

OLYMPUS M100H

OPERATING MANUAL



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Olympus M100H Operating Manual TABLE OF CONTENTS

<i>TOPIC</i>	PAGE#	
 Introduction 	3	
 Technical Specifications 	4	
Optional Equipment	5	
SECTION 1: Operational Safety		
Electrical Safety	6	
 Mechanical Safety 	7	
SECTION 2: Operation Procedures		
 Electrical Supply 	8	
 Water Supply & Chemicals 	9	
Chemical Metering Tips	10	6.500
Water Supply	11	₽ ĕ
 Solution Hoses & Heater 	12	W .
 Vacuum Hoses 	13	No.
 Pump-Out System 	14	
Pressure Adjustments	15	
Shutdown Procedures	16	
 Troubleshooting 	17-19	
Solution Flow Path	20	
 Wiring Diagrams 	21	
SECTION 3: Maintenance/ Technic	<u>cal</u>	
 Maintenance 	26	
 Drawings & Parts Lists 		
o Pump	34	
Auto-Fill - optional	35	
 Solution Tank 	36	
O Waste Tank	40	
o Base, Pumps, Component		
O Base & Vacuum System	45	
 Warranty 	46	

Introduction

Congratulations on your purchase of the Hydro-Force Olympus M100H. The M100H is designed to give truckmount-level performance in a portable machine that combines versatility with ease of transport. Years of experience, engineering, and planning have gone into the design and manufacturing of the M100H. We take a great deal of pride in the M100H; our goal is no less than your complete satisfaction.

This manual will provide users with the knowledge required to operate the Olympus M100H safely, to understand how to properly operate and maintain the machine, and to ensure that the equipment operates at its maximum performance level.

All users must read and understand this manual completely before operating the machine.

Always maintain this manual in legible condition adjacent to the Olympus M100H, or place in a secure location for future reference.

Any questions pertaining to the operating or servicing of this unit should be directed to your nearest Hydro-Force distributor.

This manual is written specifically for the Olympus M100H portable extractor units manufactured by:

Hydro-Force 4282 South 590 West Salt Lake City, UT 84123 801-268-2673 801-268-3856 FAX

Information in this manual is subject to change without notice and does not represent a commitment on the part of Hydro-Force or its parent or affiliated companies.

Technical Specifications

M100H High Performance Extractor

Height: 38" Length: 28" Width: 19-1/2" Weight: 92 lbs.

Solution Tank Capacity: 12 gallon Recovery Tank Capacity: 12 gallon

Solution Pump: FloJet D1635J7012

100 psi – 2.00gpm

Vacuum Motors: Two AMETEK Lamb 5.7" diameter – tangential discharge

Two stage – Mounted in series

Power Draw: Cord #1 – 18.20amps wide open / 11.20amps full load

Cord #2 - 14.58amps

(Add 5 amps on machines with Auto Pump-out System)

Heater: 1750 watt – Single Element

Standard Equipment

M100H High Performance Extractor

Carpet Wand: AW29 - Stainless Steel S-Bend Dual Jet Wand

Vacuum Hose: 25' X 1-1/2" with 1-1/2" cuff & 2" cuff

HP Solution Hose: 25' x 1/4" with 1/4" male / female quick connects

Pump Priming Hose: 12" x 1/4" with 1/4" male quick connect

Power Cords: 2 - 25' x 12gauge with male & female plug ends

Additional / Optional Equipment

Wand Glide – Delrin	AW529D
Wand Glide – Teflon	AW529T
Auto Fill System with chemical draw:	M012
Metering Tip Kit:	PDE001
Auto Pump-out System:	M016
Pump-out Hose:	AH65
Hydro-Filter II Inline Filter:	AC10
3.5" HyDry Upholstery Tool:	AW50A
4.5" HyDry Upholstery Tool:	AW51A
3.5" HyDry Deluxe Upholstery Tool:	AW50D
4.5" HyDry Deluxe Upholstery Tool:	AW51D
1-1/2" Vacuum Hose: (Sold per foot – No cuffs)	AH36
2" cuff for 1-1/2" Vac Hose:	AH46
1-1/2" cuff for 1-1/2" Vac Hose:	AH42
2" Hose Connector PVC:	AH76
1-1/2" Hose Connector PVC:	AH74
HP Solution Hose: (Does not include Quick Connects)	AH79D
1/4" Male Quick Connect:	AH102B
1/4" Female Quick Connect:	AH101B
Power Cord 25' x 12gauge w/male & female plugs	AW32
Power Cord 50' x 12gauge w/male & female plugs	AW33
GFCI Power Cord 50' x 12gauge w/male & female plugs	NM4407A









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Section

Safety

CAUTION! This machine is an electrical appliance. Care must be taken to reduce the risk of electrical shock.

READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE OPERATING THE M100H.

- To reduce the risk of property damage or injury, repairs to electrical systems should only be performed by experienced technicians. Contact your distributor for assistance. Unplug machine power cord from outlet before performing any repairs on the extractor.
- This machine shall be grounded while in use to protect the operator from electric shock. The machine is provided with a three-conductor cord and a three-contact grounding type attachment plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect this wire to other than the grounding pin of the attachment plug.
- This machine is for use on a nominal 120-volt circuit and has a grounding plug that resembles the plug illustrated in the sketch to the right. Make sure that the machine is connected to an outlet having the same configuration as the plug. No plug adapter should be used with this machine.
- The power cord supplied with this machine is properly sized to handle the electrical load of this machine and properly grounded as described above. Any extension cords used with this machine must be similarly sized and grounded to assure safe operation. A properly sized GFCI protected cord can be used for additional protection.
- GROUNDING PIN (A)
- Do not use the M100H outdoors, in standing water or on wet surfaces. Do not store the M100H in wet conditions. If extractor is leaking, unplug machine power cords from outlets before approaching or touching machine.
- Do not unplug power cord by pulling on the cord. Grasp the plug end when unplugging the cord. Do not pull
 the extractor by the cord. If cord or plug is damaged, do not use cord. Replace with new cord or repair as
 needed before use.
- Overloaded circuit may not always trip circuit breaker. Reduced voltage to machine on overloaded circuit will
 prevent components from operating properly.

WARNING! This machine must be protected from conditions which may damage the pump, tank, hoses and other components.

- Freezing of water in this machine will cause serious damage. The M100H, solution hoses, and tools must be protected from freezing temperature. Store, transport, and use this equipment only in temperatures well above freezing. (32°F or 0°C). If you suspect the M100H has been frozen, do not plug in or turn on machine until you are sure it has thawed completely.
- If the equipment cannot be stored or transported in a warm environment, it can be guarded from freezing by running an anti-freeze solution through the incoming water lines, chemical feed system, solution pump, solution lines, tools and pump-out pump. The machine is filled at the factory with anti-freeze to eliminate damage during shipment in cold weather.
 - o The anti-freeze solution must be completely flushed from the machine before it is returned to service.
- The M100H must not be used to pick up flammable or combustible materials or used in areas where these materials may be present.
- Solvent-based or water-based solutions containing solvents may damage the pump, hoses, and other
 components. Do not assume chemical compatibility. Contact your distributor or Hydro-Force if you have
 questions regarding the compatibility of your chemicals with the machine.
- Do not clean with solutions that are at temperatures above 130°F.
- Rinse the solution tank, chemical system, and pump with fresh water after each day's use.
- Do not allow pump to run dry. Always maintain adequate solution level to supply solution pump.
- HP hoses may rupture if worn or damaged. Do not use HP solution hoses if hose covering is cut, bulging, or otherwise damaged. Examine HP solution hoses daily and replace or repair hoses as needed.
- Use a Hydro-Filter II and clean the recovery tank daily to keep pump-out filter and pump from becoming clogged. Store the M100H with the recovery tank lid open.
- Keep Vacuum Inlet Filter clean and check float for proper operation. Do not operate the M100H without the Vacuum Inlet Filter in place. Use defoamer to eliminate foam build-up during cleaning and prevent foam/moisture from entering vacuums.

Use common sense to protect yourself and others while using this equipment.

