

**Project Name:** Starr Elec - Duct Heaters

**Project Location:**  
**Engineer:**

**Contractor:**

**Contact:**

**Date:** March 2, 2023

**Submitted By:** HAHN-MASON AIR SYSTEMS,INC.  
4901 DWIGHT EVANS RD.  
CHARLOTTE, NC  
UNITED STATES, 28217

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**Contact:** David Petrovski

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**PROJECT SCHEDULE****Starr Elec - Duct Heaters****Electric Duct Heaters**

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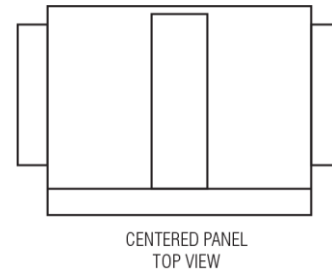
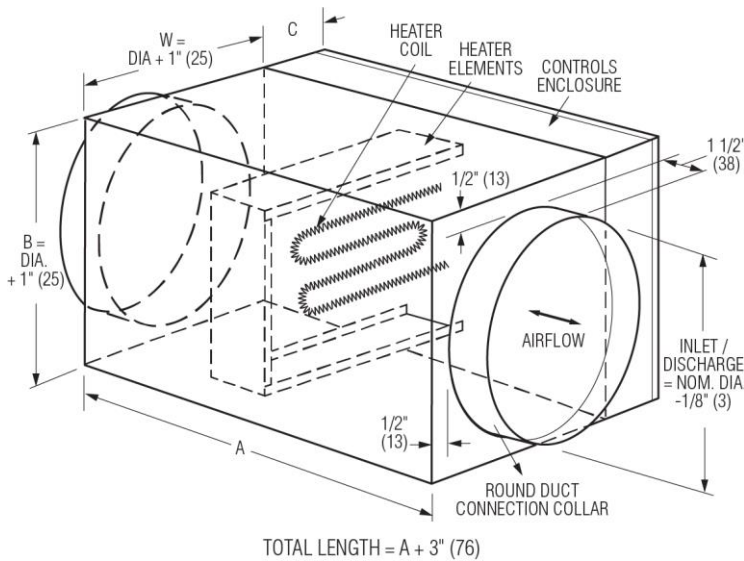
Item	Qty	Model	Tag 1	Tag 2	Dimensions	kW
3	1	DHRR	VAV-1.3		10"	2.0
			H- 208/1- STG- 1ST- A1- 24V- C2- T1- F1- D1- G1			
4	1	DHRR	VAV-1.4		10"	2.0
			H- 208/1- STG- 1ST- A1- 24V- C2- T1- F1- D1- G1			
6	1	DHRR	VAV-1.6		10"	2.0
			H- 208/1- STG- 1ST- A1- 24V- C2- T1- F1- D1- G1			
7	2	DHRS	VAV-1.1	VAV-1.2	24" x 12"	5.0
			HL- 208/1- STG- 1ST- A1- 24V- C2- T1- F1- D1- DL50- G1			
8	1	DHRS	VAV-1.5		14" x 12"	3.0
			HL- 208/1- STG- 1ST- A1- 24V- C2- T1- F1- D1- DL50- G1			

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Dimensions are in inches (mm)

Nailor Industries Inc. reserves the right to change any information concerning product or pricing without notice.

