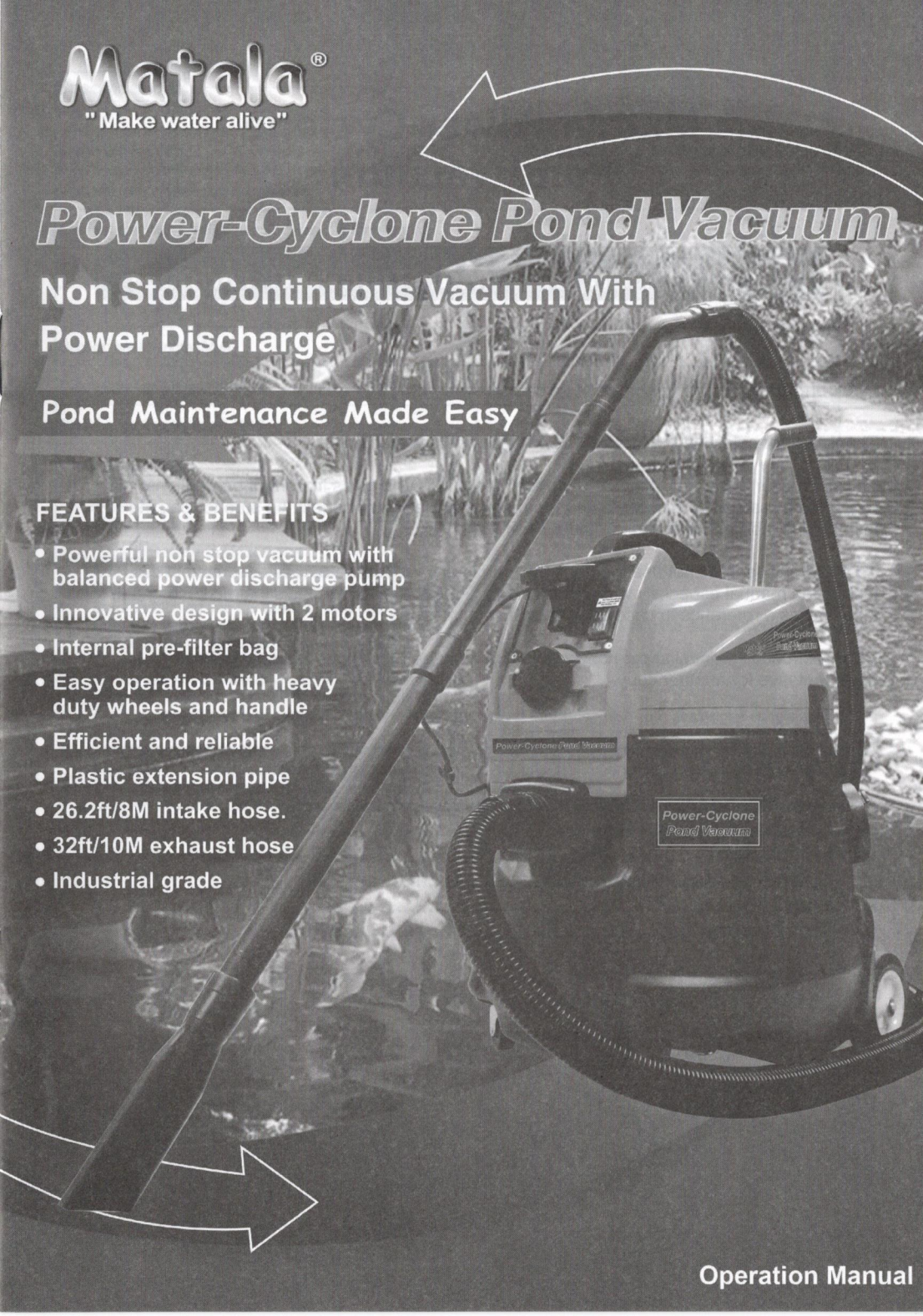
Matala®
"Make water alive"

Power-Cyclone Pond Vacuum

Non Stop Continuous Vacuum With Power Discharge

Pond Maintenance Made Easy



FEATURES & BENEFITS

- Powerful non stop vacuum with balanced power discharge pump
- Innovative design with 2 motors
- Internal pre-filter bag
- Easy operation with heavy duty wheels and handle
- Efficient and reliable
- Plastic extension pipe
- 26.2ft/8M intake hose.
- 32ft/10M exhaust hose
- Industrial grade

Operation Manual

Matala Power-Cyclone Pond Vacuum

Instruction and Maintenance Manual

Introduction

Thank you for selecting the Matala Power-Cyclone Pond Vacuum.

