

FUEL TANK HEATERS

We'll keep you warm!



OE-0508FH Rev 1

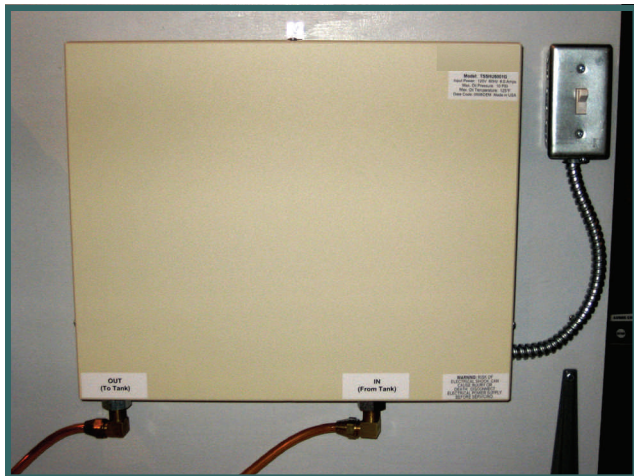
LOWER FUEL COSTS LONGER EQUIPMENT LIFE FEWER SERVICE CALLS

Quality Construction

- ◇ Powder coated sheet metal case
- ◇ 600 Watt output heating coil
- ◇ Input Power: 115 Volt 50/60 Hz
- ◇ Size: 18"L x 12"W x 2.5"H. Weight: 6.5 lbs
- ◇ 3/8" female NPT Connections

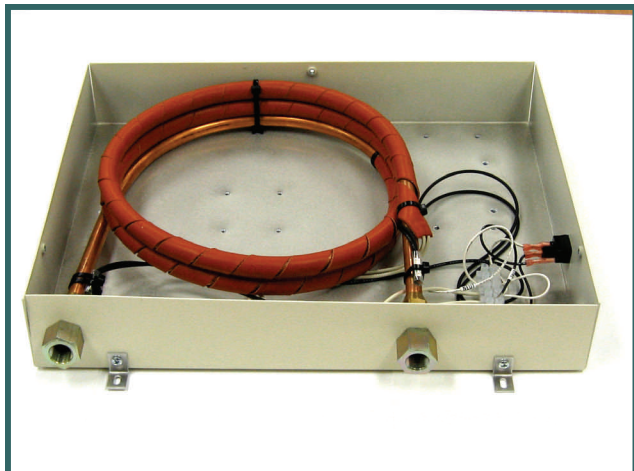
Valuable Benefits

- ◇ Automatically maintains fuel temperature at 40 °F. Ideal for **BioFuel applications**
- ◇ Only runs when needed. Operating costs less than **\$50/year** when used in conjunction with Thermal Tank Cover
- ◇ **Reduced Soot** from Increased fuel oil Viscosity
- ◇ Burner and Furnace will run at **optimal efficiency** and lowest cost



Features

- ◇ Available in one-line (Supply only) and two-line (Supply and Return) versions
- ◇ Input Connection: BX or PVC Conduit 14-18 Gauge 3 wire cable (black, white, green)
- ◇ Operating Environment:
 - 30 to 155 °F
 - 0 to 90% Relative Humidity
- ◇ **UL Listed**
- ◇ Protects up to 330 gal tank



System Operation

The two-line model (6860) runs only when there is "call for heat" and the oil burner pump is running. The unit determines the temperature of the fuel returning to the tank and turns on if it's below 38°F and shuts off when it has reached 40°F.

The one-line model (6870) samples the fuel temperature once/hour for 3 minutes and turns on if it's below 38°F. Once the fuel temperature reaches 40°F, the unit shuts off.

Ordering Information

- 6860 - Two-line Tank Heater—3/8" F NPT
- 6870 - One-line Tank Heater—3/8" F NPT (with built-in pump)

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Thermal Mangement Considerations for Heating Fuel

- ◇ Oil Burners and Furnaces are **most efficient** when running pure No. 2 heating oil or BioFuel without additives and in a free flowing state
- ◇ Mixing ("cutting") No.2 heating fuel with Kerosene to lower the gell temperature **increases cost and reduces heating efficiency**
- ◇ Using chemical additives to lower gell temperatures will **increase costs** and generally have **negative effect on burner efficiency**
- ◇ **BioFuels gell at substantially higher temperatures** than No. 2 heating oil with gelling temperatures increasing with higher percentage blends. This leads to inefficient burner operation and can cause the burner to stop working

Using OEM's Fuel Heater with Thermal Tank Covers

- ◇ A Fuel Tank Heater is designed to be used in conjunction with **OEM's new Thermal Fuel Covers**. This results in the most economical and comprehensive **Fuel Heating System** for maintaining consistent and correct fuel temperatures for outside tank installations
- ◇ OEM's Fuel Heating System pays for itself quickly and without undesirable side effects

Cost Savings

- ◇ By maintaining the correct fuel temperature and eliminating the need to cut with Kerosene, the OEM Fuel Heating system will result in

Savings of over \$300.00 for every 1000 gal of fuel consumed¹⁾

- ◇ Can prevent Freeze-ups and potentially devastating losses
- ◇ Reduces costly service calls and associated inconvenience

¹⁾Assumes: 275 Gal Outside Tank, No. 2 fuel oil price \$3.85/gal, Kerosene price of \$4.58/gal, use of Thermal Tank Cover, electricity costs of \$0.154/kwh, Difference between average outside temperature and Fuel Heater set point temperature of 11°F, 50% Kerosene.