SK-23-0244 - Global Impact STEM Academy

572 E. Leffel Lane
Springfield , Ohio 45505
United States

Marker, Inc.
2011 Riverside Dr
Columbus, Ohio 43221
United States
(614) 754-8349

Title
Aire Terminal Units - Submittals

Submittal Manager
Andrew Burson

Spec Section
23 36 00 - Air Terminal Units

Type
Other

Number
23 36 00-1

Rev
0

Description
A. Provide the following: 1. Single duct air terminal boxes 2. Operation and maintenance data (for all above items) 3. Sound data

Contractor's Stamp

MARKER

☐ Reviewed ☐ Reviewed As Noted
☐ Rejected ☐ Revise & Resubmit

Andrew Burson By _____ Date 2.5.2024

This review is only for general conformance of the project and general compliance. Corrections or comments made during this review does not relieve the Vendor from compliance with the requirements of the plans and specifications. Vendor is responsible for all dimensions and fabrication to be confirmed and correlated at the job site.

Architect's Stamp

WSA

☒ NO EXCEPTIONS ☐ REJECTED
☐ EXCEPTIONS NOTED ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☐ NOT REVIEWED

Approval is only for general conformance with the design concept of the Project and the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; information that pertains soley to the fabrication process or to the means and methods of construction; coordination of the work of all trades; and performing all work in a safe and satisfactory manner. This approval does not modify Contractor's duty to comply with the Contract Documents.

Aleah Springer 02/13/2024
WSA STUDIO DATE

Engineer's Stamp

Contractor to verify sizes, quantities, and control box locations.

☒ APPROVED ☐ FURNISH AS CORRECTED
☐ REJECTED ☐ REVISE AND RESUBMIT
☐ SUBMIT SPECIFIED ITEM

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Modifications or comments made on the shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

HAWA INCORPORATED
CONSULTING ENGINEERS

Date 02-07-24 By TSK

TP Mechanical
CONTRACTORS | SERVICE | FABRICATION

SUBMITTAL DATA

Project:	**Global Impact STEM Academy**
Bid Category :	**HVAC**
Project No.:	**E1152**
TP Tab No.:	**313**
Construction Manager:	**Marker**
Architect/Engineer:	**WSA/HAWA**
Submittal For:	**VAV Boxes**
Specification #:	**23 36 00**
Manufacturer:	**Price**
Supplier:	**EAP**

The attached submittal data has been reviewed by TP Mechanical Contractors for compliance with the Architect/Engineer's specifications and plan schedule for this project.

In order to maintain the project schedule, we request that this submittal be returned to TP Mechanical Contractors **within 7 days**.

NOTE: Material cannot be released without Architect/Engineer's approval of submittal.

(Please place stamp of approval here)

X PRODUCT DATA
_____ DRAWINGS
2/2/24 DATE SUBMITTED
_____ DATE RESUBMITTED

T. P. MECHANICAL CONTRACTORS

BY Bridget Ellis

This drawing or brochure has been checked to quality or proper components only. Approval of this drawing or brochure shall not relieve the supplier of responsibility for accuracy or dimensions of full compliance with plans and specifications and purchase order.

2064 Drill Avenue Dayton, OH 45414 937-985-9133 FAX 513-851-0612

Terminals
Submittals

Job Name: Global Impact STEM Academy Upper Campus
Engineer: HAWA
Contractor: TP Mechanical
Date Printed: 1/31/2024
Spec Section: 15 - HVAC

Contact: EAP, Josh Wolfe
3930 VIRGINIA AVE
CINCINNATI, OH 45227

Phone: 513-332-2092
Email: jwolfe@eapnet.com

price®

All-In-One
Detailed Submittal Schedule
Terminals

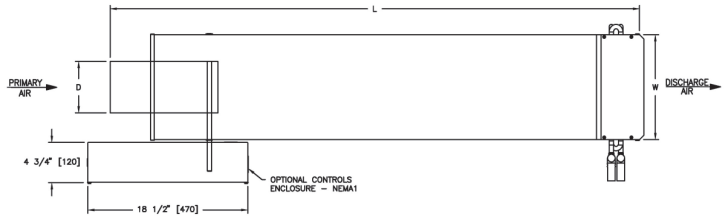
#	Qty	Model	Tag	Unit Size	Max Primary (CFM)	Min Primary (CFM)	Min Oper PD (in. w.g.)	Max Dis NC	Max Rad NC	Reheat (CFM)	WC Capacity (MBH)	EAT (°F)	LAT (°F)	Fluid Flow (GPM)		FPD (ft. w.g.)	Fluid Type	Rows	EWT (°F)	LWT (°F)
44	1	SDV	1-1-1 (VVR14)	14	1475	450	0.28	--	--	738	26.50	55.00	88.00	2.95		1.27	WTR	2R	120.00	101.90
45	1	SDV	1-1-2 (VVR16)	16	1900	590	0.30	--	20 (3)	950	34.00	55.00	88.00	3.88		2.21	WTR	2R	120.00	102.30
46	1	SDV	1-1-3 (VVR12)	12	960	192	0.25	--	--	480	17.20	55.00	88.00	1.98		1.40	WTR	2R	120.00	102.40
47	1	SDV	1-1-4 (VV6)	6	300	60	0.08	26 (2)	21 (3)											
48	1	SDV	1-1-5 (VVR12)	12	950	790	0.32	--	--	790	28.30	55.00	88.00	3.63		4.14	WTR	2R	120.00	104.20
49	1	SDV	1-1-6 (VVR14)	14	1540	430	0.30	--	--	770	27.60	55.00	88.00	3.20		1.47	WTR	2R	120.00	102.50
50	1	SDV	1-1-7 (VVR14)	14	1535	430	0.30	--	--	770	27.60	55.00	88.00	3.20		1.47	WTR	2R	120.00	102.50
51	1	SDV	1-1-8 (VVR10)	10	650	130	0.22	20 (2)	--	325	11.70	55.00	88.00	1.31		0.55	WTR	2R	120.00	101.90
52	1	SDV	1-1-9 (VVR10)	10	850	170	0.34	20 (2)	--	425	15.30	55.00	88.00	2.27		1.45	WTR	2R	120.00	106.40
53	1	SDV	1-1-10 (VVR12)	12	1250	890	0.28	--	21 (4)	890	31.90	55.00	88.00	2.99		1.31	WTR	2R	120.00	98.40
54	1	SDV	1-1-11 (VVR24x16)	24x16	2520	540	0.25	20 (3)	27 (3)	1260	49.20	55.00	91.00	5.17		4.45	WTR	2R	120.00	100.80
55	1	SDV	1-1-12 (VVR24x16)	24x16	2520	540	0.25	20 (3)	27 (3)	1260	49.20	55.00	91.00	5.17		4.45	WTR	2R	120.00	100.80
56	1	SDV	1-1-13 (VVR8)	8	555	111	0.31	24 (2)	--	278	10.00	55.00	88.00	1.48		0.53	WTR	2R	120.00	106.30
57	1	SDV	1-1-14 (VVR5)	5	210	42	0.09	29 (2)	20 (2)	105	4.20	55.00	91.00	0.46		0.05	WTR	2R	120.00	101.50
58	1	SDV	1-1-15 (VVR10)	10	885	177	0.36	20 (2)	--	443	15.90	55.00	88.00	2.52		1.74	WTR	2R	120.00	107.20
59	1	SDV	1-1-16 (VVR5)	5	220	44	0.10	30 (2)	21 (2)	110	4.40	55.00	91.00	0.49		0.06	WTR	2R	120.00	102.10
60	1	SDV	1-1-17 (VVR7)	7	375	75	0.19	21 (3)	--	188	7.40	55.00	91.00	0.98		0.26	WTR	2R	120.00	104.60
61	1	SDV	1-1-18 (VVR12)	12	1065	213	0.30	--	--	533	19.10	55.00	88.00	2.44		2.04	WTR	2R	120.00	104.20
62	1	SDV	1-1-19 (VVR12)	12	1285	257	0.23	--	21 (4)	643	23.10	55.00	88.00	2.31		0.83	WTR	2R	120.00	99.80
63	1	SDV	1-1-20 (VVR6)	6	345	69	0.29	28 (2)	23 (3)	173	6.80	55.00	91.00	1.27		0.31	WTR	2R	120.00	109.10
64	1	SDV	1-1-21 (VVR5)	5	150	30	0.06	24 (2)	--	75	3.00	55.00	91.00	0.29		0.02	WTR	2R	120.00	98.70
65	1	SDV	1-1-22 (VVR7)	7	390	78	0.21	23 (3)	--	195	7.70	55.00	91.00	1.05		0.29	WTR	2R	120.00	105.20
66	1	SDV	1-1-23 (VVR7)	7	355	71	0.17	21 (3)	--	178	7.00	55.00	91.00	0.88		0.21	WTR	2R	120.00	103.90
67	1	SDV	1-1-24 (VVR8HH)	8	400	80	0.27	20 (2)	--	400	14.80	55.00	89.00	1.25		0.59	WTR	3R	120.00	96.20
68	1	SDV	1-1-25 (VVR12)	12	750	695	0.12	--	--	695	24.90	55.00	88.00	2.02		0.66	WTR	2R	120.00	95.10
69	1	SDV	1-1-26 (VVR12)	12	1230	745	0.27	--	21 (4)	745	26.70	55.00	88.00	2.24		0.79	WTR	2R	120.00	95.90
70	1	SDV	1-1-27 (VVR14)	14	1785	357	0.39	--	20 (4)	893	32.00	55.00	88.00	4.34		2.53	WTR	2R	120.00	105.10
71	1	SDV	1-1-28 (VVR12)	12	1260	885	0.28	--	21 (4)	885	31.70	55.00	88.00	2.96		1.29	WTR	2R	120.00	98.30
72	1	SDV	1-1-29 (VVR10)	10	855	220	0.34	20 (2)	--	428	15.40	55.00	88.00	2.31		1.50	WTR	2R	120.00	106.50
73	1	SDV	1-1-30 (VVR14)	14	1560	860	0.31	--	--	860	30.80	55.00	88.00	4.00		2.19	WTR	2R	120.00	104.40

