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MOP WRINGER MODEL RS-31 MODEL RS-31V

The compact RS-31 oil skimming system is ideal for industrial applications which require up to 30 ft. mop and up to 100 gallon/hour recovery rates. It is designed for vertical recovery of floating oils in settling ponds, basins, sumps, API separators, or any quiescent zone where hydrocarbons collect on the water surface.

This small unit drops the mop directly onto the surface where the oleophilic fibers collect the oil. The mop is then pulled up and squeezed to release the recovered oil. A 2" pipe fitting is supplied for mounting the unit as well as gravity draining oil to a storage area.

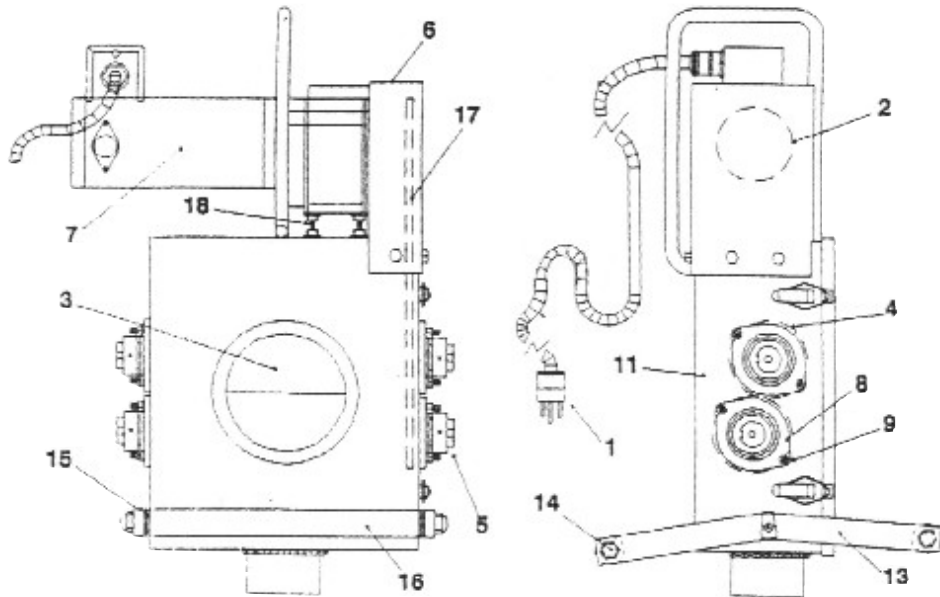
Model RS-31 (Fixed Speed Electric)

- Dry Weight: 55 lbs. - Length: 13" - Width: 14" - Height: 22"
- Power: 1/12 H.P., TEFC, 110/220V 50Hz; - Speed: 13.5/27/40 RPM

Model RS-31v (Variable Speed Electric)

- Dry Weight: 50 lbs. - Length: 13"
- Width: 14" - Height: 22"
- Power: 1/8 H.P., 90 V. DC (Variable Speed Controller is 115V., 60 Hz.)
- Speed: 0-22 RPM





**MODEL RS-31v and MODEL
RS-31 PARTS LIST**

PARTS NO.	DESCRIPTION	QUANTITY
13-001	Power Cord	1
13-002	Drive Sprocket	1
13-003	3" Squeeze Rollers	2
13-004	Squeeze Roller Sprockets	2
13-005	Squeeze Roller Bearings	4
13-006	Chain Guard Assembly	1
13-007	Gearmotor	1
13-008	Bearing Flangettes	8
13-009	Bearing Flangette Mounting Bolts	8
13-010	Motor Controller, Variable Speed	1
13-011	Frame Assembly	1
13-012	Electric Cord	1
13-013	Guide Roller Support Arms	4
13-014	Exit Guide Roller Shaft	2
13-015	Plastic Bushing For Guide Rollers	4
13-016	Entrance Guide Roller	2
13-017	Drive Chain w/Connecting Link	1
13-018	Motor Mount Bolts, Nuts and Washers	4
13-019	Exit Guide Rollers - 1" Aluminum Pipe	1

HW-4" Oleophilic Mop as needed



OLEOPHILIC MOP AND FLOATING PULLEYS

Oleophilic mops are manufactured using high quality, ultraviolet resistant fibers which attract oil (oleophilic) and reject water (hydrophobic). When attached to the central core (forming a continuous length); the fibers yield a reusable, extremely efficient, oil-sorbing retrieval mop.

