AccuSpec V4.50
Transaction #: 22401645

JOB TITLE: HCH-170

Date: 25/04/2024

Approved By:
Submittal review and approval required prior to listed unit(s) being released for production and shipment. Unit(s) configured based on information provided. The Approver is responsible for ensuring the units, options, and accessories meet the job specifications and comply with any applicable code requirements.

AccuSpec V4.50

SUBMITTAL SCHEDULE & DATA

Steam/Hot Water Unit Heaters

Job Name: HCH-170
Location:
Submitted by: Roger Abdo

Date: 25/04/2024
Engineer:
Architect:
Contractor:

		Unit Tag	
Model Number	HCH170SB01SA		
Quantity of Units	1		
Btu/Hr Output	128,604		
CFM	2,780		
Outlet Velocity (fpm)	475		
Entering Air Temp. (°F)	60		
Final Air Temp. (°F)	102		
Fluid Type (Steam or Hot Water)	Hot Water Low Temp		
Steam Pressure (PSI)	N/A		
Condensate (lb/hr)	N/A		
Entering Water Temp. (°F)	122		
Glycol % and Type	0%		
Water Flow Rate (GPM)	25.7		
Water Pressure Drop (Ft of Water)	16.0		
Water Temp Drop (°F)	10.0		
Supply Voltage	115/60/1		
Motor Type	Enclosed Air Over with Thermal Overload		
Motor HP	1/3		
Motor RPM	1,140		
Unit Amps [1]	4.2-4.6		
Options & Accessories (See Attached Pages)			

Remarks_____

[1] The unit FLA may vary based on the actual motor shipped with the unit.

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SUBMITTAL SCHEDULE & DATA

Steam/Hot Water Unit Heaters

Model	Description	Qty	Tag
HCH170SB01SA	Steam/Hot Water Unit Heater	1	
59252	HCH170SB01SA	1	
23124	Thermostat - Range: 40-90°F	1	

AccuSpec V4.50

STEAM/HOT WATER MODEL NOMENCLATURE

1,2,3	4,5,6	7	8	9,10	11	12
HCH	170	S	B	1	S	A

1,2,3 - Model Type
HCH - Horizontal Airflow Steam/Hot Water Unit Heater

4,5,6 - Input Rating
170 - 170,000 BTUH

7 - Coil Type
S - Standard

8 – Development Sequence
B - Current

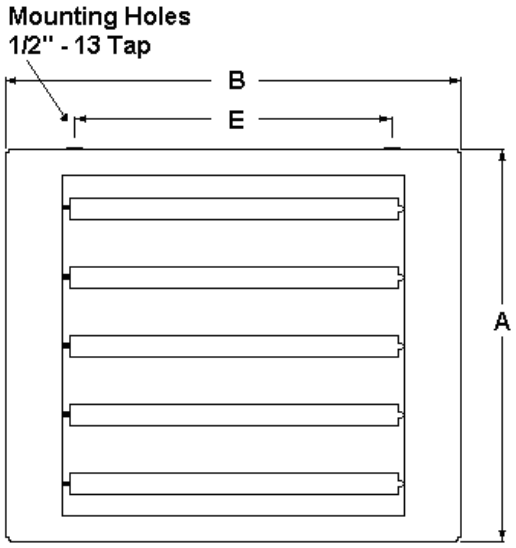
9,10 - Motor and Drive Code (Power Code)
1 - 115/60/1 - Enclosed Air Over with Thermal Overload

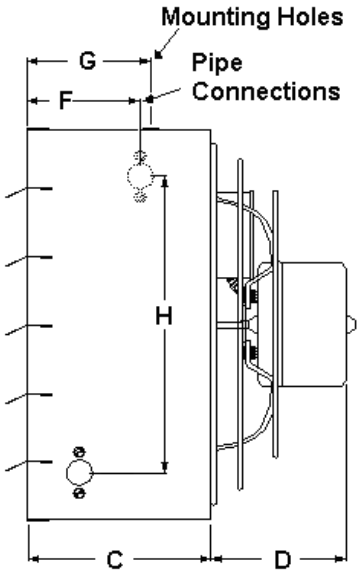
11 – Fan Guard Style
S - Standard Fan Guard

12 – Factory Installed Option
A - None

DIMENSIONS – UNIT

Model HCH Dimensions





Model Size **HCH 170**

Dimensions (in inches)

A	34.5
B	39.5
C	11.2
D [1]	10.5
E	22
F	3.2, 5.8
G	6.7
H	29.2
Connections Copper tube OD (in.)	1.375
Fan Diameter	19
Approx. Ship Wt	144 lbs.

[1] Dimension is for 115V motor.

Specifications

Core Type (Serpentine)	Multi
Copper Tube Size (inches)	1 3/8
Copper Tube Wall Thickness (inches)	0.016
Maximum Coil Rating	150 PSI / 375°F

Junction Box: All units include an electrical junction box either integral to the motor or attached to the unit casing.

Specifications

General
Contractor shall furnish and install steam/hot water unit heater(s). Performance shall be as indicated on the equipment schedule in the plans. Unit heater(s) shall listed by ETL as certified.

Units
Self-contained, factory assembled, pre-wired unit consisting of cabinet with air deflection louvers, supply fan, motor, and condenser.

Coating
Electrostatically applied baked on Hammertone-Beige corrosion resistant, polyester powder coat paint that meets the following tests:
1. 500 hours of salt spray as defined in ASTM B117.
2. Adhesion/crosshatch tape tests as defined in ASTM D3359, Method B, Rating 5B.
3. Will not crack or peel when test panel is bent around a 1/8 inch arbor.

Condenser
Condenser coils are of the extended surface type of serpentine design, utilizing aluminum fins and DLP-type copper tubes. Tubes are mechanically bonded to the collars of the fins. The condensers are warranted for operation at steam or hot water pressures up to 150 pounds per square inch gauge and/or temperatures up to 375°F. All coils are leak tested at 165 to 200 psig, air under water. Fins are continuous across the width and depth of the condenser and are vertically oriented to minimize the collection of dirt and dust.

Coils are of serpentine design with horizontal tubes, vertical fins and side supply and return. All tube bends are brazed. All tubes have individual expansion bends. Copper tubes are 1 3/8" O.D. with 0.016" wall thickness.

Motor
Single motor with a supply voltage of 115/60/1 and horsepower of 1/3 as indicated on the equipment schedule and manufactured in accordance with NEMA standards for continuous fan duty type applications. Must be enclosed air over and single phase motors will have built in thermal overload protection. Will be mounted to the unit with rubber vibration absorbing material. The entire length of the line voltage motor leads will be shielded and terminate in a factory supplied junction box mounted on the unit or integral to the motor.

Fan/Fan Guards
Fans AMCA rated direct drive, aluminum blade, steel hub propeller will be statically and dynamically balanced. Unit shall be equipped with a safety fan guard.

Accessories
The following items are to be field installed in accordance with the manufacturer's instructions:

Room Thermostat: Single-stage, 16 amp @ 115V; 8 amp @ 230V. 40-90°F range.