



POWERFUL LEADER OF DIAMOND TOOLS

OPERATION MANUAL
MAX AGGRESSIVE
DEHYDRATOR (MAXDM089)



MAX AGGRESSIVE
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**MODEL APPLICATION
of this DEHYDRATOR:**

MAXDM089

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General Safety Operation Manual Instructions Summary:

It is essential to review carefully and understand this Operation Manual before operating the equipment. Failing to read and understand this entire manual may cause injury or death to personnel, or damage to the equipment and the products that are being handled by this equipment if not properly followed.

This safety summary includes general safety precautions and instructions that must be understood and applied before, during, and after operations, as well as maintenance to ensure personnel safety and protection of this equipment. Prior to performing any task, the contents included in this manual should be reviewed and fully understood.

This manual explains some essential operating or maintenance procedures, practices, conditions, statements, etc. that if those are not strictly followed, it could result in injury, or death by chance in the worst case. And there might be some chances of damaging or destructing materials or machine component itself. In order to avoid or eradicate such worst coincidences and happenings, it is essential to read through this manual and follow accordingly. It is also important to comprehend the functions of this equipment thoroughly for your safe and efficient operations.

For any question, please contact your local dealer or distributor.

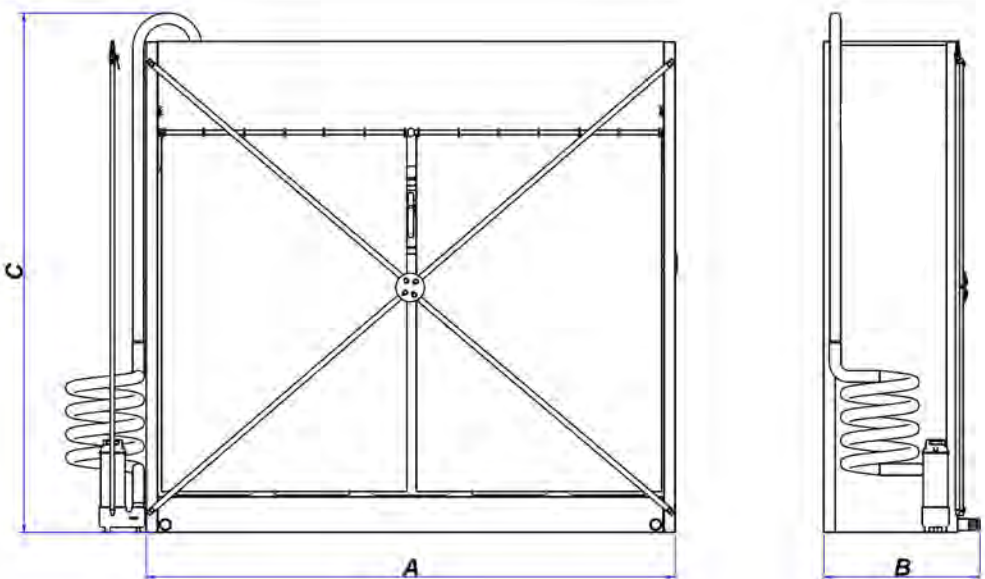
I. EQUIPMENT GENERAL INFORMATION:

- Dehydrator (MAXDM089) is designed to separate sludge from water, and purify rock debris when polishing, cutting, etc
- The dehydrator is an economical solution in the production line for environmental protection.
- The dehydrator is composed of detachable components for easy disassembly and reassembly.

II. TECHNICAL SPECIFICATIONS:

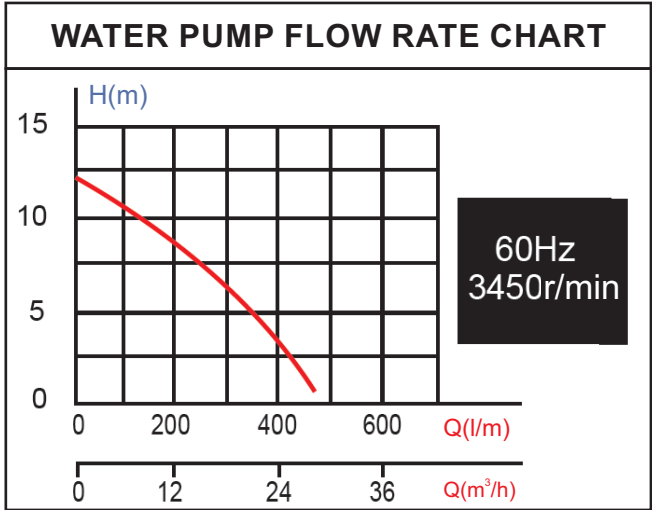
- The dehydrator consists of four basic components: pump, mud holding tank, clean water tray, filter bags.

