



# **ABACO MACHINES**

## **OPERATION MANUAL**

# **ABACO DEHYDRATOR**

## **(ADE089)**



### **ABACO MACHINES (USA)**

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**GENERAL**

A dehydration system for fast collection and trapping of the abrasive mud produced by the machining and finishing of marble, granite and other stone.

The dehydrator is an economical, one step method in separating and de-watering sludges and slurries. The dehydrator consists of four basic components: pump, mud holding tank, clean water tray and filter bags. The dehydrator has no moving parts, requires minimal labour, is very economical to use and because it is made of stainless steel has extremely low maintenance.

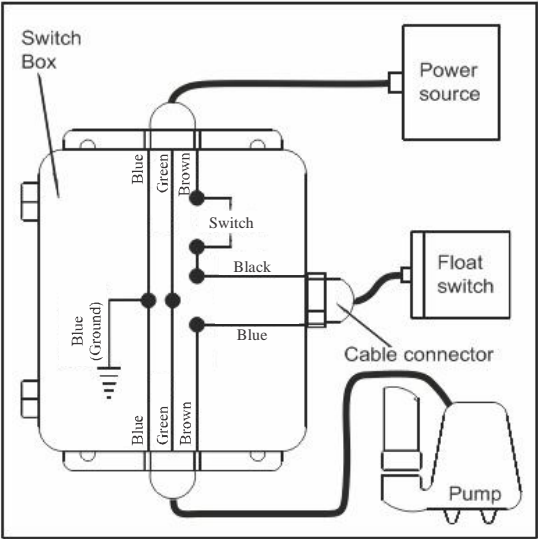
<b>Length In (mm)</b>	95 <sup>13</sup> / <sub>16</sub> (2433)	<b>Net Weight lbs (kg)</b>	617 (280)
<b>Width In (mm)</b>	27 <sup>9</sup> / <sub>16</sub> (700)	<b>Filter Capacity 25% sludge in the water</b>	3m <sup>3</sup> / 1 hour
<b>Height In (mm)</b>	91 <sup>3</sup> / <sub>4</sub> (2330)	<b>Float Switch</b>	Automatic
		<b>Bag Dimension</b>	13 <sup>3</sup> / <sub>4</sub> x 47 <sup>1</sup> / <sub>4</sub> " (350 x 1200 mm)
		<b>Valves</b>	2 In BSP Brass Nickel Plated

**CONNECTING THE FLOAT SWITCH AND THE SUBMERSIBLE PUMP**

Purpose : To control the water level inside the mud holding tank.

- To avoid serious electrical shock, turn off power source before installing or adjusting this switch.
- Do not stand on a wet or damp surface during installation.
- This product must be installed in accordance with national and local codes.

FIGURE E.



## ***OPERATION MANUAL***

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### **FILTER BAGS ( Part #: ADEFB01)**

What to expect with the new filter bags: within the first 20 minutes of operation the bag will not catch all mud and slurries.

How to change the filter bags:

To determine when the bag is full and needs changing. Bag should be 3/4 full of solid slurries

- a. When bag is full, turn water value off. Let bag sit for 2-3 days to drain water.
- b. Undo the stainless steel strap holding the bag.
- c. Remove the rubber band from the bag holder.
- d. Secure bag and dispose accordingly.
- e. Replace the rubber band on top of the bag holder.
- f. Attach a new filter bag to the bag holder, then place the rubber band on the outside of the bag to hold the filter bag in place.
- g. Use stainless steel strap to secure the bag.

### **AIR STICK**

The purpose of the air stick is to move the settled mud and slurries around in the pit to assist the submersible pump work more efficiently. It is suggested the air stick be used a few times per day when the pump is in operation.

- a. Attach the air stick to an air compressor (min. required is 8-10 cfm).
- b. Place the air stick into the pit to stir the settled slurries.

