



KLP Series Portable TURBO-TOC® Conditioning Systems



Features

Portability allows the system to be shared between multiple reservoirs

Contributes to dependable operations and helps reduce component failures

Differential Pressure Gauge designed to monitor restriction of flow caused by contaminants and indicates remaining coalescer and separator element life

Sample port included to take bottle samples for quality analysis

Automatic air valve release allows for removal of trapped air

Sight glass provides visual indication of the accumulated water separated

Innovative Conditioning

TURBO-TOC® conditioning systems support long-term operation and significantly reduce the probability of failures or unscheduled maintenance.

A major factor in reliability is the control and removal of undesired particulate and water. When contamination invades, protection placed at risk and performance jeopardized.

The KLP TURBO-TOC conditioning system's portability provides as needed conditioning for a selected reservoir during equipment uptime, and adds additional benefit during shutdown by quickly preparing for equipment start-up. After the system has removed water, it will accumulate in the coalescer vessel. When it has accumulated to a preset level, the water drain will discharge water from the system.

The KLP series is equipped with a prefilter vessel containing a pleated, multi-layered micro-fiberglass filter for ultra-fine particle removal and long element life. Particulate filtration is rated at Beta (5.1)=1000 per ISO 16889. An installation kit including one suction hose (10'), discharge hose (10'), and power cable (15') is provided with each KLP system.

The KLP Series is capable of meeting ISO Cleanliness Code 15/13/11. The KLP Series may be installed on a single reservoir or moved between multiple reservoirs.

KLP Series Portable TURBO -TOC Specifications and Details

Available Flow Rates	3 gpm or 6 gpm
Sizing	Up to 1,800 gallons (6,800 liters)
System Pressure	100 PSIG / 7 BAR (maximum)
Environmental Parameters	Minimum Ambient Temperature: 32 F (0 C) Maximum Ambient Temperature: 104 F (40 C)
Operating Voltage	3 gpm: 120V/1PH/60Hz 5 gpm: 460V/3PH/60 Hz or 380V/3PH/50Hz
Materials of Construction	Metals: Carbon Steel Elastomers: Buna-N Paint: Epoxy (Kaydon Blue)
Pressure Vessel	Carbon Steel
Inlet/Outlet Connections	Type: NPT Inlet: 3/4 inch Outlet: 1/2 inch
Pump/Motor Assembly	Pump Type: gear - positive displacement 3 gpm: 1/2 HP / 5 gpm: 3/4 HP
Fluid Compatibility	ISO 32, ISO 46, and ISO 68 mineral base turbine oil or Diesel Fuel
Filter Stages	1 st Stage: 30 mesh pump protection strainer 2 nd Stage: particulate removal 3 rd Stage: water removal
Performance	Particulate: ISO Cleanliness Code 15/13/11 ¹ Water: removal to less than 100 ppm ²
Weight (approximate)	400 lbs
Dimensions (inches)	38 L x 26 W x 44 H

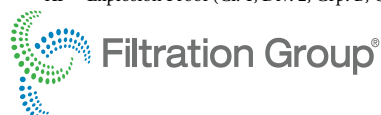
Oil Heater - One of the cornerstones of coalescing technology is to have the oil at the correct temperature for water removal. The addition of an optional oil heater assembly helps the coalescing process at start up by reducing the time to bring up the oil temperature when the oil is less than 100° F. The oil heater also adds supplemental heat to increase the bulk reservoir oil temperature. The oil heater includes a temperature controller and flow switch.

Available Models Note: Other Voltages available

Part Number	Description
KLP-3-120-M	3 gpm / 120 VAC / 1 PH / 60 Hz
KLP-5-460-M	6 gpm / 460 VAC / 3 PH / 60 Hz
KLP-5-460-AWD-H	6 gpm / 460 VAC / 3 PH / 60 Hz
KLP-3-120-M-XP	3 gpm / 120 VAC / 1 PH / 60 Hz / Exp. Proof

Note: Exp. Proof Rating Classification: Class 1, Division 2, Group B, C and D

K = Kaydon
L = Lube Oil (turbine type or equivalent fluid, mineral base, viscosities ISO 32, 46, and 68)
P = Portable
3 or 5 = Flow Rate in gallons per minute (gpm)
120 or 460 = Voltage (other voltages available)
M = Manual Water Drain
AWD = Automatic Water Drain
H = Oil Heater
XP = Explosion Proof (Cl. 1, Div. 2, Grp. B, C, & D)



Facet, Filtration Group Corporation (Kaydon Filtration)
Making the world safer, healthier, and more productive

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Consumables

Part Number	Description
C220270	Coalescer Element (Qty Req'd = 2)
C220271	Separator Element (Qty Req'd = 1)
A629022	Coalescer Vessel Lid Seal ³
KMP9600AKF8V	Prefilter
980-SEAL KIT	Prefilter Vessel Seal

1. As measured with in-line automatic particle monitor calibrated to ISO 11171 and influent no greater than ISO 22/19/17
2. Total Water content (free, emulsified and dissolved) as measured by ASTM D6304-04 (Karl Fischer method)
3. Required for element change

TURBO-TOC is a registered trademark of Filtration Group LLC
All design specifications are subject to change without notice.
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