



# LO-DENSITY<sup>®</sup> FUEL OIL PREHEATERS

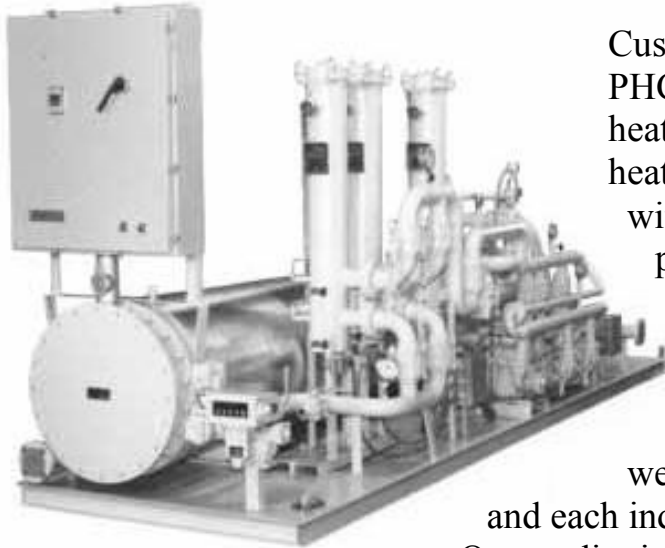
If it's safe, reliable and efficient...it must be PHCo

PHCo's "Lo-Density"<sup>®</sup> electric preheater is the solution if you are looking to save dollars when using the heavier or reclaimed fuel oils. PHCo has developed, through years of research, a system to increase atomization, insure smoother flow, have a more accurate control of temperature and improve combustion. PHCo preheaters are perfect for steam boilers, aggregate dryers or other large burner operations. PHCo preheaters are available in a wide variety of sizes to pinpoint the exact requirements and to accommodate a burner in any climate. All PHCo preheaters include a prewired U.L. Listed Industrial Control Panel housed in a weatherproof enclosure. The key Components include main disconnect, contactors, individual load fusing, control circuit transformer with fusing, indicating solid state temperature controller, solid state high limit and all the necessary wiring for automatic operation. PHCo's system can be powered by any industrial voltage to efficiently heat at a rate of 5-7 watts per square inch, reducing the possibility of coking the heater tubes.



**PHCo FPH Model Preheater**

## **Custom Fuel Forwarding Skid**



Custom packaged fuel forwarding skids available. PHCo's design allows for total accessibility to the heater terminal box. By removing its cover, the heater element assembly can easily be removed without draining the heater or removing the oil piping. There is a double flange behind the heater terminal box to which the heater tubes are welded so that the entire internal assembly can be removed for cleaning. PHCo prides itself in knowing that every piece of equipment we sell is sized specifically for each application and each individual temperature to ensure 100% efficiency.

Our quality is backed by a five year warranty on elements.

PHCo has built a reputation for quality products that meets or exceeds standards set by the industry. Safety, reliability, durability and customer loyalty are simply part of that quality.

*PHCo preheaters are environmentally safe!*

# SIZING CHART

## Fuel Oil Preheaters

PHCo Lo-Density<sup>®</sup> Electric Fuel Oil Preheaters kW Required to Heat Fuel

GPH	75°F Rise	100°F Rise	125°F Rise
100	10kW	15kW	20kW
200	20kW	25kW	30kW
300	30kW	40kW	50kW
400	40kW	50kW	60kW
500	50kW	60kW	70kW
600	60kW	80kW	90kW
700	70kW	90kW	110kW
800	80kW	110kW	130kW
1000	100kW	130kW	160kW
1200	110kW	150kW	200kW
1400	120kW	180kW	240kW

The above chart is based on ambient temperatures of 40°F minimum.  
In-between sizes should use the next larger model size.



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