Performance Notes

Date Printed: 1/31/2024

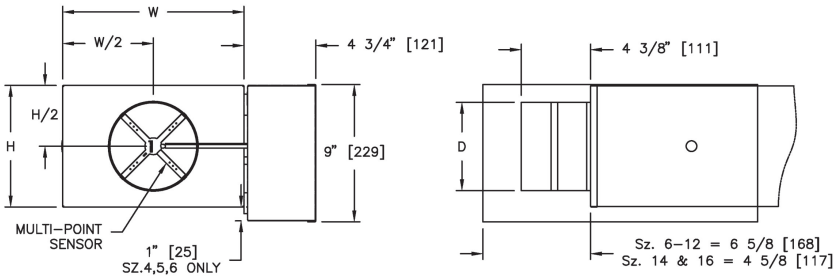
1. Dashes (--) indicate NC values less than 20.
2. NC values are calculated based on procedures outlined in AHRI Standard 885-2008, “A Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets.”
3. Sound power levels are given in decibels (dB).
4. Dashes (--) 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.
5. Minimum operating pressure is the minimum static pressure required to operate the terminal item assembly at maximum primary flow with a wide open damper.
6. Airflow is given in cubic feet per minute (cfm).
7. 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.).
8. NC values are derived from sound power levels obtained in accordance with ASHRAE Standard 130-2016 and AHRI Standard 880-2017, which include duct end reflection corrections.
9. Water coil performance is rated and certified in accordance with the latest edition of AHRI Standard 410.

SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
14	14	13 7/8	N/A	20	17 1/2	45 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

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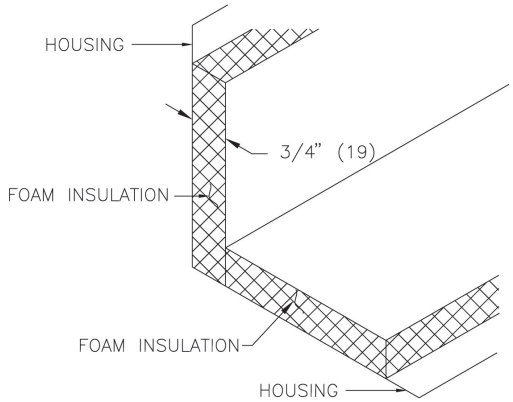
VAV Terminals
AHRI Standard 880

Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3

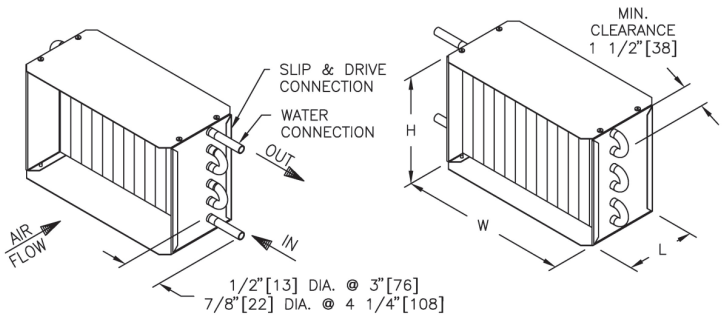


PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/14/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0//////////450,430,357,860/1475,1540,1535,1785,1560/0/0/738,770,893,860/AD/4x6////115-24V/DSW////////////////////2000

All metric dimensions () are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
Information within this document is subject to change without notice.

Water Coil: 2R

2 Row Right Hand



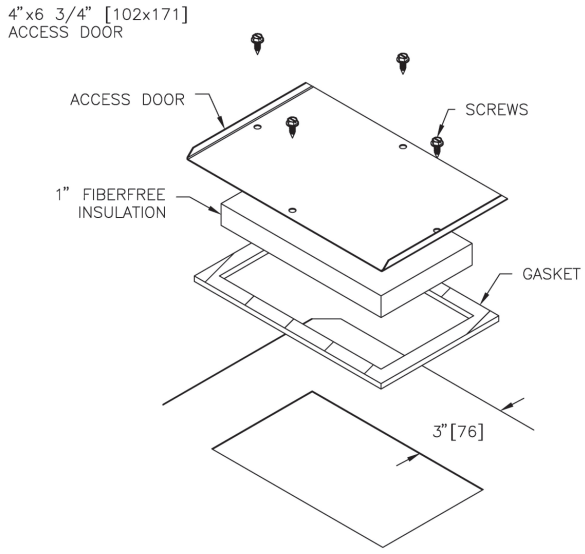
Unit Size	Coil Rows	W	H	L	Coil Connection
14	2	20	17 1/2	5	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- Standard coils supplied with 10 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

Insulated Access Door c/w Screws



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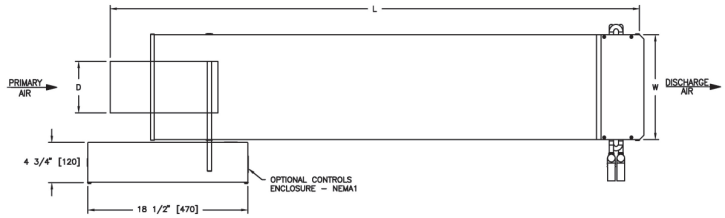
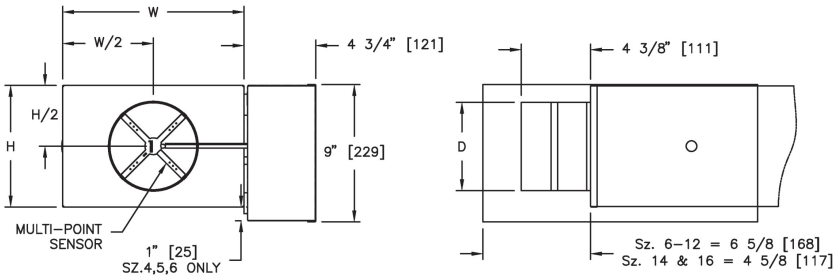
SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
16	16	15 7/8	N/A	24	18	45 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

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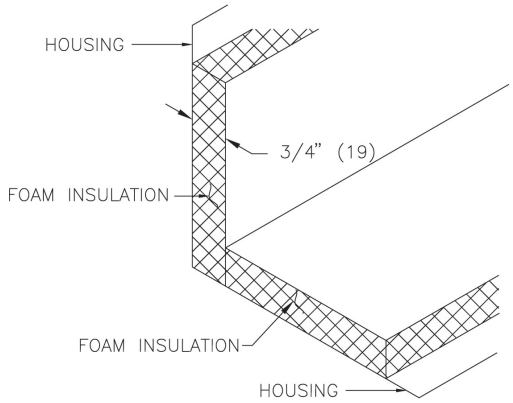
VAV Terminals
AHRI Standard 880

Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/16/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0//////////590/1900/0/0/950/AD/4x6////115-24V/DSW////////////////////2000

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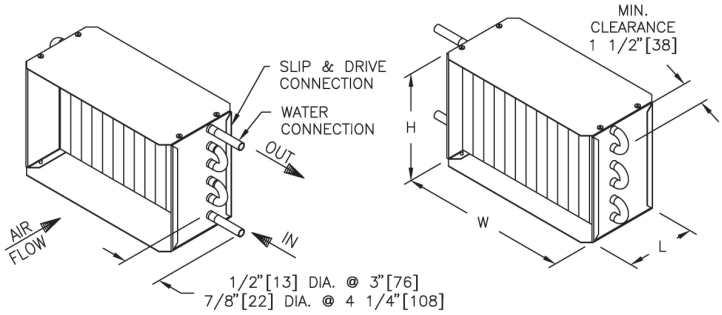
Water Coil: 2R

2 Row Right Hand



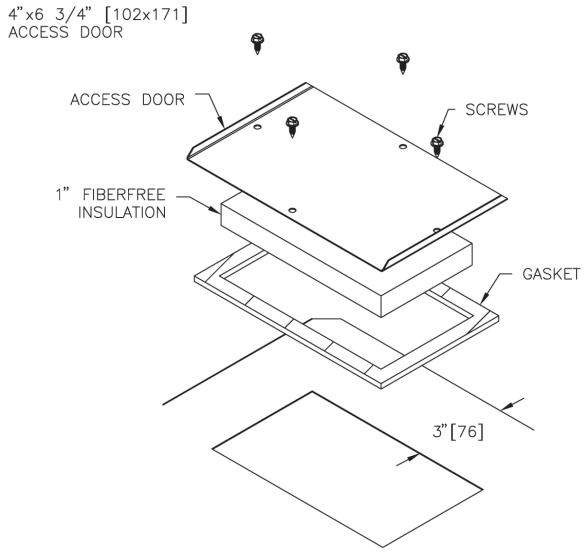
Unit Size	Coil Rows	W	H	L	Coil Connection
16	2	24	18	5	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- Standard coils supplied with 10 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