Floating pulleys are foam-filled, and are designed for guiding mop across water surfaces. Galvanized steel sheaves are equipped with replaceable nylon bearings to provide long wear without lubrication. Pulley yokes (arms) can be provided with flotation, and additional flotation arms are provided in the F.P.N. series for increased stability in rough waters.

TWO STYLE MOPES ARE AVAILABLE:

- 1* **HANDWOVEN (HW):** Mops are made by manually braiding the fibers into a durable polypropylene rope core (3/8" - 3/4" diameter core).
- 2* **BELT SEWN (BS):** Mops use a 1/2" - 1" wide belting as the central core to which fibers are sewn.

OLEOPHILIC MOP

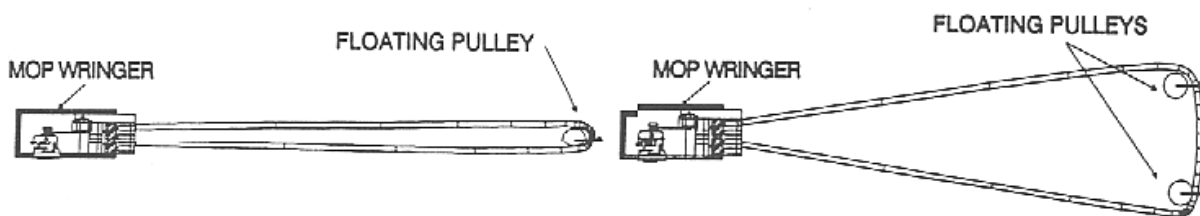
FLOATING PULLEYS

HANDWOVEN: DIAMETER	BELT SEWN: DIAMETER	MODEL	DIAMETER	MOP DIAMETER
SHW-4 4"	BS-3 3"	SFP-12	12"	4",6"
SHW-6 6"	BS-4 4"	SFP-16	16"	4",6"
SHW-9 9"	BS-6 6"	SFPN-16	16"	
SHW-12 12"	BS-9 9"	SFP-24	24"	4",6",9"
SHW-18 18"	BS-12 12"	SFPN-24	24"	

INSTALLATION & OPERATION:

MOP SHOULD BE FED THROUGH WRINGER UNIT AND FLOATING PULLEYS BEFORE SPLICING FREE ENDS TOGETHER. SPLICING IS ACCOMPLISHED USING SQUARE KNOTS ON EACH OF THE CORE STRANDS (THREE STRANDS IN HW POLY ROPE, TWO STRANDS IN BS WOVEN BELTS). WHEN DEMOBILIZING SYSTEM, ANY CUTTING OF MOP SHOULD BE DONE AT THE SPLICE.

AFTER COMPLETION OF MOP LOOP SPLICING THROUGH FLOATING PULLEY AND WRINGER UNIT, PULLEYS MUST BE PROPERLY POSITIONED FOR OPTIMUM RECOVERY OF FLOATING OILS. A TIE ROPE IS SECURED FROM THE PULLEY YOKE TO A SUITABLE POINT SUCH AS A DOCK, BOAT, BUOY/ANCHOR, OR STAKE.



CLEANING:

SOAKING OR ROTATING MOP THROUGH PETROLEUM BASED SOLVENTS, THEN SQUEEZING WITH MOP WRINGER WILL DISSOLVE MOST OIL BUILDUPS. HIGH PRESSURE OR STEAM CLEANING OF MOP WILL "FLUFF" FIBERS AND REMOVE GRIT IMBEDDED NEAR CORE. (NOTE: USE OF DETERGENTS IS NOT RECOMMENDED, AS COATING OF FIBERS WITH DETERGENT WILL LESSEN ITS OIL ATTRACTING CAPABILITY.)

CAUTION:

SOILED MOPS MAY CONTAIN FLAMMABLE OR HARMFUL HYDROCARBONS. CARE SHOULD BE TAKEN IN THE HANDLING AND STORAGE OF SUCH MOPS.

