

RichmondWaterHeaters.com

SUSTAINABLE HEATING SOLUTION

**RICHMOND ESSENTIAL PLUS[®]
ELECTRIC BOILER**



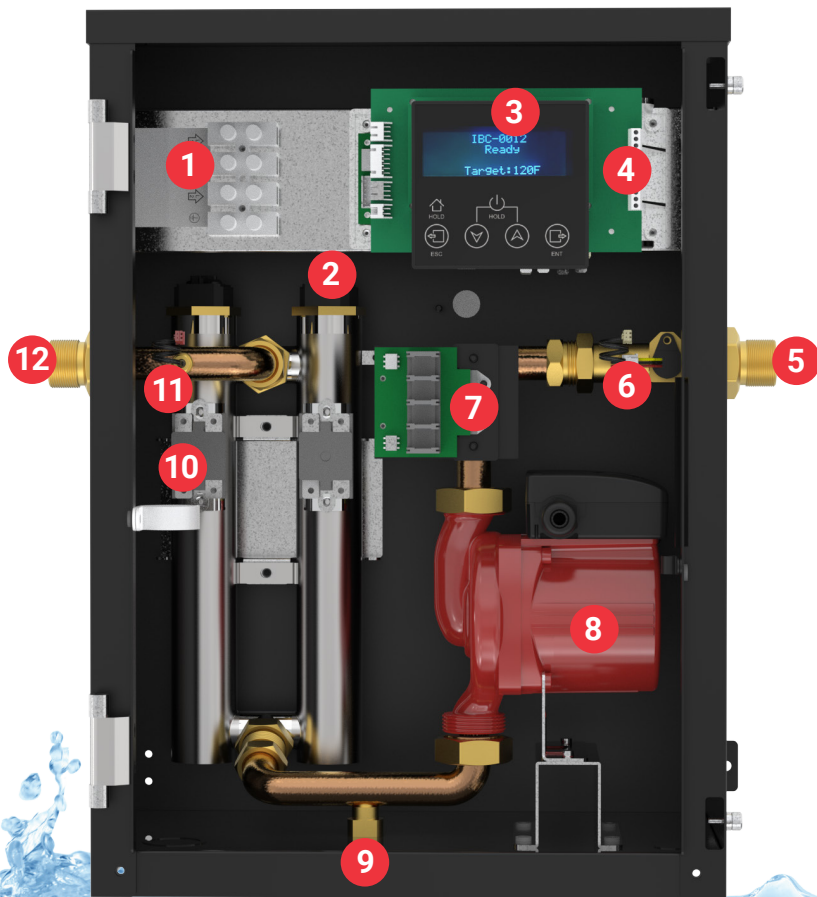
THE BEST FIT FOR:

- Primary heating up to 41 MBH
- Supplemental heat to an existing hydronic system
- A backup for heat pump / solar heating applications

Energy Efficiency & Great Cost Savings: Year after Year

The NEW Richmond *Essential Plus*® Electric Boiler offers a sustainable heating solution for a primary and secondary heat source for space heating needs up to 41 MBH. Its simple, compact design is easy and economical to install and ideal for locations where fossil fuels (natural gas/ liquid propane) or venting is unavailable.

The Essential Plus Electric Boiler requires little or no maintenance and is 100% energy-efficient due to modulating technology which produces no carbon emissions. All models contain dual titanium elements for improved performance and reliability, providing high resistance to scaling and corrosion. This innovative design ensures years of worry-free performance.



Interior

- 1 Incoming Power Wiring Connections
- 2 Heating Element (1 of 2)
- 3 Display Screen / Controller
- 4 Control Wiring Terminals
- 5 Return Piping Connection
- 6 Flow Sensor / Inlet Temp. Sensor Assembly
- 7 Solid-State Relay
- 8 3-Speed Pump
- 9 Drain Port
- 10 High Temp. Limit Switch
- 11 Outlet Temp. Sensor
- 12 Outlet Piping Connection



Selecting the Right Electric Boiler is Simple

Designed to meet your space heating needs with 4 Sizes to choose from:

- 4 kW
- 8 kW
- 10 kW
- 12 kW

Each model features:

- Modulating electric elements provide accurate temperature control
- Built-in 3-speed boiler pump
- Built-in flow sensor and high-limit safeties protect the unit health
- Outdoor reset capable with outdoor sensor to automatically adjust boiler water temperature for optimal efficiency (sold separately)

Made for Worry-Free Performance

- No greenhouse gas production means zero CO₂ emissions impacting the environment

Simple to Adjust

- Easy to read electronic temperature control adjustable in 1° increments up to 190°F or can be set for Outdoor reset operation

Longer Lasting

- Dual Titanium heating elements for long life provide resistance to scaling and corrosion for longer life

Simple to Install and Service

- No venting is required. Simply mount, connect and plug-in to enjoy endless space heating
- Removable top for easy element replacement
- Only 2 moving parts (pump and flow meter) simplifies servicing
- Propylene Glycol compatible to protect against corrosion and pressure burst
- Integrated drain port

Specifications

SPECIFICATIONS	RMHEBH-4k240i	RMHEBH-8k240i	RMHEBH-10k240i	RMHEBH-12k240i
Power @ 240V	1.3-13.7 MBH (0.4-4.kW)	2.7-27.3 MBH (0.8-8 kW)	3.4-34.1 MBH (1.0-10 kW)	4.1-41.0 MBH (1.2-12 kW)
Power @ 208V	1.0-10.2 MBH (0.3-3 kW)	2.1-20.5 MBH (0.6-6 kW)	2.6-25.6 MBH (0.8-7.5 kW)	3.1-30.7 MBH (0.9-9.0 kW)
Max. Current Draw (w/ pump) @ 240V	17.6 A	34.2 A	42.6 A	50.9 A
Max. Current Draw (w/ pump) @ 208V	15.4 A	30.0 A	37.1 A	44.3 A
Breaker Size	30 A	45 A	60 A	70 A
Copper Wire Size	10 AWG	8 AWG	8 AWG	6 AWG
Min. Ambient Temperature	32°F	32°F	32°F	32°F
Max. Ambient Temperature	122°F	122°F	122°F	122°F
Max. Relative Humidity (Non-Condensing)	90%	90%	90%	90%
Min. Water Temperature	34°F	34°F	34°F	34°F
Max. Water Temperature (Electronic Hi-Limit)	190°F	190°F	190°F	190°F
Max. Water Temperature Lockout Limit	210°F	210°F	210°F	210°F
Weight (Empty)	29 lb	29 lb	29 lb	29 lb
Min. Boiler Flow Rate	0.7 GPM	1.4 GPM	1.7 GPM	2.1 GPM
Max. Boiler Flow Rate	4.2 GPM	4.2 GPM	4.2 GPM	4.2 GPM
Max. Operating Water Pressure*	50 psig	50 psig	50 psig	50 psig
Min. Water Pressure	8 psig	8 psig	8 psig	8 psig
Element Construction	Titanium	Titanium	Titanium	Titanium

*Boiler ships with a 30 psi Pressure Relief Valve

5
1 **Warranty**
5-Year parts, 1 year element/pump



Start Saving Today!

For more information, please visit us at RichmondWaterHeaters.com or ask your local independent contractor.

Customer Service, Warranty and Parts: 800.621.5622

Technical Service: 833-212-9276

Plumber Support Group: 866.339.2388



Visit us online at Richmondwaterheaters.com or see your local distributor.



In keeping with its policy of continuous progress & program improvement, Richmond reserves the right to make changes without notice.