1. Dimensions:



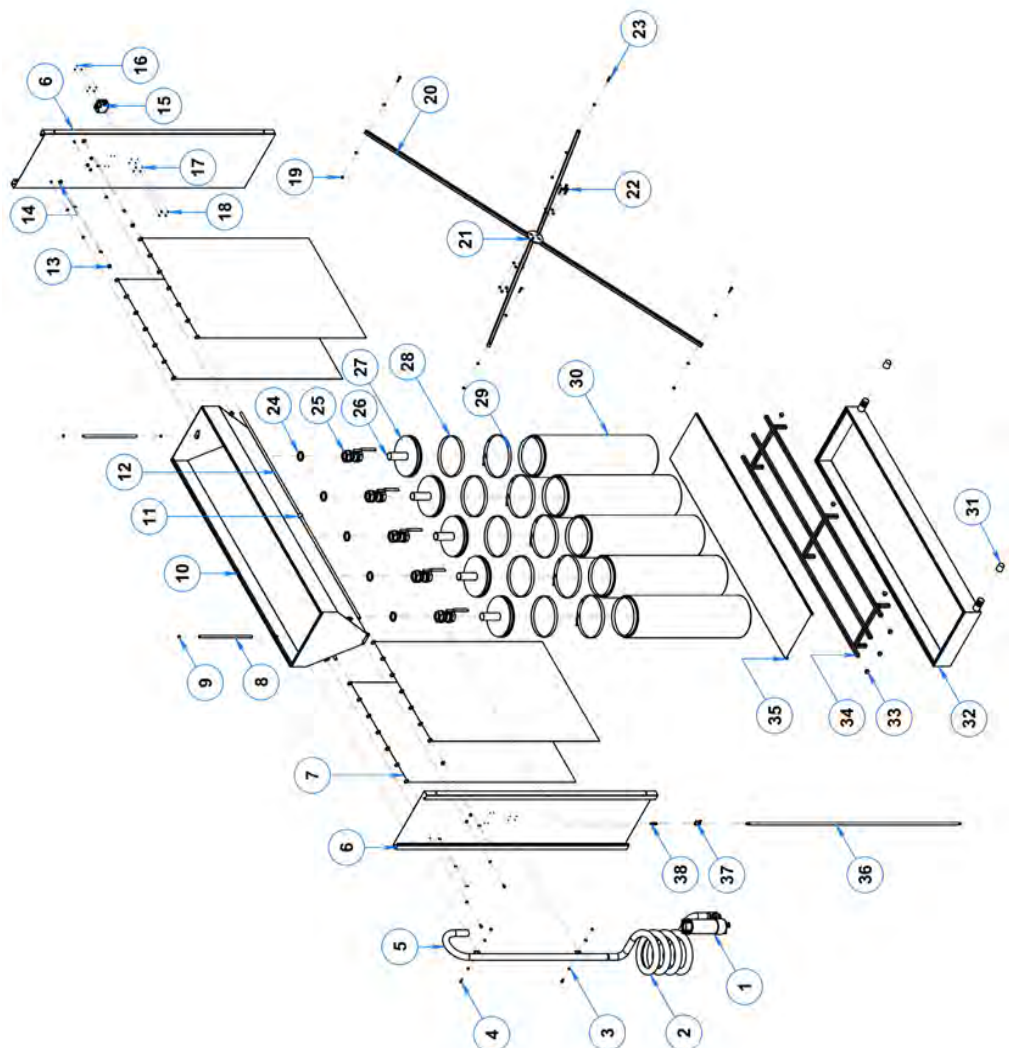
Length (A) inches (mm)	Width (B) inches (mm)	Height (C) inches (mm)
93 ⁷ / ₁₆ (2373)	27 ⁹ / ₁₆ (700)	91 ³ / ₄ (2330)

Bag Dimension (width x height)	$\varnothing 13 \frac{3}{4}'' \times 47 \frac{1}{4}''$ ($\varnothing 350 \times 1200$ mm)
Filter Capacity (25% sludge in the water)	$3 \text{ m}^3 / 1 \text{ hour}$



H: height
Q: volumetric flow rate
m: meter
l/m: liter/min
m³/h: cubic meter/hour
rpm: round/min

2. Spare Part List:



SPARE PARTS LIST

DESCRIPTION	PART NUMBER	QTY.
Submersible pump motor	MAXDN089-01	1
Pipe coil	MAXDM089-02	1
Washer ø10	MAXDM089-03	36
Bolt M10 x 20	MAXDM089-04	10
Water pipe	MAXDM089-05	1
Side panel	MAXDM089-06	2
Curtain	MAXDM089-07	4
Pipe of float	MAXDM089-08	2
Rubber cap 1	MAXDM089-09	4
Tank 1	MAXDM089-10	1
Ring	MAXDM089-11	2
Pipe of curtain	MAXDM089-12	2
Outside cover	MAXDM089-13	4
Inner cover	MAXDM089-14	4
Switch	MAXDM089-15	1
Nut M4	MAXDM089-16	12
Washer ø4	MAXDM089-17	24
Screw M4 x 12	MAXDM089-18	12
Nut M10	MAXDM089-19	18

DESCRIPTION	PART NUMBER	QTY.
Support bar	MAXDM089-20	4
Connector, support bar	MAXDM089-21	1
Bolt M10 x 50	MAXDM089-22	4
Bolt M10 x 40	MAXDM089-23	4
Washer	MAXDM089-24	5
Valve	MAXDM089-25	5
Pipe of disk	MAXDM089-26	5
Disk	MAXDM089-27	5
Rubber belt	MAXDM089-28	5
Stainless steel belt	MAXDM089-29	5
Filter bag	MAXDM089-30	5
Rubber cap 2	MAXDM089-31	2
Tank 2	MAXDM089-32	1
Rubber cap 3	MAXDM089-33	26
Support frame	MAXDM089-34	1
Cover of tank 2	MAXDM089-35	1
Air pipe	MAXDM089-36	1
Lock air	MAXDM089-37	1
Pipe connection	MAXDM089-38	1

III. SAFETY INSTRUCTIONS:

1. General Warnings, Cautions and Notes:

a. Before Operations:

- Check all electrical equipment functions are in good operative conditions such as pump, switch, electric wire and the whole electrical system to ensure the circuit operates normally and the electrical shock cannot occur.
- The water supply system such as pipe, on/off valves, pipe coil, etc. should be carefully checked to determine, if it would operate safely and properly to perform its intended functions. If they are damaged or leaked, the operator must repair or replace them at once.
- Check filter bags to ensure they are not torn or punctured.

b. During Operations:

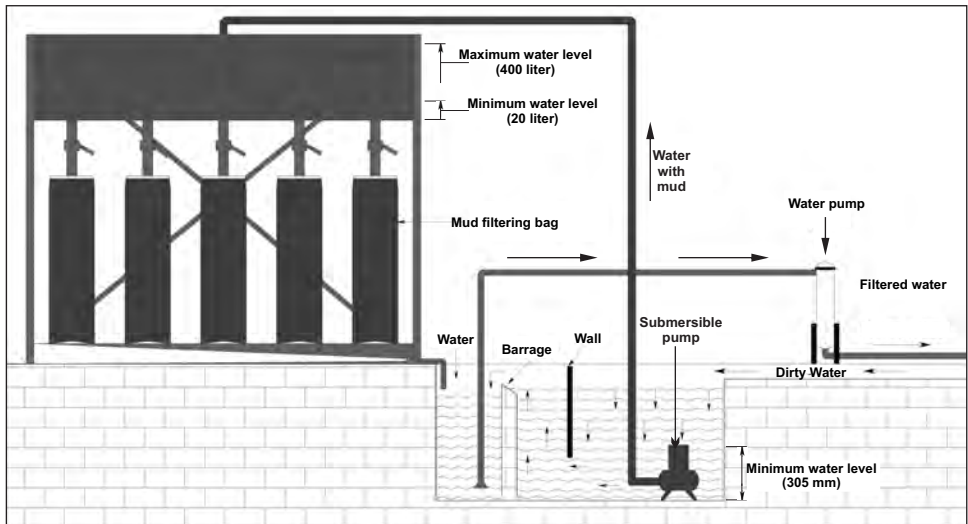
- Regularly check the status of the filtered water. If the water is still mixed with soil, stone chip, and other substances, the operator should recheck all filter bags.
- The filter bag is full and needs changed when it contains more than 3/4 full of solid slurries.

c. After Operations:

- Clean the equipment thoroughly after each use.
- Store in a well-ventilated place, avoid places with high heat or humidity.

2. Device usage:

a. Schematic diagram of the Dehydrator's operation mechanism:



Operating principle: When the machine is started, the submersible pump motor draws in water mixed with sludge and pumps it into the unfiltered water tank. The unfiltered water then flows through the pipelines into the sludge filter bag system. Sludge is retained inside the filter bags, while the filtered water flows down into the water tray and then drains into the clean water tank.

Note: When the sludge filter bag becomes full or damaged, close the valve on the filter plate, remove the used filter bag, and replace it with a new one.

b. How to assemble the dehydrator:

Step 1: Place the mud holding tank upside down, and then attach two side panels with smooth side facing in (Figure 1)

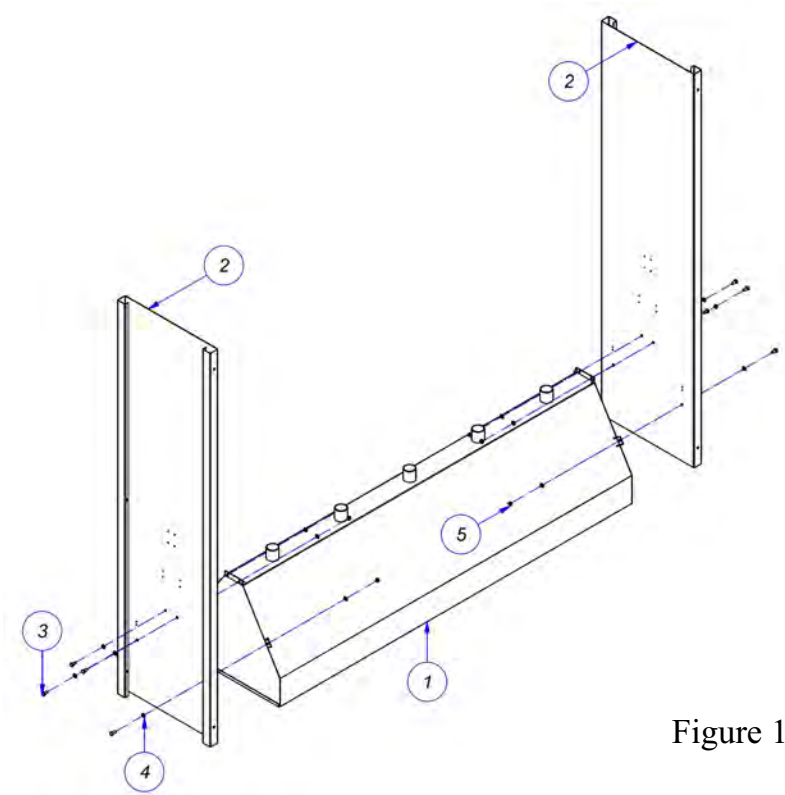


Figure 1

SPARE PART LIST		
NO.	DESCRIPTION	QTY.
1	Mud holding tank	1
2	Side panel, left/right	2
3	Bolt M10x20	8
4	Washer ø10	16
5	Nut M10	6

Step 2: Connect support bars at the corner to the side panels (Figure 2).