This instruction manual explains the product operations and gives important precautions regarding its safe use. In order to use the product to maximum benefit, be sure to read the instructions thoroughly and follow them carefully.

To avoid accident, do not use the pond vacuum in any way other than as described in this instruction manual especially when you see ⚠ WARNING. After reading this instruction manual, keep it nearby as a reference in case questions arise during use.

If this instruction manual should become lost or damaged, ask your nearest dealer or representative for another copy.

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Specifications

Rated voltage (V)	AC 110-120V or 220-240V / 50-60Hz	
Vacuum motor power consumption(W)	1200	
Exhaust discharge water pump power consumption(W)	700W for 110-120V	900W for 220-240V
Exhaust discharge water pump flow (GPH/LPH)	3700 / 14000	
Container capacity (Gal/L)	13.2 / 50	
Suction hose length (ft/M)	26.2 / 8	
Discharge hose length (ft/M)	32.8 / 10	
Plastic pipe length(4pcs) (ft/M)	6.0 / 1.8	
Cable length (ft/M)	32.2 / 9.8	
Weight (lbs/kg)	70.5 / 32	

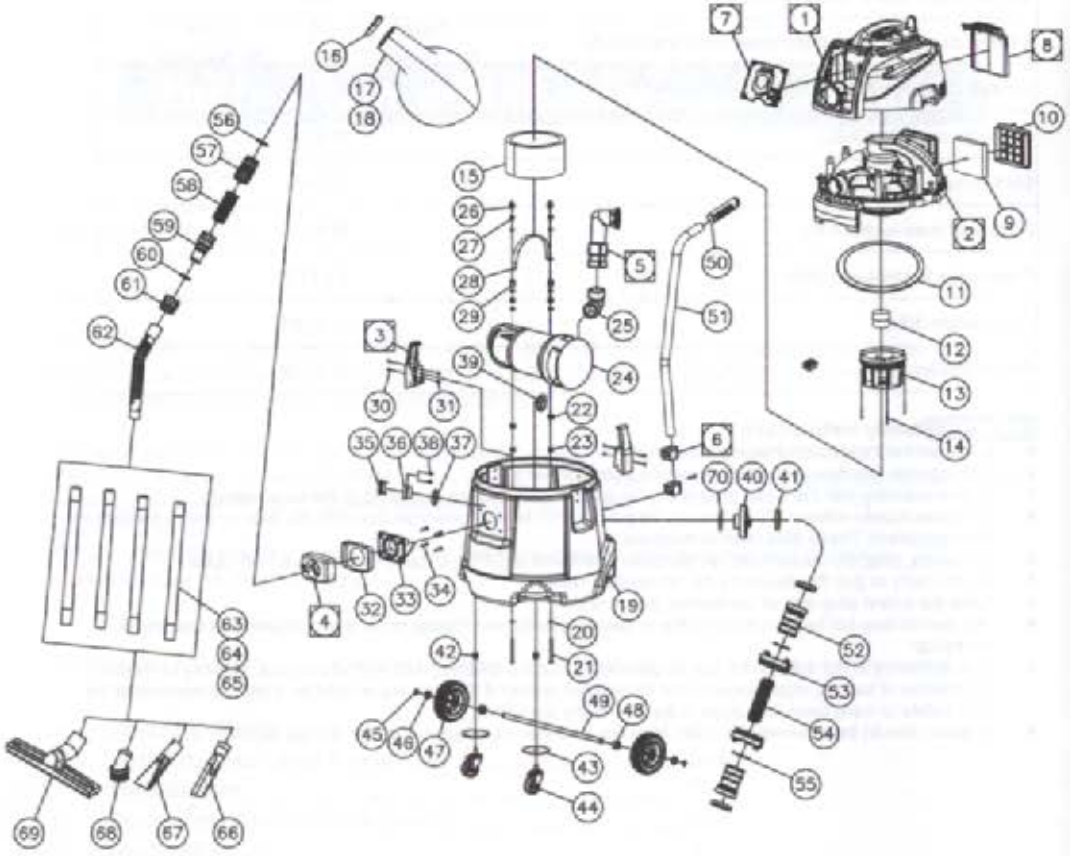
⚠ WARNING : Safety instructions

- Never let the internal discharge pump run dry.
- Only operate the device when there are no people in the water!
- Before reaching into the water always unplug all electrical devices operating in the pond water.
- Compare supply voltage (V) and supply frequency (Hz) of your power source with the data on the nameplate of this equipment. These data must correspond.
- For safety, plug the vacuum into an electrical outlet with a (GFCI) Ground Fault Circuit Interrupter.
- Do not carry or pull the device by the connecting cable!
- Keep the power plug and all connection points dry!
- The device may not be operated if cable or casing is defective! Please consult your dealer or a specialized workshop.
- This appliance is not suitable for use by persons (including children) with limited physical, sensory or mental capabilities or lacking experience and/or knowledge, except if they are supervised by a person responsible for their safety or have been instructed in the use of the appliance.
- Children should be supervised in order to make sure that they do not play with the appliance.