Insulated Access Door c/w Screws



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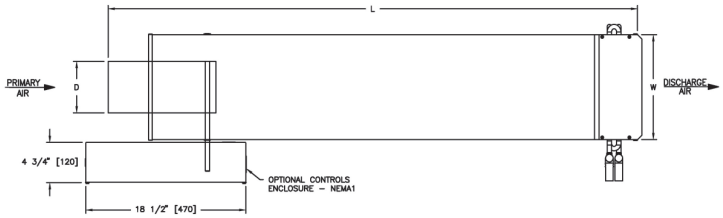
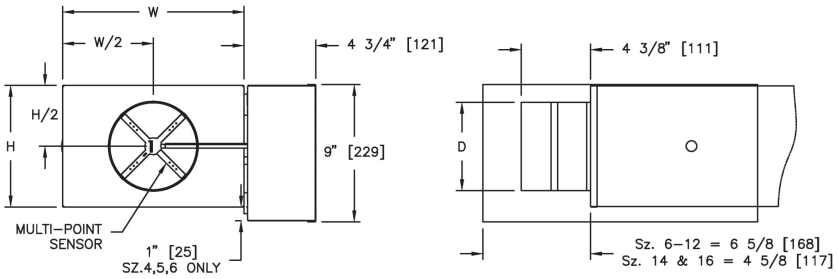
SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
12	12	11 7/8	N/A	16	15	45 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
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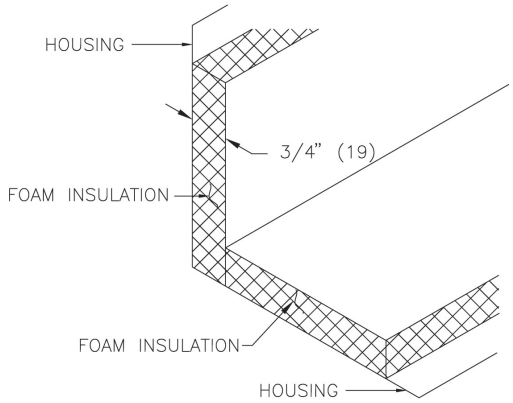
Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3



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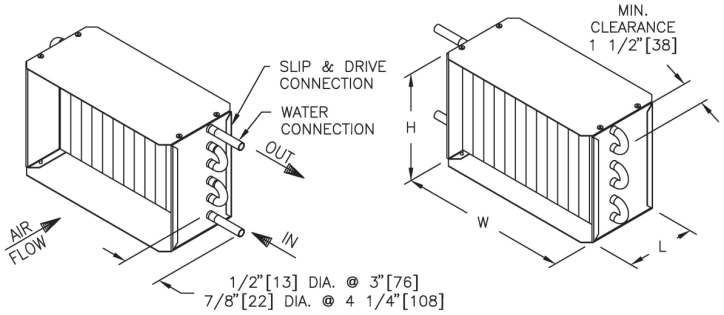
Water Coil: 2R

2 Row Right Hand



Unit Size	Coil Rows	W	H	L	Coil Connection
12	2	16	15	5	7/8

Water Coil Notes

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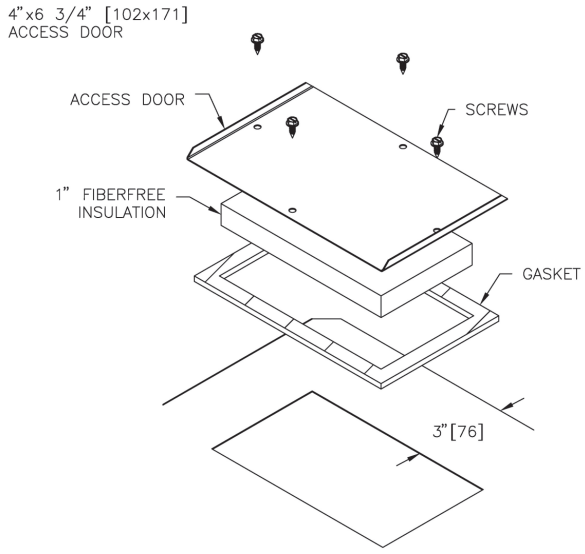
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- Standard coils supplied with 10 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

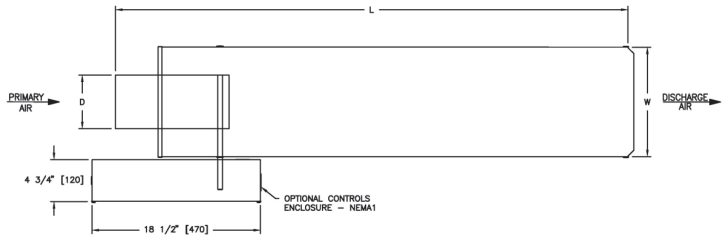
Insulated Access Door c/w Screws



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/12/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////192,213/960,1065/0/0/480,533/AD/4x6////115-24V/DSW////////// //////////2000

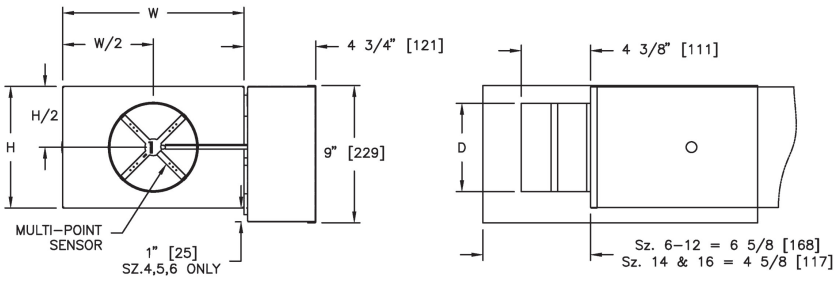
All metric dimensions () are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
Information within this document is subject to change without notice.

SDV Single Duct w/ 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
6	6	5 7/8	N/A	12	8	40 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.

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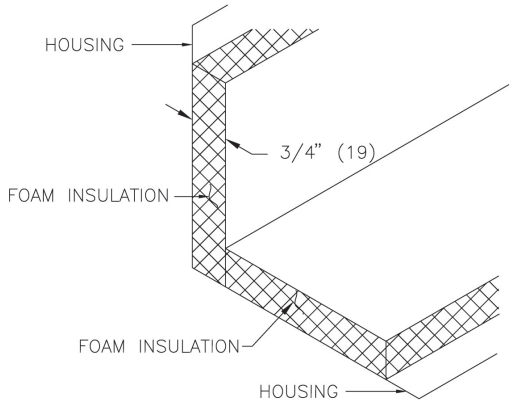
VAV Terminals
AHRI Standard 880

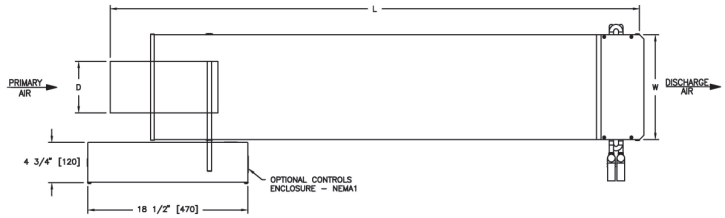
Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3



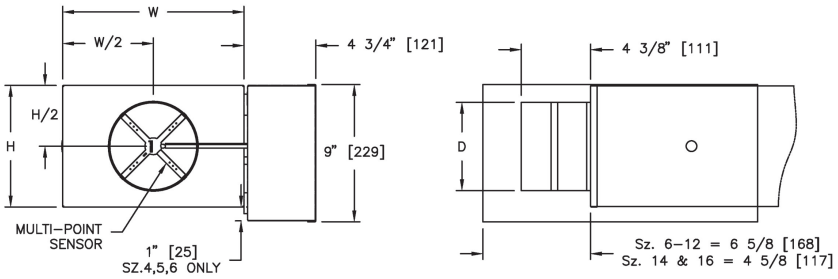
PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/6/FLD/ATT//CFM/CRH/FF75//22GA/PS//////0.00//////////////0.0/////////60/300/0/0/0//////115-24V/////////////////////2000

SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
12	12	11 7/8	N/A	16	15	45 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

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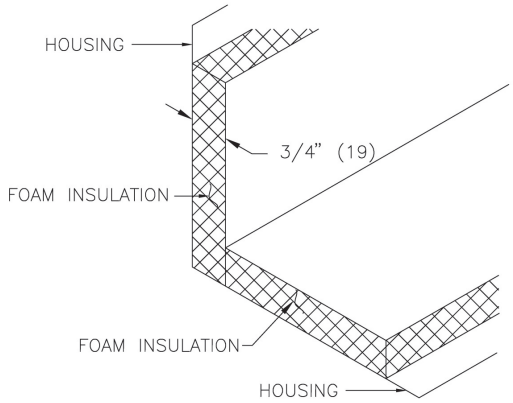
AHRI Standard 880

Insulation: FF75

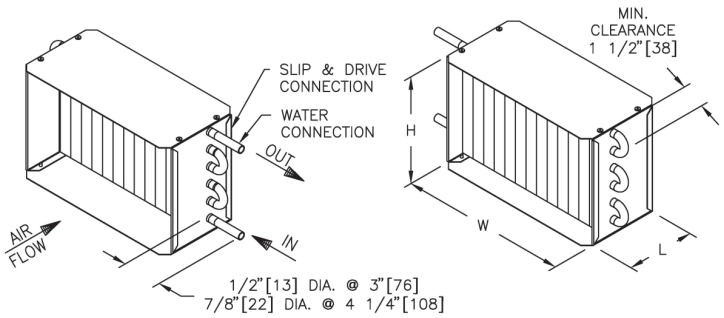
- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/12/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R/HC///0.00//////////////0.0//////////790/950/0/0/790/AD/4x6////115-24V/DSW//////////////////////2000

High Capacity Water Coil: 2R

2 Row Right Hand



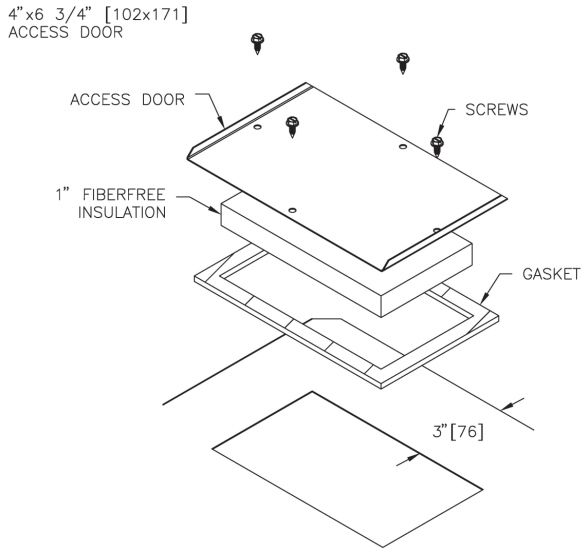
Unit Size	Coil Rows	W	H	L	Coil Connection
12	2	16	15	5	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- HC - High capacity coils supplied with 12 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

Insulated Access Door c/w Screws



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/12/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R/HC///0.00//////////////0.0/////////790/950/0/0/790/AD/4x6////115-24V/DSW////////////////////2000

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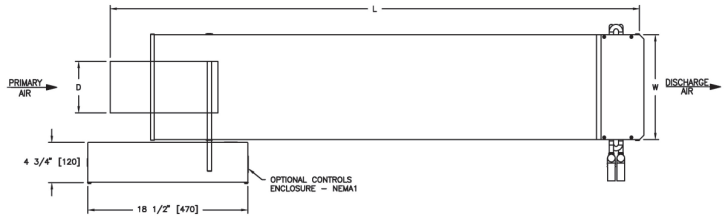
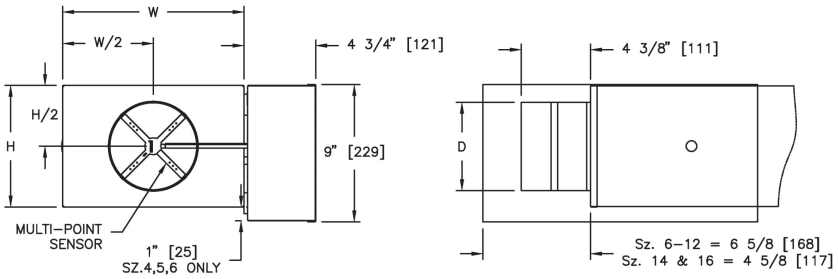
Information within this document is subject to change without notice.

SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
10	10	9 7/8	N/A	14	12 1/2	45 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

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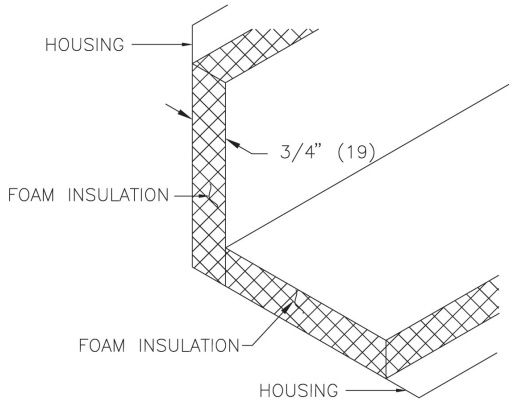
AHRI Standard 880

Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3

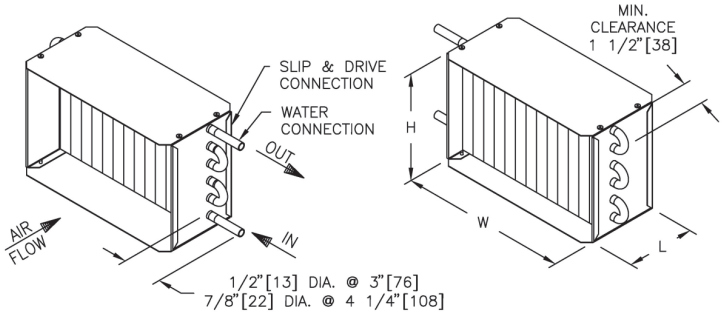


PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/10/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0//////////130,170,177,220/650,850,885,855/0/0/325,425,443,428/AD/4x6////115-24V/DSW////////////////////2000

All metric dimensions () are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
Information within this document is subject to change without notice.

Water Coil: 2R

2 Row Right Hand



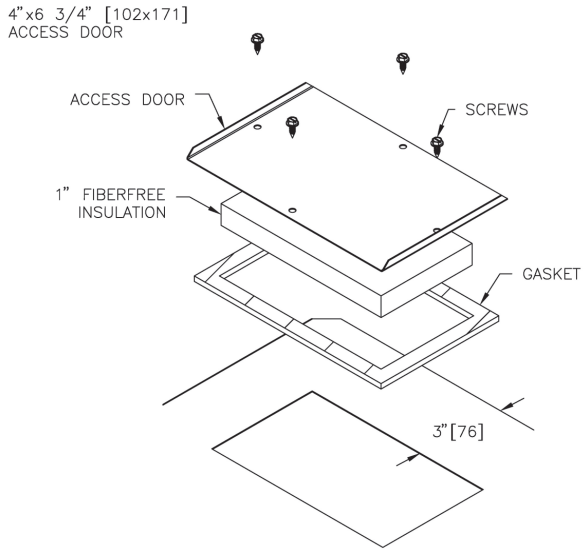
Unit Size	Coil Rows	W	H	L	Coil Connection
10	2	14	12 1/5	5	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- Standard coils supplied with 10 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

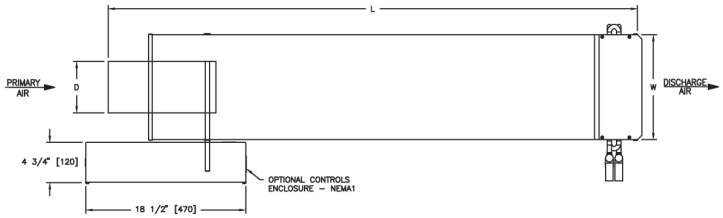
Insulated Access Door c/w Screws



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/10/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////130,170,177,220/650,850,885,855/0/0/325,425,443,428/AD/4x6////115-24V/DSW////////////////////2000

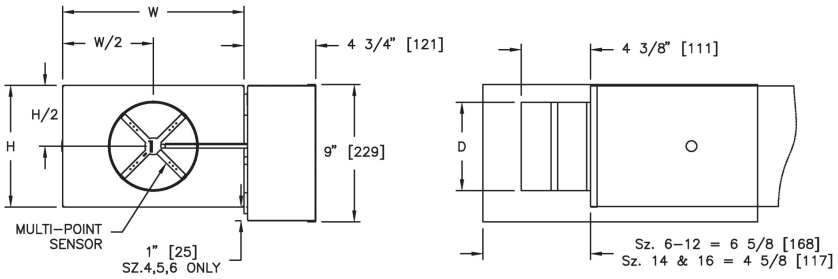
All metric dimensions () are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
Information within this document is subject to change without notice.

SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
12	14	11 7/8	N/A	20	17 1/2	45 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- OS - Oversized option included. All accessories to match oversize casing.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

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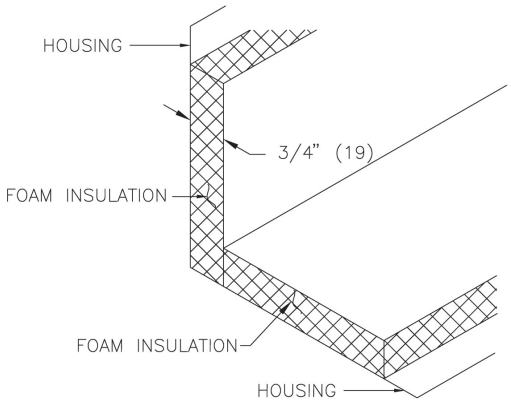
VAV Terminals
AHRI Standard 880

Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3

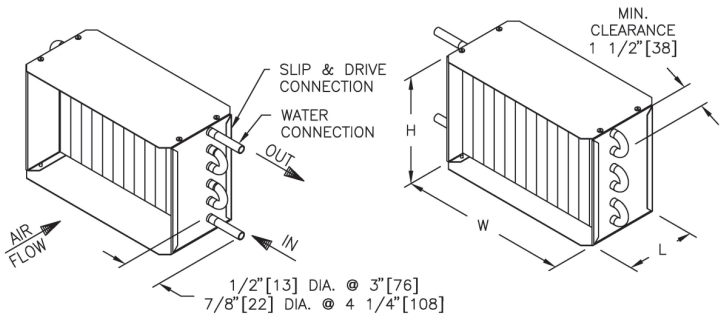


PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/12/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R/HC/OS//0.00//////////////0.0/////////890,695,745,885/1250,750,1230,1260/0/0/890,695,745,885/AD/4x6////115-24V/DSW//////////////////////2000

All metric dimensions () are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
Information within this document is subject to change without notice.

