



C.I.Agent® VIPOR System

(Vault Integrated Pump and Oil Redundancy)



PRODUCT DESCRIPTION:

The C.I.Agent® VIPOR (Vault Integrated Pump and Oil Redundancy) System is an automatic dewatering equipment / sump pump that can be run with the confidence that sediment and oil will not be discharged. The VIPOR System's main core provides complete shutoff in the event of a significant oil containment event. A dewatering pre-filter covers the filter strainer core for added protection against sediment, debris and nuisance hydrocarbons keeping the main filter in good flowing condition; additionally, all VIPORs come with a C.I.Agent® VSF Sediment Filter Ring and a SCADA high-level alarm. The sump pump used in the VIPOR System is a ½ HP.

The C.I.Agent® VIPOR System is an innovative BMP for keeping water levels low in underground vaults used in secondary containment. The VIPOR System uses proven oil containment technology to provide a safe and ensured compliant wastewater discharge from an application where an automatic dewatering sump pump is desired. The VIPOR System uses the same filtering concepts and adaptable alternative technologies for secondary oil containment needs as the C.I.Agent® Oil Filtration Panels and HFF Oil Stop Valve.

PRODUCT APPLICATIONS:

The C.I.Agent® VIPOR System is suitable for situations of chronic water intrusion, sediment problems and risk of hydrocarbons. This would include underground utility vaults, substations, elevator shafts or other areas that contain oil or fuel equipment and can accumulate oil and water. Unlike unreliable oil switches, the VIPOR System's filtering technology eliminates the possibility of oil discharge and provides full oil containment.

PERFORMANCE SPECIFICATIONS:

- Filter height: 24 ¾"
- Diameter of main filter: 14 ½"
- Diameter with pre-filter: 15 ¾"
- Weight of pump w/ filter: 72 lbs
- Weight of filter: 4.5 lbs

BENEFITS:

- C.I.Agent® VIPOR System will not pass sediment or hydrocarbons providing full containment
- Allows safe, unattended discharges
- Saves crew time from frequent manual dewatering
- Keeps equipment in vaults in working order
- Ensures compliance with discharge requirements
- All encased in small simple footprint



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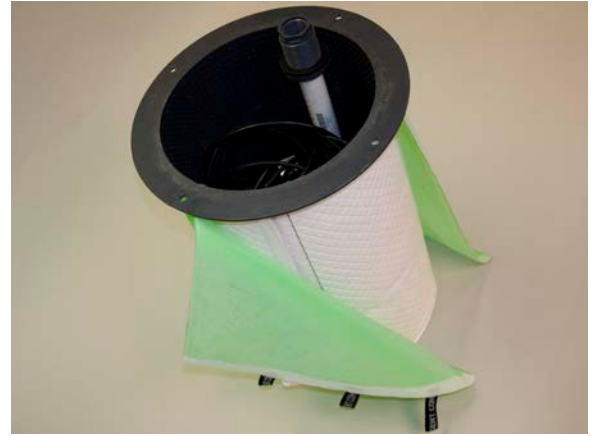
VIPOR SYSTEM COMPONENTS

The VIPOR is an fully-integrated containment system including:

- VSF Sediment Filter Ring
- Pre-Filter
- Patented C.I.Agent[®] Agent-Q Filter (*U.S. Patent 8,986,822*)
- Filter Strainer
- Submersible Pump
- SCADA High-Level Alarm
- Sediment Filter Sock (for substation sumps water inlet)
- C.I.Agent[®] Quick Deployment Boom lining inside of Filter Strainer and outer bottom of Pre-Filter

VIPOR PUMP SPECIFICATIONS

Horse Power	1/2
Voltage (AC)	115
Hz (Hertz)	60 Hz
RPM	3450
Amps (Full Load Amps)	10.5
Phase	1 Ph
Cord Type	UL Listed power cord
Cord Size	16 AWG
MoTor Insulation Class	Class B
Operating Temperature	Up to 130 degrees F
Cord Length	20 ft.
Shut Off Head	44 ft.
Max Flow	77 GPM
Discharge	1-1/2" NPT



Pre-Filter and Agent-Q Filter (above) wrap around the sturdy PVC Filter Strainer (left)

Filter Strainer houses the robust stainless steel pump (right)



SCADA High-Level Alarm (left) warns of high water or a malfunctioning pump



A VSF Sediment Filter Ring (left) protects the VIPOR from silt and debris; Quick Deployment Booms line inner floor of Filter Strainer (right) and outer bottom of Pre-Filter

