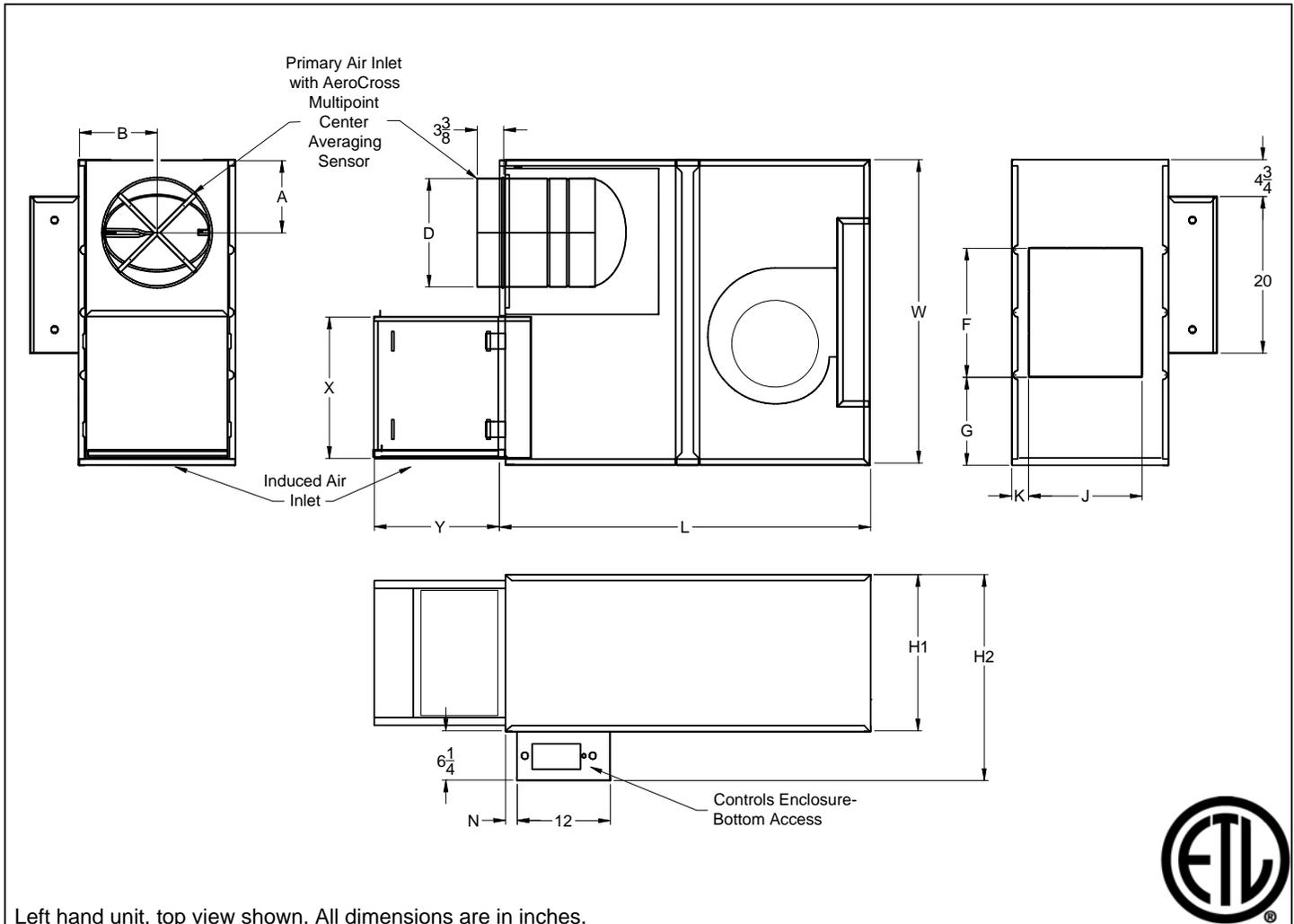


ATFS-F Phantom IQ™ with ECM Motor and Bottom Control Panel

Ultra Quiet Fan Powered Terminal, Series Flow

Direct Digital Control, Pressure Independent



Left hand unit, top view shown. All dimensions are in inches.

Unit Size	Inlet Size	A	B	D	F	G	H1	H2	J	K	L	N	W	X	Y	Induced Air Inlet		Filter Size
																Height	Width	
B	6	6	8	5 7/8	14	11 1/2	16	22 1/4	11	2 1/4	43	1/2	37	19	13 7/8	12 5/8	8 3/4	11 x 14
	8	7 7/8		1 1/2														
	10	9 7/8		1 1/2														
	12	11 7/8		1 1/2														
C	6	6	8	5 7/8	14	11 1/2	16	22 1/4	11	2 1/4	43	1/2	37	19	13 7/8	12 5/8	8 3/4	11 x 14
	8	7 7/8		1 1/2														
	10	9 7/8		1 1/2														
	12	11 7/8		1 1/2														
D	10	7	10	9 7/8	16 1/2	11 1/4	20	26 1/4	14 5/8	2	46 3/4	1 1/2	39	18 1/8	16 7/8	16 5/8	15 3/4	18 x 17
	12	8		1 1/2														
	14	10		2 1/2														
	16	15 7/8		2 1/2														
E	12	8	10	11 7/8	16 1/2	11 1/4	20	26 1/4	14 5/8	2	46 3/4	1 1/2	39	18 1/8	16 7/8	16 5/8	15 3/4	18 x 17
	14	10		2 1/2														
	16	11		2 1/2														