PHYSICAL CHARACTERISTICS OF OLEOPHILIC MOP:

Specific Gravity: 0.90 Temperature Range: 40°F - 210°F Color: White Shelf Life: Indefinite
 UV Resistance: UV inhibitors added Chemical Resistance: a. Unaffected by mild acids or alkalis Composition: Fibrillated polypropylene
 b. Salt water - no adverse effect

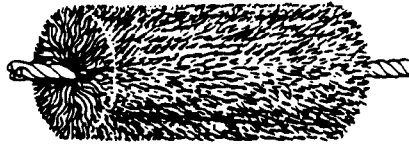


*Specifications subject to change without notice



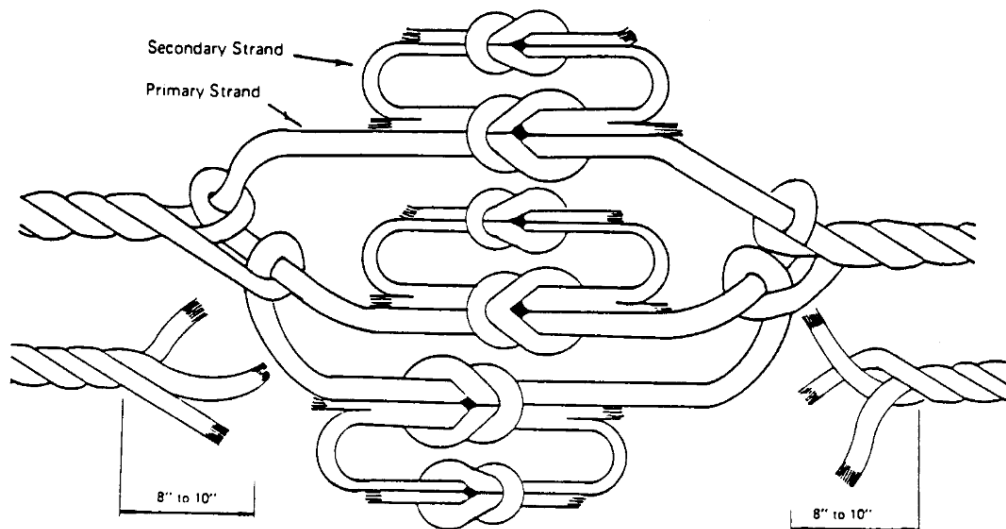
ROPE MOP

CARE AND USE



SPLICING

To form the mop-train loop, feed the mop train through the yoke of the tail pulley(s) and splice the free ends together as shown below. Take both ends of the rope mop and unbraided the three primary strands for about 8 to 10 inches at each end. Next, remove the mop fibers from the unbraided strands. Tie each loose strand at the end of the rope mop with half hitches to prevent unraveling. Tie each primary strand at the other end of the rope mop in a square knot, such that the fibers come together, eliminating any gap. With each square knot, take one secondary strand from each end and tie an additional square knot to give added strength. The unbraided ends should be left uncut to mark the location of the splice. Any cutting of the rope should be done at the splice.



CLEANING

The rope mop may be satisfactorily cleaned with any petroleum-based solvent. Perhaps the easiest way to clean the rope mop is to operate it through the squeegee rollers and a container of the solvent simultaneously. Detergents reduce the capacity of a rope mop to reclaim oil, and should therefore be used sparingly. Rope mop exposed to detergents should be washed thoroughly with water under pressure.

STORAGE

Rope mops can be stored indefinitely in a drum or storage bag. Temperatures above 210° F or below -40° F should be avoided.

CAUTION!

Dirty mops, i.e., mops with flammable hydrocarbons on them, are a fire hazard and should be stored with the same care as the flammable hydrocarbons.

SET-UP AND OPERATING INSTRUCTIONS FOR THE C-13iv MOP WRINGER

The RS-31 Mop Wringer has been designed for vertical recovery of floating oils in sumps, tanks, or pools. Two 3-inch diameter squeeze rollers provide the proper squeeze pressure for propelling and extracting oil from up to thirty feet of HW-4 mop.

MOUNTING:

The RS-31 Mop Wringer should be mounted directly above the area to be skimmed. Mounting height should allow for the free fall of mop to the liquid surface and gravity draining of recovered oil into an adequate container. Mounting is accomplished either by suspending the unit from its handle, or hard piping into the two-inch oil discharge fitting in the base of the unit.