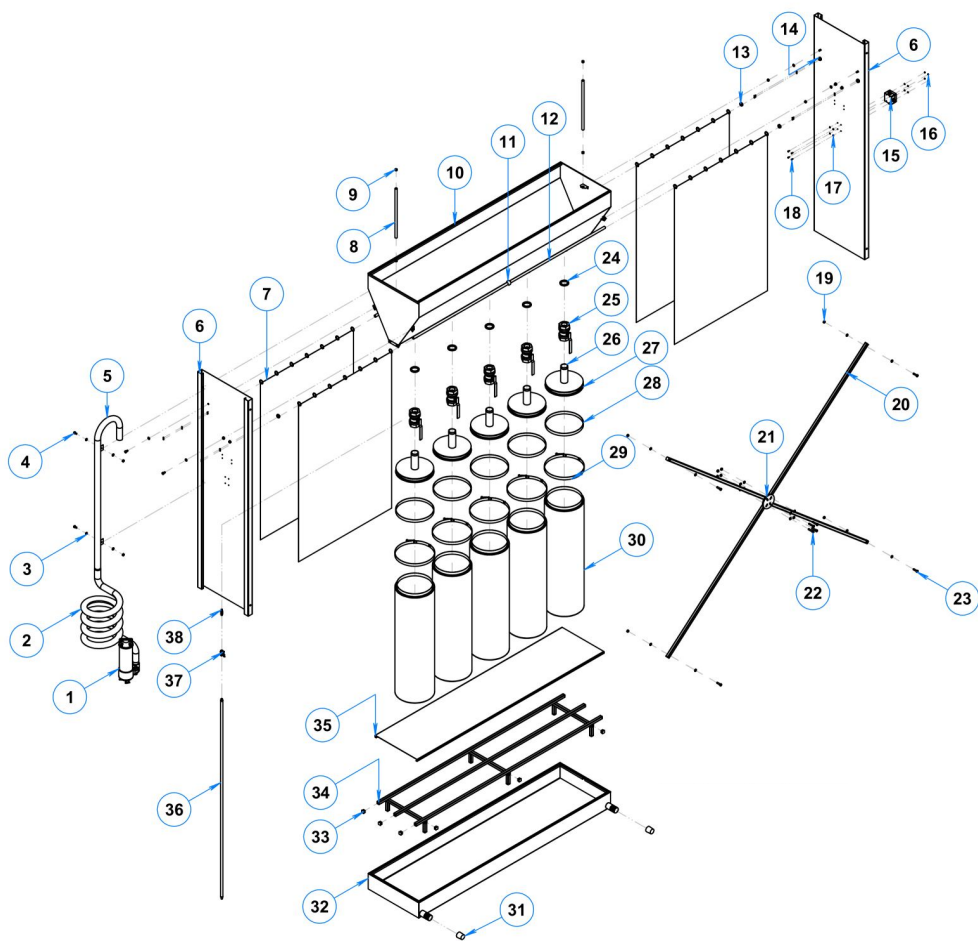
### **MAINTENANCE**

The Dehydrator has extremely low maintenance requirements.

- a. Periodically hose down the water tray to clean out left over slurries.
- b. Check periodically the float switch clamp is still attached, if it requires replacing, buy a hose clamp and secure the float switch according to water level.
- c. Wipe down dehydrator as deemed necessary.