Motor Amperage Ratings

Unit Size	Motor hp	120/1/60 FLA	277/1/60 FLA	208/240/1/60 FLA
B	1/3	3.0	1.6	1.8
C	1/3	4.6	2.1	2.7
D	1/2	5.6	2.8	3.2
E	3/4	9.7	4.9	5.2

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).

Accessories (Optional)

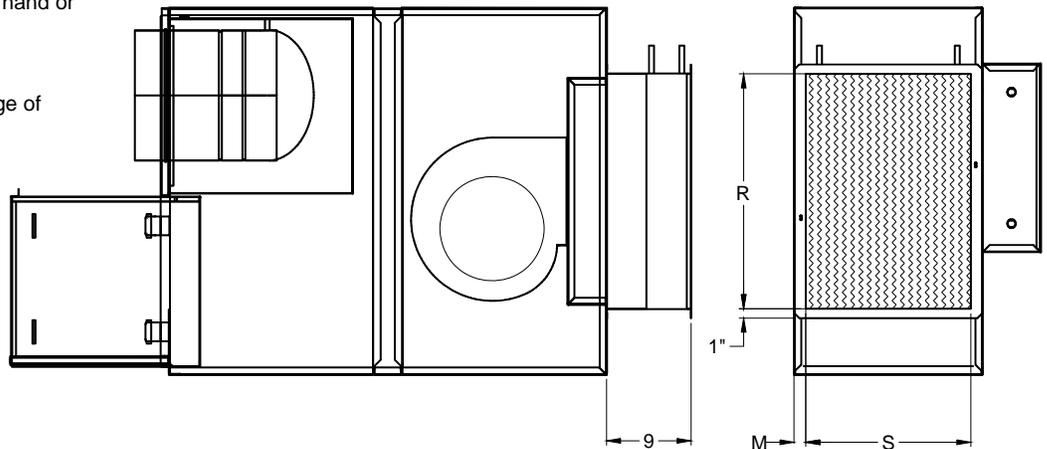
Check if provided.

- | | |
|---|---|
| <input type="checkbox"/> Induced Air Filter, 1" thick, disposable construction type. | <input type="checkbox"/> 1" Fiberglass Liner |
| <input type="checkbox"/> Fan disconnect switch (not available on units with optional electric coils.) | <input type="checkbox"/> 1/2" EcoShield Liner |
| <input type="checkbox"/> Fan unit fusing | <input type="checkbox"/> 1/2" EcoShield Liner (Foil Face) |
| <input type="checkbox"/> Cam Latch for Access Door | <input type="checkbox"/> 1" EcoShield Liner |
| <input type="checkbox"/> Hanger Brackets | <input type="checkbox"/> 1" EcoShield Liner (Foil Face) |
| <input type="checkbox"/> _____ | <input type="checkbox"/> Fibre Free Liner |
| | <input type="checkbox"/> SteriLoc Liner |

Accessories (Optional)

- Hot Water Coil Section
- 1/2" copper tubes
 - Aluminum ripple fins, 10 per inch
 - Connections: Male solder, 5/8" for both 1-row and 2-row. Left hand or right hand connections.
 - Galvanized steel casing
 - Flanged duct connection.
 - Coil is installed on discharge of unit.

- 1 Row
 2 Row



Unit Size	M (1 row)	M (2 row)	R	S
B,C	1	1	20 1/2	12 1/2
D,E	1	1 1/4	25	17 1/2

R and S are inside dimensions.