- Keep pets and children away from the machine when in use.
- Keep all body parts, hair, and loose clothing away from openings and moving parts. Always wear appropriate clothing and safety equipment when operating unit.
- Use extra care when cleaning on stairs. Wet carpet on stairs can be slippery.
- Do not move the M100H up or down stairs when tanks are full of water. Drain solution and recovery tanks, and secure base latches before moving unit up or down stairs. Lift using only the appropriate handles.
- Water may be spilled, drip, or be exhausted from vacuums during operation. Place unit in area where water will not cause damage or use drop cloth to protect surfaces.



Operation Procedures

Knowledge of the proper operation of the M100H is required to ensure user safety and efficient performance of the extractor.

SET UP AND OPERATION

1. Electrical Cord:

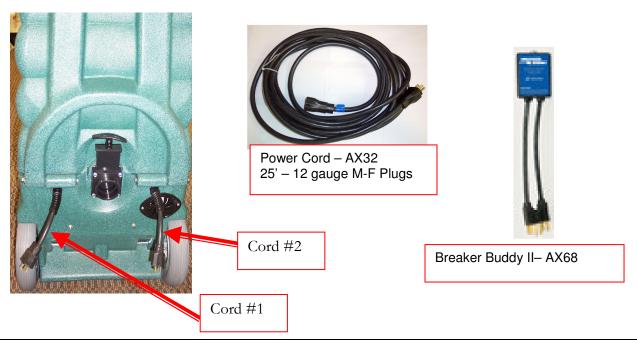
Two 25' power cords are supplied with the Olympus M100H. The amperage draw requires that the Cord #1 be plugged into a 20amp circuit. Cord #2 can be plugged into a 15amp circuit, unless the M100H has an Auto Pump-Out system, if it is used, then Cord #2 must be on a 20amp circuit.

Plug the two power cords into two outlets from different circuits.

If you are not sure if you are connected to separate circuits, use a Breaker Buddy II (item # AX68), available from Hydro-Force, to test your circuits in the following manner:

- Plug the cords into the two outlets being tested, and then plug the Breaker Buddy into the two cords.
- If the green indicator light fails to light, you may be on the same circuit and must select a different plug for one of the cords.
- If the green indicator light comes on, you are plugged into two different circuits; connect the cords to the machine and proceed with your set-up procedure.

If a circuit breaker trips during operation, reset the breaker and move the cord to another outlet as needed.



2A. Water Supply & Chemical Mixing-Manual Fill:

- Pour up to 12 gallons of hot water into the solution tank at the front of the machine. **The water** temperature cannot exceed 130°F.
- Measure and add the appropriate amount of the desired liquid chemical to the water in the solution tank. The amount of chemical will vary depending on the type of chemical used, the amount of water in the tank, and the material being cleaned; consult the chemical packaging for specific mixture ratios.
- Powdered chemicals should be dissolved in water before adding to the water in the solution tank.



Pour appropriate amount of hot water into solution tank



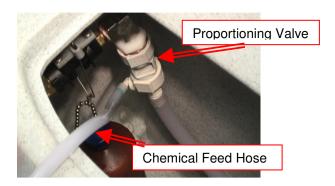
Add appropriate amount of chemical to water in solution tank

2B. Water Supply & Chemical Dilution – Optional Auto-Fill System:

• The chemical dilution rate is controlled by the metering tip, and the dilution rate can only be changed by changing the metering tip (See "How to Change the Metering Tip" on Page 10 for instructions.)

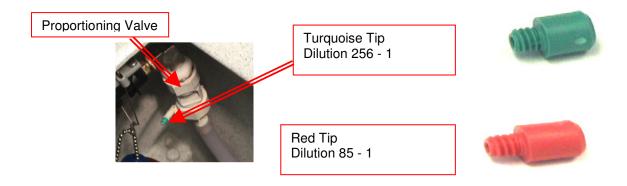
Chemical Feed Setup:

- Remove the chemical feed hose from the solution tank.
- Place the end of the hose into a container of liquid chemical.
- If the tip is removed, and the proportioning system operated with no tip, the dilution rate will be 8:1 (the equivalent to adding 16-1/40z of chemical to each gallon of water.)
- The standard tip used with the M100H is the turquoise tip with a dilution rate of 256:1. This means that for each gallon of water flowing into the machine, 1/2 ounce of chemical will be added.
- If a fresh water rinse with no chemical is desired, simply leave the chemical feed hose inside the solution tank.



How to Change the Metering Tip:

- Remove the chemical feed hose from the barb on the side of the proportioning valve.
- Unscrew and remove the old tip.
- Screw in the proper tip for your chemical tip and place the hose back on the barb



Metering Tip Kit - PDE001

Metering Tip Kit (Hydro-Force Item# PDE001) contains 14 different colored metering tips, allowing dilution rates from 11:1 up to 427:1. Refer to the chart below to select the tip that meets the dilution rate for your chemical application.

- For example: if you require 1-1/2 ounces of chemical per gallon of water, change to the red metering tip with the dilution rate of 85:1.
- The dilution rates are based on chemicals with water-like viscosity. Thicker (more viscous) chemicals will dilute at a different rate.
- For powdered chemicals, a liquid concentrate must be made. Mix the concentrate according to the manufacturer's directions, and then select the appropriate metering tip.
- Contact your distributor or Hydro-Force if you have questions about your chemical.

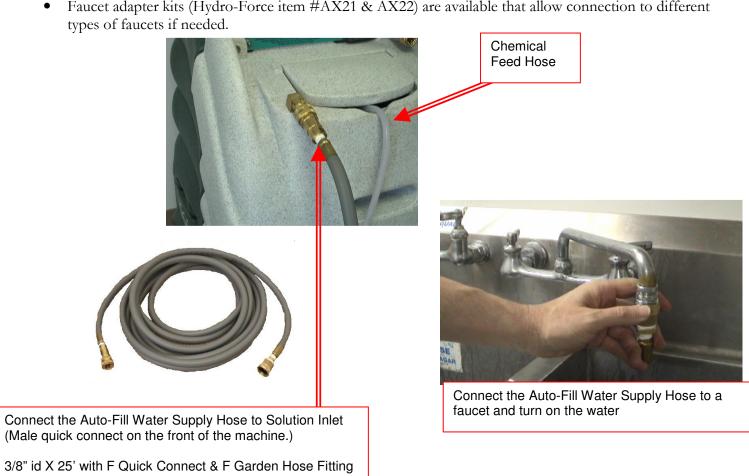
Metering Tip Application Chart:



TIP	CHEMICAL D	LUTION RATES
COLOR	OZ / GAL	(RATIO)
TAN	0.30	(427:1)
ORANGE	0.40	(320:1)
TURQUOISE	0.50	(256:1)
PINK	0.75	(170:1)
LIGHT BLUE	1.00	(128:1)
BROWN	1.12	(114:1)
RED	1.50	(85:1)
WHITE	1.75	(73:1)
GREEN	2.00	(64:1)
BLUE	2.50	(51:1)
YELLOW	3.75	(34:1)
BLACK	5.00	(26:1)
PURPLE	8.50	(15:1)
GRAY	11.50	(11:1)
NO TIP	16.25	(8:1)

Water Supply:

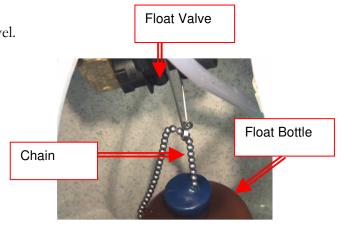
- Once the correct metering tip is in place:
 - o Connect the Auto-Fill Water Supply Hose to the water inlet (the male quick-connect on the front of the machine.)
 - O Connect the other end of the hose to a water faucet, and then turn on the water.
- Hot water can be used as long as the temperature does not exceed 140°F.
- Faucet adapter kits (Hydro-Force item #AX21 & AX22) are available that allow connection to different



To adjust the water level in the solution tank:

- Turn off the water supply.
- Adjust the length of the chain connecting the float bottle to the float valve.
- Snap the beaded chain off the connector on the valve.
 - Move the bottle down to decrease the water level.
 - o Move the bottle up to increase the water level.
- Snap the chain back into the connector.
- Turn the water supply back on.

If the chemical is not drawing, or if the tank is not filling or is overflowing, refer to the trouble shooting guide, or contact your distributor for assistance.