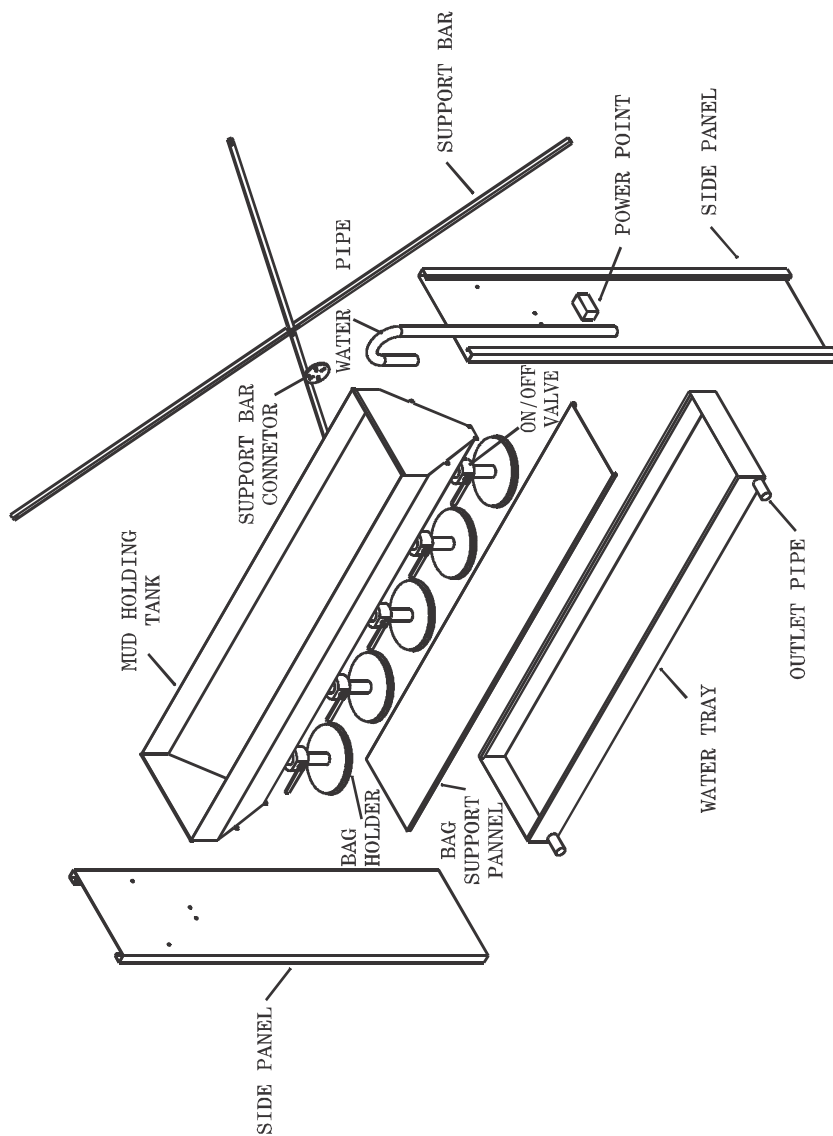


ASSEMBLY DRAWING



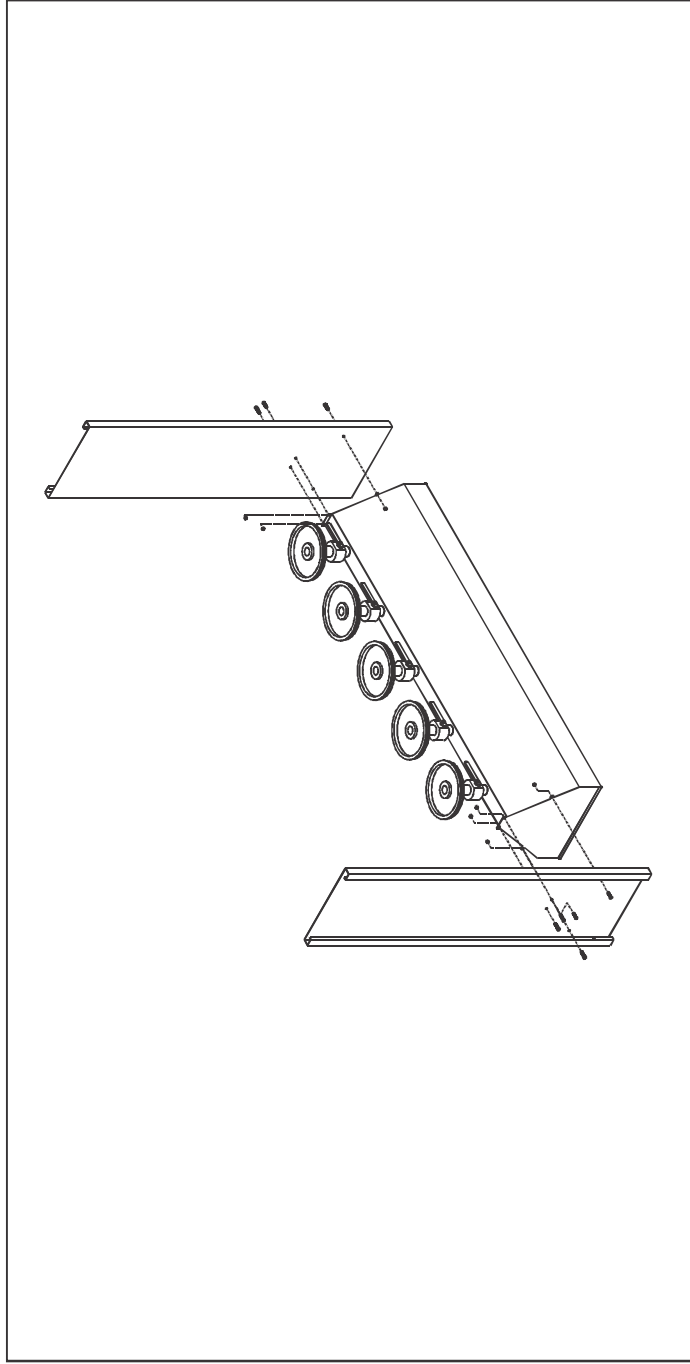
MAIN LIST			
POST	CODE	DESCRIPTION	QTY
01	ADE089-01	Water pump	1
02	ADE089-02	Pipe coil	1
03	ADE089-03	Washer Ø10xØ20x1	36
04	ADE089-04	Bolt M10x20	10
05	ADE089-05	Water pipe	1
06	ADE089-06	Side panel	2
07	ADE089-07	Curtain	
08	ADE089-08	Pipe of float	2
09	ADE089-09	Rubber	4
10	ADE089-10	Tank 1	1
11	ADE089-11	Ring	2
12	ADE089-12	Pipe of curtain	2
13	ADE089-13	Outside cover	4
14	ADE089-14	Inner cover	4
15	ADE089-15	Switch	1
16	ADE089-16	Nut M4	12
17	ADE089-17	Washer Ø4xØ8x0.5	24
18	ADE089-18	Screw M4x12	12
19	ADE089-19	Nut M10	18
20	ADE089-20	Support bar	4
21	ADE089-21	Support bar connector	1
22	ADE089-22	Bolt M10x50	4
23	ADE089-23	Bolt M10x40	4
24	ADE089-24	Washer	5
25	ADE089-25	Valve	5

