

Restore Oil to a Like-New Condition in a Single Pass



**HILCO Hyflow Reclaimers for efficient,
cost-effective purification of oil**

Hilco Hyflow Reclaimers for

Removes water and dissolved gases efficiently

The new Hyflow reclaimers are ideally suited for reclaiming insulating or refrigeration compressor oils or for any application which requires a high degree of purification. Moisture content can be reduced from 100 parts per million to 10 parts per million and air content from 12 percent to .25 percent in a single pass.

Designed for efficient, cost-effective oil purification, these new Hyflow reclaimers are available in four sizes for capacities of 600, 1200, 1800, and 2400 GPH. For other capacities, custom designs are available.

Special oil additives are unaffected by the Hilco reclamation process.

Standard Features

- Low-watt density heater
- Two-stage vacuum system with totally enclosed, fan-cooled (TEFC) motors
- Positive displacement oil pump
- System protection sensing devices:
 - High-temperature shut-off switch
 - Low-temperature alarm
 - Vacuum alarm

Applications

- Transformers
- Vacuum pumps
- Circuit breakers
- Refrigeration components

Options

- High-level alarm
- Inlet pump
- Mobile units (trailer-mounted)
- Quick-disconnect hose couplings
- Inlet pre-filter
- Fuller's earth filter or Activated Alumina for acid control between the heater and vaporizer
- Moisture analyzers
- PLC controls
- Batch controllers

Benefits

- Provides ease of maintenance
- Simplifies operation
- Removes water down to 10 parts per million
- Extends life of oil
- Protects your system's components from corrosion
- Decreases equipment downtime
- Provides quick payback on investment

Design simplicity for ease of operation and maintenance

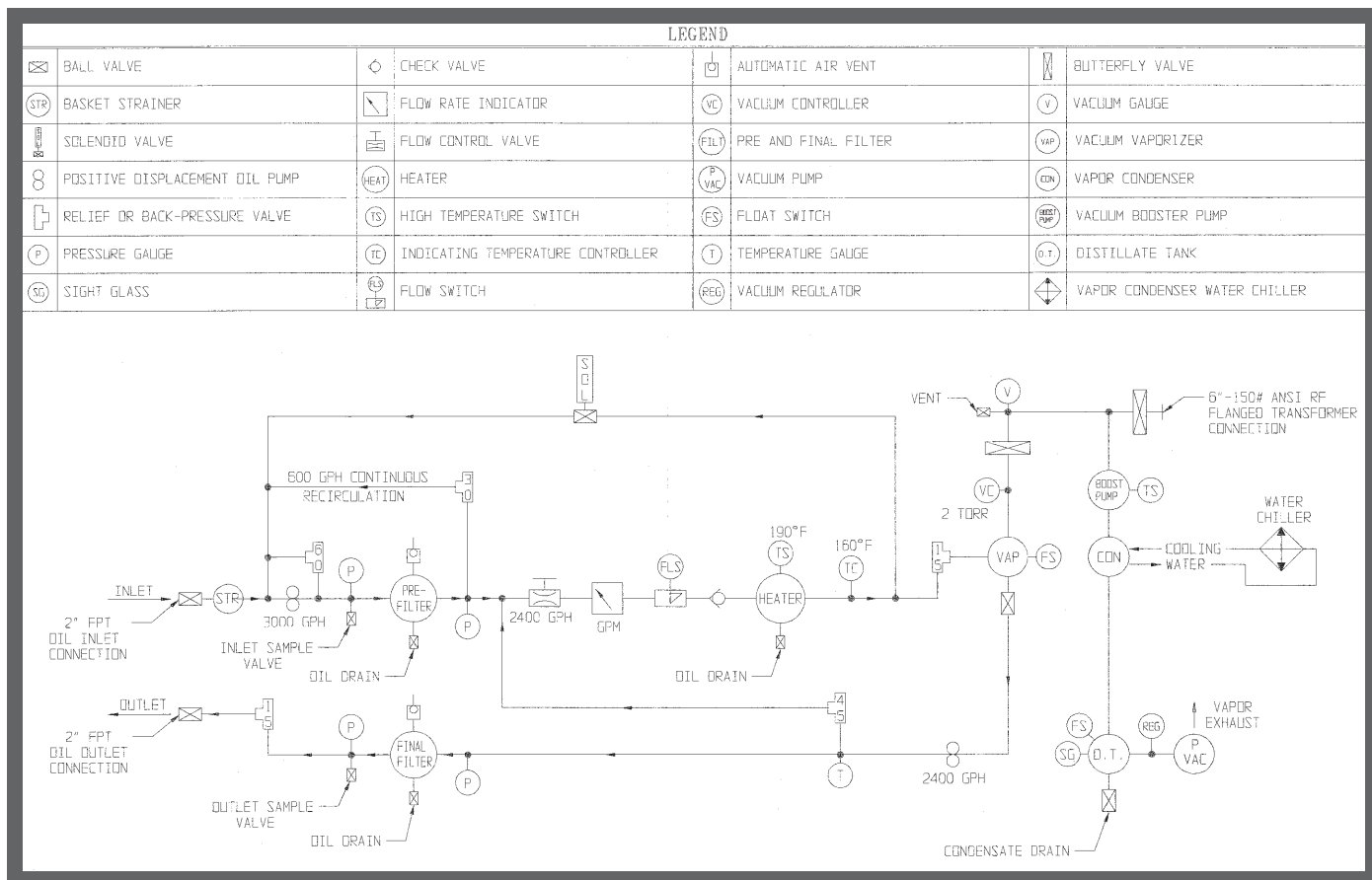
After years of extensive research and development, Hilliard engineers have designed the ultimate high-capacity oil reclaimer worthy of the Hilco name. Special attention was given to every detail to maximize operational efficiency and to minimize cost. The result is a streamlined oil reclamation process with a multitude of safety and time-saving features.