3. Connection of Solution Hose:

Connect the high pressure solution hose to the solution outlet (female quick connect on the front of the machine). Connect the other end of the hose to the male quick connect on the cleaning tool. When you are ready to start cleaning, turn the solution pump switch to the ON position The Flojet solution pump, standard on the M100H is self priming and usually additional priming procedures are not required.

If the pump does not prime by itself, or if flow is low or unsteady, check the hose from the solution tank to the pump (as well as the inlet filter screen) for clogging, kinks, or restrictions. Clean or replace hose and/or filter and repeat the priming procedure. Check the jets and filters on the wand or other tool for flow restrictions that can affect priming.

If you are having trouble with the pump, refer to the trouble shooting guide or contact your distributor for advice or assistance.



HP Solution Hose Assembly – AH79D 1/4" id X 25' with M-F Quick Connects



Connect the male end of the HP Solution Hose Assembly to the female solution outlet fitting on the machine. Connect the female end to the cleaning tool.

4. Heater:

To prevent damage to the heater, the heater must have water in it before it is turned ON. Fill solution tank, connect solution hoses and turn solution pump ON before turning heater ON. Allow the heater to heat up for about 5 minutes before starting to spray tool.

While the heater allows for maximum operating temperature of approximately 190°F, the temperature of the cleaning water delivered to the tool is dependant on two factors:

- The starting temperature of the water: Starting with hotter water will require a smaller temperature increase from the heater to reach the maximum temperature. The water temperature in the solution tank cannot exceed 130°F.
- Flow rate: The lower the flow rate of the water through the heater, the more time the water will be inside the heater. The water will have more time to be heated and can reach a higher temperature. High water usage and flow rate will not allow the water enough time to be heated and the temperature of the water delivered to the tool will be much lower.

The flow rate can be lowered by putting smaller jets in the cleaning tool and by reducing the amount of time the wand is sprayed. Taking additional drying stokes without spraying water between spraying strokes will help increase the potential temperature rise.

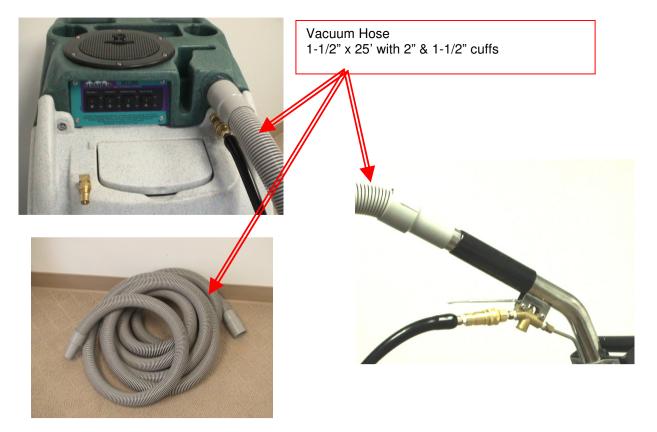


Single Element Heater **NM5043**

5. Connection of Vacuum Hoses:

A 1-1/2" x 25' Vacuum Hose is included with the M100H. The 2" cuff on the 25' vacuum hose is connected to the Vacuum Barb on the front of the machine. The other end with the 1-1/2" cuff is connected to the cleaning tool.

When ready to begin cleaning, turn both vacuum switches to the ON position. While the M100H can be operated with only one vacuum for cleaning delicate fabrics, in most situations you will turn both vacuum switches ON.



6. Optional Auto Pump-out System - Connection of Pump-out Hose:

The pump-out hose is a 50' section of 3/4" garden hose.

- Remove the cap from the pump-out outlet fitting on the back of the machine.
- Connect the pump-out hose to the outlet fitting.
- Place the other end of the hose in a commode or drain connected to the sanitary sewer system.
- Secure hose end to prevent movement during pumping.

Use defoamer to prevent foam build-up in recovery tank during cleaning and to keep foam/moisture from entering vacuums.

When ready to begin cleaning, turn the waste pump switch to the ON position.

• Do not turn on waste pump switch unless pump-out hose is connected and has been routed to a proper drain.



Pump-out Hose – AH65 3/4" id X 50' with M-F Garden Hose Fittings



Connect the Female Garden Hose Fitting end of the Pump-out Hose to the outlet fitting on the back of the recovery tank. Place the other end of the pump-out hose in a sanitary drain.

6A. Waste Tank Shutoff:

If not equipped with an Auto Pump-out System or not using the waste pump-out, the pump-out hose does not need to be connected. When the recovery tank fills during cleaning, the float ball assembly in the vacuum inlet filter will rise and will automatically shut off the vacuum air flow to prevent the recovery tank from overfilling and waste water from getting into the vacuums. When this occurs:

- Immediately shut off the vacuum switches.
- Drain the recovery tank.
 - o Turn off the pump switch while draining the tank.
 - o Turn pump switch back upon resumption of cleaning.
- Close the drain valve and turn the vacuum switches back on when ready to resume cleaning.

If the pump-out or vacuum shutoff is not working properly, refer to the trouble shooting guide or contact your distributor for advice or assistance.



Float Shutoff Assembly - NM5037



Draining the Recovery Tank

7. Pressure Adjustment:

The pressure of the M100H is not adjustable. The pump controls the pressure internally and has a pressure switch that shuts the pump off when the tool is not being sprayed and the pressure builds up past 100psi. The maximum pump pressure is 100psi, but the actual pressure attained is dependent on the amount of water flow at the tool. The wand jets included with the M100H carpet wand were selected to deliver the optimum balance between flow and pressure from the solution pump.

The only way to change the water flow and pressure delivered to the surface being cleaned is to change the jets. If you feel the need to change the jets:

- Smaller jets and lower flow will allow for higher pressure at the tool. (Up to 100psi.)
- Larger jets and higher flow will lower the pressure attained at the tool.

The number found on the face of the jet, such as 8006, 9505 or 11004, states the size and shape of the jet orifice. The first two or in some cases three numbers (80, 95 & 110) represent the spray angle. The last two or in some cases three numbers (06, 05 & 04) represent the orifice size. The orifice size number represents the flow through that jet at 40psi in tenths of a gallon per minute. Thus a small orifice such as 04 will flow 0.40gpm at 40psi. A larger orifice such as 06 will flow 0.60gpm at 40psi. (See chart below.)

Different jets with the same spray angle (8001, 8003 & 8004) can have different orifice sizes. Different jets with the same orifice size (80015, 95015 & 110015) can have different spray angles.

Using a jet that is too small may cause the pump to pulsate or cycle by causing the pressure switch to engage while the tool is being sprayed. If this occurs, replace the jet with a larger jet or contact your distributor for advice or assistance.

Choose the jets that will meet the flow rate at your desired pressure and have the spray pattern suited to your tool and type of cleaning. (The maximum flow rate of the M100H AP25 pump is 2.00gpm.)

If maintaining pressure becomes a problem, refer to the trouble shooting guide or contact your distributor for advice or assistance.

Tee Jets and Vee Jets

	Equiv. Dia. Flow Ca			Flow Cap	acity (Gallo	ns Per Min	ute)	
Orifice Size	in inches	40psi	60psi	100psi	200psi	300psi	500psi	1000psi
01	0.026	0.10	0.12	0.16	0.22	0.27	0.35	0.50
015	0.031	0.15	0.18	0.24	0.34	0.41	0.53	0.75
02	0.036	0.20	0.25	0.32	0.45	0.55	0.71	1.00
03	0.043	0.30	0.37	0.47	0.67	0.82	1.10	1.50
04	0.052	0.40	0.49	0.63	0.89	1.10	1.40	2.00
05	0.057	0.50	0.61	0.79	1.10	1.40	1.80	2.50
06	0.062	0.60	0.73	0.95	1.30	1.60	2.10	3.00
08	0.72	0.80	0.98	1.30	1.80	2.20	2.80	4.00
10	5/64	1.00	1.20	1.60	2.20	2.70	3.50	5.00
15	3/32	1.50	1.80	2.40	3.40	4.10	5.30	7.50

To determine the flow rate of tools with multiple jets, add the flow of each jet together to calculate the total flow at the desired pressure.