<b>POST</b>	<b>CODE</b>	<b>DESCRIPTION</b>	<b>QTY</b>
26	ADE089-26	Pipe of disk	5
27	ADE089-27	Aluminum disk	5
28	ADE089-28	Rubber belt	5
29	ADE089-29	Inox belt	5
30	ADE089-30	Bag	5
31	ADE089-31	Rubber of tank 2	2
32	ADE089-32	Tank 2	1
33	ADE089-33	Rubber 25x25	26
34	ADE089-34	Frame	1
35	ADE089-35	Cover of tank 2	1
36	ADE089-36	Air pipe	1
37	ADE089-37	Lock air	1
38	ADE089-38	Pipe connection	1



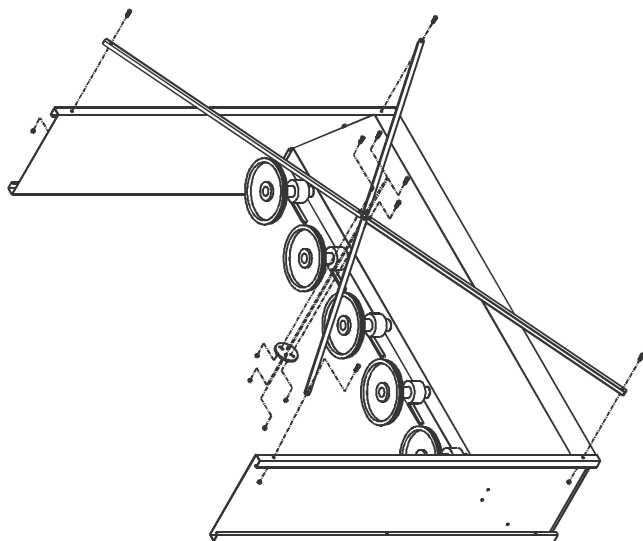
## STEP 1

- a. Before turning mud holding tank upside down, make sure you know which side the floating switch is on.
- b. Place mud holding tank upside down, as shown on diagram with on/off valve facing away from you.
- c. Attach side panels with smooth side facing in, making sure the side panel containing the ON/OFF power point match with the side of the floating switch. Also, making sure the bolt holes are facing you.
- d. Secure the panels using M10x16 stainless steel bolts.