Items: 3, 4, 6; Tags: VAV-1.3; VAV-1.4; VAV-1.6



**DIMENSIONAL DATA**

Diameter	A	C
10	15	5.5

**FEATURES**

- 1/2" (13) dual density insulation exposed edges coated to prevent air erosion. Meets the requirements of NFPA 90A and UL 181.
- Min. 20 ga. (1.00) zinc coated steel casing.
- The open coil elements are supported by ribbed type insulators with ceramic bushings that feature support brackets that are specially reinforced along the edges.
- ETL listed.
- The electric heat wrapper comes factory installed in a sleeve with round transition collars, undersized for nominal round duct connection.
- Control panel constructed of heavy gauge, corrosion-resistant galvanized steel with side knock-outs properly sized for conduit connections and a solid hinged door with screwdriver operated latch that protects equipment from dust and assures trouble-free operation.
- Main power supply terminal blocks are provided as standard for field connection.
- H - Airflow: Horizontal
- 2081 - Line Voltage/Phase: 208V/1 Phase
- STG - Control Type: Staged Electric
- 1ST - 1 Stage
- A1 - Airflow Switch
- 24V - Control Voltage: 24V
- C2 - Control Contactor: Magnetic Disconnecting
- T1 - Transformer: Class II, 1-3 stages
- F1 - Fusing: Min. per NEC/UL (48A+)

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**Date:** 3/2/2023  
**Version No:** 3.88.00 Rev.01



- D1 - Door Interlocking
- G1 - Class A 80/20 Nickel Chrome Wire

**RATINGS**

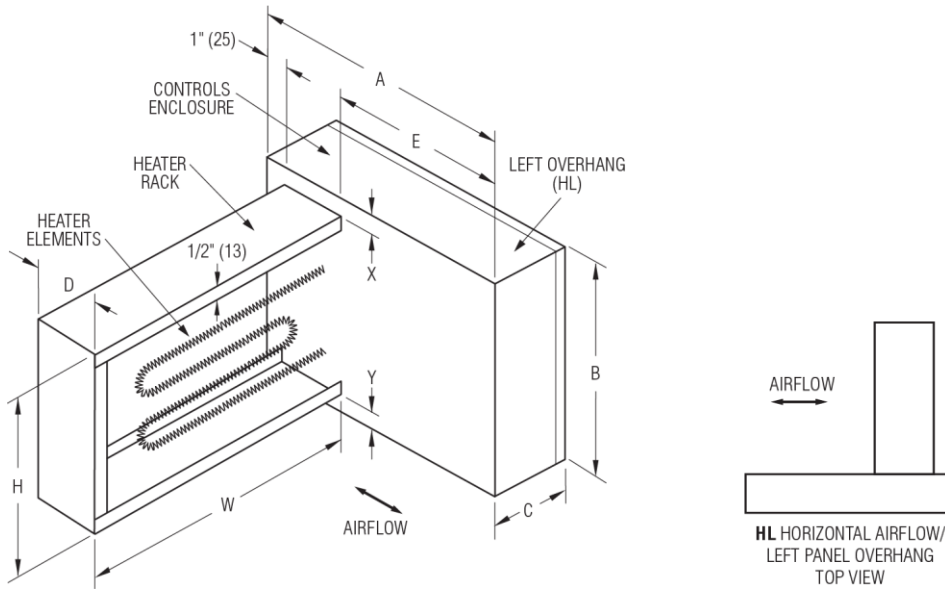
Line Voltage/Phase	Stages	kW	Amps
208/1	1	2.0	9.62

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Item: 7; Tags: VAV-1.1-VAV-1.2



**DIMENSIONAL DATA**

Duct Width	Duct Height	W	H	A	B	C	D	E	X	Y
24	12	23.5	11	14	12	5.5	3	10	0.5	0.5

**FEATURES**

- Min. 20 ga. (1.00) zinc coated steel casing.
- The open coil elements are supported by ribbed type insulators with ceramic bushings that feature support brackets that are specially reinforced along the edges.
- ETL listed.
- Control panel constructed of heavy gauge, corrosion-resistant galvanized steel with side knock-outs properly sized for conduit connections and a solid hinged door with screwdriver operated latch that protects equipment from dust and assures trouble-free operation.
- Main power supply terminal blocks are provided as standard for field connection.
- The heater is installed into existing ductwork through a rectangular cut-out in the side of the duct. The duct cut-out should be approximately 1/2" (13) larger than the heater element rack depth and height for ease of installation.
- HL - Airflow/Overhang: Horizontal/Left
- 2081 - Line Voltage/Phase: 208V/1 Phase
- STG - Control Type: Staged Electric
- 1ST - 1 Stage
- A1 - Airflow Switch
- 24V - Control Voltage: 24V
- C2 - Control Contactor: Magnetic Disconnecting
- T1 - Transformer: Class II, 1-3 stages
- F1 - Fusing: Min. per NEC/UL (48A+)