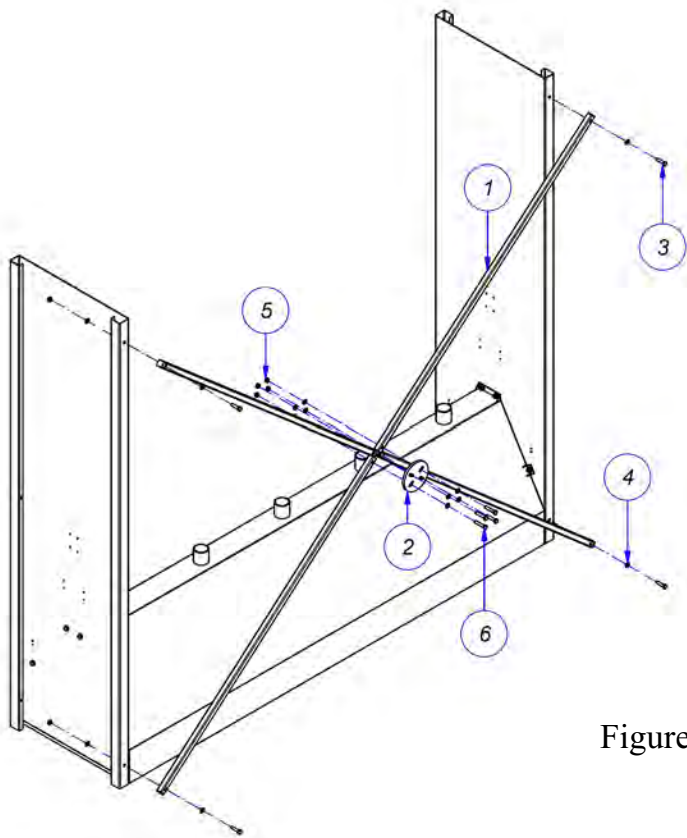


Figure 2

SPARE PART LIST		
NO.	DESCRIPTION	QTY.
1	Support bar	4
2	Connector	1
3	Bolt M10 x 40	4
4	Washer ø10	16
5	Nut M10	8
6	Bolt M10 x 50	4

Step 3: Turn the dehydrator right side up, and then connect the water pipe to the side panel (Figure 3). Place the dehydrator into desired position.

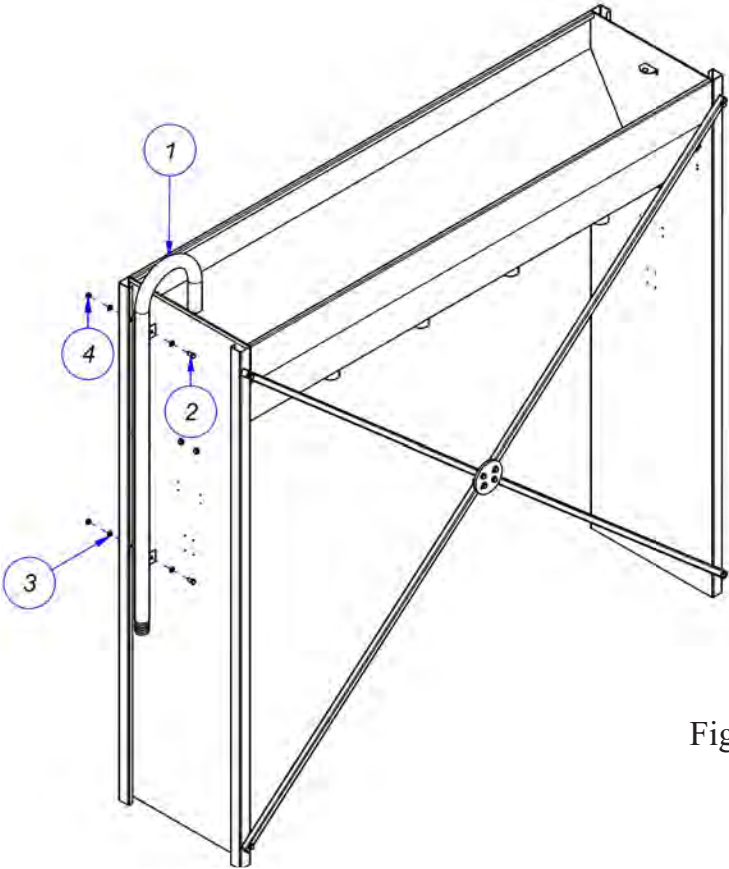


Figure 3

SPARE PART LIST		
NO.	DESCRIPTION	QTY.
1	Water pipe	1
2	Bolt M10x20	2
3	Washer ø10	4
4	Nut M10	2

Step 4: Slide the water tray into the dehydrator (Figure 4)
Next, carry out the installation of electrical equipment (refer to **III.2.c**).