Shutdown Procedures:

- If using the auto-fill system, turn the water supply off before finishing each job. This will allow use of the water and chemical already in the tank, and will reduce the amount of excess water to be disposed of later.
- When finished cleaning, turn off all switches.
- If the auto-fill system was used and there is still water in the solution tank, push the float down to release the water inlet hose pressure before disconnecting the hose from the faucet. Disconnect the water inlet hose from the quick-connect on the front of the machine.
- Disconnect the solution hose and vacuum hose from the cleaning tool. Pull valve trigger to release pressure from the hose before disconnecting solution hose from cleaning tool.
- If used disconnect the Hydro-Filter from the vacuum hoses and clean the filter as needed. Replacement filter bags are available (AC11A.)
- Disconnect the vacuum hose and solution hose from the machine.
- If water remains in the solution tank, use the vacuum and vacuum the excess water from the tank.
- If the auto-fill system was utilized, place the chemical feed hose back into the solution tank.
- If the waste pump-out system was used:
 - o Turn the waste pump switch "ON" to pump out any remaining water from the recovery tank.
 - o Turn switch off, remove the pump-out hose from the outlet fitting and replace the cap.
 - o Roll up hose toward drain to remove remaining water from hose.
 - o Connect ends of hose together to prevent dirty water from dripping from hose during transport.
- Disconnect the power cord from the outlet and from the machine.
- Remove the float shutoff assembly from the recovery tank and clean filter as needed.
 Replace shutoff assembly and tank lid.
- Drain any remaining water from the recovery tank and dispose in sanitary drain. Do not use the same bucket to drain the tank that you use to fill the tank.
- Roll up all hoses and cord.
 Collect and store extractor, all tools, and accessories.







Troubleshooting

Section

Troubleshooting – Olympus M100H

Problem	Cause	Solution
Machine not	Building circuit breaker tripped.	Reset breaker or move cord to other outlet
turning on -	Faulty power cord	Replace cord (AX32)
No power	Faulty switches or internal wiring	Check wiring & test switches - Repair as needed *
Solution	Line pressure activating pressure	
Pump	switch.	Spray tool to release pressure
not running	Pressure Switch faulty.	Replace pressure switch. (PF02090-120)
	Building circuit breaker tripped.	Reset breaker or move cord to other outlet.
	Faulty power cord	Replace cord (AX32)
	Faulty switches or internal wiring	Check wiring & test switches - Repair as needed *
	Pump fuse blown	Replace 5amp fuse
	Pump motor faulty	Replace pump (AP25)
	Pump seized - trips breaker	Repair or replace pump (AP25)
		Check jets size & flow rates use smaller jets or lower
Low Solution	Jets too large for pressure desired	pressure
Pressure and/or	Jets worn allowing too much flow	Poplace into
Pulsation	Solution inlet filter plugged	Replace jets Clean or replace filter
Fuisation	Hose from solution tank restricted	Repair or replace hose
	Pump intake hose or fittings	nepair of replace hose
	leaking	Repair or replace hose. Tighten clamps or replace fittings
	Filter screen or jets plugged on	Tropan or replace mose. Figure in diamps of replace manige
	tool	Clean out filter or jets
	Solution tank empty	Add water to tank - Check & repair auto fill assembly
	Pump not primed	Perform pump priming procedure
	Pump faulty	Repair or replace pump (AP25)
	Tool valve faulty	Repair or replace valve
	Quick connects or hoses restricted	Clean out or replace quick connects and/or hoses
		·
Can't connect	Pressure in lines	Release pressure
solution hose	Quick connects faulty	Replace quick connects (AH101B, AH102B)
to machine	Wrong style/size quick connects	Replace quick connects to match connects on machine
*	To reduce the risk of fire electrical s	hock or injury repairs to wiring should only be performed by
	experienced service technicians.	
	If you are not experienced in checking	ng electrical wiring contact your nearest authorized service
	center to perform tests and repairs t	o wiring and switches.

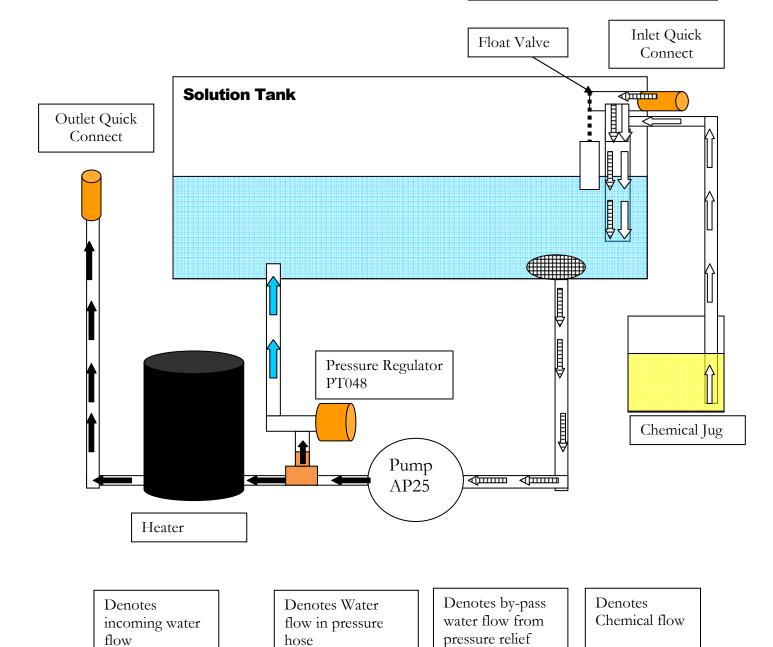
Problem	Cause	Solution
Pump-out	Building circuit breaker tripped.	Reset breaker or move cord to other outlet.
not working	Faulty power cord	Replace cord (AX32)
		Check wiring & test switches - Repair as needed *
	Faulty switches or internal wiring	(NM5714)
Optional	Pump-out pump faulty	Replace pump-out pump (NM5053)
Auto Pump-Out	Pump-out pump clogged	Clean pump-out - Keep recovery tank clean - Use Hydro- Filter
	Outlet check valve stuck	Clean or replace check valve
	Discharge hose restricted	Un-kink, clean out or replace hose
	Float switch stuck	Clean switch make sure float slides up & down easily
	Float switch faulty	Replace float switch (NM5054)
Vacuum	Building circuit breaker tripped.	Reset breaker or move cord to other outlet
Motor	Faulty power cord	Replace cord (AX32)
not running	Faulty switches or internal wiring	Check wiring & test switches - Repair as needed *
	Vacuum motor faulty	Replace vacuum motor (AV010)
Loss of	Vacuum motor faulty	Replace vacuum motor (AV010)
Vacuum	Vacuum motor gasket damaged	Replace gasket (PA010)
	Recovery tank lid gasket damaged	Replace gasket (NM5059)
	Drain valve open	Close valve
	Drain valve leaking	Repair or replace drain valve (PEA11)
	Vacuum motor hoses loose / leaking	Reconnect or replace vacuum motor hoses
	Vacuum hose or tool clogged	Clean out vacuum hoses and tool
	Vacuum hoses or cuffs leaking	Replace vacuum hoses, cuffs & connectors as needed
	Recovery tank full	Drain tank
	Float shutoff filter clogged	Clean float shutoff filter
	Ball stuck in float shutoff	Repair or replace float shutoff (NM5037)
	Pump-out Check Valve stuck open	Clean out or replace check valve(NM5052)
	Recovery tank damaged	Replace recovery tank
Chemical not	Solution tank not filling	Check & repair auto fill assembly
feeding	Chemical hose restricted	Un-kink, shorten, clean out or replace hose
	Filter screen plugged	Clean or replace filter (PDE100-11P)
Optional Auto-Fill	Low Incoming Water Pressure	Set chemical bottle on top of machine – Shorten Chemical hose – Find other water source.
	Wrong size metering tip	Change metering tip
	Chemical proportioner faulty	Replace chemical proportioner (PDE61-22-3)
	Check valve in filter faulty	Replace filter (PDE100-11P)
Tool won't	Jets clogged	Clean out or replace jets
spray - low or	Inline filter clogged	Clean out or replace filter
uneven spray	Jets worn	Replace jets
	Jets not aligned properly	Re-align jets
	Tool valve faulty	Repair or replace valve
	Quick connects or hoses restricted	Clean out or replace quick connects and/or hoses
*		hock or injury repairs to wiring should only be performed by
	experienced service technicians.	
		ng electrical wiring contact your nearest authorized service
	center to perform tests and repairs t	o wiring and switches.

