

# ***ELEC-T-THERM*** **Electric Boiler**



**A Compact, Versatile, Easy-to-Use  
Heat Source for Forced Hot Water Systems**



**"Your Indoor Comfort Specialists!"**

# Elec-T-Therm Electric Boiler

The e-f-m Elec-T-Therm Electric Boiler is compact, clean, quiet, and does not require a storage facility or chimney allowing convenient installation near the point of use. The Elec-T-Therm electric boiler provides an energy efficient supply of warm and comfortable heat, and is built to e-f-m quality standards – the highest in the heating industry.

This electric boiler is versatile and provides an easy-to-use heat source for forced hot water systems in:

- new homes
- replacement systems in existing homes
- back-up units for solar heating systems
- supplemental heating system for the heat pump.



## *A Word About Supplemental Heat for the Heat Pump*

If you live in the great northeast, or in a region of the country where temperatures regularly fall below 40°F in the winter, the heat pump will run almost constantly to heat the home. When the temperatures fall below 32°F, most heat pumps literally shut down and the resistance heat comes on to provide back-up.

To extend the life of the very expensive heat pump unit, the electric boiler provides supplemental heat allowing the heat pump to "rest."

When heat is called for when the temperature drops below 32°F, the air in the heat pump system is below body temperature and therefore feels cool. The electric boiler can provide a heat source that is warm and comfortable to the touch.

## CLEAN.

The Elec-T-Therm heating system eliminates the need for fuel storage facilities and chimneys. There are never any odors to permeate the home or combustion emissions to pollute our environment.

## COMPACT.

The Elec-T-Therm electric boiler is extremely compact and can be easily wall-mounted almost anywhere in the home to provide heat for areas that are isolated from the main heat supply. These areas include garages, apartments, and utility rooms to name a few.

## QUIET.

Quiet operation is maintained because elements are energized in steps, thus preventing power surge and start-up vibration. Quality electrical componentry, circulator and cabinet design also contribute to the whisper-quiet operation of the Elec-T-Therm electric boiler.

## ENERGY EFFICIENT.

With e-f-m's unique "flow control" system, the Elec-T-Therm electric boiler delivers a steady flow of healthful heat using a minimal amount of electricity. Low watt density heating elements, low voltage thermostat and thorough insulation for minimum heat loss are just a few design features built in to deliver more comfort for every energy dollar.

## SMALL BOILER. BIG IDEAS.

When your projects call for the efficiency of hot water heat and the convenience of electricity, choose the Elec-T-Therm electric boiler. The Elec-T-Therm is small enough to install almost anywhere (remember, all you need is a wall), yet powerful to handle big hot water heating jobs.

# Designed by e·f·m· for Reliable Home Heating Comfort

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## A Summary of Practical Applications

- **Solar Heating Systems.** Every active solar heating system needs a reliable back-up heating unit that can perform through long periods of adverse weather. Elec-T-Therm is UL listed as a central heating boiler, thus providing the power needed for total solar security.
- **Recreational Pools.** Because Elec-T-Therm heats water fast and efficiently, it is an ideal way to warm swimming pool water. Ideal for home, hotel, club and spa pools, and popular with the hot tubs, too. Its powerful circulator maintains steady flow to keep water at uniform temperature.
- **Therapeutic Pools.** Sports and institutional facilities need a precisely regulated hot water supply for their hydrotherapy facilities. Of course, the Elec-T-Therm is the safe choice, offering a high limit switch feature that instantly de-energizes heating elements at a set temperature while the circulator continues operation.
- **Condominiums, Co-ops, Apartments.** When each living unit needs individual hot water heat, Elec-T-Therm is the cost-efficient answer. It features staged start-up for quiet operation; can be easily piped into existing hydronic systems; is great for new construction; and a necessity for conversion projects.



## A Summary of Product Features

- Five models: 10 kw to 30 kw
- One-piece steel boiler shell
- Easily accessible controls
- Low voltage thermostat
- Heats single or multi-zone systems
- Heat process water used in a manufacturing process.
- Boiler Cabinet easily removes before or after piping unit to system.
- UL Listed as central heating boiler.
- Circulator piped and wired at factory.
- 10 Year, plus 10 years, pro-rated at 5% per year, limited warranty on boiler shell; full year limited warranty on all other components.
- One-piece steel boiler shell, ASME-constructed.
- Built-in dip tube air elimination system.
- Low voltage thermostat.
- Uniform water temperature.
- Factory tested.
- Low voltage fuse protected control circuit.

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## A Summary of Product Benefits

The e·f·m· Elec-T-Therm electric boiler features low watt density heating elements installed through the sides of the boiler with ample access for service. The elements are energized in steps to prevent power surge, prolonging heater element life and assuring quiet operation.

Standard controls are factory-wired on the control panel. All controls are easily accessible through the removable cover.

Every Elec-T-Therm boiler is insulated with fiberglass insulation for minimum heat loss and housed in a rugged steel cabinet finished in azure blue powder coat for extra durability.

Clean, compact, quiet, energy efficient, versatile, affordable, and backed by the legendary e·f·m· name. And it's available now!



# Heating America's Homes For Over 80 Years.

Energy efficiency is an important consideration when buying any heating system. But there are other factors you must consider too. Like manufacturer experience, reputation and service. The simple fact is, any heating system is only as good as the company behind it.

So consider this: For over 80 years, e-f-m has been designing and manufacturing boilers and furnaces to supply dependable comfort for America's homeowners. When you do something for that long, you naturally master the process.

Because of our strict quality control standards, only the finest materials and craftsmanship is used to manufacture our products. And so it is that our boilers have become the "stuff of legend," with many of our units seeing continuous service for 40 years or longer.

## Operation

On call for heat the circulator comes on immediately, and the elements are energized in steps — two elements per step spaced at approximately 60 second intervals. When the thermostat is satisfied, all elements and circulator are de-energized at once. A high limit condition will instantly de-energize all elements and the circulator will continue to run.

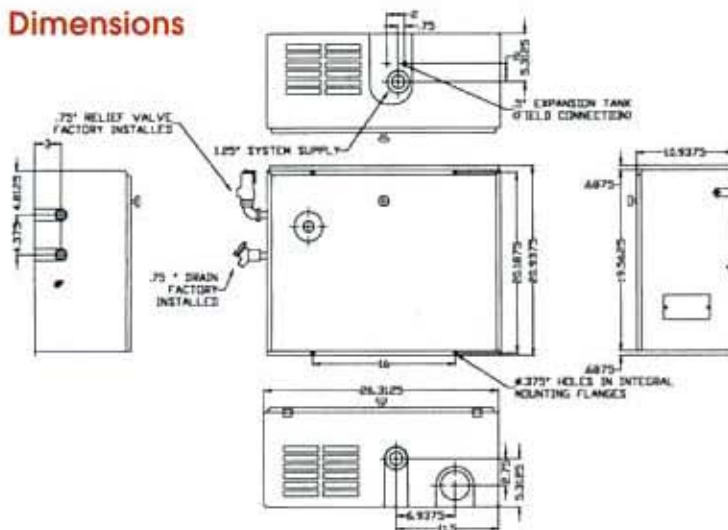
## Ratings

Boiler Size	KW Rating	Input	BTU/Hour		No. of 5KW Heater Elements	Amps			Watts at 240V	Approx. Shipping Wgt. Lbs.	
			Gross Output	*Net Output		Total	Circuit				
							1	2			3
EB4-10	10	34,000	34,000	30,000	2	43	43	-	-	10,000	115
EB4-15	15	51,000	51,000	44,000	3	64	43	21	-	15,000	120
EB4-20	20	68,000	68,000	59,000	4	85	43	42	-	20,000	120
EB4-25	25	85,000	85,000	74,000	5	106	43	42	21	25,000	136
EB4-30	30	102,000	102,000	89,000	6	127	43	42	42	30,000	145

### ELECTRICAL CHARACTERISTICS -- 120/240 VOLTS A.C. 3 WIRE SINGLE PHASE 60 HZ

\* Net ratings are based on installed radiation of sufficient quantity to serve the requirements of the building and nothing need be added for normal piping and pick up. Net rating is based on a piping and pick up allowance of 13%.

## Dimensions



## Equipment

Steel boiler, jacket, insulation, controls and circulator.

**Factory Installed** – ASME relief valve, temperature and pressure gauge, elements, circulator, drain cock, completely wired.

**Included but not installed** – Air vent, thermostat.  
**10 Year Limited Warranty** on boiler shell, 1 year limited warranty on all other components.

Authorized e-f-m Sales and Service:

e-f-m

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