

Owners Manual

C.L.E.A.R.S

Continuous Liquid Extraction And Recovery System

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Continuous Liquid Extraction And Recovery System

NO PUMPS, NO FILTERS, NO BULL.

READ AND SAVE THESE INSTRUCTIONS

1. Introduction

Congratulations on choosing hybrid CLEARS. The most advanced flood pumping extractor on the market today! This revolutionary




patented device not only removes water, sand, silt, rocks, mud, and other debris it also expels its capture through a 1 ½ inch hose without the use of filters.

- No more filters to empty, traps to drain;
- No more stopping to clean out catch basins;
- No more loss of prime or loss of suction during operation;

Just vacuum it in and it pushes it out.

- If you can suck it in the hose CLEARS will push it out in seconds;
- 10 Ft of water lift on extraction thru 1 ½ inch hose and;
- 20 Ft of head lift on expel thru 1 ½ inch hose;
- Move debris over 150 feet;

2. Product Specifications

<u>Model Standard</u>	CLEARS w/25 Ft hoses x 2
<u>Power</u>	115 V 60 HZ
<u>Amp Draw</u>	10 AMP Single Cord 20 AMP Dual Cord
<u>Motors</u>	4x 2 stage tangential VAC
<u>Intake Size</u>	STD 1 ½" crush proof
<u>Expel Hose Size</u>	STD 1 ½" crush proof
<u>Dimensions</u>	17.5" W x 20" D x 7"H
<u>Weight</u>	135 LBS
<u>Power Cords</u>	25' X 2, 14 AWG
<u>Head Lift</u>	20' maximum
<u>Gallons Per Minute</u>	Over 40
<u>Safety Listing</u>	

"U.S. Patent No. 10,557,480"

3. Key Safety Warnings

When using any electrical equipment, basic safety precautions should always be practiced, including but not limited to the following:

- Do Not Alter machine in any way;
- Never operate electrical equipment in standing water;
- Use only as described as in this manual;
- Always use in upright position;
- Never sit or stand on unit;
- Never use extension cords;
- Never use with damaged or frayed cords;
- Always use GFCI outlets for each cord;
- Always unplug unit before starting any kind of servicing;
- Always turn unit OFF before unplugging power cords.