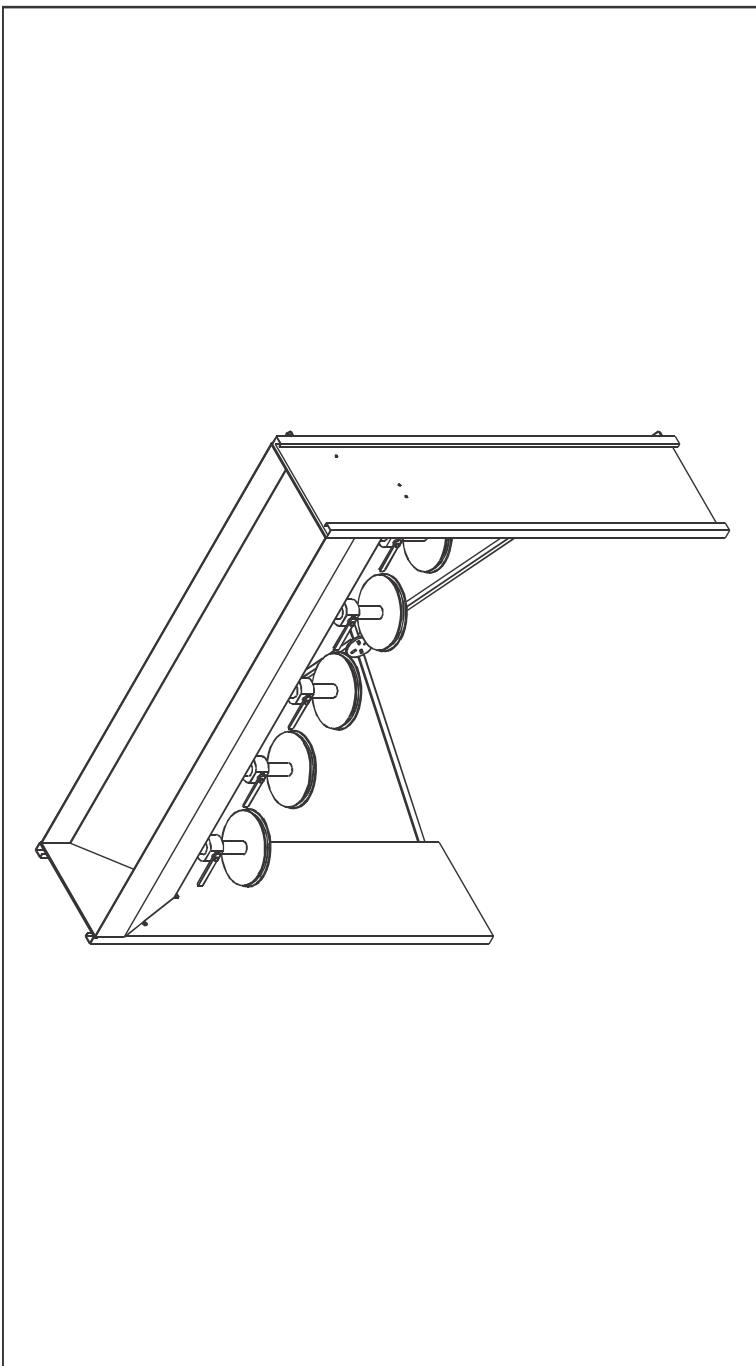
## STEP 2

- a. Use the M10x40 bolts to connect the bars at the corners to the side panels.
- b. Use the center bar connector to connect the four bars at the middle with the M10x40 bolts. Adjust bars accordingly.