Problem	Cause	Solution			
Solution Tank	Water source turned off	Turn on faucet or find other water source			
not filling	Float not on valve arm	Reconnect float to valve arm - Adjust to proper height/level			
	Float valve faulty	Repair or replace float valve (NM5055)			
Optional	Water hose restricted	Un-kink, clean out or replace hose			
Auto Fill	Quick connects faulty	Clean out or replace quick connects (AH101B, AH102B)			
Solution tank	Float too heavy/ Filled with water	Replace float (PHY005-003)			
overflowing	Float & chain tangled	Make sure float chain free & hanging properly			
Optional	Float too high	Adjust chain to set float at proper level			
Auto Fill	Float valve faulty	Repair or replace float valve (NM5055)			
Chemical Jug	Foot valve in Filter stuck	Clean out foot valve and filter			
Filling with	Foot valve in Filter faulty	Replace foot valve and filter (PDE100-11P)			
water -					
Overflowing					
Optional					
Auto Fill					
Llagtor	Duilding aircuit brooker tripped	Deact breekers or mayo cords to other outlets			
Heater	Building circuit breaker tripped.	Reset breakers or move cords to other outlets			
not getting	Faulty power cord	Replace cord (AX32)			
Water hot	Heater Switch not ON	Turn switch ON			
	Water start temperature too low	Use hot water in solution tank - 160°F maximum			
	Heater not given time to preheat	Turn heater ON and wait 5 minutes before spraying tool			
	Tool jets too large – High Flow	Replace tool jets with smaller jets to reduce flow rate			
	Water usage too high	Slow down cleaning – more drying strokes – less spraying			
	Temp switches faulty	Test 190°F & 230° switches & replace as needed*			
	Heating Element Faulty	Replace heater (NM5043)			
	Faulty switches or internal wiring	Check wiring & test switches - Repair as needed *			
*	To reduce the risk of fire electrical s	hock or injury repairs to wiring should only be performed by			
	experienced service technicians.				
	•	ng electrical wiring contact your nearest authorized service			
	center to perform tests and repairs to wiring and switches.				
	•	-			

• Contact your distributor for additional troubleshooting assistance, to order parts, or for advice and assistance in performing necessary repairs.

M100H Solution Flow Path

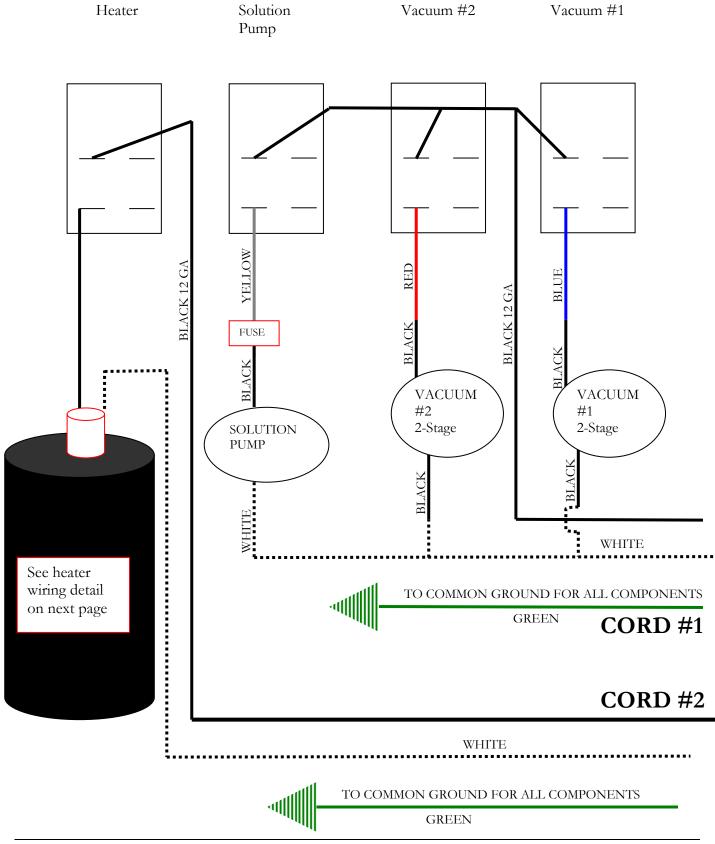
Flow Path shown with optional Auto-Fill System M012

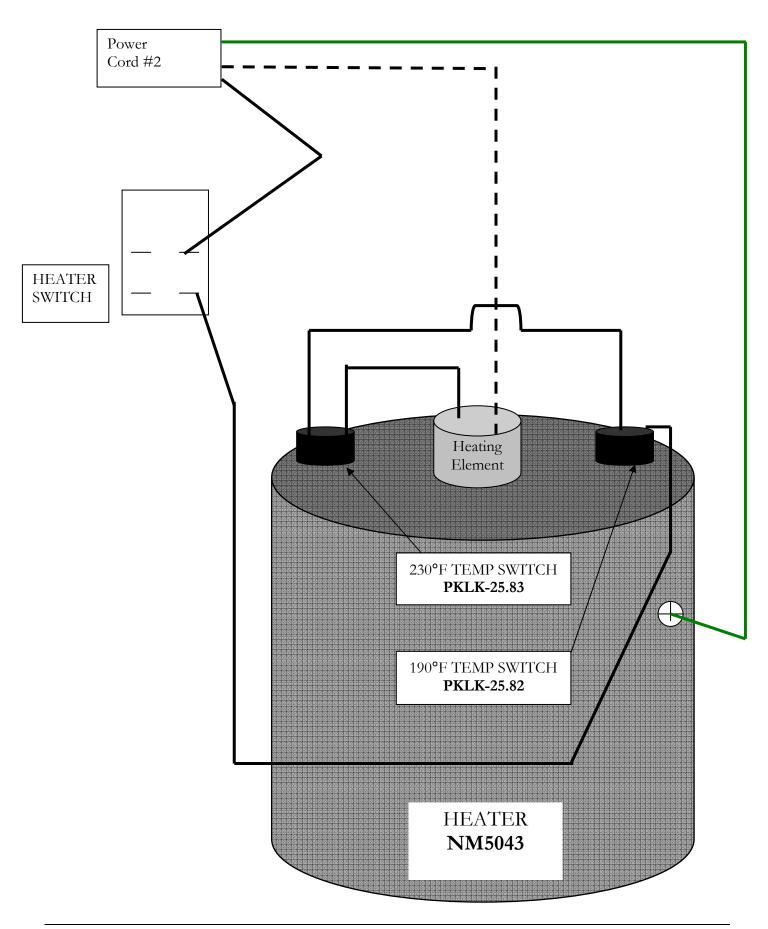


Pressure Regulator PT048 is used as a pressure relief valve. Set at 200psi, it will relieve pressure created by heater when heater is ON and pump shuts off during cleaning.