Construction and Parts List

Ordering replacement parts

When ordering, please state the appliance type, designation, and item from the following table:



Power-Cyclone Pond Vacuum							
Part no.		Description		DWG. Marker			
ASYPC001		Tank Assembly		3~6, 16~49			
ASYPC002		Motor Head Assembly		1~2, 7~14			
ASYPC003		Water Pump Assembly		24, 25			
ASYPC004		Suction Hose Assembly		56~62			
ASYPC005		Discharge Hose Assembly		52~55			
No.	Part no.	Description	Q'ty	No.	Part no.	Description	Q'ty
1	ASYPC006	Top Cover Set	1	37	PC500029	Seal	1
2	ASYPC007	Motor Set	1	38	PC500030	Screw	2
3	ASYPC008	Clip Set	2	39	PC500031	Nut	1
4	ASYPC009	Suction Coupler Set	1	40	PC500032	Base	1
5	ASYPC010	Drainage Set	1	41	PC500033	Gasket	3
6	ASYPC011	Holder Set	2	42	PC500034	Nut	2
7	ASYPC012	Switch Cover Set	1	43	PC500035	Washer	2
8	ASYPC013	Rear Cover Set	1	44	PC500036	Front Caster	2
9	PC500001	Filter Box Sponge	1	45	PC500037	C-Ring	2
10	PC500002	Rear Cover Frame	1	46	PC500038	Washer	2
11	PC500003	Seal	1	47	PC500039	Rear Wheel	2
12	PC500004	Float	1	48	PC500040	Bushing	2
13	PC500005	Float Frame	1	49	PC500041	Axle	1
14	PC500006	Screw	3	50	PC500042	Holder	1
15	PC500007	Float Frame Sponge	1	51	PC500043	Handle	1
16	PC500008	Magic Tie	1	52	PC500044	Connector	2
17	PC500009	Net Bag	1	53	PC500045	Connector	2
18	PC500010	Zipper	1	54	PC500046	Discharge Hose	1
19	PC500011	Tank	1	55	PC500047	C-Ring	2
20	PC500012	Washer	8	56	PC500048	Seal	1
21	PC500013	Screw	2	57	PC500049	Hose Connector	1
22	PC500014	Washer	2	58	PC500050	Suction Hose	1
23	PC500015	Holder	2	59	PC500051	Connector	1
24	PC500016	Pump	1	60	PC500052	O-Ring	1
25	PC500017	Connector	1	61	PC500053	Outer Connector	1
26	PC500018	Nut	2	62	PC500054	Bend Connector	1
27	PC500019	Nut	4	63	PC500055	Extension Pipe	3
28	PC500020	Fixer	1	64	PC500056	Extension Pipe (Transparent)	1
29	PC500021	Holder	2				
30	PC500022	Screw	4	65	PC500057	Extension Pipe (Stainless Steel/Option)	0
31	PC500023	Nut	4				
32	PC500024	Washer	1	66	PC500058	Crevice Tool	1
33	PC500025	Suction Coupler C	1	67	PC500059	Transparent Nozzle	1
34	PC500026	Screw	4	68	PC500060	Round Brush	1
35	PC500027	Upper Clamp	1	69	PC500061	Squeegee Nozzle	1
36	PC500028	Clamp Base	1	70	PC500062	Gasket	1

