Dryer Filter Systems

Removes water and air from insulating oil used in transformers, switching equipment, and circuit breakers

Hilliard
HILCO® DIVISION

Dry and clean insulating oil, minimize

Engineered to maximize water and carbon removal and increase dielectric strength

Hilco dryer filter systems are designed for increased efficiency, compact sizing, and reduced cost.
Designed to restore insulating oils used in transformer switching equipment and circuit breakers, the new dryer filters require fewer cartridges because they include the new super-absorbent media.
Hilco dryer filters provide efficient filtration of insulating oils by removing free water and carbon particles to restore dielectric strength.
Hilliard's new dryer filters with simplified design features are self-contained to eliminate outside contamination and they are equipped with integral pump sets and ball valves for safe, convenient operation.

Standard models -- Options added easily

Standard models have capacities up to 6,000 GPH; and the modular design of the new dryer filters allows options to be easily added for more demanding applications.
Among the many options are an outlet sight glass, a discharge relief valve, an automatic air eliminator, and a flow meter.

Hilsorb™ dryer cartridges

The Hilsorb dryer cartridge combines highly efficient filtration for removal of extremely fine particulates plus super-absorbency of moisture thus providing high dielectric strength and greater stability in transformer oils. Dryer cartridges that will out-perform the original equipment are available from Hilliard for competitive vessels.

The Hilliard tradition of quality

All Hilco products are backed by Hilliard's tradition of quality, engineering, and service.
At Hilliard, we do more than manufacture quality standard products. Every effort is made to provide the best product to meet your specific application.
For more information on quality Hilco products, contact the Hilliard Corporation or a Hilco representative.

Standard Features:

- Compact size
- Automatic air vent (on vessel)
- Ball valves
- All-steel vessel construction
- Inlet "Y" strainer
- Inlet sight glass
- Positive displacement pump with built-in bypass valve
- Meets NEMA 4 requirements
- Totally enclosed motor
- Throwaway filter cartridges
- Inlet/outlet pressure gauges
- Cover lifters are furnished on Models DRS-050 and DRS-075

Benefits:

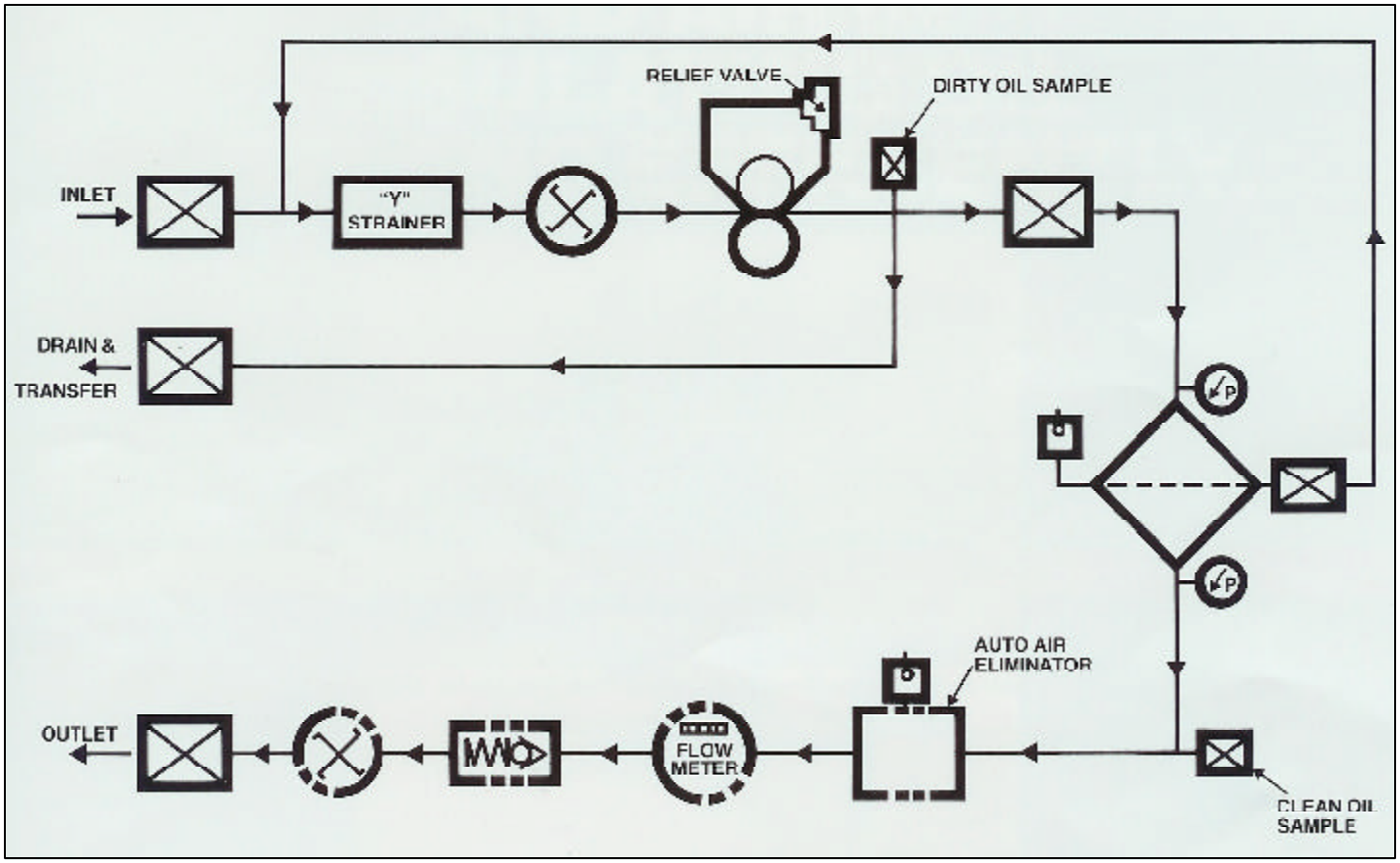
- High efficiency and reliability
- Low cost
- Low pressure drop
- Fewer cartridges
- Lightweight, compact design
- Minimum maintenance required

Options:

- Outlet sight glass
- Discharge relief valve
- Automatic air eliminator
- Flow meter
- Four-way valve
- Hoses
- Hose reels
- Portable base
- Over-the-road trailer
- Drip pans
- Higher flow rates
- Filters with Hilite (Fuller's Earth) cartridges
- Special units can be designed to meet your requirements

maintenance and off-line time.

Flow Schematic



Oil testing service

Through our extensive laboratory facilities, we can provide the following tests:

- Dielectric breakdown voltage of insulating oils of petroleum origin using VDE electrodes -- ASTM 1816.
- Dielectric breakdown voltage of insulating oils using disk electrodes -- ASTM D877.
- Water content in liquid petroleum products by Karl Fischer Reagent -- ASTM D1744.
- Water content in insulating liquids (Karl Fischer Method B) -- ASTM D1533.
- Neutralization number by Potentiometric Titration -- ASTM D664.

Specifications

Model Number	Capacity	Number of Hilsorb Cartridges	Maximum Working Pressure	Pipe Size
(DRS010)	10 GPM/600 GPH	1	100 PSI	1/2”
(DRS015)	15 GPM/900 GPH	1	100 PSI	3/4”
(DRS020)	20 GPM/1200 GPH	2	150 PSI	1”
(DRS030)	30 GPM/1800 GPH	2	150 PSI	1 1/2”
(DRS050)	50 GPM/3000 GPH	6	150 PSI	2”
(DRS075)	75 GPM/4500 GPH	6	150 PSI	2”

Note: For further technical information, see Data Sheets DD-645 and DD-646.
For installation, operation, and maintenance instructions, see Bulletin HF-11.

Fully enclosed systems are ideal for load tap changers.

Optional trailer-mounted systems are available.

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