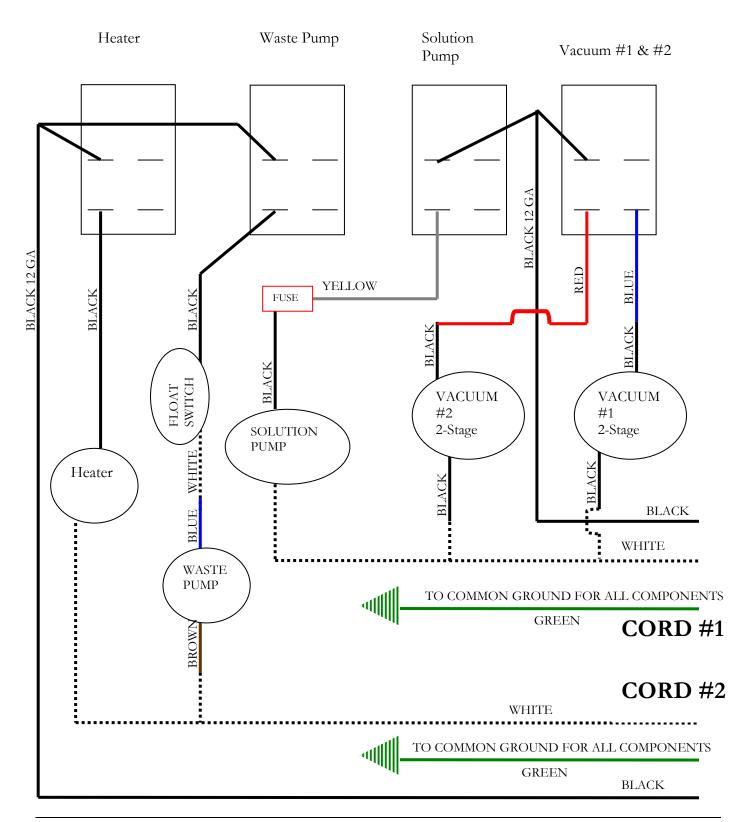
valve

M100H Wiring Diagram - Standard





M100H Wiring Diagram With Auto Pump-Out System



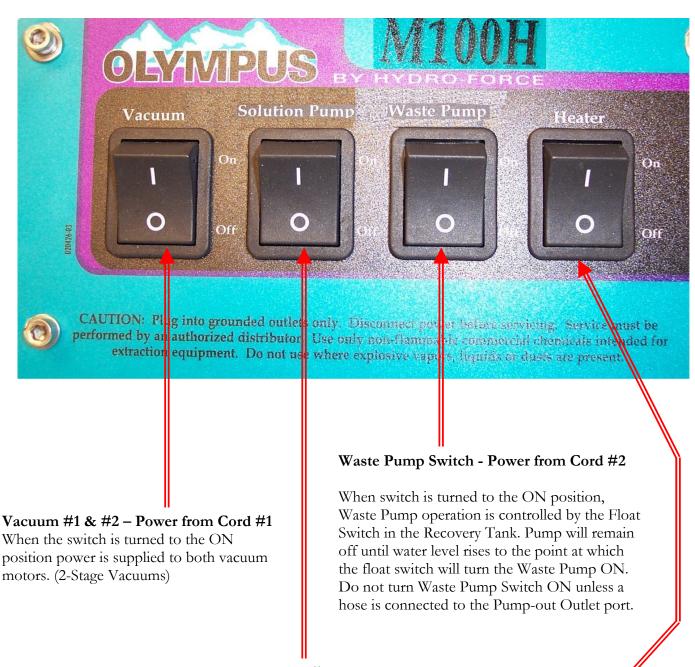
OLYMPUS M100H STANDARD SWITCH PANEL:



Replacement Switch: NM5714

Heater Switch – Power from Cord #2. When the switch is turned to the ON position power is supplied to the Heater

OLYMPUS M100H WITH AUTO PUMP-OUT SWITCH PANEL:



Solution Pump Switch - Power from Cord #1

When the switch is turned to the ON position power is supplied to the solution pump motor. The pump will run until the pressure builds up in the solution line and the pressure switch on the pump will turn the pump OFF. When the tool is sprayed the pressure drops, the pressure switch turns the pump back ON.

When not using solution (Extracting Only) do not turn this switch ON.

Heater – Power from Cord #2.

When the switch is turned to the ON position power is supplied to the Heater

Replacement Switch: NM5714

Section 3

Maintenance

Proper maintenance is required to keep the M100H operating properly, prevent downtime and to extend the life of your equipment.

WARNING: Disconnect electrical power before performing any service or maintenance inside machine base or before testing or repairing switches or power cords. Failure to do so may result in severe personal injury or death.

OPERATION	INTERVAL	Page #
CLEAN CHEMICAL FEED FILTER & FOOT VALVE	Daily – After Each Job	27
(Machines with optional AUTO-FILL SYSTEM only)		
CLEAN VACUUM SHUTOFF ASSEMBLY SCREEN	Daily – After Each Job	27
CLEAN HYDRO-FILTER II (If so equipped)	Daily – After Each Job	28
RINSE OUT RECOVERY TANK	Daily	28
CLEAN WASTE PUMP	Daily	29
(Machines with optional AUTO PUMP-OUT SYSTEM only)		
FLUSH SOLUTION TANK AND PUMP	Daily	29
CLEAN PUMP-INLET FILTER	Daily	30
FLUSH CHEMICAL SYSTEM	Monthly	31
(Machines with optional AUTO-FILL SYSTEM only)		
CLEAN DRAIN VALVE	As needed	32
STORAGE PREP – FREEZE PROTECTION	As needed	33

CLEAN CHEMICAL FEED FILTER & FOOT VALVE: With optional Auto-Fill System Only

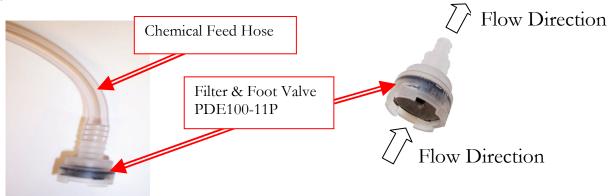
The Filter & Foot Valve is on the end of the chemical feed hose that is placed in the chemical jug as part of the optional Auto-Fill chemical feed system.

Regularly examine the filter and clean as needed.

To test the Foot Valve:

- Remove the Filter & Foot Valve from the end of the chemical feed hose and rinse in fresh water.
- Blow through the valve from the filter side of the barb.
 - o If the Foot Valve is functioning, air should move freely from the filter side, but will not flow from the barb side of the filter.
 - o If valve is not functional, clean or replace as needed.

Heavy chemical build-up can be removed with a mild acid rinse and/or the use of a brush and compressed air.



CLEAN VACUUM SHUTOFF ASSEMBLY SCREEN:

Inside the recovery tank, on top of the stand pipe, is the Vacuum Shutoff Assembly. It functions to prevent debris and water from being sucked into the vacuum motors. Operating the M100H without the Vacuum Shutoff Assembly or with a poorly maintained assembly will greatly decrease the life of the vacuum motors and will void the warranty.

If debris builds up on this filter, it will reduce the vacuum air flow and may cause a significant decrease in the rate of water recovery. If debris prevents the float ball from moving or seating inside the assembly, it may not stop the airflow when the tank fill with water, and the water will be sucked into the vacuums and blown out the exhaust. **Use defoamer to prevent foam or moisture from entering vacuums.**

To clean:

- Twist to loosen and pull the assembly off of the stand pipe.
- Pull fibers and lint off and rinse with clean water.
- Push the assembly back onto the stand pipe and replace the recovery tank lid.



Vacuum Shutoff Assembly NM5037



CLEAN THE HYDRO-FILTER II: (Optional Accessory)

When used with the M100H, build-up of debris in the filter screen of the optional Hydro-Filter II will reduce the vacuum air flow and may cause a significant decrease in water recovery. A torn filter screen will allow debris past the filter and into the recovery tank. This debris can clog the Waste Pump and the Vacuum Shutoff Assembly. The Hydro-Filter II must be examined and cleaned regularly to keep the M100H functioning properly:

- Grasp and turn the lid counterclockwise to open the Hydro-Filter II lid.
- Remove the filter screen. Examine the screen and clean or replace as needed.
- Rinse the body of the Hydro-Filter II with clean water.
- Examine the o-ring lid seal and replace as needed.
- Re-install the new or cleaned screen.
- Screw the lid back onto the body and turn clockwise to tighten.







Replacement Filter Screen:

Replacement Cover:

Replacement O-Ring:

AC10C

AC10A

AC10D

Replacement Body:

AC10B

RINSE OUT RECOVERY TANK:

Build-up of fine silt and debris can damage the Waste Pump and Drain Valve. Clean out the tank on a regular basis to extend the life of these components as well as keep the tank and machine smelling better.

- Remove the recovery tank lid and open the drain valve.
- Place a bucket under the drain valve.
- Use a hose to rinse the dirt and debris out of the recovery tank.
- Close the drain valve and spray the tank with a deodorizer or disinfectant.
- Proceed to Waste Pump Cleaning and replace the recovery tank lid.
- Dispose of the dirty water and debris.





CLEAN WASTE PUMP-OUT PUMP: (With optional Auto Pump-Out System Only)

Build-up of fine silt inside the Waste Pump can clog the pump even if the pump is not used, so this maintenance procedure should be performed regardless of whether the Waste Pump has been used.