High Capacity Water Coil: 2R

2 Row Right Hand



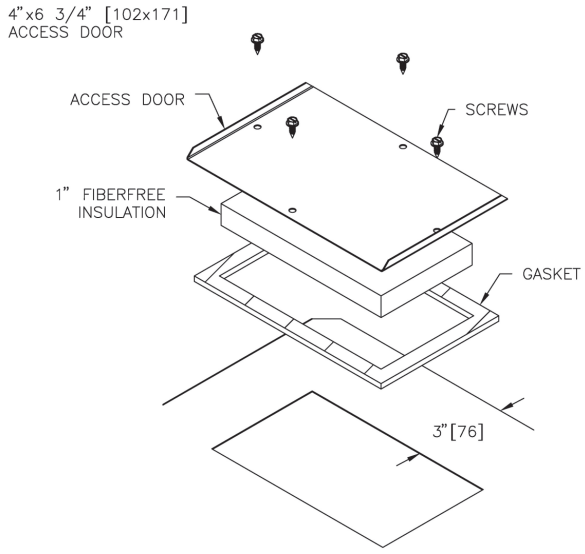
Unit Size	Coil Rows	W	H	L	Coil Connection
12	2	20	17 1/2	5	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- HC - High capacity coils supplied with 12 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

Insulated Access Door c/w Screws



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/12/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R/HC/OS//0.00//////////////0.0/////////890,695,745,885/1250,750,1230,1260/0/0/890,695,745,885/AD/4x6////115-24V/DSW////////////////////2000

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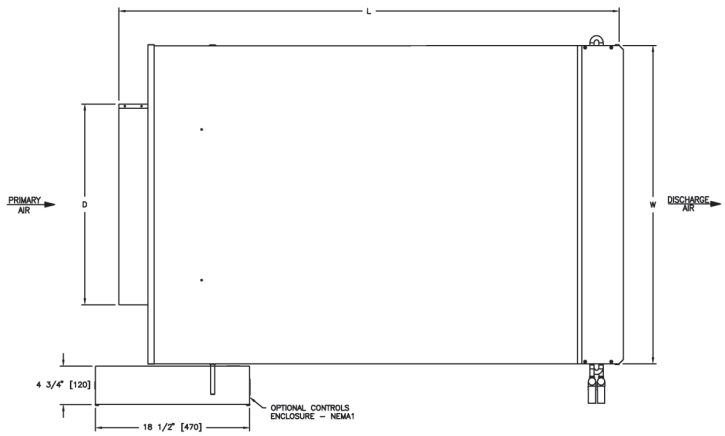
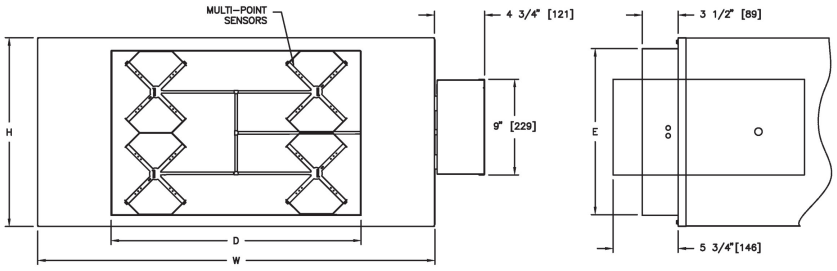
Information within this document is subject to change without notice.

SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/24x16/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////540/2520/0/0/1260/AD/4x6////115-24V/DSW//////////////////////2000

All metric dimensions () are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
Information within this document is subject to change without notice.

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

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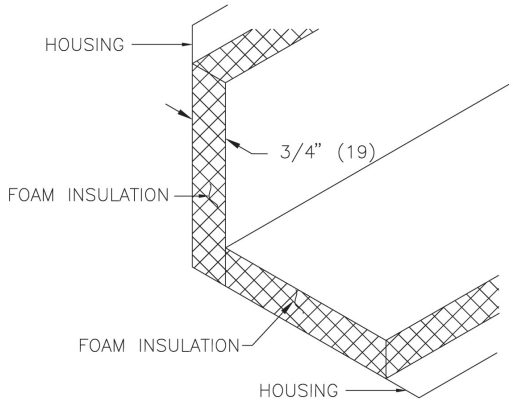
AHRI Standard 880

Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3

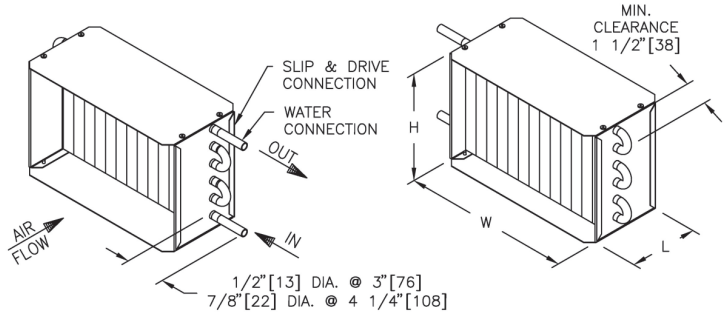


PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/24x16/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////540/2520/0/0/1260/AD/4x6////115-24V/DSW//////////////////////2000

All metric dimensions () are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
Information within this document is subject to change without notice.

Water Coil: 2R

2 Row Right Hand



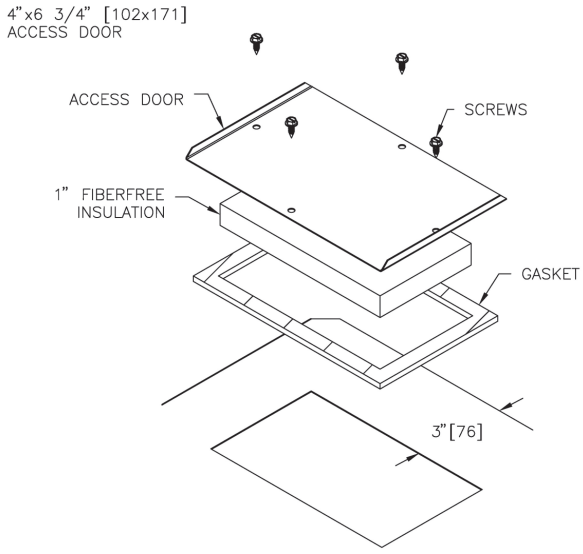
Unit Size	Coil Rows	W	H	L	Coil Connection
24x16	2	38	18	5	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- Standard coils supplied with 10 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

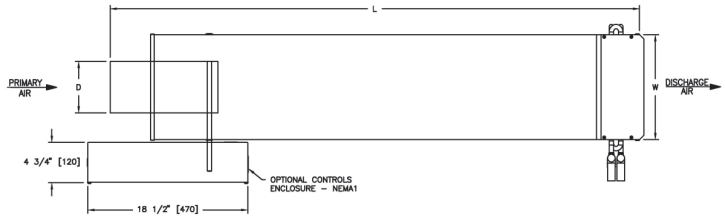
Insulated Access Door c/w Screws



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/24x16/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////540/2520/0/0/1260/AD/4x6////115-24V/DSW//////////////////////2000

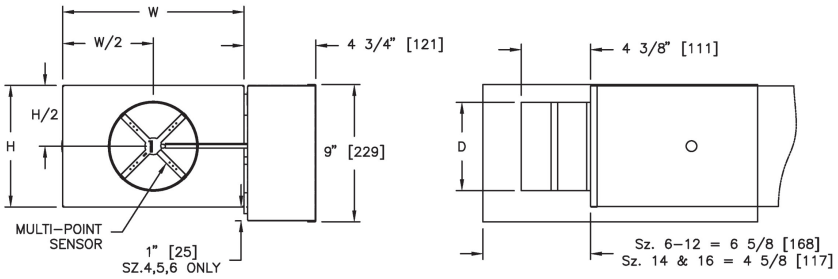
All metric dimensions () are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
Information within this document is subject to change without notice.

SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
8	8	7 7/8	N/A	12	10	45 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

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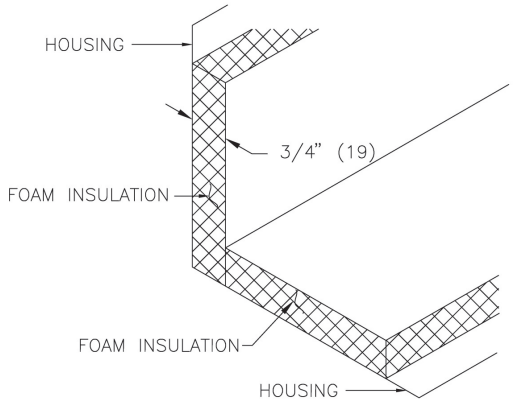
VAV Terminals
AHRI Standard 880

Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3

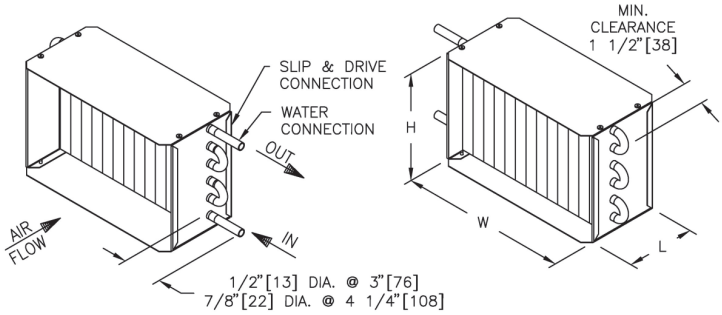


PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/8/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////111/555/0/0/278/AD/4x6////115-24V/DSW//////////////////////2000

All metric dimensions () are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
Information within this document is subject to change without notice.

Water Coil: 2R

2 Row Right Hand



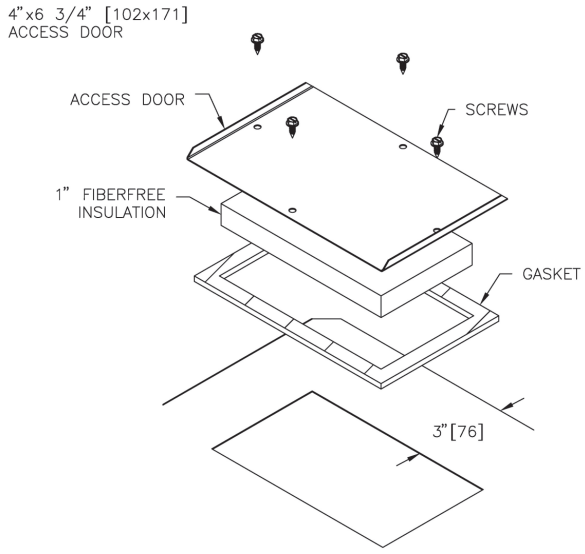
Unit Size	Coil Rows	W	H	L	Coil Connection
8	2	12	10	5	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- Standard coils supplied with 10 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

Insulated Access Door c/w Screws



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/8/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////111/555/0/0/278/AD/4x6////115-24V/DSW////////////////////2000

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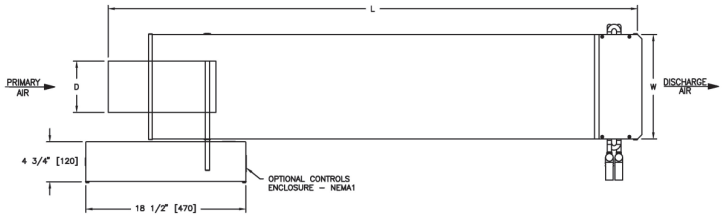
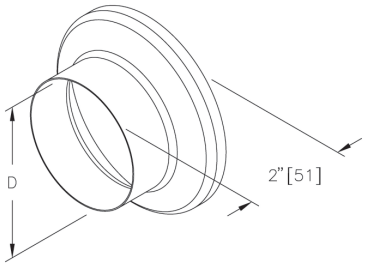
SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Inlet Diameter Reducer Detail

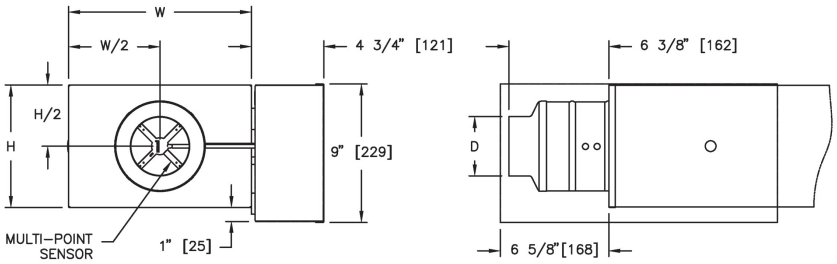


Size 4 and 5 have a 6" diameter duct with inlet reducer as shown

Inlet Reducer Dimensions	
Unit Size	D
5	4 7/8

Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
5	6	4 7/8	N/A	12	8	47 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/5/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////42,44,30/210,220,150/0/0/105,110,75/AD/4x6////115-24V/DSW////////////////////2000

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Information within this document is subject to change without notice.

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

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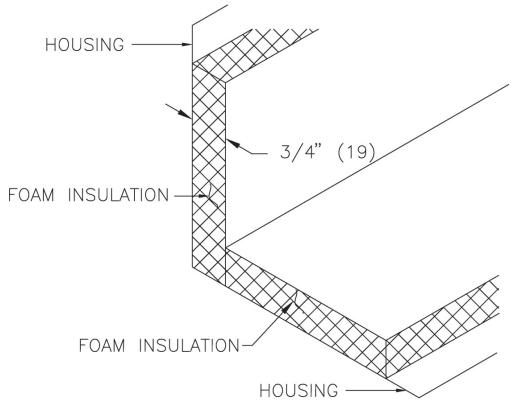
AHRI Standard 880

Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/5/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////42,44,30/210,220,150/0/0/105,110,75/AD/4x6////115-24V/DSW////////////////////2000

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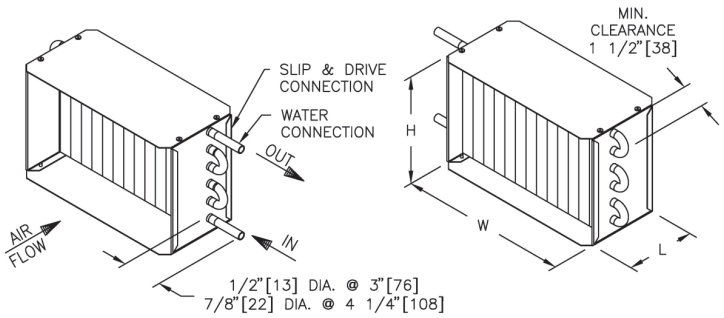
Water Coil: 2R

2 Row Right Hand



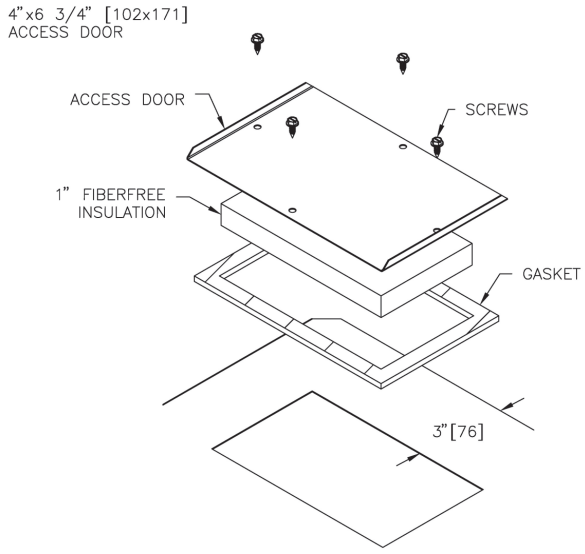
Unit Size	Coil Rows	W	H	L	Coil Connection
5	2	12	8	5	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- Standard coils supplied with 10 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

Insulated Access Door c/w Screws



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/5/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////42,44,30/210,220,150/0/0/105,110,75/AD/4x6////115-24V/DSW////////////////////2000

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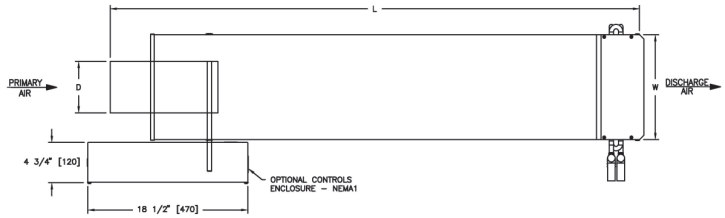
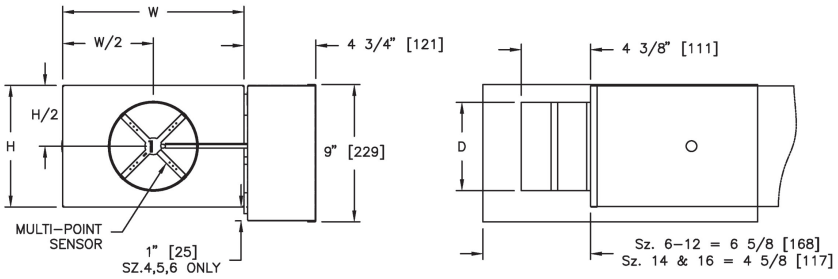
Information within this document is subject to change without notice.

SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
7	8	6 7/8	N/A	12	10	45 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

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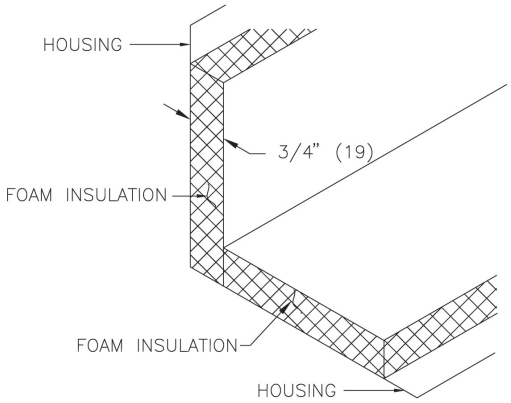
AHRI Standard 880

Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/7/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////75,78,71/375,390,355/0/0/188,195,178/AD/4x6////115-24V/DSW
//////////////////////2000

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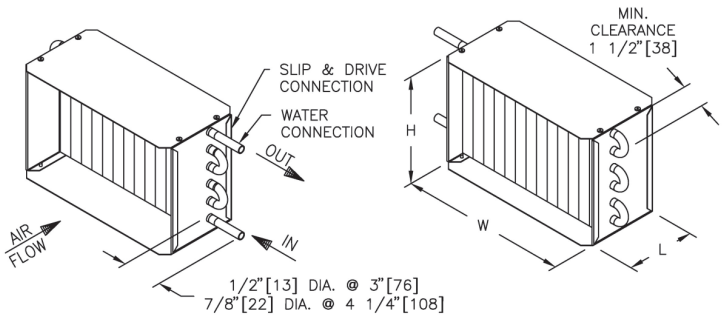
Information within this document is subject to change without notice.

Water Coil: 2R

2 Row Right Hand



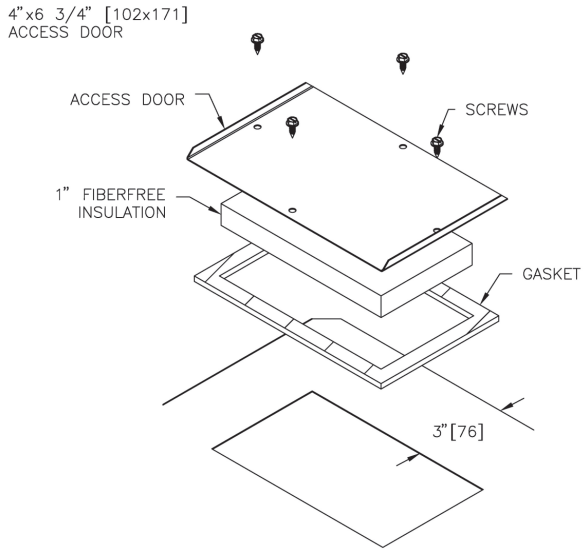
Unit Size	Coil Rows	W	H	L	Coil Connection
7	2	12	10	5	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- Standard coils supplied with 10 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

Insulated Access Door c/w Screws



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/7/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////75,78,71/375,390,355/0/0/188,195,178/AD/4x6////115-24V/DSW
//////////////////////2000

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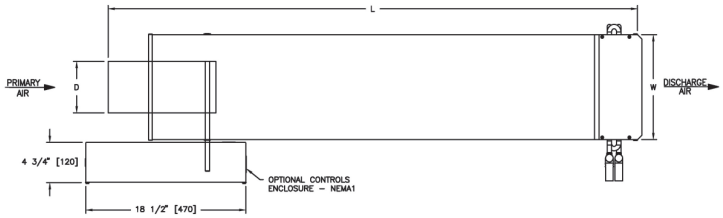
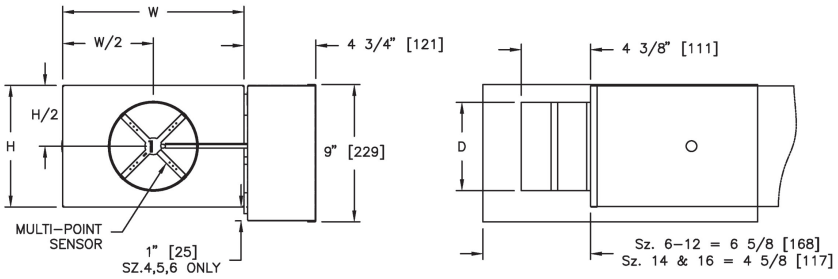
Information within this document is subject to change without notice.

SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
12	14	11 7/8	N/A	20	17 1/2	45 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- OS - Oversized option included. All accessories to match oversize casing.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

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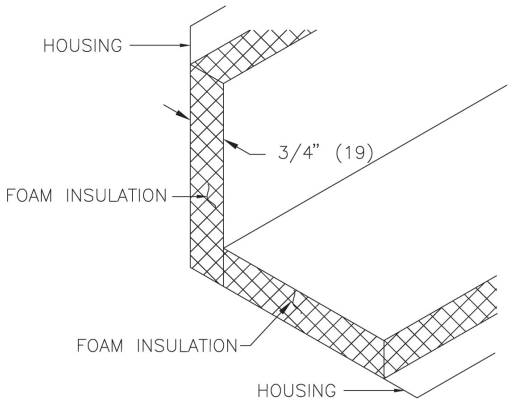
VAV Terminals
AHRI Standard 880

Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/12/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R//OS//0.00//////////////0.0/////////257/1285/0/0/643/AD/4x6////115-24V/DSW//////////////////////2000

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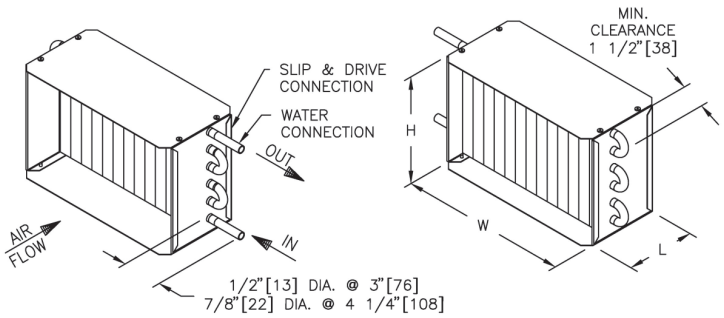
Information within this document is subject to change without notice.

Water Coil: 2R

2 Row Right Hand



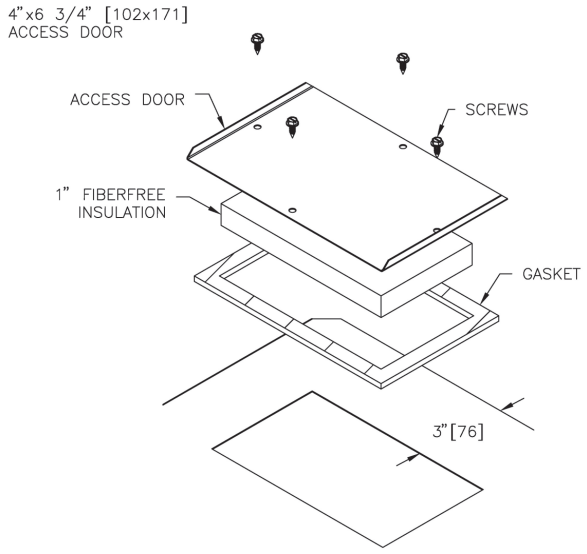
Unit Size	Coil Rows	W	H	L	Coil Connection
12	2	20	17 1/2	5	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- Standard coils supplied with 10 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

Insulated Access Door c/w Screws



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/12/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R//OS//0.00//////////////0.0/////////257/1285/0/0/643/AD/4x6////115-24V/DSW//////////////////////2000

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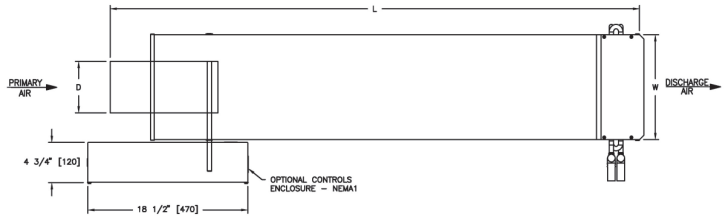
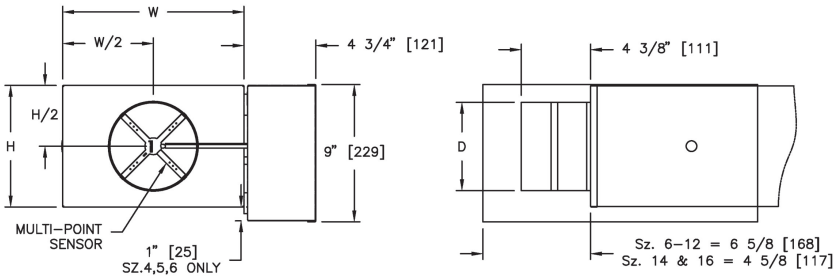
SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
6	6	5 7/8	N/A	12	8	45 3/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

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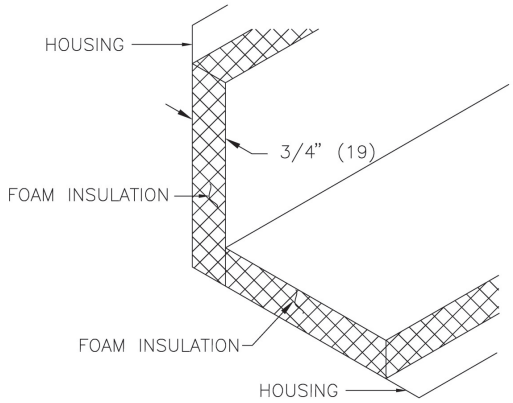
VAV Terminals
AHRI Standard 880

Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/6/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////69/345/0/0/173/AD/4x6////115-24V/DSW//////////////////////2000

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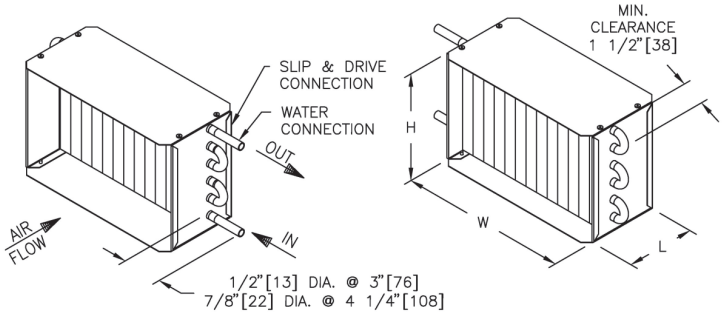
Information within this document is subject to change without notice.