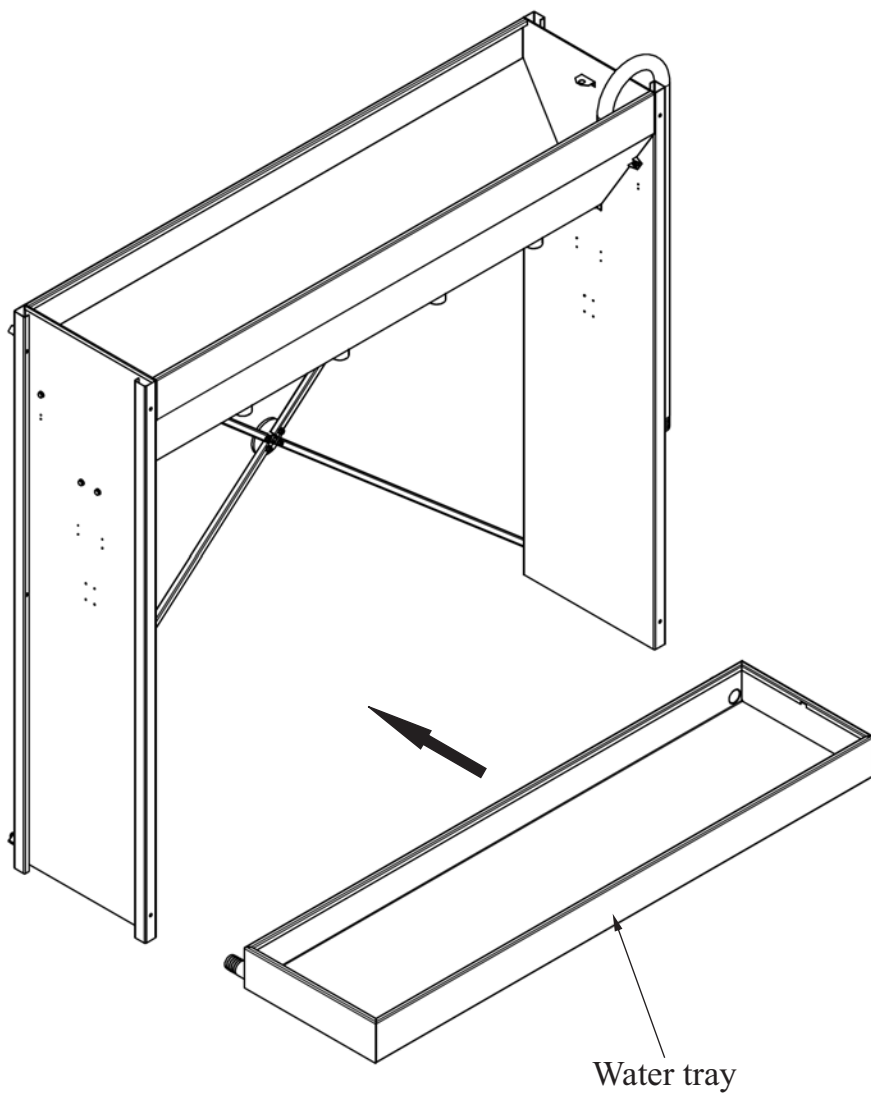


Figure 4

Step 5: Attach the disk first and fit the filter bag into the disk. Then, mount the rods on both sides of the dehydrator and hang the curtains on (Figure 5).

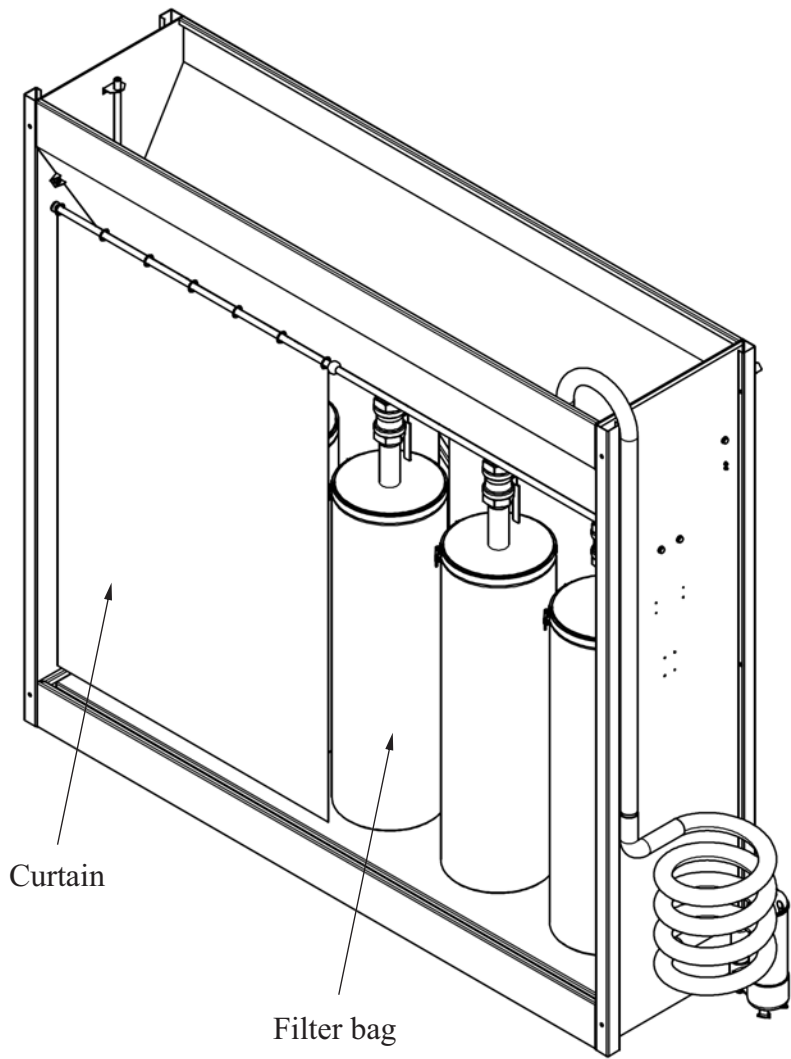


Figure 5

c. How to assemble and connect the electrical equipment:

Step 1: Connect the electric circuit as the diagram (Figure 6).

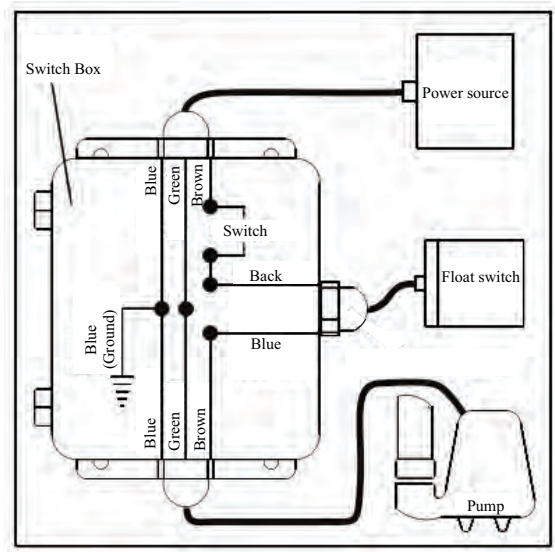


Figure 6

Caution: Do NOT connect the power source before completing the installation of the Dehydrator.