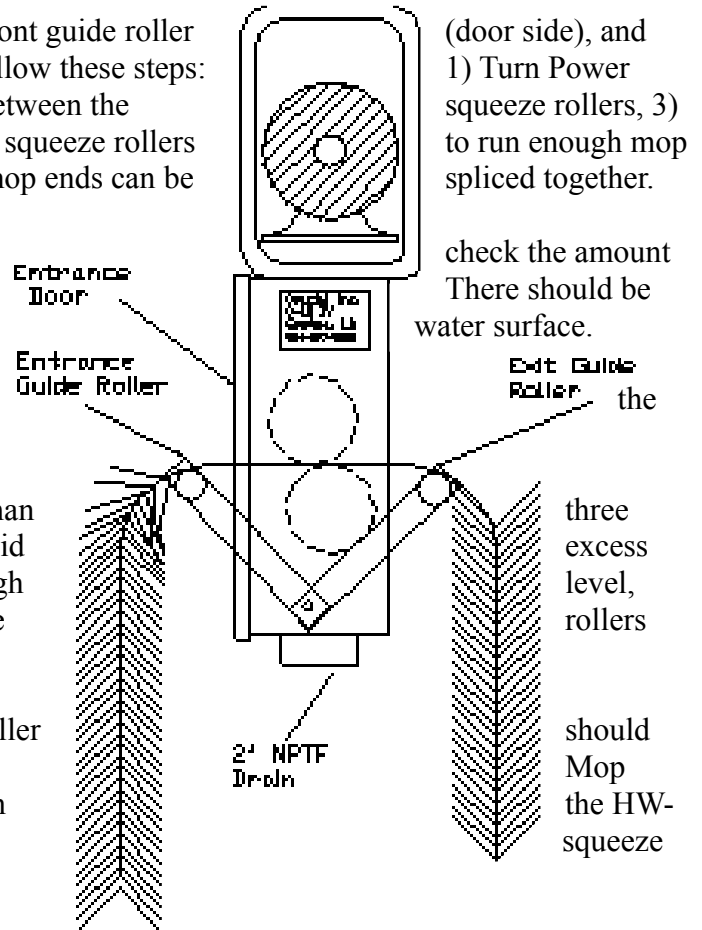
MOP INSTALLATION:

The HW-4 mop should be fed over the top of the front guide roller through the squeeze rollers. In order to accomplish this follow these steps: Off! 2) Force the tail end of the HW-4 mop into the gap between the Remove hands, 4) turn on the machine to slowly rotate the squeeze rollers through the unit and over the rear guide roller so that the mop ends can be

Before splicing the SHW-4 mop, the installer should of HW-4 mop floating on the skimming area surface. between two and six feet of SHW-4 mop in contact with the Longer lengths of mop floating on the skimming area could possibly cause tangling of the mop and damage to Mop Wringer.

For installations where the liquid level varies more than feet, the mop should be spread over the surface area to avoid build up of SHW-4 mop beneath the Mop Wringer. At high the use of floating tail pulleys, loops of plastic hose or pipe can serve as guides for the SHW-4 mop travel.

After the Mop Wringer is installed, the front guide roller be adjusted to allow the incoming mop to pass through the Wringer with ease and minimum loss of recovered oil from 4 mop when squeezed through the four inch opening to the rollers.



(door side), and 1) Turn Power squeeze rollers, 3) to run enough mop spliced together.

check the amount There should be water surface.