Installation

1. **Use a Phillips head screw driver to unscrew the handle holder screw (part no.6)**

2. **Use a Phillips head screw driver to unscrew the handle (part no.51)**

3. **Put the handle (part no.51) into the holder, and use a Phillips head screw driver to tighten the holder (part no.6)**

4. **Tighten the holder (part no.6)**

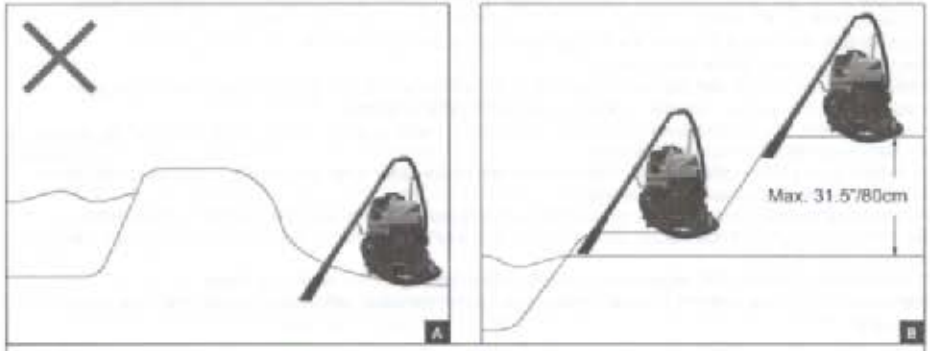
5. **Install the suction hose (part no.57)**

6. **Install the discharge hose (part no.53)**

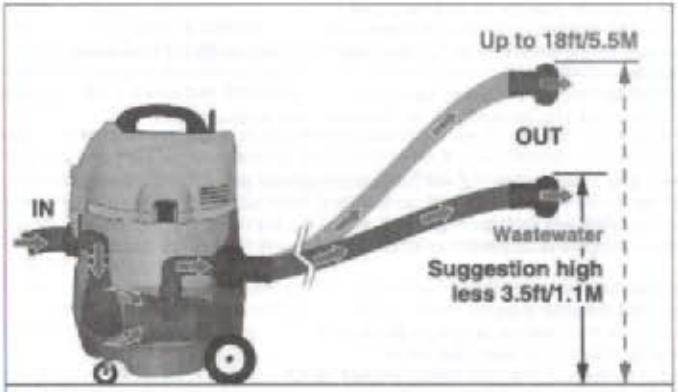
7. **Connect the motor cable with socket (part no.7)**

Setup

1. Set up the Power-Cyclone vacuum near the pond. The minimum clearance to the edge of the pond is 2m (6.5ft) for safety reasons. The device should be set up as close to the water level as possible. Make sure the device is standing stable.
2. Lay the discharge hose in such a manner that the sludge water is conducted into shrubs or onto your lawn during draining. Lay the discharge hose flat on the ground (if possible with a slight incline downward).
3. Fasten the optional sludge collection bag on the end of the discharge hose if needed (for example when suctioning hair algae). The sludge collection bag can be used as an optional attachment to collect only large debris like hair algae or leaves as the dirty water is draining out through the bag. Do not return any dirty water back to the pond. This is unhealthy for the fish. Only clear water without any offensive smell may be returned to the pond.
4. Connect the Power-Cyclone to the main power.



Position the Power-Cyclone so the base of the unit is slightly higher than the water level in the pond. Do not position the unit higher than 31.5" / 80cm above the water level of the pond. (see fig. B)
Never position the unit lower than the water level because this creates a risk of self-priming and therefore of flooding, as well as leakage from the Power-Cyclone. (see figure A)



Don't turn off motor until water completely drains from discharge hose.

Operation and maintenance

The Power-Cyclone vessel consists of a round container with additional suction tube and suction hose. A discharge pump fitted in the container continuously pumps out the sludge water ejected via the discharge hose (part no.52-55) onto the ground or into a drain. Vacuuming is therefore generally possible without interruption.
The Power-Cyclone must not be used as a vacuum cleaner for dry matter, only as a water extractor. Suction without the use of the included sponge filter, and incorrect handling result in the nullification of the warranty claim.
In order to use the product correctly, please read the instructions below.
Please ensure that the Power-Cyclone is set up in such a way that it cannot fall into the water, and that it cannot tip. Wherever possible, position the Power-Cyclone on a level surface slightly higher than the water surface, but not lower than the water level.
Operate the Power-Cyclone only in dry weather.

