



Serving Industry Since 1947

Lo-Density® HOT Oil Circulating Heater

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

With over 50 years experience in the manufacturing business, PHCo has emerged as the builder of the highest quality Hot Oil Heat Transfer systems in the industry. These units use LO-DENSITY® 100% efficient patented Coil-Lock design heating elements which will eliminate any coking or carbonization of your transfer fluid. PHCo's system will provide automatically controlled, even temperature transfer fluid for industrial process equipment such as jacketed lines, pug mills, weigh buckets, jacketed pumps, industrial dryers, production platens, and many other industrial and commercial applications. PHCo backs up their quality and efficiency with a 5-year warranty on the ETL listed heating elements.



Each unit is a complete system which includes an ASME coded exchanger, covered with high density insulation and an aluminum jacket. There is a motor-driven, special high-temperature pump with built-in relief for circulating heat transfer fluid, and a U.L. listed industrial control panel in a weatherproof enclosure with standards like a 7-day, 24-hour time clock for early morning start-up, main indicating, and over temperature controls. Also included in the package is a properly sized expansion tank



tank with a sight glass and a low level shut-off switch. PHCo takes the time to add many convenient features like a basket strainer for easy cleaning, shut off valves for the system and fill lines, and strategically located air purge valves to assist when filling the system. The system is completely pre-wired, pre-plumbed, and ready for installation and years of maintenance-free service in the rigors of an indoor or outdoor industrial setting.

PHCo prides itself in knowing that their quality products meet or exceed standards set by the industry. Safety, reliability, durability, ease of automation, and low maintenance requirements are what give PHCo's systems the competitive edge. PHCo Hot Oils are environmentally safe.

SIZING CHART

PHCo Lo-Density® kW requirements for storage tanks at different temperatures.

<u>Tank Volume Gallons</u>	<u>To Maintain 125 °F</u>	<u>To Maintain 180 °F</u>	<u>To Maintain 250 °F</u>	<u>To Maintain 375 °F</u>
2,000	6kW	8kW	12kW	16kW
3,000	8kW	10kW	14kW	20kW
4,000	10kW	12kW	16kW	22kW
5,000	12kW	14kW	18kW	24kW
6,000	14kW	16kW	20kW	26kW
8,000	16kW	20kW	24kW	28kW
10,000	18kW	22kW	26kW	34kW
12,000	20kW	24kW	28kW	36kW
15,000	24kW	28kW	32kW	44kW
20,000	30kW	34kW	40kW	52kW
25,000	36kW	40kW	48kW	60kW
30,000	44kW	48kW	56kW	68kW
40,000	52kW	60kW	72kW	84kW
50,000	64kW	76kW	90kW	100kW

The tanks must have proper insulation and weatherproofing.

PHCo Lo-Density® kW requirements for handling and storage of mixed material at 300°F.

Silos:	Cone	12.5 kW	each
	Gate	2.0 kW	each
	Barrel	150 ton	22.5 kW
		200 ton	30.0 kW
		300 ton	45.0 kW

Drag Slat Conveyors: Length times 0.432 kW

Batch Plants: 10 kW per 1000# of Pug Mill Capacity

Jacketed lines and pumps - 5 kW per 100' of line

Internal units are available for mounting in tanks. All units are the same high quality ASME pressure rated vessels. These recommended capacities include sufficient heater rating to maintain the temperature shown, plus a reserve capacity for heat-up requirements, as the calculations are based on a forty degree ambient temperature. PHCo has sizes from 10 kW that are competitively priced. Contact your local dealer.



**Process Heating
Company, Inc.**

2732 - 3rd Avenue South - Seattle, WA 98134

P.O. Box 84585 - Seattle, WA 98124

Phone: (206) 682-3414 FAX: (206) 682-1582

Email: inquire@processheating.com

Website: www.processheating.com

