

Free Heat For Your Shop™

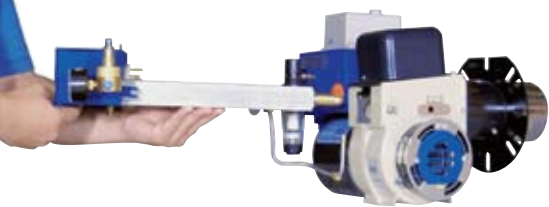


With Horizon Heaters From Firelake

The smartest design means less hassle for you

Accessible Design: Cleaning time is 75% less than a traditional heater.

Swing-out Removable Burner and Slide-out Gun Assembly: Allows easy access for cleaning and maintenance.



Advanced Heat Exchanger: Superior design promotes regular maintenance, easier cleanout and longer life.

Targetless and Tubeless: Reduces cleaning time and eliminates the need and costs of a burner target.

More versatility and higher efficiency

Dual Stack Connections: Vent gas out left or right side for more versatile installation.

Dual Multi-Directional Air Outlets: Left and/or right side, up or down, and right or left louvering.

Mounting: New symmetrical mount brackets to suspend or attach to heater.

Efficient Clean Combustion: Fuel and compressed air are preheated. Air atomizing, stop-drip nozzle prevents carbonizing.

Improved Blowers: Better balanced blowers with higher CFM.

Optional Stainless Steel Heat Exchanger

The highest level of safety and dependability

State of the Art: High-tech flame sensing, multi-try ignition, and redundant heated air sensor eliminate excessive heat build up.

Reliability: Thermostatically controlled, 24V wall thermostat and flame sensor with cutoff controls for ease of operation.

Safety Switch: Only manufacturer with air proving safety switch on burner motor.

Viewport: Improved self closing flame viewport.

Warranty: A limited lifetime warranty on all Horizon heat exchangers.

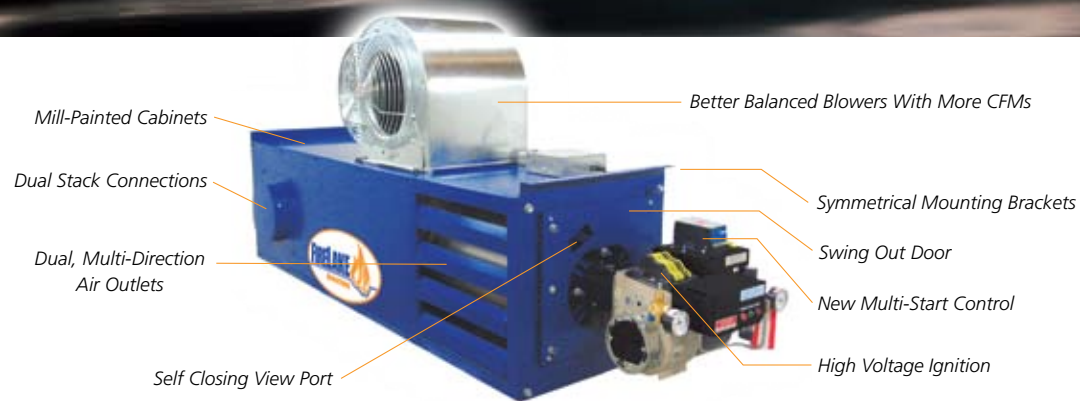


EPA Compliant

Meets EPA requirements for used oil energy recovery.

FIRELAKE
MANUFACTURING

Free Heat For Your Shop™



New self contained burner design can include built-on air compressor. Available for heaters rated 315,000 btu and under.

On-board air compressor available on Horizon model only.



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A Trusted Design

Easy to Maintain: Clean-out panels on both ends of the heat exchanger.

Models	HORIZON 155	HORIZON 200	HORIZON 245	HORIZON 315
BTU Input*	155,000 (45.42kW)	200,000 (58 kW)	242,000 BTU	315,000 (92 kW)
BTU Output (based on #2 fuel oil)	120,000 (38 kW)	160,000 (47 kW)	188,000 BTU	252,000 (74 kW)
Stack Size	8" (20.3 cm)	8" (20.3 cm)	8" / 20.3 cm	8" (20.3 cm)
Shipping Weight	400 lbs. (182 kg)	460 lbs. (209 kg)	510 lbs (232 kg)	540 lbs. (245 kg)
Dimensions (w/burner & blower) (HxWxL)	34.5" x 22" x 79" (87.6 cm x 55.9 cm x 2.0 cm)	38.5" x 22" x 92.5" (97.8 cm x 55.9 cm x 2.3 cm)	41" x 26" x 99.5"/ 1.04 m x 66.04 cm x 2.52m	41" x 26" x 110" (1.04 m x 66 cm x 279.4 cm)
Duct Opening	16" x 16" (40.6 cm)	18" x 18" (45.7 cm)	18" x 18" (45.7 cm)	18" x 18" (45.7 cm)
Electrical Requirements	30A (15A for export)	30A (15A for export)	30 A (15A for export)	30A (15A for export)
Fuel** Consumption	1.12 gal/hr (4.24 l/hr)	1.43 gal/hr (5.41 l/hr)	1.73 GPH / 6.5 LHP	2.25 gal/hr (8.5 l/hr)
Blower Motor Horsepower	3/4 HP (560 Watt)	3/4 hp (560 Watt)	1 hp (750 Watt)	1 hp (750 Watt)
Compressed Air Requirements	2 CFM @ 40 psi (.05 m ³ @275 kP) (all models)			
Listings	UL, C-UL	UL, C-UL	UL, C-UL	UL, C-UL