- Choose one of the four types of suction nozzle or brush (part no.66-69) and connect to the extension suction pipe (part no.63-65).
- Connect the extension suction pipe to the handle on suction hose. (part no. 62)
- Connect the motor cable with socket (part no.7).
- Start up the Power-Cyclone with the switch (part no.7). Direct the end of suction pipe to the floor of the pond.

The dirty water with sediment can now be sucked out and continuously ejected.
Pay attention to the end of the outlet hose. If no water is discharged after approx. 30 sec., then switch off the device for about 1 min., and restart the suction operation.
From time to time during the suction process, examine the end of the outlet hose, and confirm that the sludge water which is being extracted is also being pumped out.
When only smaller amounts of water are being pumped out, remove the pump plug (part no.24) for the discharge pump from the socket (part no.7) on the top cover (part no.1) in this way, you will prevent the discharge pump from being damaged by dry running.
To empty the container (part no.19), reinsert the pump plug (part no.24) for the discharge pump.
Safety information! When pumping out a flooded cellar, ensure that the water which has been pumped out cannot flow back in again.

Problems during pumping
NOTE: To protect the Power-Cyclone, a cut-off switch is installed; when triggered, this stops the suction power even though the turbine is running.
A cut-off in suction power can have the following causes;

- The filter bag is full of dirt. Open the zip at the side of the filter bag, and empty/clean the filter bag
- The discharge pump has not been plugged in.
- The pump is blocked at the intake opening. Check the filter bag for damage. Disconnect the Power-Cyclone from the main power outlet, and clean the container (part no.19) and the pump.
- The outlet hose is blocked (part no.52-55). Examine and clean the hose end.
- The discharge hose elevation is too high for the discharge pump; the outlet hose (part no.52-55) is pointing upwards. Maximum discharge elevation is 18ft/5.5M.
- The suction hose (part no.56-62) is blocked, e.g. by a stone or weed.
- The sponge filter below the top cover (part no.1) is blocked with dirt. Remove, and wash carefully.

Cleaning the Power-Cyclone
Disconnect the Power-Cyclone from the mains power outlet. Pull out the pump plug (part no.24) for the discharge pump from the socket on the top cover (part no.1), open the clips on the container (part no.19).
After this, lift the top cover (part no.1) off the container (part no.19), and wipe it with a dry cloth. The top cover (part no.1) and the cable plug must not become splashed or immersed in water. Now tip the dirt out of the container, and rinse this with water.
Also clean the sponge filter underneath the top cover (part no.1).
If necessary, clean the discharge pump – submersible pump

- Follow the safety instructions! Remove the main electric plug from the socket!
- You can remove the discharge pump for cleaning as described below.
- Use a flat tool to remove the (bayonet) connection from the container (part no.19).
- Loosen the 2 nuts on the clip of the discharge pump and take the dirt pump out.
- You can unscrew the tubing on the discharge pump!
- Spray-wash the discharge pump and attachments with a jet of water and remove all coarse dirt particles. Do not cause any damage!
- Check if the discharge pump starts up by briefly inserting the mains plug into the socket!
  WARNING: Do not reach into the suction openings with your hands!
- The user is not allowed to perform any other maintenance or cleaning steps (such as screwing open the discharge pump)! Contact your dealer or service workshop when you are experiencing problems! Unauthorized repairs will nullify the warranty.

During extended pause between usage, disconnect the Power-Cyclone from the mains power outlet. (remove the plug from the socket). The Power-Cyclone must be stored clean and dry.
If the Power-Cyclone is not used during the winter months, empty it and store it indoors to prevent internal freezing.

Safety requirements for the Power-Cyclone:
NOTE: Immediately on delivery, please examine the goods for transport damage and for completeness. If necessary, make a complaint to the carrier immediately.
When using this appliance, all basic safety instructions must be complied with, especially the following: Handling water in combination with electrical devices requires absolute care and attention!
A frequent cause of accidents results from a lack of attention during routine procedures.
Ensure that your hands are dry when inserting or removing the mains power plug.
WARNING:

- The Power-Cyclone must never be used as a vacuum cleaner for dry matter, only as a water extractor.
- The Power-Cyclone must never be operated unattended.
- The Power-Cyclone must never be operated without a sponge filter (below the suction head).
- Repairs may be carried out only by an authorized expert. Before use, all parts must be correctly assembled.
- Under no circumstances whatsoever may materials such as explosive or poisonous liquids, glowing ash, or petrol be pumped (danger of explosion).

