

# LAARS Commercial U.H.E. Series

ULTRA HIGH EFFICIENCY COMMERCIAL GAS WATER HEATERS.

Our Biggest...Just Got Better.

Now with Enhanced Modulation and BMS Integration



- With 119-gallon capacity, the U.H.E. Series now provides additional options for high-demand needs.
- Available inputs of 399,999 and 499,000 BTU/hr.
- Enhanced modulation provides improved fuel efficiency and a 3:1 Turndown Ratio.
- BMS integration via Modbus standard. BACnet® compatible with new optional gateway kit.
- Improved features for easier installation, maintenance and reduced downtime including:
  - Optional plugged top water outlet
  - Venting versatility
  - Front-located exhaust
  - Powered anode system
  - Ideally-located space heating connections
  - Prominently-positioned ICON HD® display

## DELIVERING WHAT YOU'D EXPECT FROM THE U.H.E. SERIES

**U.H.E. Series Efficiency.** Fully condensing design with 94% Thermal Efficiency. ENERGY STAR® rated.

**U.H.E. Series Quality.** Superior Vitraglas® enamel lining. Durable, tamper-proof brass drain valves. Hydrojet® Sediment Reduction System and Powered Anodes provides better performance and a longer life.

**Proven U.H.E. Series Performance.** With higher capacity, 3:1 Turndown and BMS integration, contractors, engineers and specifiers now have even more reasons to recommend the U.H.E. Series 120T to ALL their commercial customers.



**LAARS®**  
Heating Systems Company  
A subsidiary of BRADFORD WHITE Corporation  
[www.laars.com](http://www.laars.com)

# LAARS Commercial U.H.E. Series

## QUALITY ENGINEERING FROM TOP TO BOTTOM.

- 1 MODULATING DOWN-FIRED PREMIX POWER BURNER**  
Automatically regulates fuel flow for optimum combustion.
- 2 SUBMERGED COMBUSTION CHAMBER**  
Minimizes radiant heat loss for better efficiency.
- 3 ELECTRONIC CONTROLS**  
For more accurate temperature control, superior diagnostics.
- 4 THREE PASS FIRE TUBE HEAT EXCHANGER SYSTEM**  
Provides maximum heat transfer surface area.
- 5 FACTORY INSTALLED SEDIMENT REDUCTION SYSTEM**  
Provides longer life and better performance.
- 6 BMS INTEGRATION**  
Modbus standard, BACnet® compatible via optional gateway kit.



## THE COMMERCIAL LUHE120T MODELS

Model Number	Nominal Gal. Capacity		Input	Therm. Eff.	A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to Front Hot Water Conn. in.	D Floor to Cold Water Conn. in.	E Floor to Gas Conn. in.	F Floor to Vent Conn. in.	G Floor to Air Intake Conn. in.	H Floor to T&P Conn. in.	J Floor to Top Hot Water Conn. in.	Water Conn. Dia. in.	Gas Conn. Dia. in.	Relief Valve Conn. in.	Approx. Shipping Weight lbs.
LUHE120T4003N(A)	119	99	399,999	94.0	77 1/8	33	61 1/4	12 1/4	73 7/8	6 3/4	71	58 1/2	72 1/2	1 1/2	1	1	1,120
LUHE120T5003N(A)	119	99	499,000	94.0	77 1/8	33	61 1/4	12 1/4	74 7/8	6 3/4	71	58 1/2	72 1/2	1 1/2	1	1	1,135

Model Number	Nominal Liter Capacity	Input	Therm. Eff.	A Floor to Top of Heater mm.	B Jacket Dia. mm.	C Floor to Front Hot Water Conn. mm.	D Floor to Cold Water Conn. mm.	E Floor to Gas Conn. mm.	F Floor to Vent Conn. mm.	G Floor to Air Intake Conn. mm.	H Floor to T&P Conn. mm.	J Floor to Top Hot Water Conn. mm.	Water Conn. Dia. mm.	Gas Conn. Dia. mm.	Relief Valve Conn. mm.	Approx. Shipping Weight kgs.
LUHE120T4003N(A)	450	117.2	94.0	1959	838	1556	311	1877	171	1804	1486	1842	38	25	25	508
LUHE120T5003N(A)	450	146.5	94.0	1959	838	1556	311	1902	171	1804	1486	1842	38	25	25	515

### Recovery Data

Model Number	GPH Recovery at Degree Rise*												LPH Recovery at Degree Rise*											
	30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F	120°F	130°F	140°F	17°C	22°C	28°C	33°C	39°C	44°C	50°C	56°C	61°C	67°C	72°C	78°C
LUHE120T4003N(A)	1520	1140	912	760	651	570	507	456	414	380	351	326	5754	4315	3452	2877	2464	2158	1919	1726	1567	1438	1329	1234
LUHE120T5003N(A)	1893	1420	1136	947	811	710	631	568	516	473	437	406	7166	5375	4300	3585	3070	2688	2389	2150	1953	1790	1654	1537

For Propane (LP) Gas models change suffix "N" to "X".

(A) = ASME Available.

All models comply with the latest ultra-low NOx requirements of 14 ng/J or less for natural gas and 77ppm NOx or less for liquid propane.

\* = Recoveries are based on listed AHRI Thermal Efficiencies. Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