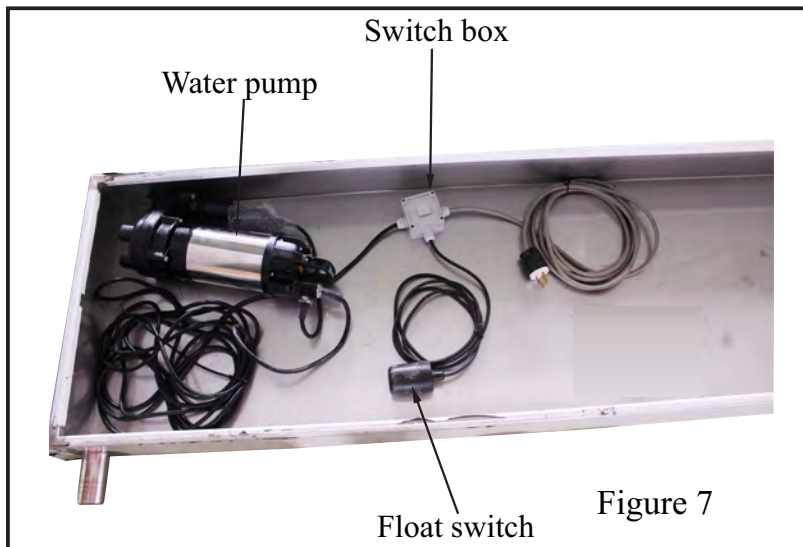


Figure 7

Step 2: Open the switch box and attach it on the side panel (Figure 8).

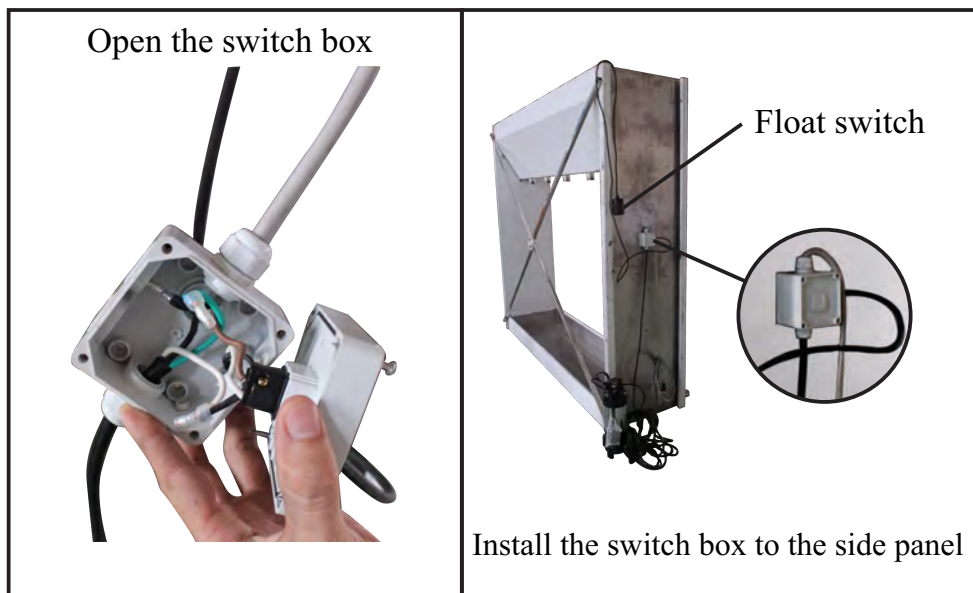


Figure 8

Step 3: Put the float switch into the mud holding tank to touch the bottom, and fit it into the pipe of float (Figure 9).

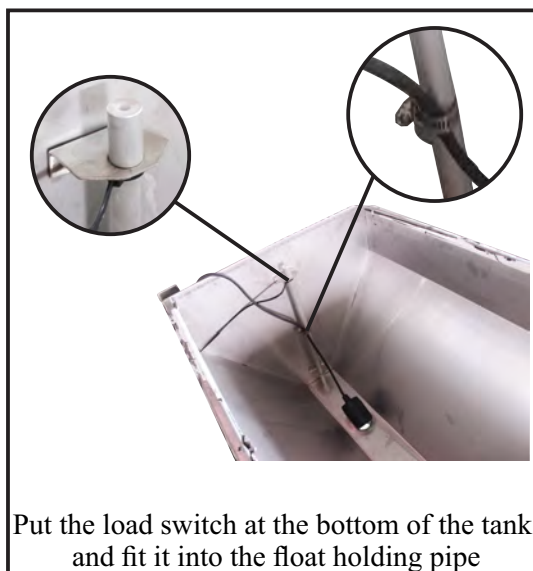


Figure 9

d. Replacement of Filter bags:

When filter bags are torn or punctured or the bag is more than 3/4 full of solid slurries, the operator need to immediately replace with the other bags.

- Before replacing the new filter bag, the operator must turn the valve off (Figure 10).
- Reassemble the filter bag as the following.
 - + First, remove the stainless steel belt;
 - + Then, take the rubber belt out;
 - + Final, get the filter bag out of the dehydrator.
- To attach the new filter bag, do all steps in proper order as below.

Step 1: Insert the bag into the filter disk from the bottom up. The operator must pay attention to place the bag a bit higher than the disk (Figure 11).

Step 2: Fit the rubber belt into the slit of the disk, then fold the above margin of the bag to cover the rubber belt (Figure 12).

Step 3: Lock the bag firmly by the stainless steel belt (Figure 13).

Turn the lock hook to tighten or loosen the stainless steel belt.

The operator must ensure the tighten condition of the stainless steel belt is secure and firm to the bag.