WARNING: Danger to life! Never immerse the top cover (part no.1) into water or any other liquid!
Never hold the top cover (part no.1) under flowing water, and always protect it from splashes!
For cleaning, remove the plug from the mains, and wipe the top cover (part no.1) with a damp cloth. Always clean the Power-Cyclone at the end of usage. Never clean the Power-Cyclone before starting work! When in use, unwind the power cord completely. Never pull the Power-Cyclone by the power cord. Ensure that the power cord is not trapped, squashed, or driven over.
This could damage the insulation. Connect the Power-Cyclone only to a correctly installed voltage socket which has protective contacts and which is correctly equipped with a residual current circuit breaker (GFCI). If an extension cable is required, ensure that the extension is suitable for the connected load of the Power-Cyclone.

Remove the mains plug from the socket:

- For cleaning the Power-Cyclone.
- For cleaning the discharge pump.
- For emptying the container.
- If the appliance has a fault.
- When the appliance is no longer in use.

Note!
The Power-Cyclone is fitted with a cut-off switch.
The suction effect is interrupted when the liquid level in the container (part no.19) rises too high, and therefore triggers the cut-off switch. For this situation, turn off the power and restart it after hearing a noise (sounds like a metal ball dropping on wood) from the cut-off switch dropping back in place.

Motor cooling intervals - it is recommended not to run the Power-Cyclone Pond Vacuum for longer than 30 minutes at a time without resting the motor to let it cool. Running the motor continuously for extended periods of time may shorten its operating life. This is most important in hot environments where the max. operating time should be less than 30 minutes (rest time about 5-10 minutes after each time using).

Remove the dirt or the foreign bodies from the intake opening of the dirt pump (disconnect from the mains power first). See cleaning the dirt pump.
Never reach into the intake opening of the dirt pump when it is running (danger to life).
The Power-Cyclone creates a very strong suction effect during operation! Never come into contact with the suction opening!

Never point the suction opening towards humans or animals!
If the appliance tips over while it is in operation, disconnect from the mains immediately! Set the appliance upright again, put the I/O switch (part no.7) into the OFF position, and empty the container.
Before restarting work, it must be ensured that there is no liquid in the suction head.
Check the Power-Cyclone regularly for damage.

The Power-Cyclone must not be operated with a damaged power cord or other electrical or physical damage.

Never try to open the appliance yourself, or to replace the power cord.
Arrange for repairs to be carried out only by the manufacturer. Repairs carried out incorrectly can cause serious injuries to the user.

Before you pull the plug out of the socket, use the I/O switch (part no.7) to switch off the appliance.
*Do not use the appliance when it is raining, or when a shower or storm is on the way.
The Power-Cyclone must never be operated below the water level. (see fig. A+B) There is a danger from self-priming, and therefore a possibility of flooding of the Power-Cyclone and of nearby structures. If the end of the suction hose (part no.52-55) is higher than the location of the Power-Cyclone, a hose block must be fitted between the Power-Cyclone and the hose connection, in order to prevent water from running back into the Power-Cyclone (danger of flooding).
No-one may remain in the water when starting the cleaning process. Bathing is forbidden!

Warranty

Guarantee conditions
For private use this device is warranted for 12 months, from the date of delivery. Proof of purchase is required. Defects in material or workmanship will be repaired or replace at our discretion, free of charge, only during the warranty period.
Damages resulting from faulty installation or operation, from unauthorized repair, calcium deposits, inadequate care, frost, normal wear, or unauthorized repair attempts are not covered under the warranty.
Modifications to the device, such as separating the mains connection lines or the mains connector, invalidate the warranty. We assume no liability for consequential damages resulting from a failure of the device or improper operation.
In the event of a claim under this warranty, please return the device with the proof of purchase to us postage-paid through the authorized dealer from whom you purchased the device.