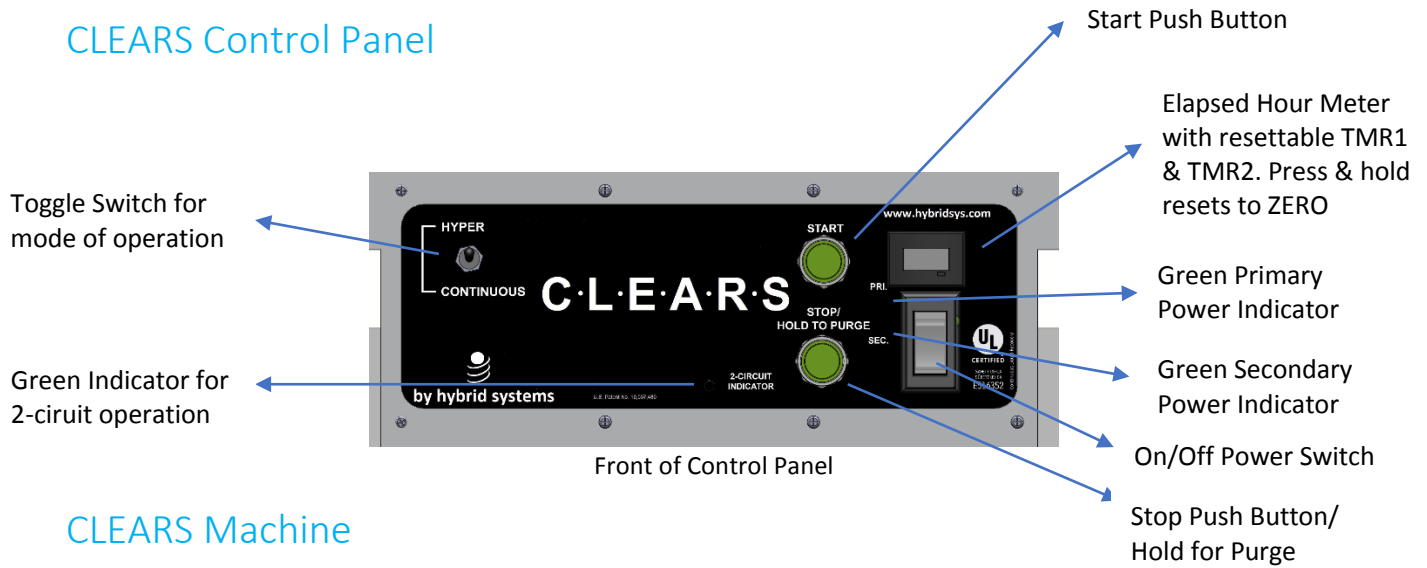
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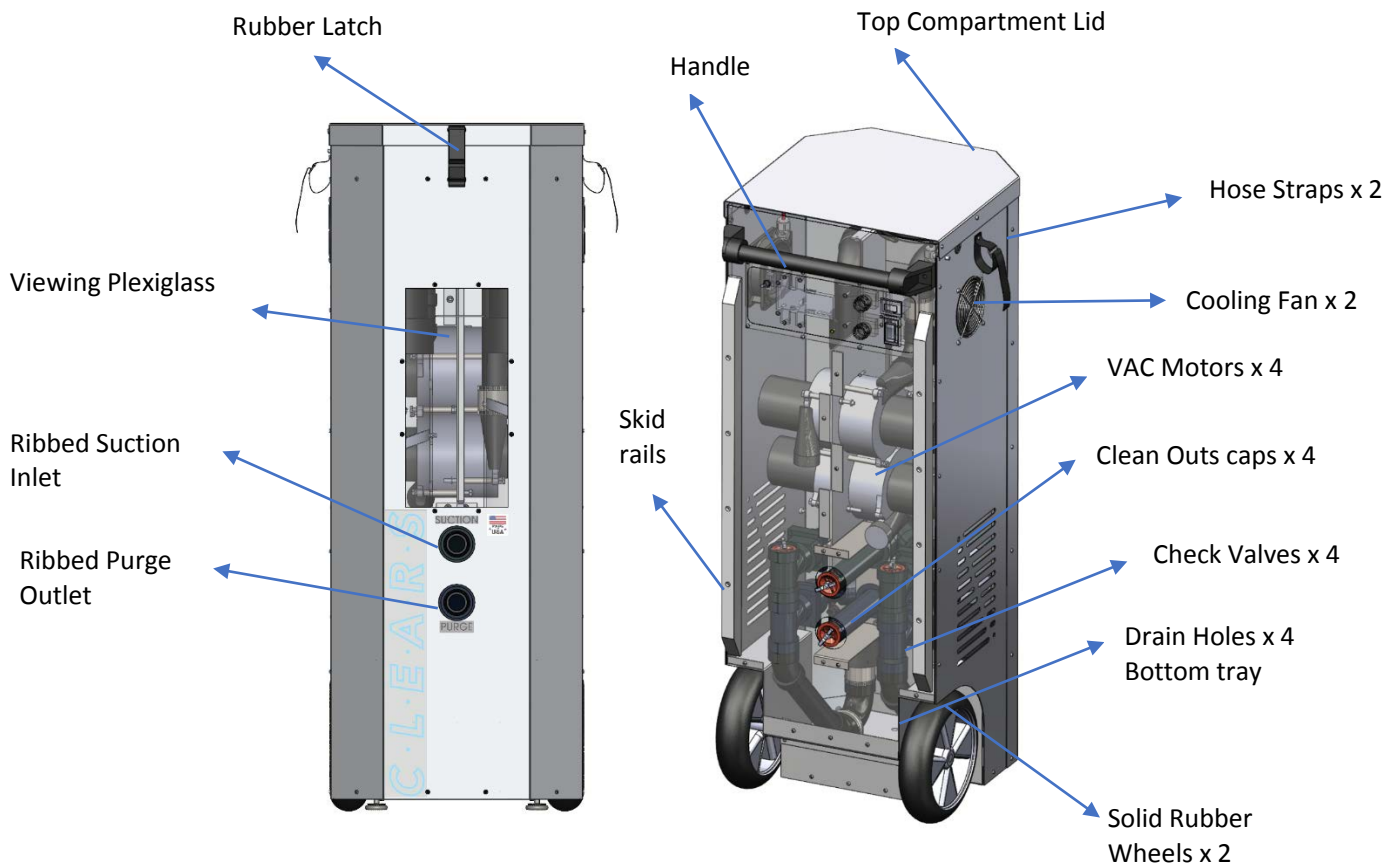
4. Feature Identification

Below a summary of the CLEARs features are discussed.

