AccuSpec V4.38b2

SUBMITTAL SCHEDULE & DATA

Steam/Hot Water Unit Heaters

Job Name:
Location:
Submitted by: Jeff Musto

Date: 04/19/2022
Engineer:
Architect:
Contractor:

		Unit Tag	
Model Number	HSB 33LB01SA		
Quantity of Units	1		
Btu/Hr Output	29,500		
CFM	695		
Outlet Velocity (fpm)	745		
Entering Air Temp. (°F)	60		
Final Air Temp. (°F)	99		
Fluid Type (Steam or Hot Water)	Steam		
Steam Pressure (PSI)	2		
Condensate (lb/hr)	31		
Entering Water Temp. (°F)	N/A		
Glycol % and Type	0%		
Water Flow Rate (GPM)	N/A		
Water Pressure Drop (Ft of Water)	N/A		
Water Temp Drop (°F)	N/A		
Supply Voltage	115/60/1		
Motor Type	Totally Enclosed with Thermal Overload		
Motor HP	1/25		
Motor RPM	1550		
Unit Amps [1]	1.3-1.5		
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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Model	Description	Qty	Tag
HSB 33LB01SA	Steam/Hot Water Unit Heater	1	
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STEAM/HOT WATER MODEL NOMENCLATURE

1,2,3	4,5,6	7	8	9,10	11	12
HSB	33	L	B	01	S	A

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

4,5,6 - Input Rating
33 - 29,500 BTUH

7 - Coil Type
L - Low Outlet Temperature

8 – Development Sequence
B - Current

9,10 - Motor and Drive Code (Power Code)
01 - 115/60/1 - Totally Enclosed with Thermal Overload

11 – Fan Guard Style
S - Standard Fan Guard

12 – Factory Installed Option
A - None

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GENERAL PERFORMANCE DATA

C US

General Performance Data
2 lb. Steam, 60°F Entering Air Temperature

Model	HSB 33
Btu/Hr. Output	29,500
Airflow (CFM)	695
Outlet Velocity	745
Entering Air Temp. (°F)	60
Final Air Temp. (°F)	99
Mounting Height (Max Ft.) [1]	12
Heat Throw (Max. Mtg. Ft.) [1]	24
Total Unit Amps [2]	1.3-1.5

As Configured Conditions

Steam Pressure (PSI)	2
Entering Air Temp. (°F)	60
Btu/Hr. Output	29,500
Final Air Temp. (°F)	99
Mounting Height (Max Ft.) [1]	12
Heat Throw (Max Ft.) [1]	24

Motor Data

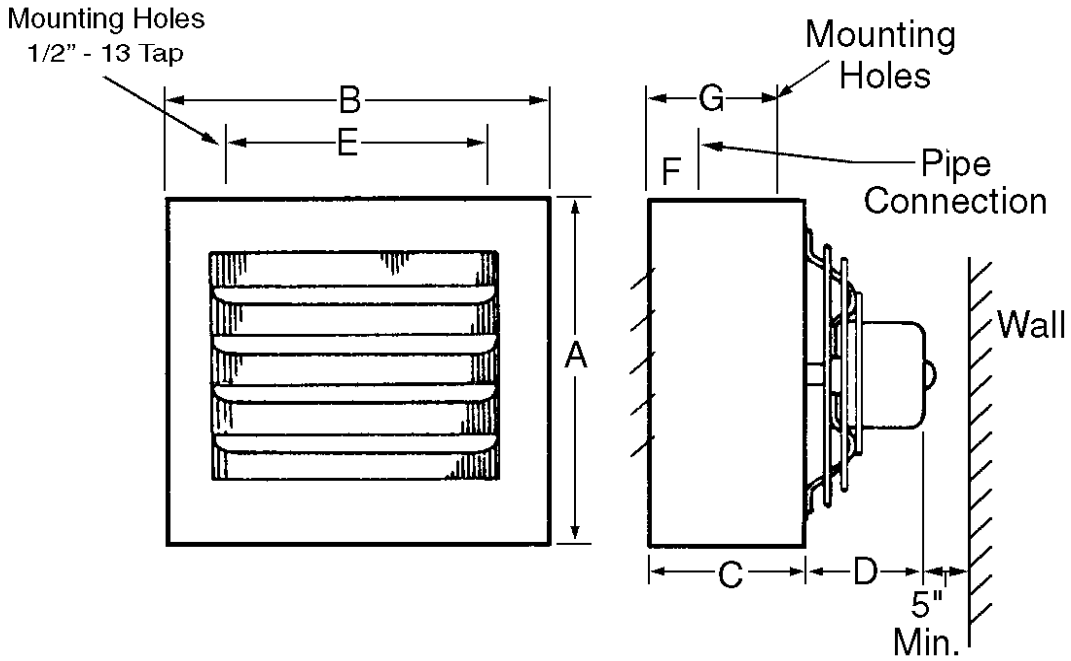
Horse Power	1/25
RPM	1550
Type	Totally Enclosed with Thermal Overload
Motor Amps [2]	1.3-1.5

[1] Mounting height measured from floor to bottom of unit. Horizontal units with horizontal louvers open 30° from vertical plane. The maximum mounting height (Max Ft.) is the height above which the unit will not deliver heated air to the floor.

[2] The unit FLA and Motor amps may vary based on the actual motor shipped with the unit.

DIMENSIONS – UNIT

Model HSB Dimensions



Model Size **HSB 33**

Dimensions (in inches)

A	16-3/8
B	17-1/2
C	8-3/4
D [1]	6-1/2
E	11
F	3-5/8
G	6

Connections NPT	1-1/4
Fan Diameter	12
Approx. Ship Wt	34 lbs.

[1] Dimension is for 115V motor.

Specifications

Core Type (Serpentine)	Single
Copper Tube Size (inches)	1
Copper Tube Wall Thickness (inches)	0.03
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 CSA 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 grey-green 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 with malleable iron supply and return connections. 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 center supply and return connections at top and bottom of unit. All tube bends are brazed. All tubes have individual expansion bends. Copper tubes are 1" O.D. with 0.03" wall thickness.

Motor
Single motor with a supply voltage of 115/60/1 and horsepower of 1/25 as indicated on the equipment schedule and manufactured in accordance with NEMA standards for continuous fan duty type applications. Must be totally enclosed 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.

Air Deflectors
The unit shall be furnished with horizontal air deflectors. The deflectors are adjustable to almost any desired position for downward, straight or upward airflow.

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