



TUBULAR GAS-FIRED UNIT HEATER





**SAFE,
EFFICIENT,
ECONOMICAL
HEATING FOR
GREENHOUSE
GROWERS.**



TYPICAL APPLICATIONS

- *Greenhouses*
- *Processing Plants*
- *Waste Water Treatment Facilities*
- *Agricultural Industry*
- *Food Service Industry*
- *Any Heating Application Requiring Visual Appeal*

- Stainless Steel Construction for Maximum Corrosion Resistance
- 150,000 – 400,000 Btu Capacity Range for Any Size Application
- Individually Adjustable and Locking Louvers
- Power Vented
- In-Shot Type Burners
- Single Stage Combination Gas Valve
- Natural or Propane (LP) Gas
- Easy Access Control Panel
- 24 Volt Control Circuit
- 115 Volt Fan Motor with Internal Overload Protection
- 5-Year Warranty





Built to Last in Greenhouse Environments

Shield™ gas-fired unit heaters are built better by design. Stainless steel construction provides maximum protection against moisture and rust. They are the ideal heating solution for both glass and poly greenhouses. The durable tubular heat exchanger provides maximum and uniform heat transfer and significantly longer service life. Tubular heat exchangers are constructed of heavy-duty, 20-gauge 409 stainless steel and are less susceptible to contaminants than the exposed clamshell heat exchangers found in other competitive models.



Better Efficiency for Low-Cost Operation

Units feature a reliable and efficient direct spark pilotless ignition system, providing fast heat delivery. This system incorporates an integrated electronic control board to regulate the system sequence of operation, including an onboard LED indicator for simple troubleshooting. Direct spark ignition and power venting reduce standby losses and provide 83% thermal (combustion) efficiency.



Simple Service and Installation

Shield™ gas-fired unit heaters are designed for cost-effective, timesaving installation and service. Models are certified in accordance with Category I and III venting requirements. Designed with the service person in mind, operating controls are easily accessible in one centrally located control panel.



Models to Meet Any Size Application

No other greenhouse unit heater offers the Btu output – from 150,000 to 400,000 – to handle the heating needs of large applications. All Shield™ gas-fired unit heaters are backed by a full 5-Year Warranty on the heat exchanger, flue collector and burners.

Call **1-800-490-2290** or visit **www.sterlinghvac.com** for the authorized Shield® dealer nearest you.