CLEARs Control Panel



CLEARs Machine



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5. On-Site Set Up

Your CLEARS machine is equipped with soft rubber 1 ½ " Vacuum hose cuffs. Two barbed fittings on the front of your machine marked "In/Suction" and "Out/Purge"

- Identify the waste discharge area, toilet, tank, outside drain or other area.
- Make sure machine is on solid level ground to help prevent unit from falling over;
- Connect hose to "PURGE" outlet of the machine, and place opposite end to desired waste or drain area;
- Next, attach intake or SUCTION hose to machine and attach wand or another intake device to opposite end;
- Next, undo latch on front top of unit and open cord bay. Take cord marked "PRIMARY", and plug into GFI Circuit protected outlet. 110VAC/115VAC 15AMP;
- Next take second cord marked "SECONDARY" and plug into a **separate** circuit GFCI outlet. There is a **Separate outlet indicator light** on the front panel. This light will illuminate when you are on a separate circuit. There is also a buzzer that sounds to let you know you are on a separate circuit.

Note: The CLEARS machine automatically knows if the machine is operating on a single power cord or on Two, and adjusts the power consumption and makes internal adjustments accordingly.

Any change from one power cord to two power cord or vice-versa machine must be powered down and powered back up (RESET)

- **Note:** The **PRIMARY** power cord **MUST** be plugged in for the machine to operate. A PRIMARY power indicator LED shall turn ON. The **SECONDARY** power cord must be plugged in for machine to operate in more demanding modes. A SECONDARY power LED shall turn ON. Separate Circuits Connection LED turns ON when true separate circuits are used for the operation of machine and simultaneously a buzzer notifies operator of the condition. Separate circuit is a **MUST** for maximum performance operation. If **Separate Circuit Indicator Light** is NOT on, the machine functioning may be disrupted if demanding operation is imposed on machine;

6. Operating instructions

Press main Power switch with water proof protective boot to **ON** position. The **PRI.** And **SEC.** LEDs next to the switch will turn on, if both cords are used. The cooling fans on both side panels will also turn ON. The 2-CIRCUITINDICATOR LED will also turn ON, provided the power cords are on true two separate circuits.

Push **START** button momentary switches on the front panel for CLEARS machine to operate.

Set Mode Configurations:

1. **CONTINUOUS – Two cord operation**
In this mode, the toggle switch arm is facing down towards the **CONTINUOUS** label position. Pressing START pushbutton begins operation. This option fills one chamber, while simultaneously purging other chamber and vice versa. This action continues until STOP pushbutton is pressed.
2. **HYPER – Two cord operation**
In this mode, the toggle switch arm is facing up towards the **HYPER** label position. Pressing the START pushbutton begins this process. This option allows for two chambers to perform simultaneous suction followed by simultaneous purge. This mode provides a stronger purge & suction for medium to travel a longer distance (approx. 100 Ft). The process continues until STOP pushbutton is pressed.
3. **Single Primary Cord operation**
At times there is only one cord used. In this case the cord used **MUST** be the **PRIMARY** cord. Press START pushbutton to begin process. This operation will fill only one chamber and follow with purging the same chamber. Other chamber is not functional. The operation shall continue as stated until STOP pushbutton is pressed.
Toggle switch for **CONTINUOUS/HYPER** is **disabled** when single power cord is used.

The CLEARS machine has **four (4) clean outs**. These are identified with **COLORED** tethered plugs that have convenient finger screws. Two are readily accessible from the back, for on the fly clogs. There is a push rod located in the cord tray to help opening clogs.

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NOTE:

The **STOP/HOLD PURGE** button has dual functionality

- If pressed once the CLEARs machine will stop;
- If pressed and held continuously the CLEARs machine will perform the discharge or purge function as long as the button is pressed.

Clogged?

- **Press and hold** the **STOP** button on control panel to begin purging;
- Release and observe if clog is removed;
- Repeat, press and hold **STOP** button;
- Observe if clog has cleared;
- If NOT, and chambers are not filling or emptying, then turn machine off by pressing power OFF switch on front of control panel.
- Unplug power cords.

Most often, if not always, the clog is from solids such as mud and other debris trapped in either the hose at a bend or inside the plumbing “Y” of the machine. If necessary, use provided pushrod to help in clearing the clog, using access ports in the back of unit.