- After cleaning out the recovery tank, remove the cap and connect the Pump-Out hose to the Waste Pump outlet fitting on the back of the machine; run the hose to a drain..
- With Cord plugged in, turn the Waste Tank switch to the ON position.
- Use a hose to fill the recovery tank to the point where the float switch turns the Waste Pump ON.
- Let the pump run until it pumps the level down to the point when the float switch shuts off the Waste Pump.
- Unplug the cord and turn the Waste Pump switch OFF.
- Open the drain valve and drain out the remaining water.
- Close the drain valve, replace the recovery tank lid, and dispose of the dirty water and debris.

FLUSH SOLUTION TANK AND PUMP:

- Pour two or three gallons of clean water into the solution tank.
- With Cord plugged in, connect the pump prime hose to the solution outlet female quick connect.
- Direct the end of the prime hose into the recovery tank vacuum barb.
- Turn one or both of the vacuums ON and turn the solution pump ON.
- Let the pump run until most of the water has been pumped out of the solution tank. Do not let the pump run dry. Turn the pump OFF before the water gets to the bottom of the tank.



Pour 2 or 3 gallons of clean water into Solution Tank

- Turn the vacuums OFF and disconnect the prime hose.
- Place a bucket under the drain valve; open the drain valve to drain the water out of the recovery tank.
- Close the drain valve and dispose of the water.

If there is a heavy chemical build-up in the machine, hoses, or tools, a mild acid can be added to the rinse water in the previous procedure (REFER TO PHOTOS ON FOLLOWING PAGE.)

- After the pump has been primed, turn the solution pump switch OFF and turn the vacuums OFF.
- Remove the prime hose and connect the HP solution hose and tools.
- Turn the solution pump ON and direct the tool spray into a bucket. Let the pump run until most of the water has been pumped out of the solution tank. **Do not let the pump run dry. Turn the pump OFF before the water gets to the bottom of the tank.**
- Disconnect the solution hose and tool.
- Use the vacuum hose to vacuum the remaining acid solution out of the solution tank.
- Pour two or three gallons of clean water into the solution tank.
- Connect the pump prime hose to the solution outlet female quick connect.
- Direct the end of the prime hose into the recovery tank vacuum barb.
- Turn one or both of the vacuums ON and turn the solution pump ON. Let the pump run until most of the water has been pumped out of the solution tank.
- Turn the vacuums OFF and disconnect the prime hose.
- Place a bucket under the drain valve and open the drain valve to drain the water out of the recovery tank. Close the drain valve and dispose of the water.

FLUSH SOLUTION TANK AND PUMP: (continued from previous page)

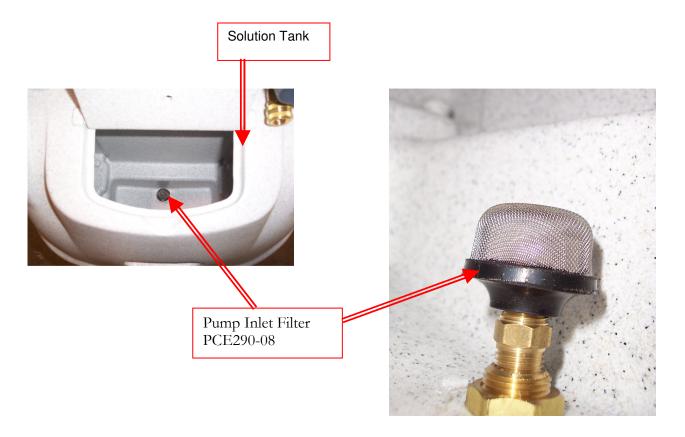




CLEAN PUMP INLET FILTER

A restricted Pump Inlet Filter can prevent the solution pump from providing adequate pressure for cleaning.

• Remove the stainless steel filter screen and clean as needed.

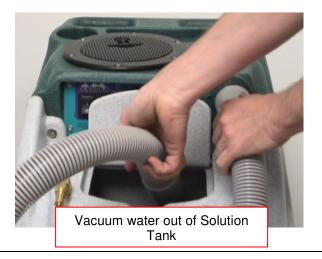


FLUSH CHEMICAL SYSTEM: (With optional Auto-Fill System Only)

Chemical build-up in the chemical system can prevent the system from drawing chemical.

- Rinse the chemical system with fresh water (For heavy chemical build-up, a mild acid can be added to the rinse.)
- Remove the chemical feed hose from the solution tank and place the end of the hose in a bucket of fresh water or mild acid solution.
- Connect the Auto-Fill Water Supply Hose to the water inlet (male quick connect) on the front of the machine.
- Connect the other end of the hose to a water faucet and turn on the water. Let the water flow into the tank until you are sure the rinse solution has been drawn through the proportioner and mixed with the incoming water. The metering tip can be removed from the proportioner to speed up the process.
- Once the rinse solution has been drawn through the proportioner, turn off the water faucet and disconnect the Auto-Fill Water Supply Hose.
- Plug in Cord, connect the vacuum hose to the vacuum barb, turn on vacuum #1, and use the vacuum hose to remove the water from the solution tank.
- When the solution tank has been emptied, turn off the vacuum and unplug the power cord.
- Place a bucket under the drain valve and open the drain valve to drain the water from the recovery tank.
- Close the drain valve and dispose of the water.







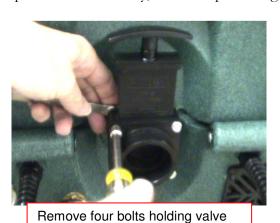
Place Chemical Feed Hose into

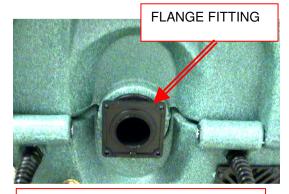
Rinse Solution

CLEAN RECOVERY TANK DRAIN

Debris and sand accumulation in the drain valve can damage the valve or prevent it from closing completely. This will result in dirty water leaking from the valve. Use of the Hydro-Filter and regular cleaning of the recovery tank will help prevent this, but occasionally the drain valve will require cleaning or replacement. Drain the recovery tank before attempting to service the drain valve.

- Unscrew the nuts and remove the four bolts holding the valve assembly to the flange attached to the recovery tank. Unless the flange is damaged, it does not have to be removed from the tank, even when replacing the drain valve.
- Separate the valve body, outlet adapter and gaskets from the flange.





Unless damaged or leaking between tank and flange, the flange fitting does not have to be removed



assembly to flange fitting





- Examine the valve body for wear. Check the valve slide for deep scratches. Deep scratches will allow water to flow past gaskets and leak from valve. Replace valve if needed.
- Examine the gaskets and replace if cut, torn or deformed.
- Raised, rounded side of gasket goes toward valve slide. Larger flat sides seat on ring on flange and outlet adapter. Sand and debris will collect in the bottom of the valve body and prevent the slide from going down and seating properly.
- Clean debris out as needed so slide can move to bottom.
- Rinse valve body and reassemble valve body, gaskets and outlet adapter, and place assembly back onto flange fitting.
- Replace four bolts and tighten evenly to secure assembly to flange. Do not over-tighten bolts.



Clean debris from slot in bottom of valve body. Valve slide must be able to slide to bottom.

Storage Prep and Freeze Protection Procedures:

Your Olympus M100H must be protected from freezing. Freezing can cause serious damage to the pump, pump-out, auto-fill float valve, and any other component containing water. If the M100H is transported or stored in freezing temperatures, the following procedures should be performed.

ALSO, if the M100H is stored for an extended period of time, the following procedure should be performed to prevent the pump seals from drying out.

