

LAARS PLATE

INDIRECT FIRED, SEMI-INSTANTANEOUS PLATE & FRAME WATER HEATER

The Laars Plate Advantage

High Efficiency: High heat transfer, water-to-water, plate and frame heat exchanger designed specifically to satisfy commercial potable water heating needs.

Unmatched Temperature Control: Advanced PID control, with feed forward real-time load tracking, quickly responds to variable load patterns to maintain accurate hot water temperatures.

High Domestic Water Output: Efficiently produces up to 150 GPM of domestic hot water when coupled with a boiler.

Flexibility: Controls are user configurable, two-way operation available when used with VFD pumps, and an optional communications gateway is available for additional communication protocols.

Small Footprint: Compact design is ideal for use in commercial and institutional environments where space is not available for large storage tanks.

Building Management Systems: Controls integration is via Modbus, BACnet or domestic supply water temperature control.

Wide Application Range: Ideal for new or retrofit installations, single or multiple units and no tank required.

Water to water heating applications include:

- Apartment Complexes
- Prisons/ Correctional Facilities
- Hospitals/ Nursing homes/ Medical Centers
- Hotels/ Entertainment Facilities
- Schools/ Colleges/ Universities/ Dormitories
- Commercial laundries
- Government & Office buildings



FEATURES:

- Double Wall Plate and Frame Heat Exchanger
- Advanced electronic PID controls
- Feedforward Control Logic
- $\pm 4^{\circ}\text{F}$ temp control, 5°F Approach Temperature
- High turndown electronic 3-Way control valve
- Building Management System via Modbus or BACnet
- Stainless steel and copper alloy construction
- Fully packaged for quick and easy installation
- Control Panel can be rotated 180° for easy readability
- Compact Footprint
- Certifications: ANSI/AHRI 400, ASME

COMMERCIAL DOMESTIC WATER HEATING

LAARS®

Heating Systems Company

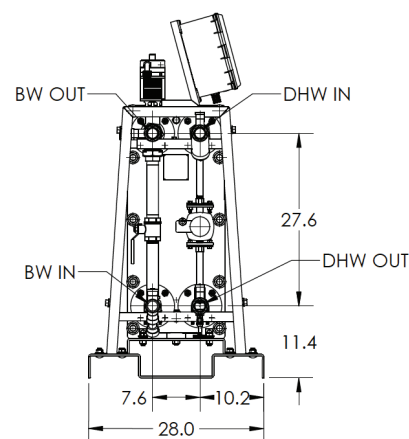
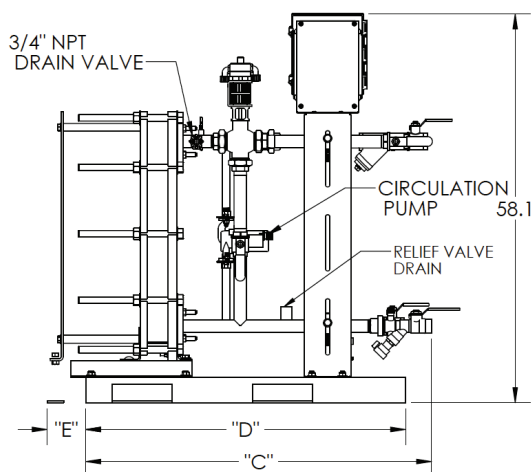
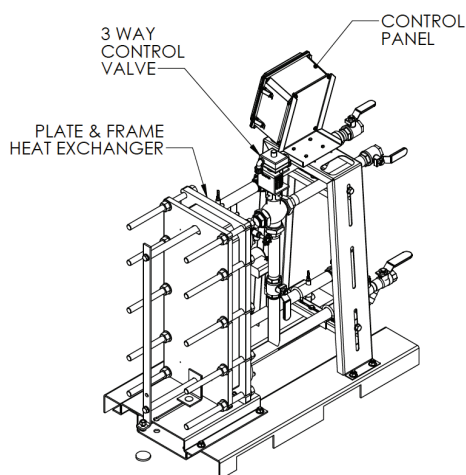
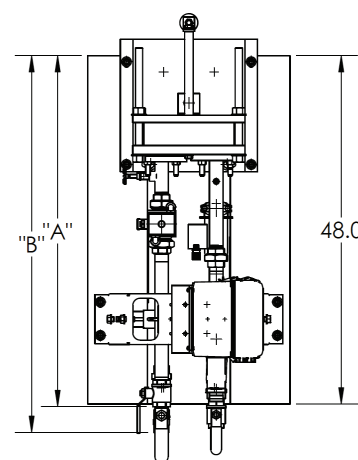
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Specifications

Model Number	LP-18D	LP-26D	LP-36D	LP-52D	LP-80D
Electrical Requirements	120VAC/1/60 Hz 2 Amp				
Standby Amperage Draw	2 Amp				
Full Load Amperage Draw	2 Amp				
Domestic Water Pressure Drop	Under 8 PSIG @ max. rated flow				
Max. Continuous Water Flow	50GPM		90GPM		
Ambient Temperature	32-110°F				
Max. Boiler Water Pressure & Temperature	150 PSIG @ 220°F				
Max. Domestic Water Operating Pressure	150 PSIG (standard)				
Adjustable Temperature Control Set Point	Up to 180°F				
Accuracy	+/-4°F				
Water Inlets/Outlet Connection Sizes	1 1/2" FNPT		2.0" FNPT		
Estimated Weight, Shipping	934 lbs	963 lbs	1024 lbs	1082 lbs	1315 lbs
Standard Listing & Approvals	ANSI / AHRI 400, ASME				

Dimensions:

Model	"A" inches	"B" inches	"C" inches	"D" inches	"E" inches	Water Connections (NPT)
LP-18D	47.5	51.8	51.5	47.8	5.8	1 1/2"
LP-26D	47.5	51.8	51.5	47.8	5.8	1 1/2"
LP-36D	48.6	52.5	52.8	48.4	5.8	2"
LP-52D	48.6	52.5	52.8	48.4	5.8	2"
LP-80D	48.6	52.5	52.8	48.4	13.6	2"



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