The Hilco reclamation process begins with contaminated oil being drawn -- by vacuum -- through the basket strainer and an adjustable control valve. A low-watt density heater then heats it to a temperature of between 130 and 160 F and passes it into the vaporizer. Since the contaminated oil is under vacuum during this process, the absolute pressure is lowered, resulting in a substantially lower boiling temperature for the contaminants. As the heated, contaminated oil flows through the vaporizer, it is spread to a thin film. This gives it maximum exposure to the vacuum for dehydration and degasification. The vacuum pump draws off the moisture and dissolved gases in the form of vapor. Purified oil is then pumped from the vaporizer through a final filter and to the outlet for reuse. The vapor drawn by the vacuum pump is exhausted from the system.

Simply put, this process of vacuum distillation produces oil that is virtually free of moisture and dissolved gases. The low-watt density heater is regulated by an indicating temperature controller and is protected by a high-temperature cut-off switch which senses the temperature inside the heater casing. Should a high temperature occur, the switch de-energizes the heater and sounds an alarm. A separate low-temperature switch performs a similar function.

capacities from 600 to 2400 GPH

Flow Schematic



Two-stage vacuum pump system

The two-stage vacuum pump system which evacuates the vaporizer consists of a Roots-type blower on the first stage and a mechanical vacuum pump on the second stage. Both pumps are air-cooled and direct-driven to eliminate vibration.

A built-in, automatic pressure relief valve on the first-stage pump allows the pump to operate from atmospheric pressure to ultimate system pressure and shortens transformer pump downtime.

The transformer, vaporizer, and the vacuum pump pressures are monitored by a thermo-couple vacuum gauge and switch. The switch sounds an alarm if the pressure should rise above the pre-set pressure setting.

A complete line of Hilco reclaimers

No matter what degree of purification or type of contaminants your application involves, Hilco has a reclaimer to fit the situation. For more information on our standard line of reclaimers with flow rates of 50 or 100 GPH, call or write The Hilliard Corporation or contact your nearest Hilco representative.

Specifications

Model	10HR0600	10HR1200	10HR1800	10HR2400
Capacity	600	1,200	1,800	2,400
Heater Capacity (KW)	37.5	75	112.5	128
Vacuum Pumps (CFM)	341/124	685/194	1383/194	2000/194
Approximate Dimensions (WxLxH)	57"x91"x101"	77"x120"x96"	77"x150"x96"	77"x210"x96"
Approximate New Weight (LBS)	3,500	6,500	8,500	11,500
Approximate Shipping Weight (LBS)	4,350	7,800	10,000	14,000
Crate Size (WxLxH)	57"x91"x101"	82"x125"x101"	82"x155"x101"	84"x216"x101"
Cubic Feet	303	600	748	1,061



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

The Hilliard Corporation
 100 West Fourth Street
 Elmira, New York 14902-1504
 Phone: 607-733-7121
 Fax: 607-733-0928
<http://www.hilliardcorp.com>

Your Local Representative:

