

ELECTRIC BOILER

The Latest In Technology for

NOW ASME LISTED!

# HYDRONIC HEATING



# Standard Features

# Wide Range of kW Sizes Available

• 5 - 40 kW, up to 136,480 BTU output

## **Fully Modulating**

- Ideal for multiple zone systems
- 15% energy savings versus staged boilers

# **Outdoor Sensor and Reset Control**

 Adjusts water temperature based on outdoor temperature to maximize efficiency and comfort

## **Dual Energy Heating**

All models include load management control connections

# Stainless Steel Tank

- Durable, corrosion-resistant heat generator vessel
- ASME H Stamp and CSA approved

# Compact and Light Weight Design

- Easy handling
- Minimal space requirements

# **Electronic Aquastat**

- Precise supply water temperature control up to 190°F
- Ideal for radiant floor, baseboard, radiator or hydronic coil systems

# **Thermolec Electric Boiler Standard Components**



#### **Electronic Controller**

- Full modulation: maximizes heating efficiency for precise control of supply water temperature.
- Aquastat: fully adjustable up to 190°F.
- Reset control: varies water temperature based on outdoor temperature.

#### **Load Management Control**

Automatically controls boiler based on utility control.

#### **Insulated Stainless Steel Heat Generator Tank**

- Corrosion-resistant for long life.
- ASME listed

#### Solid State Control Relay(s)

Silent, long lasting control of element switching.

#### **High-Limit Protection**

Built-in manual reset for safety.

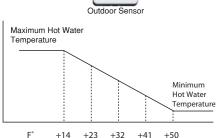
#### **Circuit Breakers Included**

• Provides safe electrical isolation for service.

#### One Model for all applications

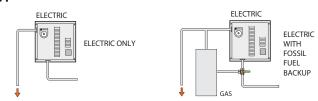


The outdoor reset control proportionally varies the hot water temperature when the outdoor temperature is between +14°F and +50°F. The result is improved comfort and energy savings on mild days.



(8-15)

# **Typical Installations**



#### For Fossil Fuel Backup Application Boiler includes:

Dual Fuel Control Switch that allows for manual selection between gas/oil or electric boiler and automatically switches based on utility company's load management signal.

## Specifications @ 240v / 1ph

FFB	B-5U-FFB	B-6U-FFB	B-8U-FFB	B-9U-FFB	B-10U-FFB	B-12U-FFB	B-15U-FFB
KW	5	5.75	8	9	10	11.5	15
BTU/HOUR	17,060	19,619	27,296	30,708	34,120	39,238	51,180
TOTAL AMPS	20.83	23.96	33.33	37.50	41.67	47.92	62.50
BREAKER/AMP SIZE	1 x 30A	1 x 30A	1 x 50A	1 x 50A	1 x 60A	1 x 60A	1 x 60A/1 x 30A
SHIPPING WEIGHT	37 lbs.	38 lbs.	39 lbs.	39 lbs.	39 lbs.	40 lbs.	44 lbs.

FFB	B-18U-FFB	B-20U-FFB	B-23U-FFB	B-27U-FFB	B-30U-FFB	B-35U-FFB	B-40U-FFB
KW	18	20	23	27	30	35	40
BTU/HOUR	61,416	68,240	78,476	92,124	102,360	119,420	136,480
TOTAL AMPS	75.00	83.37	95.83	112.50	125.00	145.83	166.67
<b>BREAKER/AMP SIZE</b>	1 x 60A/1 x 50A	2 x 60A	2 x 60A	2 x 50A/1 x 60A	3 x 60A	4 x 50A	4 x 60A
SHIPPING WEIGHT	4 <b>7</b> lbs.	4 <b>7</b> lbs.	49 lbs.	73 lbs.	<b>7</b> 3 lbs.	<b>7</b> 4 lbs.	<b>74</b> lbs.

NOTE: 3-Phase units available in 18, 24, 30, 35 and 40 KW.

#### **Dimensions**

5 - 23 kW: 18" x 18" x 9.5" 27 - 40 kW: 18" x 28" x 9.5"

#### **Limited Warranty**

10 years on elements and tank, 2 years on all other components.







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