277V PSC	2.5
3	1/4	277V PSC	1.8

Selected Liner: 1/2" Fiberglass Insulation

Insulation Characteristics:
 Material: Dual Density Fiberglass
 Thickness: 1/2 inch
 R-Value: 1.9 ft² °F h/Btu @ 75°F
 Density: 1.5 lbs/ft³ with 4.0 lbs/ft³ face
 Flame Spread: less than 25
 Smoke Density: less than 50
 Mold Growth: None

Code Compliances:
 NFPA 90A & 90B - Appliances
 NFPA 255 - Flame / Smoke Spread (25/50)
 UL 181 - Air Erosion
 UL 181 - Mold Growth and Humidity
 UL 723 - Flame / Smoke Spread (25/50)
 ASTM E84 - Flame / Smoke Spread (25/50)
 ASTM C 1071 - Maximum Air Velocity