

HILCO® Quench Oil Reclaimer



PURPOSE

Heat treating operators are faced with mounting costs and tighter regulatory compliance issues when disposing of used quench oils.

The HILCO® Quench Oil Reclaimer makes it possible to safely and economically recondition and reuse quench oil. This dramatically reduces disposal costs and new oil purchases and forms an efficient fluids management system.

The system removes moisture, dissolved gases and particulate contamination from oil-based quenching fluids. Water is removed, thus eliminating the cause of foaming and possible explosive and fire hazard. The removal of particulates will eliminate smoking.

This system can easily be justified by heat treaters who generate only 2,000 gallons a year.



FEATURES

- 4-8 GPH Rated Flow
- 1-1/2 KW Low Watt Heater
- Nema 12 Enclosure
- High Temperature Cutoff Switch
- Liquid Level Indicator
- Vacuum Regulator
- 50-Gallon Storage Tank
- Replaceable Filter/Dispenser Element
- Operating Electrics as Specified
- Distillate Collection Tank
- Manual Drain Valves for Tanks
- Flow Indicator with Control Valve

DESCRIPTION OF OPERATION

The Quench Oil Reclaimer is designed to process oil at a rate of up to 8 GPH, restoring the oil down to its saturation point in a single pass, providing the water content is not over 1%.

Oil is first settled in the customer's dirty oil settling tank. A connection line from the top of this tank needs to be provided and piped into our 1/4" FPT inlet. Oil flow is adjusted from 5-8 GPH utilizing a control valve and the flow indicator provided with the unit. The oil is drawn by 27" of vacuum through a fiberglass dispersion element. The oil is heated in the vaporization chamber to 220° F and is protected by a high temperature shutoff.

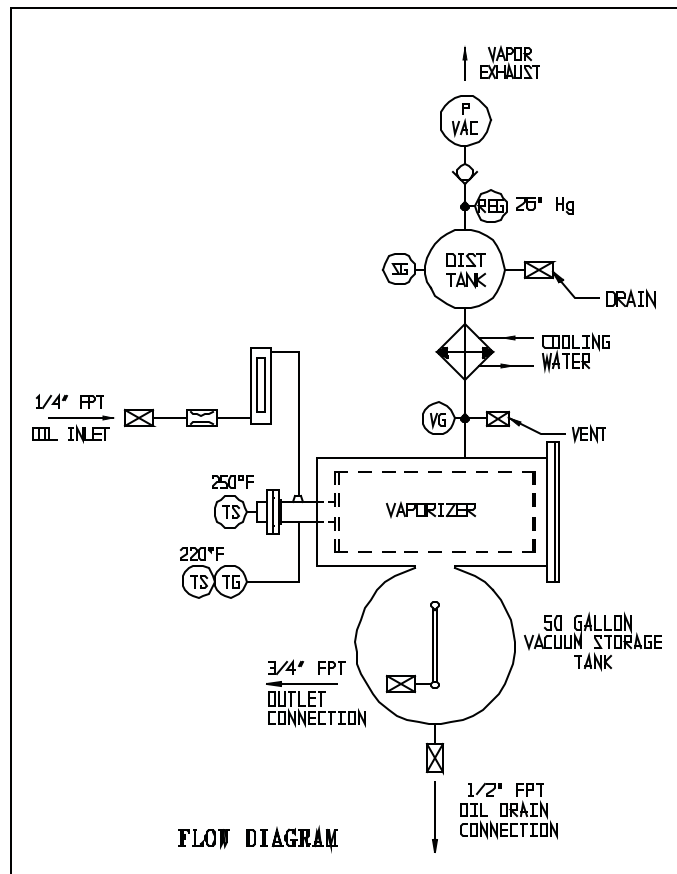
The water vapor is drawn from the chamber through a shell and tube heat exchanger where it condenses. It is then collected in the distillate tank, which needs to be manually drained after water appears in the sight glass. Processing can be stopped during this operation, but does not need to be.

The processed oil flows by gravity into the purified oil tank and is held under vacuum as long as the unit is running. There is a liquid level sight glass which needs to be monitored to determine when the oil is completely processed. After the tank is full, the vacuum pump can be left running, keeping the oil under vacuum, or shut off and the clean oil drained to a clean oil storage tank. The system is generally furnished with legs, but can be mounted slightly elevated so it can be drained and will be above the clean oil tank.

Cartridge changeout should be performed after oil flow has stopped. This would indicate that particulates have contaminated the cartridge beyond its useful life.

The Hilliard Corporation reserves the right to change specifications and dimensions at any time. Please contact the factory for the most current information.

Model 02R008



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THC-500-07/05