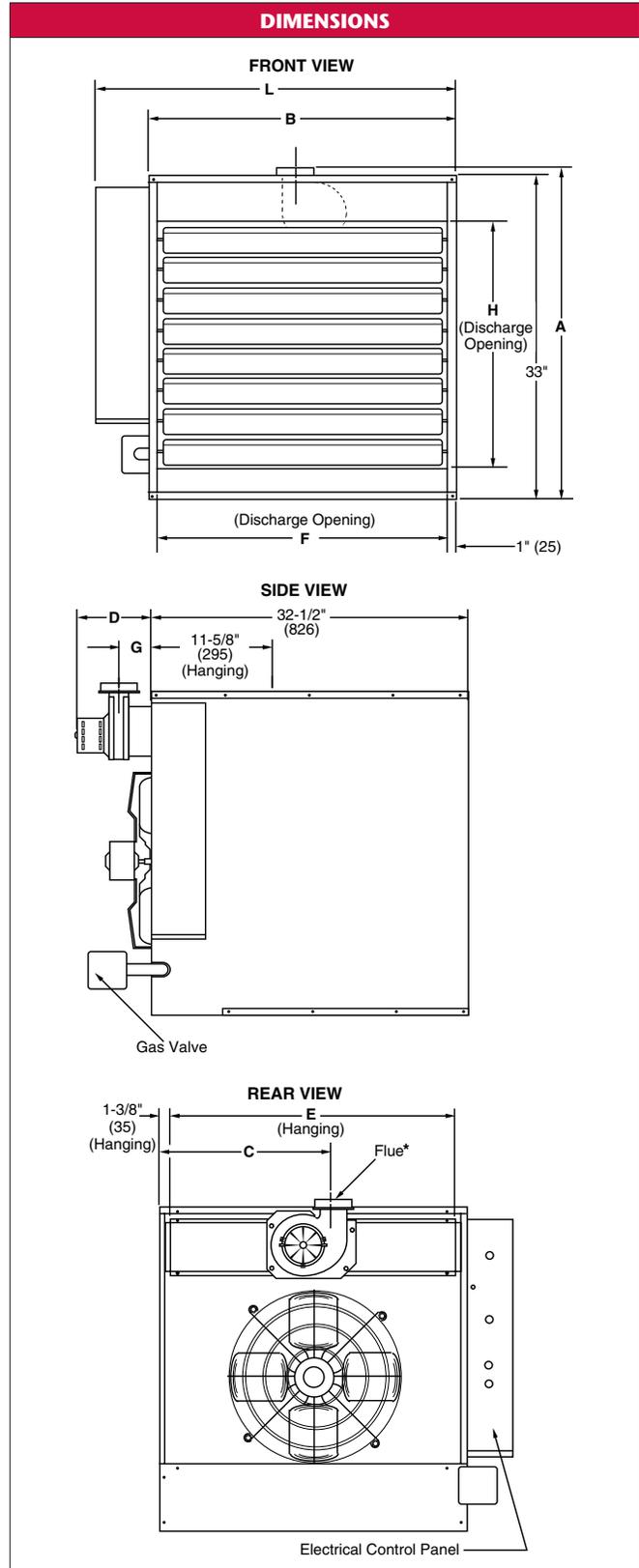
TUBULAR GAS-FIRED UNIT HEATER



PERFORMANCE & DIMENSIONAL DATA			
Type GF Unit Size	150	250	400
PERFORMANCE DATA†			
Input - BTU/Hr. (kW)	150,000 (43.9)	250,000 (73.2)	400,000 (117.1)
Output - BTU/Hr. (kW)	124,500 (36.4)	207,500 (60.7)	332,000 (97.2)
Thermal Efficiency (%)	83	83	83
Free Air Delivery - CFM (cu. m/s)	2,400 (1.133)	3,450 (1.629)	5,800 (2.738)
Air Temperature Rise - Deg. F (Deg. C)	47 (26)	54 (30)	51 (28)
Full Load Amps at 120V	6.9	8.0	13.5
MOTOR DATA: Motor HP (Qty.)	1/4	1/3	(2) 1/3
Motor kW	(0.19)	(0.25)	(0.25)
Motor Type	PSC	PSC	PSC
R.P.M.	1,050	1,050	1,050
Amps @ 115V	4.7	5.8	11.6
DIMENSIONAL DATA - inches (mm)			
"A" Overall Height to Top of Flue (857)	33-3/4 (857)	33-3/4 (857)	34 (864)
"B" Jacket Width of Unit (527)	20-3/4 (527)	32-3/4 (831)	50-3/4 (1289)
"C" Width to Centerline Flue (340)	13-3/8 (340)	19-3/8 (492)	28-3/8 (721)
"D" Depth to Rear of Housing (279)	11 (279)	11 (279)	12-1/4 (311)
"E" Hanging Distance Width (473)	18-5/8 (473)	30-5/8 (778)	48-5/8 (1235)
"F" Discharge Opening Width (476)	18-3/4 (476)	30-3/4 (781)	48-3/4 (1238)
"G" Depth to Centerline Flue (121)	4-3/4 (121)	4-3/4 (121)	5-1/8 (130)
"H" Discharge Opening Height (622)	24-1/2 (622)	24-1/2 (622)	24-1/2 (622)
"L" Overall Unit Width (641)	25-1/4 (641)	37-1/4 (946)	55-1/4 (1403)
Flue Size Diameter* - in. (Dia.-mm)	5 (127)	5 (127)	6 (152)
Fan Diameter - in. (Qty.)	16	18	(2) 18
Gas Inlet- Natural Gas (in.)	1/2	1/2	3/4
Gas Inlet- LP Gas (in.)	1/2	1/2	3/4
Approximate Unit Weight - lbs. (kg)	155 (70)	211 (96)	335 (152)
Approximate Ship Weight - lbs. (kg)	195 (88)	261 (118)	395 (179)

† Published ratings are shown for elevations up to 2,000 feet (610m) above sea level. For higher elevations derate 4% for each 1,000 feet (305m) above sea level. In Canada, derate 10% for altitudes 2,000 to 4,500 feet (610 to 1372m).

* Flue collar is factory supplied with unit; to be field installed per included instructions.



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