Water Coil: 2R

2 Row Right Hand



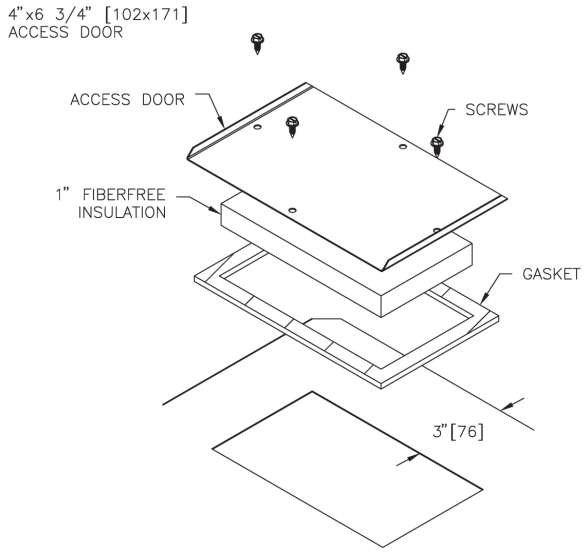
Unit Size	Coil Rows	W	H	L	Coil Connection
6	2	12	8	5	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- Standard coils supplied with 10 fins per inch.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

Insulated Access Door c/w Screws



PROJECT: Global Impact STEM Academy Upper Campus **SUBMITTAL NO:** 269757-B **SUBMITTAL DATE:** 1/31/2024
ENGINEER: HAWA **CUSTOMER:**
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/6/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/2R////0.00//////////////0.0/////////69/345/0/0/173/AD/4x6////115-24V/DSW//////////////////2000

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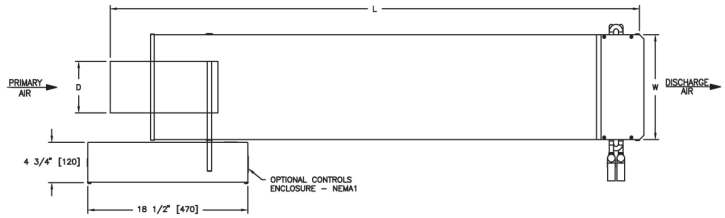
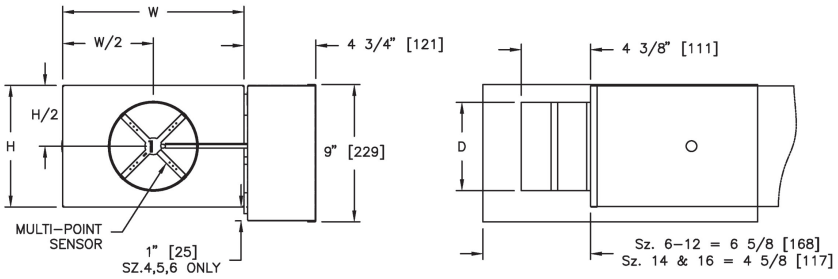
SDV Single Duct w/ Hot Water Coil and 3ft Integral Attenuator



Unit Size	Casing Size	Inlet		Casing		Length
		D	E	W	H	L
8	8	7 7/8	N/A	12	10	47 7/16

Controls Type



- Multi-point, center averaging airflow sensor.
- Controls enclosure will be supplied as illustrated on right hand side.
- Controls are supplied by controls contractor and field installed.
- DSW - Disconnect switch included.
- 115-24V control transformer included.
- PS - Nema 1 controls enclosure included.
- Pressure independent

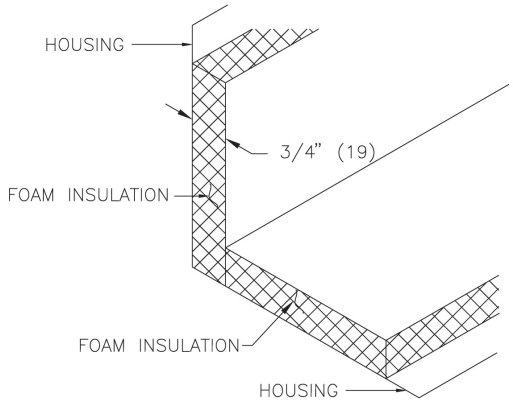
Notes

- 22 Gauge zinc coated steel housing. Mechanically sealed, leak resistant construction.
- Rectangular discharge opening with slip and drive cleat duct connection.
- Assembly ETL certified to UL873.
- Damper blade constructed of two layers of galvanized steel with a sandwiched peripheral gasket.
- 1/2" (13) diameter zinc coated damper shaft with position indicator.
- Units not to be used for temporary heat or ventilation during construction.
- AD - Bottom access door with screws.

AHRI CERTIFIED™ www.ahridirectory.org
VAV Terminals
AHRI Standard 880

Insulation: FF75

- Internal Insulation - Fiber Free Foam 3/4" (19mm) thick, 1.5 lb/cu.ft density, meets requirements of NFPA90A and UL 181.
- R-Value=3



PROJECT: Global Impact STEM Academy Upper Campus
ENGINEER: HAWA
SUBMITTAL NO: 269757-B
CUSTOMER:
SUBMITTAL DATE: 1/31/2024
DESCRIPTION: Single Duct Variable Volume
SDV-1-1//I/8/FLD/ATT//CFM/CRH/FF75//22GA/PS/WC/3R////0.00//////////////0.0/////////80/400/0/0/400/AD/4x6////115-24V/DSW//////////////////////2000

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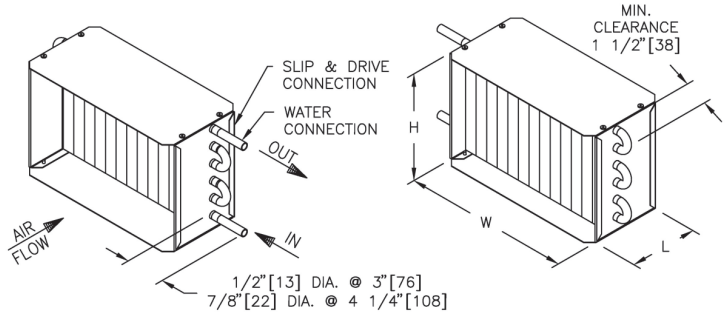
Water Coil: 3R

3 Row Right Hand



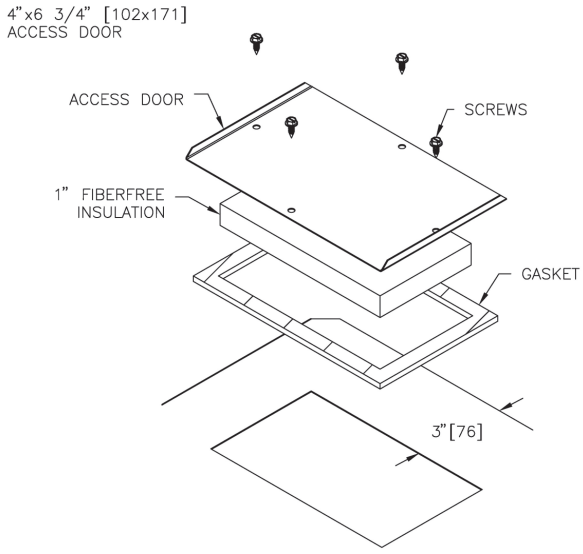
Unit Size	Coil Rows	W	H	L	Coil Connection
8	3	12	10	7 1/4	7/8

Water Coil Notes

- Fabricated from 22 gauge galvanized steel. Mechanically sealed, leak resistant construction.
- Hot water coils have copper tubes and aluminum fins with O.D. sweat connections.
- Refer to submitted terminal unit schedule for air volumes and reheat coil capacities.
- Method of venting reheat coil is to be provided by installing contractor.
- Hand of water coil connections is determined when viewed from the air inlet side (RH shown above). Handing is specified at time of order.
- Configuration of coil connection varies with size & rows of coil.
- Water coil performance rated and certified in accordance with the current edition of AHRI standard 410.
- Standard coils supplied with 10 fins per inch.
- 3 and 4 row coils have handing specific configurations, changing handing in the field can impact performance.
- Allow 1.5" (38) minimum clearance for installation at coil header end

Access Door: AD

Insulated Access Door c/w Screws



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