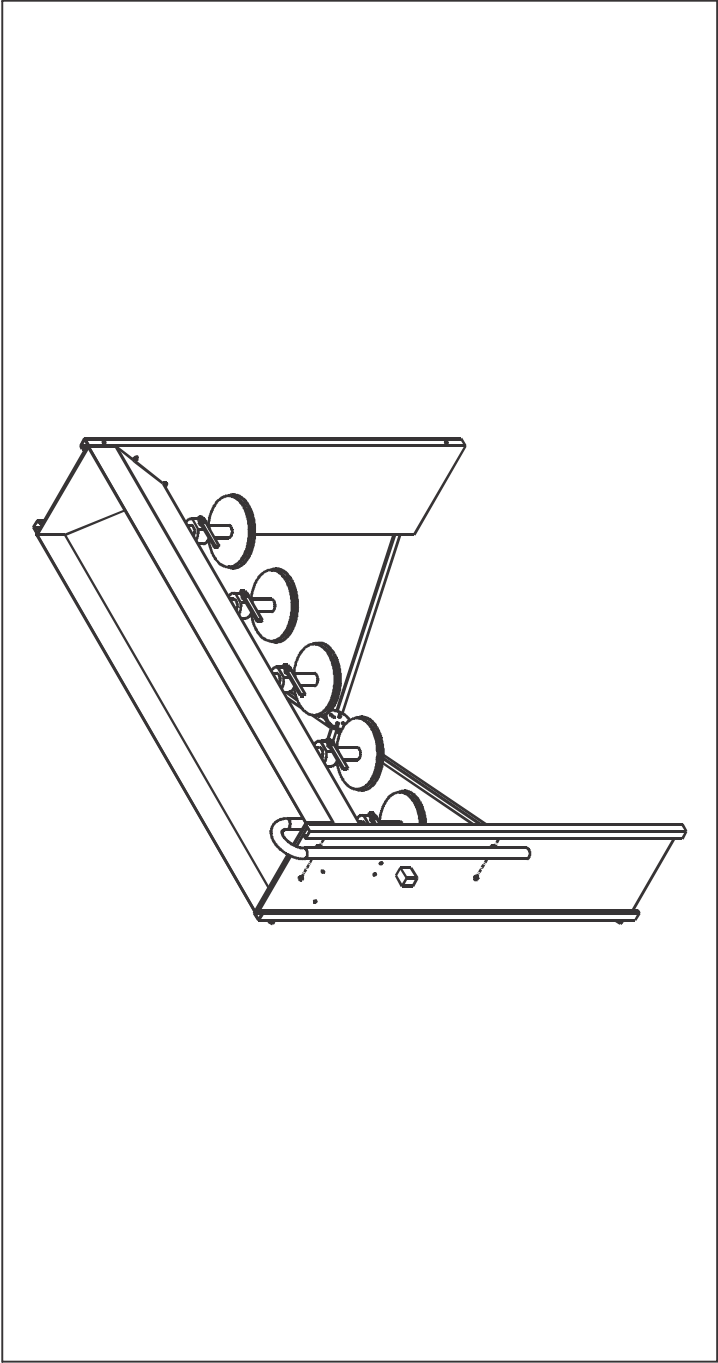
### STEP 3 : TURN OVER

- a. Turn dehydrator right side up (see diagram).
- b. Place dehydrator into desired position



#### **STEP 4 : PIPE ; POWER POINT**

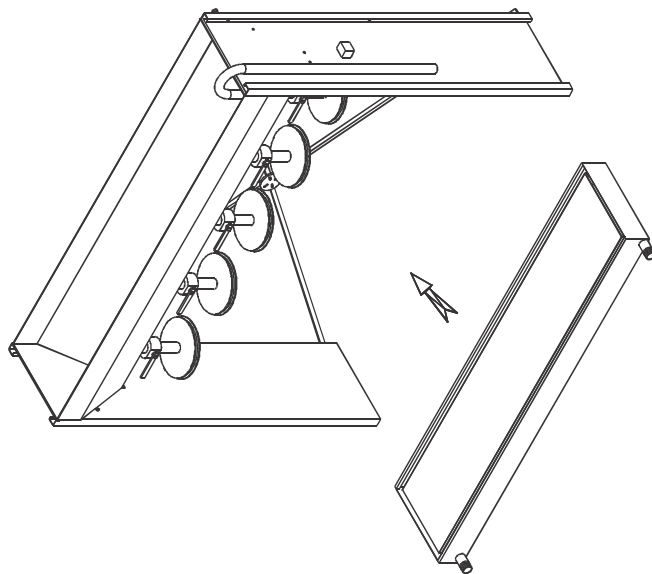
- a. Connect water pipe to side panel with the ON/OFF power point.
- b. Secure the water pipe with the M8x16 bolt.
- c. Connect water hose to water pipe and to the submersible pump. Secure using the hose clamp. Place the submersible pump into the pit you want to clean.