Trouble Shooting

Please perform the following trouble shooting procedures to determine if the problem is with the following components:
- Internal discharge pump
- Power switch/outlet
- Vacuum motor
- Intake or discharge hoses

The test separates the two motors and the power switch/outlet to see if either one is at fault.
Both motors rely on each other for proper function.

Please go through all the following steps in order to get a complete test.
Once we determine which component is at fault we can fix it.

First test.: This will test the internal discharge pump.
1. Please remove the vacuum motor to open the bucket.
2. Turn OFF the discharge pump by unplugging it from the power switch/outlet.
3. Fill the bucket with garden hose water on full blast.
4. When the bucket gets full plug in the discharge pump and see how quickly it drains the bucket down.
5. It should take less than 13 seconds to drain down. The discharge pump can pump 60 gals per minute.
6. Continue to fill the bucket with garden hose water for at least 5 minutes while the discharge pump is pumping out. If the discharge pump continues to keep the tank drained after 5 minutes of filling then it is reasonable to believe the discharge pump is OK. If the discharge pump starts to slow down or cannot drain the bucket quickly then it is at fault. Check for rocks, algae or plant debris clogging the inlet to the discharge pump. If the discharge pump does not hum or appears to be non-functional go to the second test.

Second test.: This will test the discharge pump power switch/ outlet.
1. If it appears that the internal sludge pump is not functioning the power switch/outlet plug could be at fault.
2. Plug the discharge pump into a separate extension cord and plug it directly into a separate electrical wall outlet. If the discharge pump starts to hum or operate then the fault is with the power switch/ outlet plug. The power switch/outlet plug is easy to replace and is covered under the 1 year warranty.

Third Test: This will test the vacuum motor.
1. Connect the vacuum motor to the bucket and clamp on.
2. Leave the discharge pump OFF and unplugged.
3. Turn on the vacuum motor but do not immerse the suction pipe in water.
4. Just let it suck air for 5 to 10 minutes.
5. Periodically place and release your hand quickly over the suction end to see if it sucks your hand strong or weak. If you leave your hand over the suction hose for too long the internal float will rise and the motor will surge. You will have to turn off the motor to reset the float.

6. If the air suction is weak please check for debris such as rocks or roots stuck in the hose. You can take a garden hose and push the garden hose all the way through like a snake to be sure nothing is lodged in the 26 feet of hose. If you are sure no debris is in the hose and after 10 minutes of sucking air you still have strong suction then it is reasonable to believe the vacuum motor is OK. If the vacuum is weak then see if you can find an air leak in the hose or connectors. Is the suction hose kinked in any way? If the suction hose was kinked it could lead to a hole or split in the hose and decreased suction.

Fourth Test.
1. If the vacuum motor has good suction in air then the next test is to immerse the end of the suction hose into clean water. Leave the internal discharge pump OFF.
2. Suck up water and check your watch to see how fast the bucket fills. You will know when the bucket is full because the vacuum motor will sound different. It will sound like it is surging. If you are far away from the vacuum motor you may not hear the difference in the surge noise.
3. As the bucket fills the internal float will rise and cut off suction. The vacuum will continue to run but you will lose all suction. Once the float rises and the motor surges you must turn off the unit to let the float drop.
4. How fast did it take to fill the bucket before the float was engaged? If it fills in less than one minute then this is proper function. If it takes over a minute or two minutes then something is wrong. Check that the float is able to move freely up and down. You could have a float that is stuck. You could also have an air leak.

Fifth Test.
1. Set up the vacuum as for regular function with the discharge pump plugged in.
2. Set the end of the discharge hose at a lower level than the bottom of the bucket.
3. Make sure the vacuum bucket is higher than the water level in the pond. If the vacuum bucket is lower than the water level in the pond it can flood the vacuum motor and it will surge.
4. Start a normal vacuum operation but only vacuum clean water no deeper than 2 feet deep.
5. If the vacuum performs normally then try lifting the end of the discharge hose higher and higher above the unit to see if the vacuum motor starts to surge. If the discharge pump is not draining the bucket properly then it is possible that the bucket will fill up with water and cause the vacuum motor to surge. If you are far away from the vacuum motor you may not hear the difference in the surge noise.
6. If the unit functions normally even up to 7 feet elevation then this is good and proper function.

Please try all these tests.
If you find any component to be at fault you may file a warranty claim with your Matala Distributor.
Only the component at fault will be repaired or replaced under the conditions of the Limited Warranty.