



MODEL SFT

GAS-FIRED, SEPARATED-COMBUSTION FAN-TYPE UNIT HEATER WITH A TUBULAR HEAT EXCHANGER



Sizes 45, 60 and 75 are certified to IAS Requirement 10-96 for RESIDENTIAL INSTALLATION. All sizes are approved for commercial/industrial installation.



ANSI Z83.8



CAN/CGA 2.6

DESCRIPTION

The Model SFT Series gas-fired, fan-type, separated-combustion, power-vented unit heaters are available in sizes ranging from 45,000 to 300,000 BTUH gas input for use with either natural or propane gas. The Model SFT line of heaters is approved for installation in The United States and Canada by the Canadian Standards Association (CSA). Model SFT heaters are designed to separate their combustion air from the air in the heated space. These units are designed and manufactured in accordance with the ANSI definition of "separated combustion". While discharging exhaust air, the power venter draws in combustion air from the outside atmosphere. Exclusive outside combustion air prevents dirt, lint, dust or other contaminants in the heated space from entering the combustion zone of the heater. This separated-combustion heater is designed for use in building areas with negative pressure and/or extremely dirty or mildly corrosive atmospheres. A specially designed combustion air inlet/vent terminal assembly supplied with the Model SFT heater allows for a single building penetration for both exhaust and combustion air.

Standard functional features include a tubular aluminized steel heat exchanger and a removable aluminized steel burner rack. The burner rack is an assembly of inshot burners designed to provide controlled flame stability without lifting or flashback. Standard controls include a single-stage gas valve, direct spark ignition with 100% shutoff, a fan motor, a power venter motor and wheel assembly, a combustion air pressure switch, and a safety limit switch. Operation is controlled by an integrated circuit board that includes an LED diagnostic indicator light. The circuit board monitors heater operation and indicates normal operation as well as identifying any abnormalities in the control operations.

Supply voltage electrical connections and 24-volt control connections are made at the circuit board.

The heater is designed for suspension from four 3/8"-16 threaded hanger connections. The cabinet includes a full fan guard.

The manufacturer provides a 5-year limited warranty against defective operating components and a 10-year unconditional warranty on the heat exchanger.

STANDARD FEATURES

- Orifices for natural gas
- Hinged access door
- Tubular aluminized steel heat exchanger
- Aluminized steel burner rack with inshot burners
- Direct ignition with 100% lockout
- Single-stage combination gas valve (field adjustable for high altitude operation)
- 115/1/60 supply voltage
- 115 volt fan motor with internal overload protection
- High temperature limit control
- Pressure switch to verify vent flow
- Flame rollout safety switch - Sizes 45-75
- Integrated circuit board with LED diagnostic indicator light
- 24-volt control voltage transformer
- Individually adjustable horizontal louvers
- Full safety fan guard
- Powder coat and galvalume steel finish
- 4-point 3/8"-16 threaded hangers
- Concentric adapter for combustion air inlet/vent system

OPTIONAL FEATURES - Factory Installed

- Orifices for propane gas
- Orifices for high altitude (2001-9000 ft)

ACCESSORIES - Field Installed

- Horizontal inlet air/vent terminal kit*
- Vertical inlet air/vent terminal kit*
- Thermostat
- Manual gas cock
- Vertical louvers
- Gas conversion kit
- Downturn nozzles

* Selection of either a horizontal or vertical air inlet/vent kit is required.

Required Clearances (inches)

Sizes	45-75	100-200	250-300
Top	1	6	6
Flue Connector	6	6	6
Access Panel	20	24	24
Non-Access Side	1	6	6
Bottom	1	1	1
Rear	18	18	24

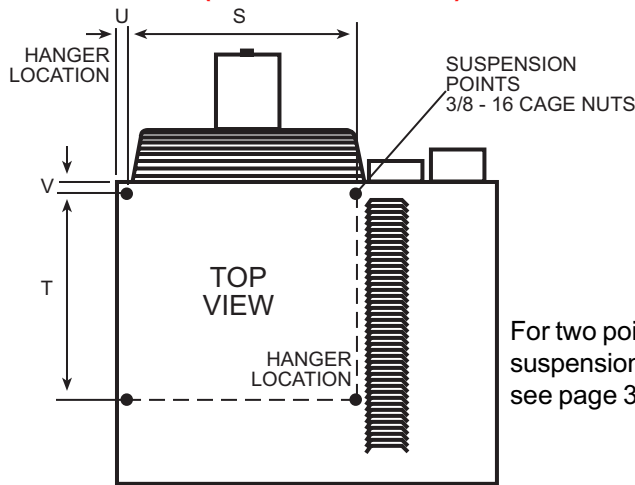
WARNING: Gas-fired appliances are not designed for use in hazardous atmospheres containing flammable vapors or combustible dust, or atmospheres containing chlorinated or halogenated hydrocarbons. Installations in public garages or airplane hangars are permitted when in accordance with ANSI Z223.1 and NFPA 54 Codes or CAN1-B149 Codes and enforcing authorities.