* BTU input based on industry standard 140,000 BTUs per gallon.

**Fuels: Used crankcase oil, transmission and hydraulic fluids, as well as other petroleum-based lubricants (any weight combination up to SAE 50, including #2 fuel oil).

Note: All installations must comply with local requirements, including permitting where applicable.



Models	3-PASS 235	3-PASS 350	3-PASS 500
BTU Input	235,000	350,000	500,000
BTU Output (based on #2 fuel oil)	188,000	280,000	400,000
Shipping Weight	480 lbs. (218 kg)	870 lbs. (395 kg)	1,010 lbs. (459 kg)
Waste Oil Consumption	1.7 GPH	2.5 GPH	3.6 GPH
Agency Listings	UL, C-UL, ETLM	UL, C-UL, ETLM	UL, C-UL
Dimensions (w/burner & blower) (l x w x h)	38" x 42" x 36"	62" x 57" x 33"	62" x 69" x 33"
Chimney Connector	8" (20.3)	8" (20.3)	10" (25.4cm)
Hot Air Outlet (H x W)	23" x 29" (58 cm x 74cm)	23" x 29" (58 cm x 74cm)	23" x 41" (58 cm x 104cm)
Electrical 1 Phase	20A (120 VAC)	30A (120VAC)	20A (220 VAC)
Blower HP/cfm	1/2 HP/2900	3/4 HP/4700	1 HP/5800
Compressed Air Requirements:	2 CFM @ 40 psi (.05 m ³ @275 kP) (all models)		

Accessories

All models may be placed on racks

Adds Value and Versatility

Convenient Oil Storage: Use the tanks as primary or secondary storage area.

Quick Access for Servicing: Heater is easy to reach with a small stepladder at 96" height.

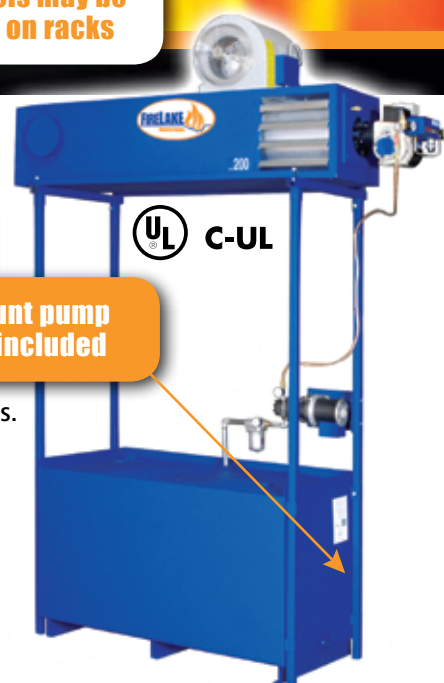
Range of Sizes: Available in 250, 350, 500 and 650 gallon sizes to suit your needs.

Oil Drain Box Option: Filling workbench tank becomes a no-mess procedure. Extra large drain box (20"sq. x 6" deep) allows for quick disposal.

Ductable Options: Models 350 and 500 feature ductable add-on kits to distribute heat to each service bay through a duct system.

Complete installation packages available

Side-mount pump bracket included



A History of Quality Partnerships

Columbia Boilers

Firelake Manufacturing is proud to manufacture burners for the well respected Columbia Boiler brand.

The Largest and Most versatile in the Industry

Six different models to choose from.

Smart Choice for Hot Water Applications

- Car washes
- Auto dealerships
- Truck repair facilities
- Quick lube shops
- Transit mix concrete firms
- Floor or radiant heat applications



In October of 2002, Firelake Manufacturing LLC obtained the Shenandoah heater and boiler lines. Firelake, a family owned metal fabrication company in operation since the 1950s, recognized the value and strength of a dependable product and brand like Shenandoah. Many of the employees that made Shenandoah a great name are with Firelake today, continuing to lead the industry with groundbreaking technologies and customer support.