

ELECTRIC BOILERS  
40 KW TO 72 KW

# bthultraXL



## Efficiency and simplicity for the commercial market.

Designed to combine compactness, performance and ease of installation, the **bth ULTRA XL** is a must-have when choosing your heating equipment. This electric boiler is equipped with a T2 UltraSmart® Smart Controller for precise temperature and power management, thus optimizing heating performance and comfort. The **bth ULTRA XL** can be easily paired with an auxiliary boiler for a dual-energy installation. This makes this product ideal for use with geothermal energy, heat pumps, wood-fired boilers, biomass heating or solar energy systems.



Peak-performance  
heating systems

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ELECTRIC BOILERS  
40KW TO 72 KW

## The ideal solution for your commercial heating needs

The **bth ULTRA XL** is known for its easy-to-install compact design, even in tight spaces. Despite its small size, it offers exceptional power, providing efficient and consistent heating to your premises.

The **bth ULTRA XL** is available in a wide range of power and voltages and is compatible with all hydronic heating system configurations. Whether you need a single-phase or three-phase installation, this boiler will meet your requirements perfectly. It can be installed on the wall or on a stand on the floor.

Whether for commercial, institutional or industrial applications, the **bth ULTRA XL** is designed to meet all your needs. It is lightweight, reliable, and robust. It features varied configuration options to simplify its integration into your existing system, reducing installation and maintenance costs. It's a safe choice for your heating projects.



The intelligent T2 UltraSmart® controller modulates the power level based on the system requirements and adjusts the water temperature based on outdoor temperature.

- Accurate and easily-configurable T2 UltraSmart® controller with backlit display.
- Pre-set configurations based on the heating distribution system.
- The outdoor sensor that controls the boiler's water temperature.
- The T2 UltraSmart® Controller lets users view the boiler's operating status at a glance.





## bth ULTRA XL

### Power from 40 KW to 72 KW

- Heating stops when the outside temperature gets warmer.
- Boost mode that automatically increases the temperature when needed.
- Operates only when triggered by the thermostat.
- Ability to purge the pump when the system is not operating.
- Operating range of 50°F to 190°F
- Safety control to limit excessively high temperatures.
- Low-water cut-off control with automatic reset, test button and indicator lights.
- Power supply and pump contact (contact only for three stage voltage).
- Circuit breakers included on 240V models.
- Standard 24V power supply for thermostat and other accessories.
- 30 psi safety valve.
- Drain/purge valve.



#### Specifications

Model	40 to 72 kW
Weight	180 lbs
Volume	8 US gallons
Maximum operating pressure	30 psi
Connection	1 <sup>1</sup> / <sub>2</sub> " NPT male
Dimensions	23 <sup>3</sup> / <sub>8</sub> "L x 12 <sup>3</sup> / <sub>4</sub> "D x 23 <sup>1</sup> / <sub>4</sub> "H



## Optional floor stand

- The boiler can be installed on the floor
- Heavy-duty steel construction
- Easy on-site assembly
- Access to electrical connections
- Must be purchased separately

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## COMMERCIAL 240V / 1 phase<sup>1</sup>

Model	Power		Amps	240V Elements	Stages	Stage relays
	kW	BTU/h				
<b>BTH ULTRA XL 40</b>	40	136 480	166.7	8 x 5 KW	4	4 x 10 KW
<b>BTH ULTRA XL 44</b>	44	150 128	183.3	4 x 5 KW 4 x 6 KW	4	4 x 11 KW
<b>BTH ULTRA XL 48</b>	48	163 776	200	8 x 6 KW	4	4 x 12 KW

<sup>1</sup> 120/240V 1-phase (L1-N-L2) grounded power supply with three 90°C conductors or grounded 2-conductor power supply if the application does not require power from a 120 VAC pump or accessories.

## COMMERCIAL 480V / 3 phases<sup>1</sup>

Model	Power		Amps	277V Elements	Stages	Stage relays
	kW	BTU/h				
<b>BTH ULTRA XL 40</b>	40	136 480	48.1	10 x 3 KW 2 x 5 KW	4	2 x 11 KW 2 x 9 KW
<b>BTH ULTRA XL 48</b>	48	163 776	57.7	6 x 3 KW 6 x 5 KW	4	2 x 11 KW 2 x 13 KW
<b>BTH ULTRA XL 60</b>	60	204 720	72.2	12 x 5 KW	4	4 x 15 KW
<b>BTH ULTRA XL 72</b>	72	245 664	86.6	12 x 6 KW	4	4 x 18 KW

<sup>1</sup> 480 V 3-phase (L1-L2-L3) grounded power supply with three 90°C conductors.

## COMMERCIAL 600V / 3 phases<sup>1</sup>

Model	Power		Amps	347V Elements	Stages	Stage relays
	kW	BTU/h				
<b>BTH ULTRA XL 40</b>	40	136 480	38.5	10 x 3 KW 2 x 5 KW	4	2 x 11 KW 2 x 9 KW
<b>BTH ULTRA XL 48</b>	48	163 776	46.2	6 x 3 KW 6 x 5 KW	4	2 x 11 KW 2 x 13 KW
<b>BTH ULTRA XL 60</b>	60	204 720	57.7	12 x 5 KW	4	4 x 15 KW
<b>BTH ULTRA XL 72</b>	72	245 664	69.3	12 x 6 KW	4	4 x 18 KW

<sup>1</sup> 600 V 3-phase (L1-L2-L3) grounded power supply with three 90°C conductors.

<sup>\*</sup> Wire gauges and breaker capacities must be installed in compliance with the National Electrical Code (NEC), the Canadian Electrical Code (CEC), and local codes (if applicable).

**10-YEAR WARRANTY  
ON THE RESERVOIR**

**2-YEAR WARRANTY  
ON ELECTRICAL AND MECHANICAL PARTS**



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