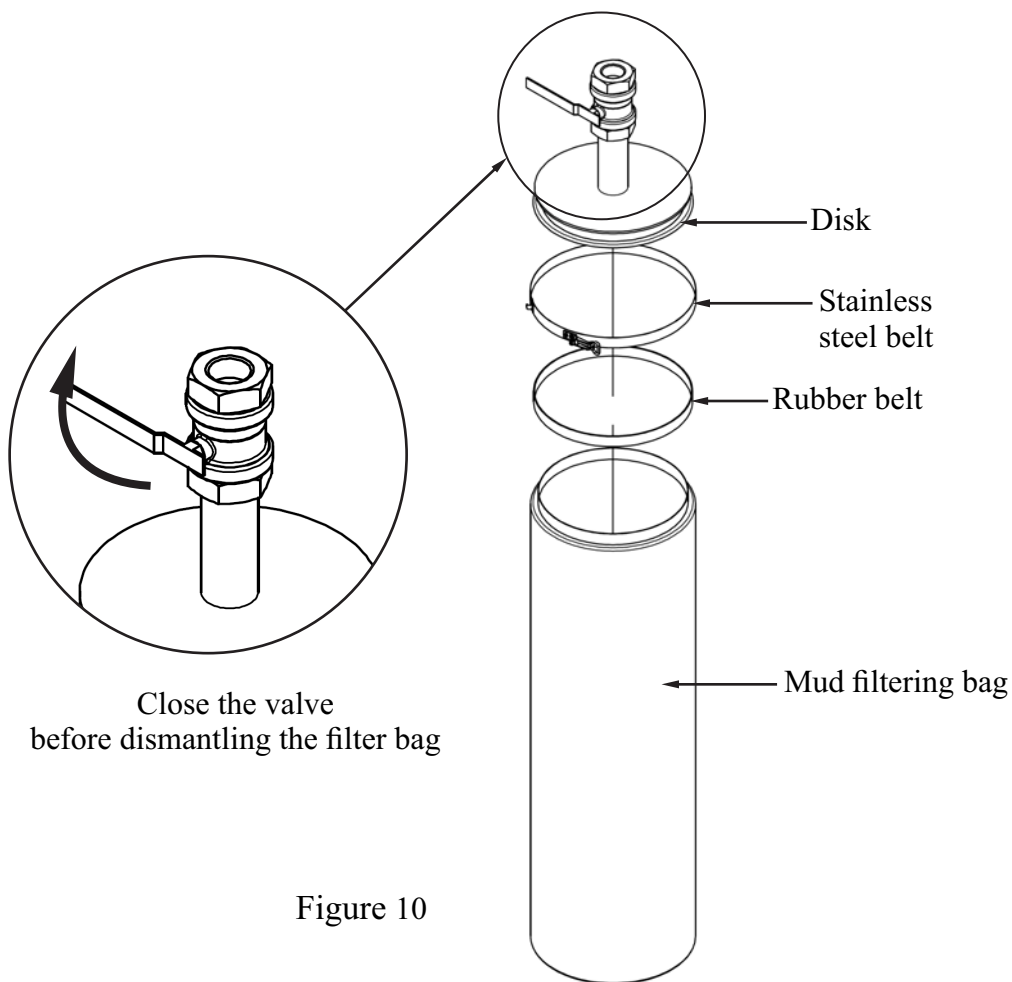


Figure 10

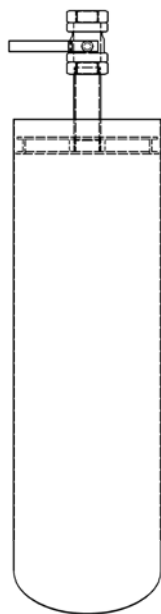


Figure 11

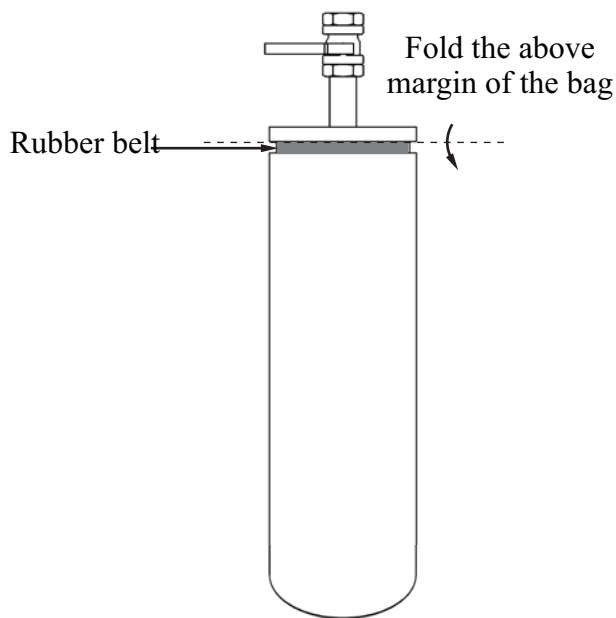


Figure 12

Stainless
steel belt



Lock hook

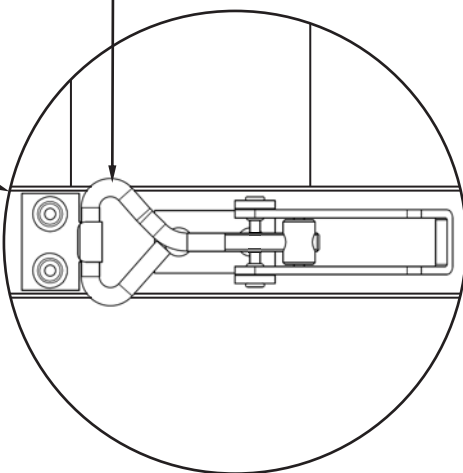


Figure 13

IV. APPENDIX:

Caution: *It is not recommended to retain the valve lever in half way, since some chances of clogging (Figure 14).*