- Electric Coil Section
- Optional Lynergy Controlled Electric Heater

Standard Features

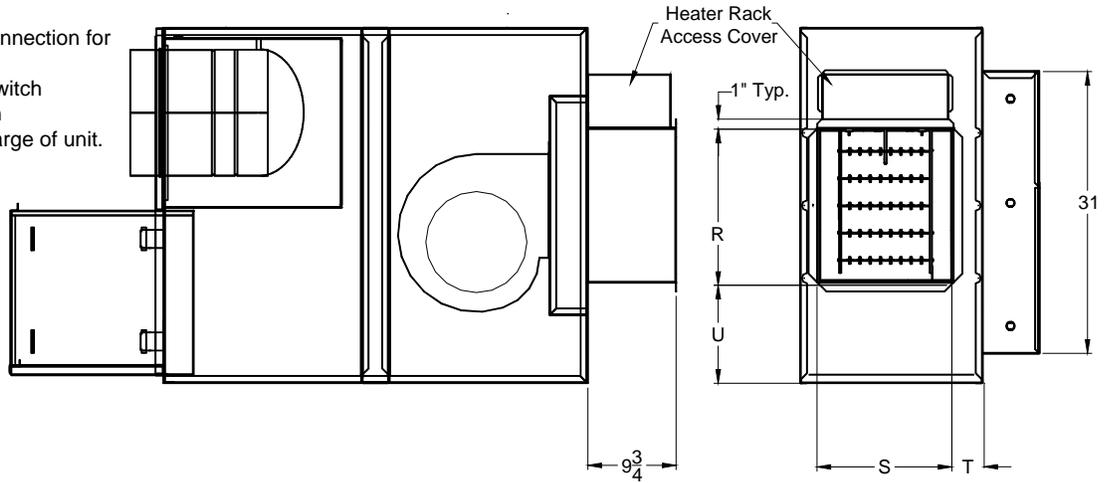
- Single side access to low voltage, high voltage, and electric heater controls.
- Automatic reset thermal cutouts, one per element
- Single point electrical connection for entire unit
- Positive pressure flow switch
- Flanged duct connection
- Coil is installed at discharge of unit.
- Transformer

Options

- Fuse Block
- Disconnect switch, door interlock type
- Manual reset cutout
- Dust tight construction
- Mercury contactors

Supply Voltage

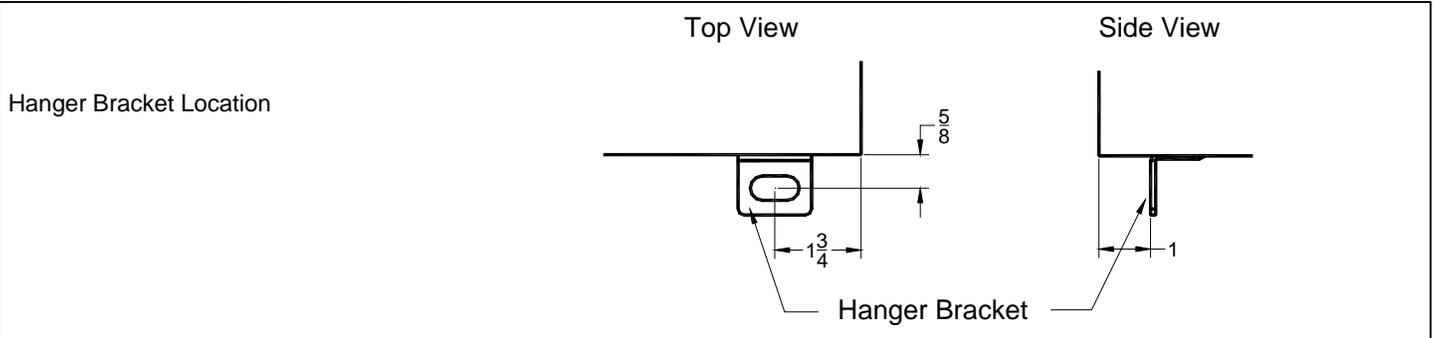
- 208V, 1 ph, 60Hz
- 240V, 1 ph, 60Hz
- 277V, 1 ph, 60Hz
- 208V, 3 ph, 60Hz
- 480V, 3 ph, 60Hz (4 wire wye only)



R and S are inside dimensions.

Unit Size	U	R	S	T
B,C	11 3/8	14 1/2	11 1/2	2 3/8
D,E	11	17	15	3 1/8

Accessories (Optional)



General Description

- Heavy steel casing, with leak resistant construction.
- Dual density insulation, coated to prevent air erosion, meet requirements of NFPA 90A and UL 181.
- Ultra high efficiency, brushless DC ECM motor with a unique microprocessor based motor controller.
- Manual PWM controller allows simple screwdriver adjustment of fan speed.
- Optional remote PWM controller allows for a 0-10 V signal from the DDC controller to adjust the fan speed.
- Efficiencies of up to 70% across the entire operating range.
- Provides a large turndown ratio
- Constant volume regardless of changes in downstream static pressure allows for factory setting of cfm.
- Patent-pending FAST™ attenuator system that greatly reduces radiated sound power levels. The FAST™ attenuator ships assembled inside the casing, pulls out easily and snaps into place for operation.
- Top and bottom access panels can be removed for service.
- Multipoint, center averaging velocity sensor.
- Primary air flow balancing connections.
- Pressure independent primary flow control.
- Single point electrical connections.
- Rectangular discharge opening is designed for flanged duct connections.
- Electronic proportional room thermostat with adjustable setpoints for temperature and airflow is included with unit.
- Minimum and maximum airflow adjustments are made at the thermostat, using a digital voltmeter.

This submittal is meant to demonstrate general dimensions of this product. The drawings are not meant to detail every aspect of the product. Drawings are not to scale. Titus reserves the right to make changes without written notice.