TECHNICAL DATA - Model SFT

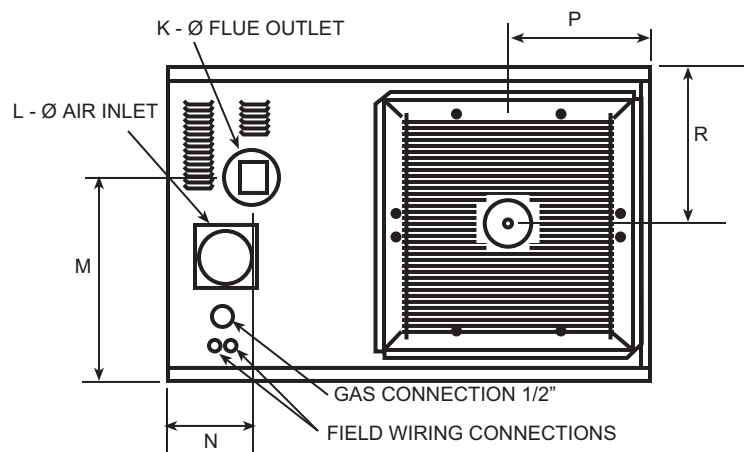
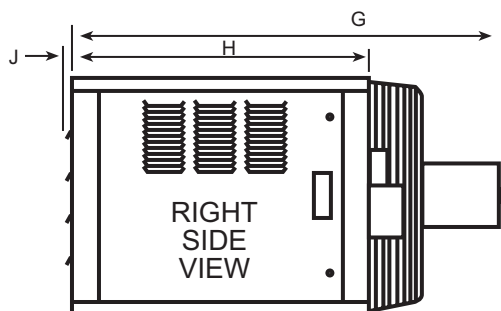
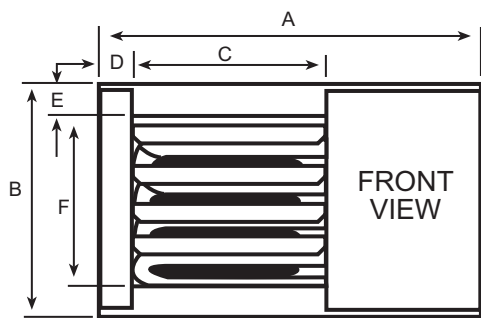
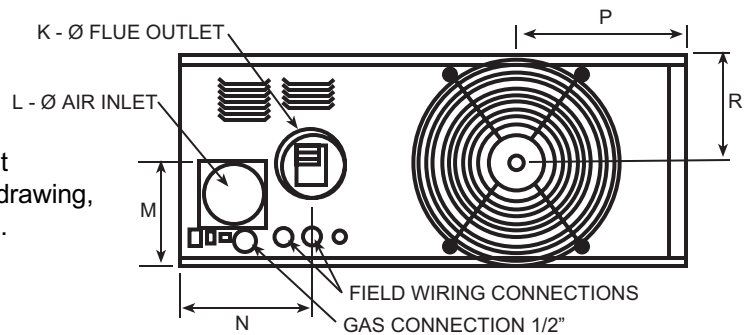
Size	45	60	75	100	125	150	200	250	300
BTUH Input	45,000	60,000	75,000	100,000	125,000	150,000	200,000	250,000	300,000
BTUH Thermal Output	36,000	48,000	60,000	80,000	100,000	120,000	160,000	200,000	240,000
Thermal Efficiency	80%	80%	80%	80%	80%	80%	80%	80%	80%
Control Amps (24-volt)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Full-Load Amps (115 volt)	3.0	4.7	4.7	5.5	5.5	5.5	5.5	8.2	8.2
Motor HP	1/16	1/20	1/20	1/6	1/6	1/4	1/4	1/2	1/2
Motor RPM	1550	1050	1050	1130	1130	850	850	850	850
Fan Diameter (inches)	10	16	16	17.5	17.5	20	20	24	24
CFM	747	995	1120	1840	2300	2765	3275	3685	4020
Gas Connection (inches) - Natural or Propane Gas	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
Approximate Net Wt (lbs)	85	110	120	148	153	216	226	272	294
Approximate Shipping Wt (lbs)	92	118	128	170	175	248	258	314	336

DIMENSIONS (inches + or - 1/8")

For venting arrangements, see pages 31 - 32.



For two point suspension drawing, see page 33.



Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V
45	29-5/8	12-1/8	15	2-5/8	1	10-1/8	26-1/4	21-1/4	38	4	3	5-3/4	7-5/8	10	6	18	16	1/2	3/4
60-75	29-5/8	18-1/8	15	2-5/8	2-1/2	16-1/8	31-3/8	23-1/4	3/8	5	4	10-1/2	8	10	9	18	16	1/2	3/4
100	38	22	20-5/8	2-1/4	5	12	33-1/2	25-3/8	1	5	4	11	9-1/2	13-1/4	11	24-1/4	16	1/2	4-5/8
125	38	22	20-5/8	2-1/4	3-5/8	14-3/4	33-1/2	25-3/8	1	5	4	11	9-1/2	13-1/4	11	24-1/4	16	1/2	4-5/8
150	38	33	20-5/8	2	6	21	34	25-3/8	1	5	5	21-3/4	9-1/4	13	16-1/2	24-1/4	16	1/2	4-5/8
200	38	33	20-5/8	2	4-1/2	24	34	25-3/8	1	5	5	21-3/4	9-1/4	13	16-1/2	24-1/4	16	1/2	4-5/8
250	51-1/4	33	34-1/2	2	4-1/2	21	35-3/8	25-3/8	1	5	5	21-1/2	9-1/4	15-1/8	16-1/2	29-3/8	16	8-1/2	4-5/8
300	51-1/4	33	34-1/2	2	4-1/2	24	35-3/8	25-3/8	1	6	6	22	9-1/4	15-1/8	16-1/2	29-3/8	16	8-1/2	4-5/8