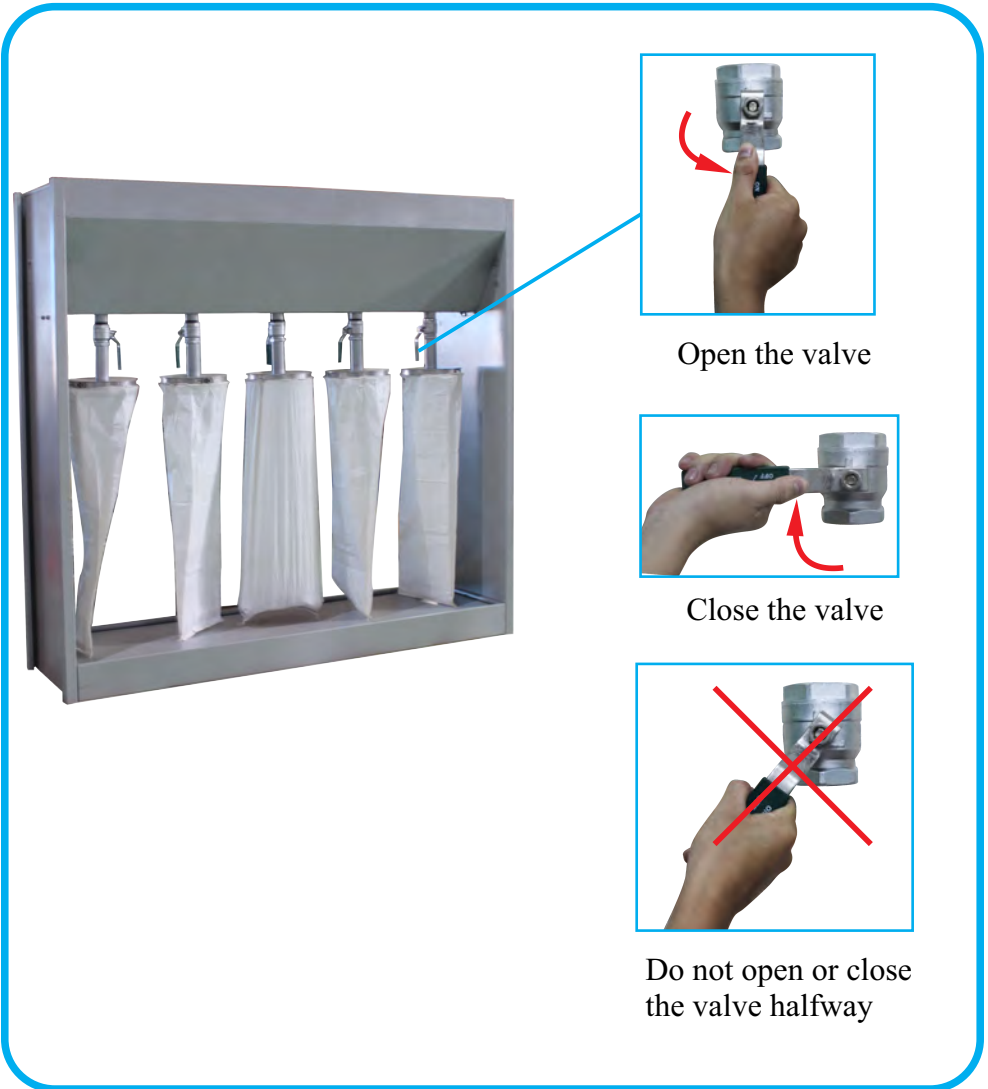


Figure 14

V. INSPECTION AND MAINTENANCE:

- Periodically, schedule equipment maintenance.
- Check the equipment regularly, not limited to check switch box and float switch to ensure the equipment is in good operating conditions. If they do not work, replace them immediately.
- Always keep necessary spare parts on hand for immediate maintenance or repair purposes.
- Checking the tighten conditions of all bolts and nuts
- Operator needs clean the water tray and the mud holding tank regularly.
- The filter bags should be stored for any replacement.
- Store this equipment in a well-ventilated place (dry and cool), avoid places with high heat and/or humidity.

VI. WARRANTY POLICY:

At the time of delivery, it is necessary to inspect the **Dehydrator (MAXDM089)** to make sure that it has not been damaged during shipment. The product at the time of dispatch is warranted to be free of defects in material or workmanship.

Claims for errors, shortages, defects, or nonconformities ascertainable upon inspection must be made in writing within eight business days from the date of product delivery. Claims not made as provided above and within the applicable time period will be barred and no other claims will be considered.

We provide a one (1) year warranty on the **Dehydrator (MAXDM089)** from the date of purchase.

During warranty period, we will provide the replacement parts at no charge (Please note: shipping and handling fees may apply).

Warranty coverage is void if:

- The operator failed to comply with the instructions in the manual.
- The specifications are not followed.
- Damage is due to inadequate maintenance and inspections.
- Damage is due to improper storage and/or usage.
- Modification and repairs made to the equipment were performed by the user/operator without the manufacture's knowledge and agreement.
- Aftermarket or none genuine spare parts were used for repair installation.
- Modification and repair installations were conducted by uncertified individual.

WARRANTY CERTIFICATE

You are kindly requested to read the following carefully.

PERIOD

The warranty starts from the date of purchase (date on distributors invoice).

Warranty is valid for a period of twelve (12) months.

WARRANTY

This warranty is limited only to provide replacements of the parts recognized by the Company as defective (excluding worn-outs and consumables.)

The Company is not responsible for any misuse or abuse of the product after purchase and/or caused by negligence from the content of this manual.

In an event of equipment failure to operate the machine and/or requiring technical support, operator/user is requested to contact with our Customer Support Department. Our member will inform you (operator/user) of the appropriate procedures accordingly and how to file warranty claim and advise you to your nearest approved service center.

EXCLUSIONS

Warranty does not apply for damages or failures caused by:

Misuses, errors in transportation, incorrect handling or failing to maintain the equipment appropriately.

Use of non-genuine parts/accessories, or of incorrect specifications.

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