



C.I.Agent® ECO Pump

PRODUCT DESCRIPTION:

Now, automatic sump pumps can be run with the confidence that sediment and oil will not be discharged. The C.I.Agent® ECO Pump uses proven C.I.Agent® containment technology to provide a safe and ensured compliant discharge from an application where an automatic sump pump is desired. The ECO Pump uses the same filtering concepts as the C.I.Agent® Barrier Boom and Hydrocarbon Flow Filter, which protects over 7,000 sub stations, transformers or other oil filled equipment. C.I.Agent® oil solidifying granules are embedded in hydrophobic, lipophilic geotextiles and filter nuisance sediments and sheens while continually allowing water to pass. In the event of a significant hydrocarbon release, the oil is solidified by the C.I.Agent® granules creating a barrier that will not allow any liquid to pass. The ECO Pump filter creates a cavity around a robust sump pump that is fully submersible and is activated by a patented, fully submersible switch tested to millions of cycles. The ECO Pump has a 1.25" discharge pipe with check valve and a leak proof standard electrical cord.

*C.I.Agent®
ECO Pump System*



*Robust sump pump is
fully submersible*



*Fully submersible
switch tested to
millions of cycles.*



*One or 50 micron
pre-filter keeps
sediment away
from the pump.*



PRODUCT APPLICATIONS:

The C.I.Agent® ECO Pump is ideal for structures that see chronic water intrusion. This includes underground utility vaults, substations, elevator shafts or other areas that contain oil or fuel equipment and also receive water from various sources. Unlike unreliable oil switches, the C.I.Agent® ECO Pump filtering technology will eliminate the possibility of oil discharges. The ECO Pump comes with a one (1) micron or 50 micron pre-filter to keep sediment from impacting the main filter as well as nuisance hydrocarbons. The only maintenance required with the C.I.Agent® ECO Pump is the occasional backwashing or replacement of the simple Velcro®-applied pre-filter.

PERFORMANCE SPECIFICATIONS:

- 115 VAC 100% duty cycle pump motor
- Integrated high cycle life switch
- Filter height: 24"
- Diameter of main filter: 11.5"
- Diameter with pre-filter: 11.75"
- Weight of pump w/filter: 54 lbs.
- Weight of filter: 10 lbs.
- The pump and filter will handle an in-flow rate of 30+ GPM with both the 50 and 1 micron pre-filters.

BENEFITS:

- C.I.Agent® ECO Pump will not pass sediment or hydrocarbons
- Allows safe, unattended discharges
- Saves crew time from frequent manual dewatering
- Keeps equipment in vaults in working order.
- Ensures compliance with discharge requirements
- Robust pump and switch tested to millions of cycles
- All encased in small simple footprint

*For additional information call C.I.Agent®
Storm-Water Solutions.*



ECO PUMP PUMP SPECIFICATIONS

Horse Power	1
Voltage (AC)	115/1
Hz (hertz)	60
Duty Cycle	100%
RPM	3450
NEMA Start Code	D
Full Load Amps	15
Locked Rotor Amps	42
Cord Type	SOW
Cord Size	14/4
Motor Insulation Class	H
Operating Temperature	Up to 140F
Cord Length	25 Feet with Strain Relief and 3-prong plug
Shut Off Head	46 Feet
Max Flow	120 GPM
Discharge	2" (Choked to .75 exit 1.25")
Controls	Pump Integrated Level Controls 100% Submersible and Adjustable Tested to Millions Patented Switching Technology Amp Rating 30 Voltage 115 VAC Single Phase

The Pump is tuned to discharge approximately one (1) foot horizontally at 10 vertical feet of head. The pump actual discharge is less than 30 GPM as it is regulated by the infiltration rate of the water through the filter. The design of the ECO Pump is such that the water must gravity flow into the filter before the pump level control will signal the pump to energize. Once the volume of water inside of the filter is evacuated, the pump is de-energized. This will happen quickly. It also will restrict the flow to a maximum of 30 GPM output. Over time, as sediment accumulates on the outside of the pre-filter, the flow rate will reduce.

The pump is a compact, lightweight, and powerful Portable Electric Submersible Pump. It is whisper quiet and will perform in any position. The in-line design assures maximum heat transfer to the pumped liquid. The pump can operate in water up to 140°F 60°C in temperature. The design provides the coolest operating motor for maximum life.

VACUUM PRESSURE IMPREGNATION “VPI” SEALED INSULATION SYSTEM

The motor enhancement system was developed to greatly extend the winding life expectancy of an electric motor. The motor stator is loaded into a pressure vessel and immersed in the specialty selected varnish.

All gas pockets located within the stator are evacuated under vacuum. The varnish is drawn into the stator core, completely occupying all voids in the winding. Following a series of processes and ending in a controlled bake, the winding is 100% impregnated and sealed.

VPI is greatly superior to the “dip and bake” method, which may only provide 50% to 70% of effective insulation leaving voids and air pockets. VPI provides 100% solid mass structure, which provides the greatest mechanical strength and a cooler running motor due to superior heat dissipation.