Open the cord tray and remove the provided push Rod, labeled with de-clogging tool;

- On the back of the unit, open top cleanout plug, by first loosening the finger screw, then open the lower cleanout. Use the push rod to clear the clog;
- Close up the clean out caps, tighten and replace push rod in power cords compartment;
- Turn unit on and resume operation.

7. Troubleshooting Guide

Unit will NOT turn ON

- Ensure the Unit has power. Depress Start/Stop button. Check to be sure that the **PRIMARY** cord is plugged in and the **PRI. LED** is ON.

Unit turns off or Trips

- Is **2- CIRCUIT INDICATOR LED ON?** If **NOT**, plug in **SECONDARY** cord to a separate circuit, so that indicator is **ON** and the unit sounds the buzzer for a short time.

Unit not filling

- Possible clog;
- Press and hold **STOP/HOLD PURGE** button on control panel;

- Release and observe if clog gone;
- Repeat, press and hold **STOP** button;
- Observe if clog gone;
- IF NOT, and chambers are not filling or purging, then turn machine off by pressing power button on front of control panel;
- Most often, if not always, the clog is from solids such as mud and other debris trapped in either the hose at a bend or inside the plumbing “Y” of the machine;
- Turn machine OFF and unplug power cords;
- Open the cord tray and remove the provided push rod;
- On the back of the unit, open top cleanout plug, by first loosening the finger screw, then open the lower cleanout. Use the push rod to clear the clog;
- Close up clean out caps tighten and replace push rod in power cords compartment;
- Turn unit on and resume operation.

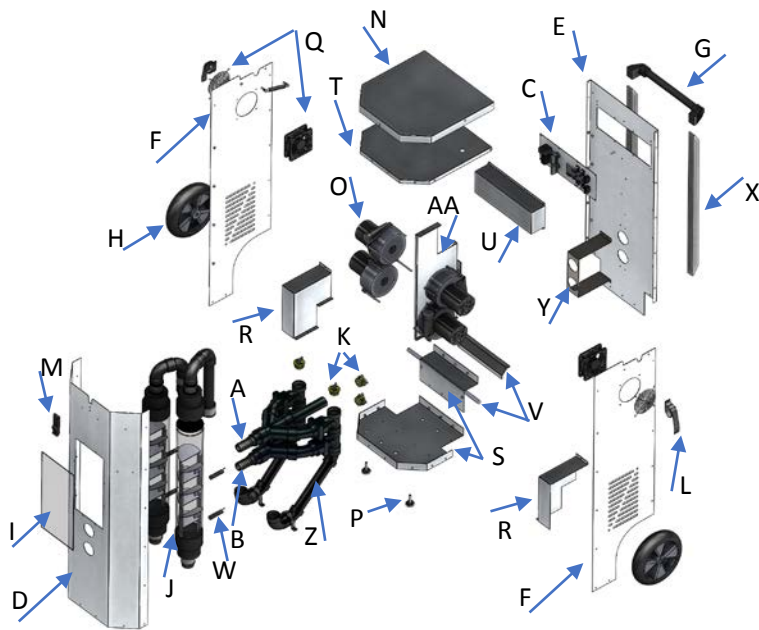
8. Maintenance

- Before each use inspect electrical cords for any damages, use certified electrician at all times to make any repairs;
- After each use of the CLEARs machine it is recommended to run clean media through the unit for 2-5 minutes to flush minor debris;
- Clean the two fan guards for proper air flow for cooling;
- Remove clean out ports and use the provided rod to doubly make sure there are no hidden debris in plumbing;
- VAC motors replacement is 4000 hours; Replacing brushes will extend the life of the motors to 8000 hours at less than 1/4th of the cost;
- Maintain appearance of machine by wiping down all external surfaces with a damp cloth;
- Monthly lubrication of the wheels.

