



Serving Industry Since 1947

Lo-Density[®] Storage Tank Heaters

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

The Cost Effective Choice - applications for;

- OIL RECYCLING, LUBE OILS
- GREASE, EMULSIONS
- OIL ADDITIVES
- BLENDING MATERIAL
- ASPHALT/CONSTRUCTION
- FOOD PRODUCTION
- INK MANUFACTURING
- PULP AND PAPER

Unitized Heaters remain Process Heating Company's best selling product line. Its popularity continues due to the ease of installation into any tank or vat; its 100% efficiency; its ease of automation; its lack of maintenance and remarkable reliability.

The "Lo-Density" Unitized Heater dissipates as low as three watts per square inch on the heater sheath. Temperature sensitive materials are those which become damaged when too much heat is applied too quickly. Such products need to be heated by a carefully controlled system that reduces the viscosity so the material can be utilized in industrial applications. This makes the PHCo Unitized Heater viable with most temperature sensitive products for most every industry; asphalt and other petroleum derivatives for reducing viscosity; animal oils, fats, molasses for food production; lignites, waxes, paints, inks, etc.

Unitized Heating systems are designed for easy installation. Tanks can be vertical or horizontal because dimensions are adjustable to suit any configuration. Installation is achieved by cutting a rectangular opening near the bottom of the tank. Heating elements / U.L. Listed control panel assembly is slid into place. PHCo heaters are far less trouble to install than coils for steam or heat transfer fluid because they are direct immersion heaters. No additional energy source is required. Simply hook up to utility or Gen-set power.

Unitized Heaters can be interfaced with other electrical equipment so the load of the heaters can be reduced to base rates and not incur demand charges or peak use rates, making our 100% efficient heaters even more cost effective.

PHCo products require no special insurance certifications because they adapt well to automatic control and can be left unattended without liability. Our heating elements have a five year warranty and require no maintenance other than an annual check-up.

PHCo's Unitized Heaters are available in any industrial voltage, domestic or foreign, from 200 Volts and up. Special applications are a PHCo forte. We are accustomed to working with heavy industrial products. We have worked with a variety of products. PHCo has built specialized controls from the simplicity of using time clocks to the complexity of multiprocessor computerized control systems for our heaters.

PHCo Heaters are environmentally safe!



UNITIZED HEATERS



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

Above ground tanks must have proper insulation and weatherproofing.

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. For unusual or extreme conditions and for uninsulated tanks, consult the Factory (206) 682-3414.



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