



LO-DENSITY[®] HOT OIL CIRCULATING HEATER

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

With over 65 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 heat transfer fluid for equipment such as tanks, jacketed lines, pug mills, weigh buckets, jacketed pumps, industrial dryers, silos and drags. PHCo backs up their quality and efficiency with a 5-year warranty on the ETL listed heating elements.

Each unit is complete with a heater vessel designed to ASME standards (code stamping available), covered with high density insulation and an aluminum jacket. There is a motor-driven, special high-temperature centrifugal pump 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 with a sight glass and a low level shut-off switch.



PHCo takes the time to add many convenient features like a strainer for easy cleaning, shut off valves for the system and fill lines, and strategically located air purge valves to assist the



system is completely pre-wired, pre-plumbed, ready for installation and years of maintenance free service in tough industrial settings.

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.

All PHCo Heating Systems are environmentally safe.

SIZING CHART

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

Tank Volume Gallons	To Maintain 125°F	To Maintain 180°F	To Maintain 250°F	To Maintain 325°F
1,000	4kW	7kW	10kW	15kW
2,000	5kW	8kW	14kW	18kW
3,000	6kW	10kW	16kW	22kW
4,000	7kW	12kW	18kW	24kW
5,000	7.5kW	12.5kW	20kW	26kW
6,000	8kW	14kW	22kW	28kW
8,000	9kW	16kW	26kW	30kW
10,000	11kW	18kW	30kW	34kW
12,000	12kW	20kW	32kW	36kW
15,000	14kW	22kW	35kW	44kW
20,000	16kW	25kW	40kW	52kW
25,000	18kW	28kW	46kW	60kW
30,000	20kW	32kW	50kW	68kW
40,000	22kW	37kW	60kW	84kW
50,000	24kW	42kW	68kW	100kW

Above ground tanks must have minimum 3" of fiberglass (or similar) insulation and weatherproofing.

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

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

Drag Slat Conveyors: Length times 0.432kW

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

Jacketed Lines and Pumps: 5kW per 100ft of Line



**Process Heating
Company, Inc.**