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- D1 - Door Interlocking
- DL50 - Dimensions shown account for ½" (13) internal duct Insulation
- G1 - Class A 80/20 Nickel Chrome Wire

**RATINGS**

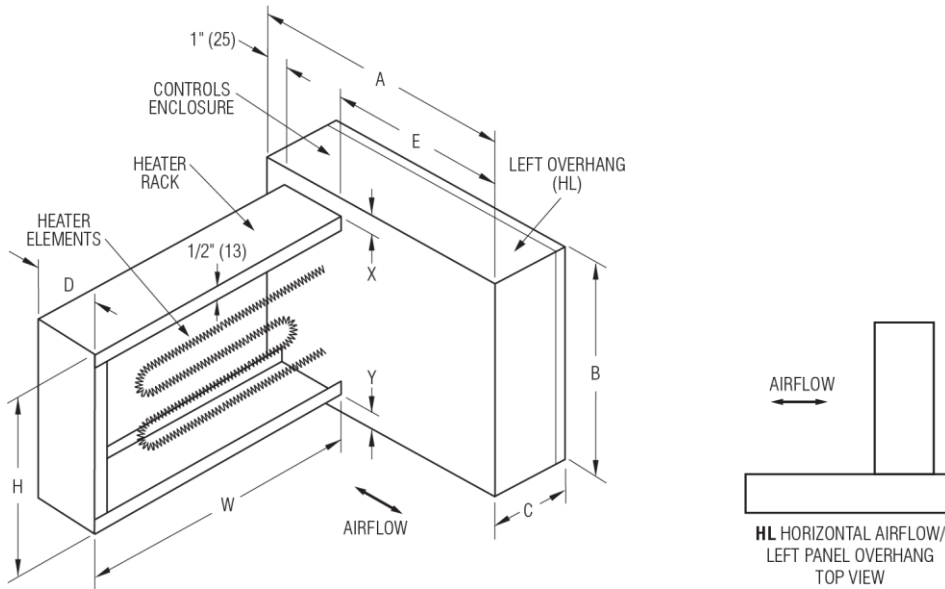
Line Voltage/Phase	Stages	kW	Amps
208/1	1	5.0	24.04

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Item: 8; Tags: VAV-1.5



**DIMENSIONAL DATA**

Duct Width	Duct Height	W	H	A	B	C	D	E	X	Y
14	12	13.5	11	14	12	5.5	3	10	0.5	0.5

**FEATURES**

- Min. 20 ga. (1.00) zinc coated steel casing.
- The open coil elements are supported by ribbed type insulators with ceramic bushings that feature support brackets that are specially reinforced along the edges.
- ETL listed.
- Control panel constructed of heavy gauge, corrosion-resistant galvanized steel with side knock-outs properly sized for conduit connections and a solid hinged door with screwdriver operated latch that protects equipment from dust and assures trouble-free operation.
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- 2081 - Line Voltage/Phase: 208V/1 Phase
- STG - Control Type: Staged Electric
- 1ST - 1 Stage
- A1 - Airflow Switch
- 24V - Control Voltage: 24V
- C2 - Control Contactor: Magnetic Disconnecting
- T1 - Transformer: Class II, 1-3 stages
- F1 - Fusing: Min. per NEC/UL (48A+)

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- D1 - Door Interlocking
- DL50 - Dimensions shown account for ½" (13) internal duct Insulation
- G1 - Class A 80/20 Nickel Chrome Wire

**RATINGS**

Line Voltage/Phase	Stages	kW	Amps
208/1	1	3.0	14.42

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