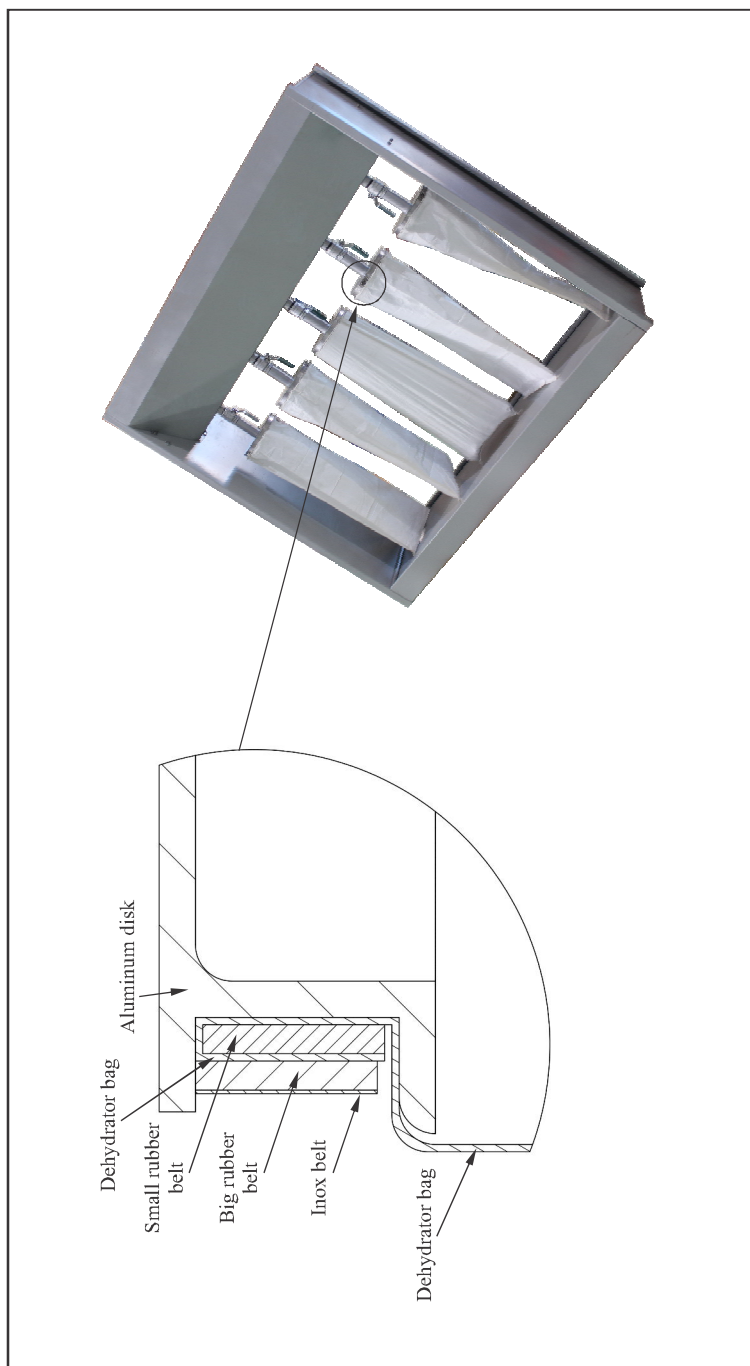
## STEP 5

- a. Slide the water tray into the dehydrator, facing the outlet pipes in the direction desired.
- b. Place the support panel on top of the water tray.
- c. Mount the rods on both sides of the dehydrator and attach the curtains, 2 on each side.