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9. Exploded View



- V. Wheel Axle & cover bracket – P/N 88550-101, -130
- W. Level Sensors – P/N 54550-000
- X. Skid Bar – P/N 80550-150
- Y. Intake/Exhaust Bracket – P/N 80550-120
- Z. Suction & Purge plumbing Assy. – P/N 92555-105
- AA. VAC Motor Mounting Plate – P/N 80550-080

10. Parts List

The following is a parts list of essential items as individual parts or assemblies;

- A. Suction hose connection 1 ½" – P/N 92550-101
- B. Purge hose connection 1 ½" – P/N 92550-102
- C. Control Panel – P/N 92554-000
- D. Metal cover Front – P/N 80550-030
- E. Metal cover back – P/N 80550-040
- F. Metal cover left & right sides – P/N 80550-060, -050
- G. Handle – P/N 07550-000
- H. Wheels 10" – P/N 88550-110
- I. Window – P/N 08550-000
- J. Media Chamber left and right – P/N 92552-102, -101
- K. Clean Out plug – P/N 82550-000
- L. Hose Strap – P/N 11300-000
- M. Latch – P/N 05550-000
- N. Compartment Top Cover – P/N 80550-090
- O. VAC Motors – P/N 56550-001
- P. Leveling bolts – P/N 06004-000
- Q. Fan and Fan Guard – P/N 21550-000
- R. Wheel Cover left and right – P/N 80550-110, -100
- S. Bottom Plate base & bracket – P/N 80550-010, -020
- T. Power Cord Compartment Platform – P/N 80550-070
- U. Control Panel Enclosure – P/N 80550-160

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12. Warranty

Who Is Covered: This warranty extends only to the original end-user of the Hybrid Systems CLEARs media pumper, and may not be assigned or transferred.

One Year: Hybrid Systems Corporation warrants that, for one (1) year the CLEARs media pumper will operate free from any defects in materials and workmanship, or Hybrid Systems will, at its option, repair or replace the defective part(s), free of any charge. End-User Responsibilities: Warranty service must be performed by a Servicer authorized by Hybrid Systems. If the end-user is unable to locate or obtain warranty service from an authorized Servicer, he should call Hybrid Systems at the above number and ask for the Hybrid Systems Service Department, which will then arrange for covered warranty service. Warranty service will be performed during normal working hours. The end-user must present proof of purchase (lease) upon request, by use of the warranty card or other reasonable and reliable means. The end-user is responsible for normal care. This warranty does not cover any defect, malfunction, etc. resulting from misuse, abuse, lack of normal care, corrosion, freezing, tampering, modification, unauthorized or improper repair or installation, accident, acts of nature or any other cause beyond Hybrid Systems' reasonable control.

Limitation and Exclusions: If any Hybrid Systems CLEARs Vacuum Motor part is repaired or replaced, the new part shall be warranted for only the remainder of the original warranty period applicable thereto (but all warranty periods will be extended by the period of time, if any, that the Hybrid Systems CLEARs Vacuum Motor is out of service while awaiting covered warranty service). UPON THE EXPIRATION OF THE WRITTEN WARRANTY APPLICABLE TO THE Hybrid Systems CLEARs VACUUM PUMPER OR ANY PART THEREOF, ALL OTHER WARRANTIES IMPLIED BY LAW,

INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL ALSO EXPIRE. ALL WARRANTIES MADE BY Hybrid Systems ARE SET FORTH HEREIN, AND NO CLAIM MAY BE MADE AGAINST Hybrid Systems BASED ON ANY ORAL WARRANTY. IN NO EVENT SHALL Hybrid Systems, IN CONNECTION WITH THE SALE, INSTALLATION, USE, REPAIR OR REPLACEMENT OF ANY Hybrid Systems CLEARs VACUUM PUMPER OR PART THEREOF BE LIABLE UNDER ANY LEGAL THEORY FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES INCLUDING WITHOUT LIMITATION WATER DAMAGE (THE END-USER SHOULD TAKE PRECAUTIONS AGAINST SAME), LOST PROFITS, DELAY, OR LOSS OF USE OR DAMAGE TO ANY REAL OR PERSONAL PROPERTY. Some states do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages, so one or both of these limitation may not apply to you.

Legal Rights: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

!!! WARNINGS and CAUTIONS !!!

1. **Do Not Use** CLEARs to **Extract flammable liquids** such as gasoline, solvents and such liquids or use in areas where such liquids may be present.
2. Store Indoors and keep from freezing.
3. Always turn off CLEARs before unplugging.
4. Improper grounding or failure to use GFCI outlets can result in electrical shock, electrocution or even death.
5. Do Not force or alter power plug in any way to operate machine.
6. Do not plug unit in if plug appears to be tampered with or is damaged in any way.
7. If you have any questions or are in doubt as to the integrity of the power source or receptacle consult with a licensed electrician prior to plugging the unit in or attempting to use.