the

three excess level, rollers

should Mop the HW-squeeze

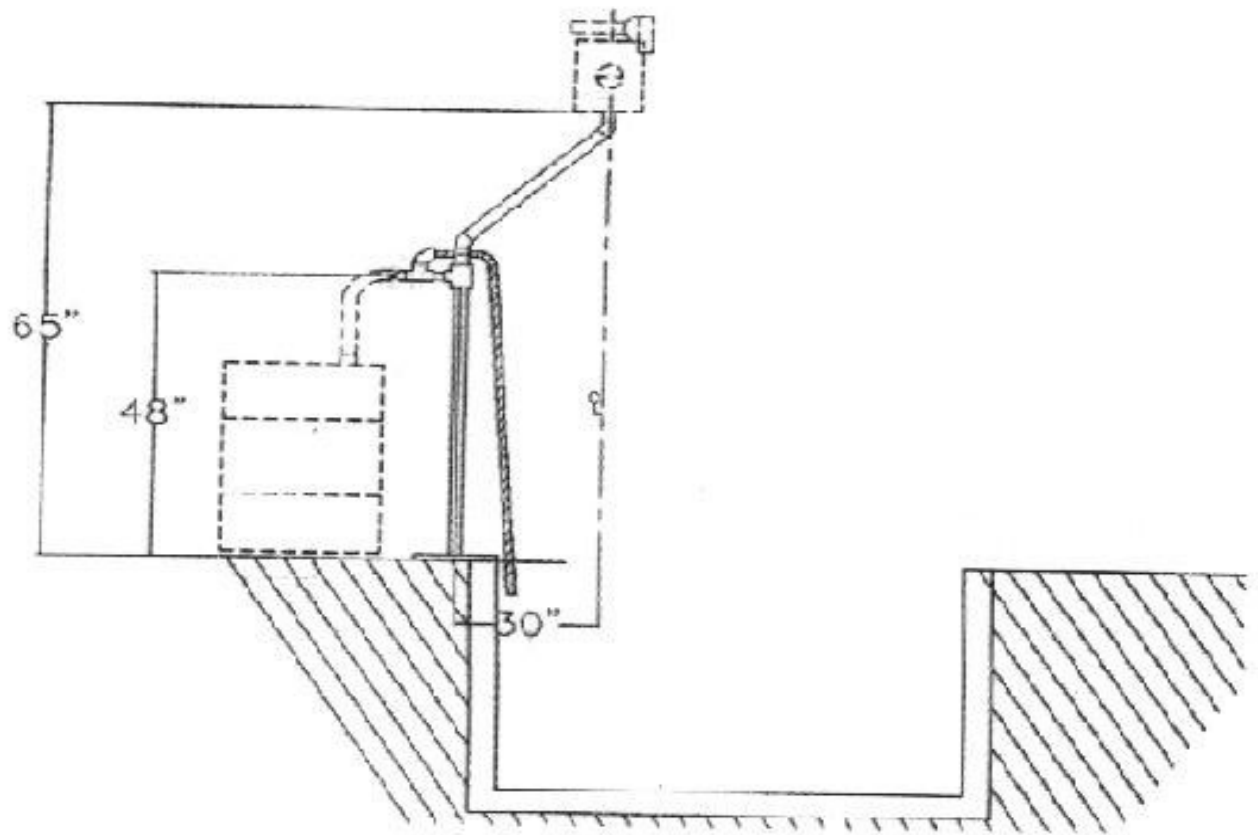
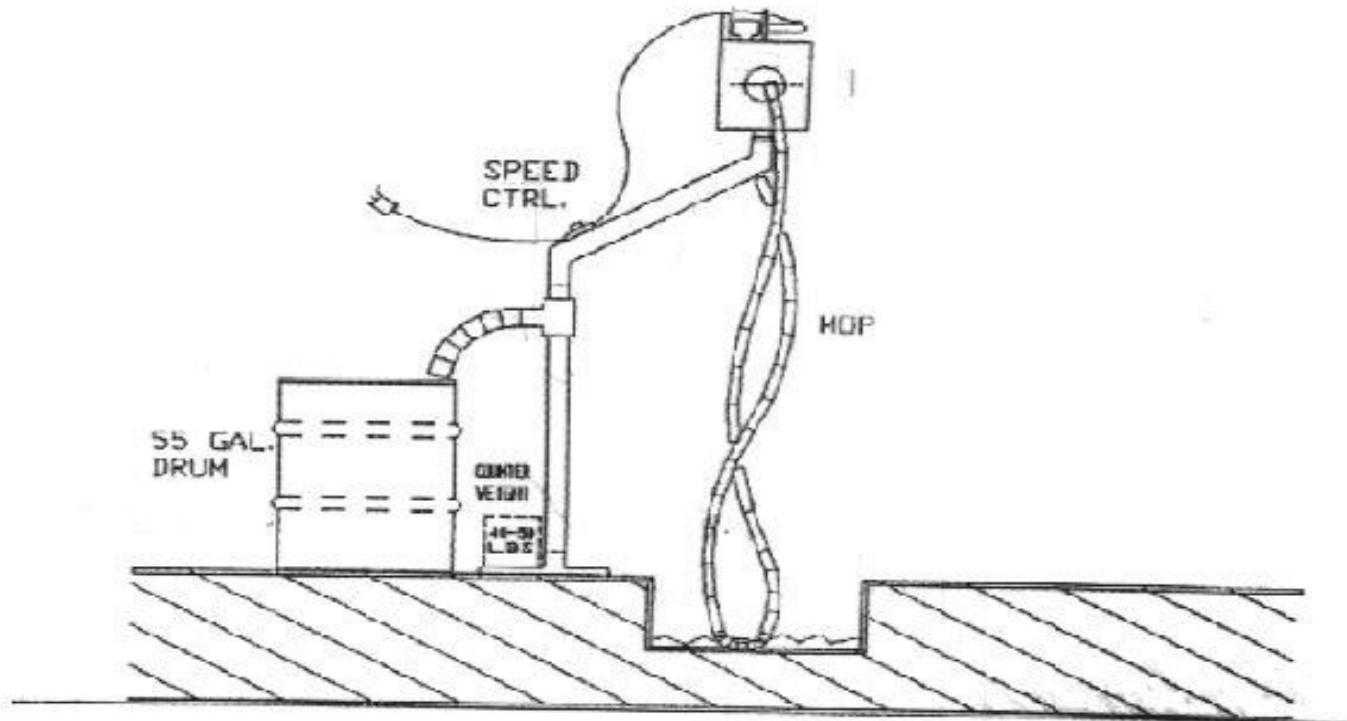
OPERATION:

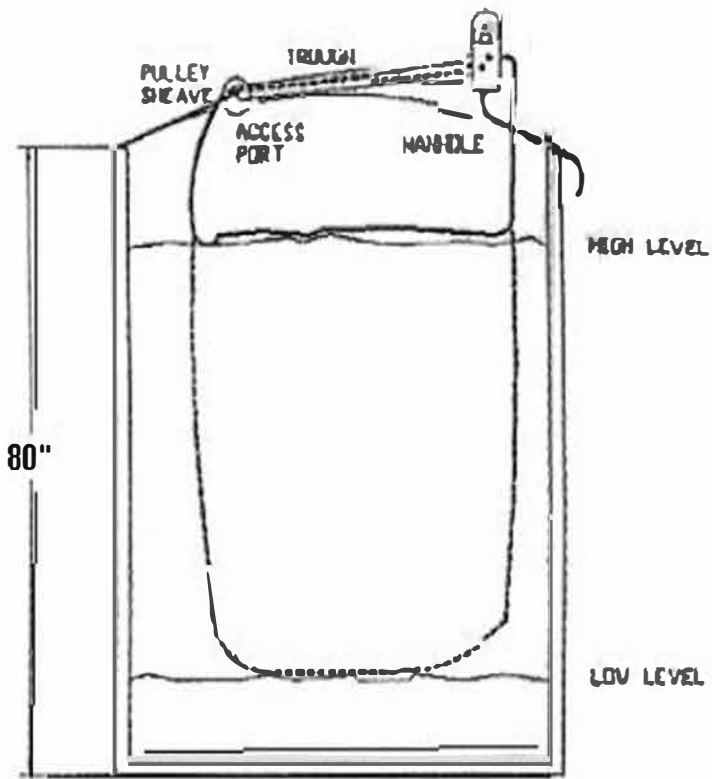
During the first few days of operation the Mop Wringer should be monitored frequently. Recovery rates, SHW-4 mop travel and the possible tangling of mop should be observed. Once the unit has been operating trouble free for a few days only periodic checks should be required. However, the Mop Wringer should not be

left running unattended overnight or over weekends, etc. In many cases, continuous operation of the Mop Wringer may not be required, as all floating oils are removed with only a short period of operation.

In these instances we recommend the use of a timer to operate the Mop Wringer at different intervals or appropriate times.

At top speeds the Mop Wringer is capable of recovering up to a 100 gallons per hour. If oil recovery requirements are only a few gallons per day, slower speed operation or intermittent use will prolong the life of the Mop Wringer's component parts.





GUIDE PIPE P/S

