

F42 S.I.S.™ All-In-One Two Stage Vacuum Pump Filter Kits

All-In-One Two Stage Vacuum Pump Exhaust System

Features

- 6.25" Total Height
- Purifies Vacuum Pump Exhaust Gases
- Provides for a Safe Laboratory Environment
- Low Cost
- Replaceable Elements

Stage 1 - Oil Mist Eliminator

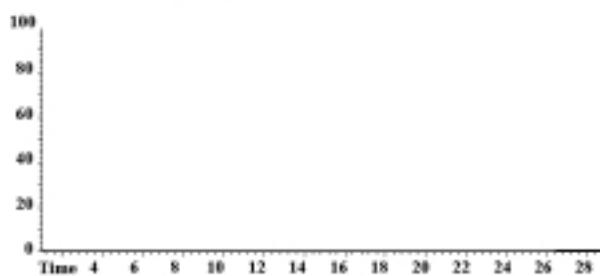
- Eliminates Pump Oil Fumes
- Returns Used Oil to Vacuum Pump
- Traps Particles to 0.3 microns
- Replaceable Coalescing Element

Stage 2 - Charcoal Filter

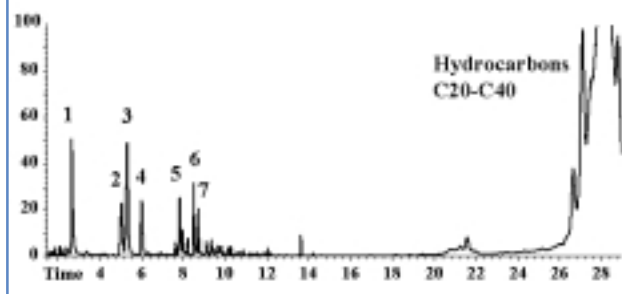
- Traps Organic Chemicals
- Replaceable Charcoal Element



Pump Exhaust After Charcoal Trap



Pump Exhaust With No Filtering



S.I.S.™ All-In-One Two Stage Vacuum Pump Exhaust Filter

Vacuum pumps are widely used for mass spectrometers and other vacuum equipment and can be a major source of indoor air contamination. It is recommended that vacuum pumps be vented outside the room or to a laboratory exhaust hood. However this is not always practical.

Air contamination by vacuum pumps originates from pump oils and oil contamination. Eventually these organics are exhausted from the pump into the laboratory air. These chemicals can present a serious environmental health problem in the laboratory.

The All-In-One Vacuum Pump Exhaust Filter System has proven to be effective for removing volatile and semi-volatile organics from exhaust of vacuum pumps and helping maintain a safe environment.

Without any exhaust filters, organic contaminants from the pump oil and hydrocarbons from the pump oil exhausted out of the vacuum pump (bottom chromatograph).

During initial pump down or when using the gas ballast valve, oil vapors exhaust from the vacuum pump. The oil mist eliminator (Stage 1) traps the heavy hydrocarbons in this exhaust.

The charcoal trap (Stage 2) absorbs and traps the volatile and semi-volatile organics from the pump exhaust and prevents these organics from entering the laboratory environment (top chromatograph).

It is recommended that both filters in the All-In-One be replaced on a regular basis. The Carbon Filter (AC-10S) every 30 days and the Coalescing Filter (GL-915R) every six months. When the All-In-One filter is used on a vacuum pump exhaust port, the exhaust from the final stage of filtering has been shown to be cleaner than normal laboratory air.