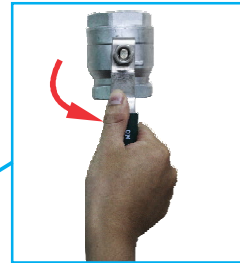


### STEP 6: Fit dehydrator bag into aluminium disk

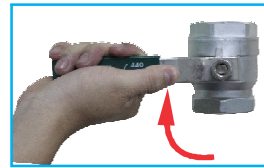
- Fit a small rubber belt into slit of the aluminium disk after fitting dehydrator bag into aluminium disk.
- Fold the above margin of dehydrator bag to fit a bigger rubber belt into the disk.
- Lock firmly inox belt.



## NOTES WHILE USING DEHYDRATOR (SLUDGE FILTER)



**Caution:**  
Open the valve



Close the valve



Cannot open or close half way

**It is not recommended to retain the valve lever in half way, since some chances of clogging.**

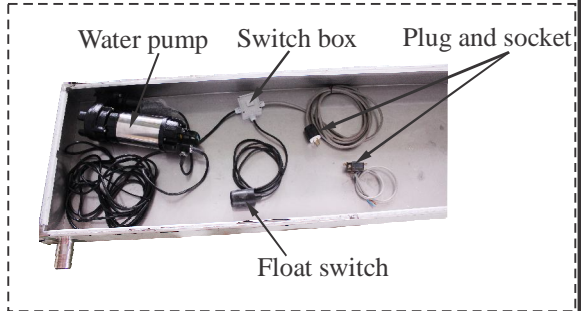
# HOW TO ASSEMBLE DEHYDRATOR (SLUDGE FILTER)

## Step 1



Assemble Main Body

## Packing Arrangement

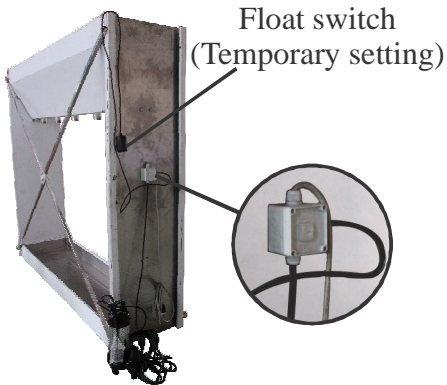


## Step 2



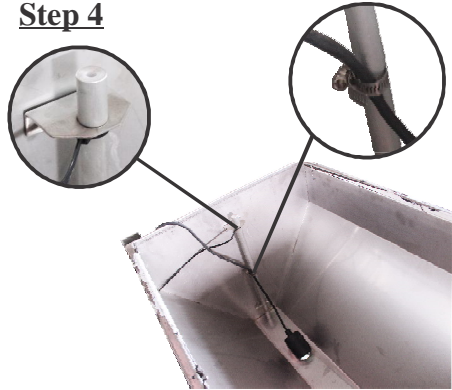
Open the switch box

### Step 3



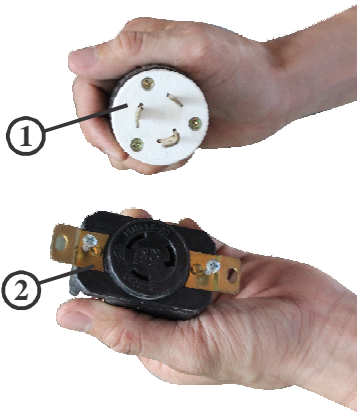
Install the switch box to the side of the Main Body

### Step 4



Put the float switch into the water tank to touch the bottom.

### Step 5



Connect three-pin plug (1) into the three-pin socket (2)



Install sludge filters accordingly

## **WARRANTY:**

At the time of delivery, it is necessary to inspect the Abaco Dehydrator to make sure that it has not been damaged during shipment. Any claims must be submitted within 8 days from the date of delivery. We provide a one (1) year warranty on the Abaco Dehydrator from the date of purchase.

During warranty period, we will provide the replacement parts at no charge (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.
- Repairs were performed by the user without our permission.
- Non-original spare parts were used.

# **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 case of failure using the device, our Customer Support Department will inform you of the appropriate methods of dealing with your claim and advise you of your nearest approved service center.

## **EXCLUSIONS**

Warranty does not apply for damages or failures caused by:

Incorrect use by users for misuse or for error in transportation, in handling or in maintenance.

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