- 1. In a separate container mix 1/2 gallon of water with 1/2 gallon of automotive radiator anti-freeze. (Ethylene glycol type). Mix well and pour into the solution tank.
- 2. Connect the pump prime hose to the solution outlet (female quick connect) and perform the pump priming procedure, directing the flow back into the solution tank. When the pump is primed, turn the pump off and disconnect the priming hose.
- 3. If equipped with Auto-Fill (If not go to step #5); connect the HP solution hose to the solution outlet (female quick connect.) Connect the opposite end of the HP solution hose to the Auto-Fill inlet (male quick connect.) Leave the chemical feed hose in the solution tank and ensure the check valve filter is submerged in the anti-freeze solution. To speed the process the metering tip can be removed. Be sure float is high enough and fluid level is low enough that float valve does not close.
- 4. Turn the solution pump switch to the ON position. Allow the anti-freeze to circulate for 5-10 minutes. Mix and add more anti-freeze solution as needed. Make sure end of chemical feed hose stays submerged in the anti-freeze solution. This will assure that the anti-freeze will be drawn into the proportioning valve. Then turn the solution pump off.
- 5. Connect any cleaning tools that will be stored with the M100H. Turn the solution pump switch to the ON position. Direct tool spray back into the solution tank or into a bucket. Turn the solution pump off and repeat for all tools to be protected.
- 6. Turn the solution pump switch to the OFF position.
- 7. Use the vacuum hose to vacuum the remaining anti-freeze solution out of the solution tank and bucket.
- 8. If equipped with Auto Pump-Out (If not go to step #10); remove the cap from the waste-pump out outlet fitting on the back of the machine. Connect a hose to a drain or hold a bucket up to the fitting to catch the pump-out flow.
- 9. Remove the lid from the recovery tank. Turn the Waste Pump switch to the ON position and lift the float switch to engage the pump-out. Lower the float and turn off the Waste Pump Switch as soon as you see anti-freeze flowing from the outlet fitting or hose.
- 10. Drain the remaining anti-freeze solution from the recovery tank and the machine is ready for storage.

RETURNING THE M100H TO SERVICE AFTER STORAGE OR FREEZE PROTECTION:

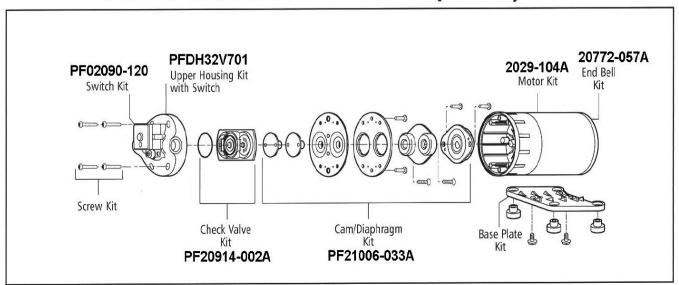
To return the M100H to service, the anti-freeze must be flushed from the machine. Flush the anti-freeze out of the machine by repeating the procedures above using fresh water in place of anti-freeze.

Parts

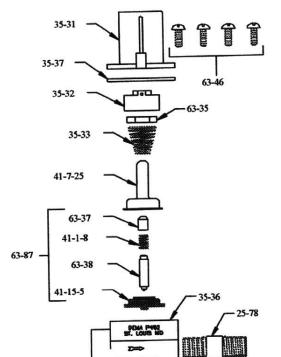
Replacement parts available for repair of your M100H.

M100H PUMP PARTS ASSEMBLY

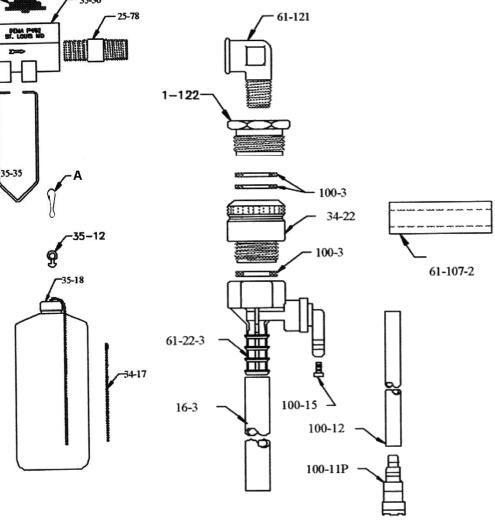
D1635J7012 AP25 HIGH PRESSURE DUPLEX II (100 PSI)



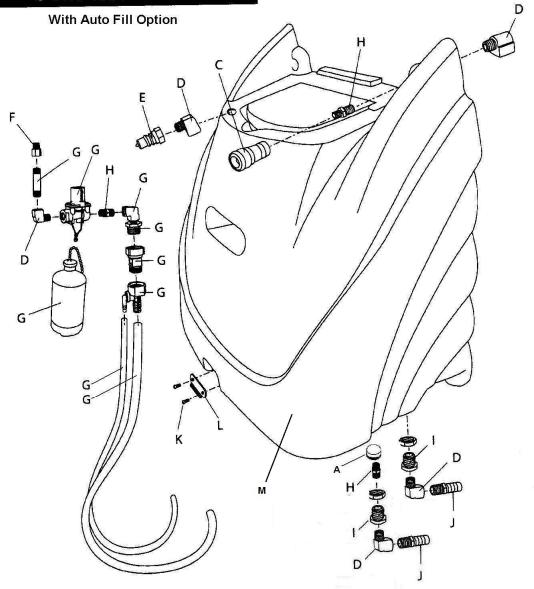
OLYMPUS AUTO-FILL FLOAT VALVE ASSEMBLY (Optional)



Part Number	Description
16-3	3' Discharge Tubing
25-78	Pipe Nipple
34-17	16" Chain with Connector
34-22	Backflow Preventer
35-12	Float Hanger Clip – NM5452
A	Snap Clip – NM5450
35-18	Float Assembly – PHY005-003
35-31	Magnet Housing
35-32	Magnet Holder
35-33	Spring
35-35	Float Hanger Wire – PDE35-42
35-36	Valve Body
35-37	Flange
41-1-8	Spring
41-7-25	Enclosing Tube
41-15-5	Diaphragm
61-121	Elbow 90° Street 1/4"
61-122	Adapter
61-107-2	Ceramic Weight
61-22-3	Proportioner – PDE61-22-3
63-35	Magnet
63-37	Spacer
63-38	Plunger
63-46	Screw 8-18 x 1/2" (4 req.)
63-87	Valve Repair Kit - PDE63-87
	(Includes: 41-1-8, 41-15-5, 63-37 & 63-38)
100-3	Rubber Washer
100-11P	Foot Valve – Filter – PDE100-11P
100-12	8' x 1/4" Plastic Tubing – XAF1
100-15	Metering Tip - Turquoise



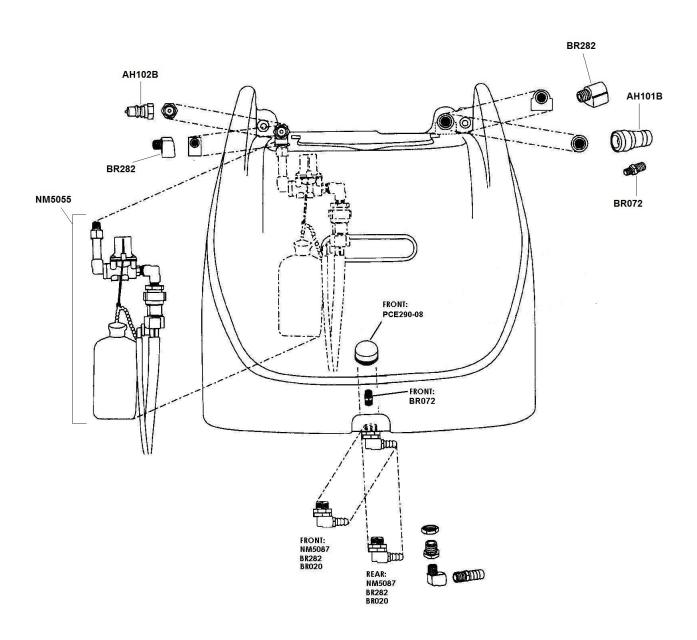
SOLUTION TANK



ITEM	PART #	DESCRIPTION	QTY	ITEM	PART #	DESCRIPTION	QTY
A	PCE290-08	ACORN STRAINER 1/4" FPT		T i	NM5087	BULKHEAD FITTING 1/4"	2
- 179	1 02200 00			J	BR020	BARB 3/8" x 1/4" MPT	2
C	AH101B	QUICK CONNECT 1/4" FM	1	К	NM5023	SCREW 8-32 x 3/8" B	2
D	BR282	ELBOW 90 - 1/4" STREET	5	L	NS121	LATCH HOOK	1
E	AH102B	QUICK CONNECT 1/4" M	1	M	NM5006	SOLUTION TANK	1
F	BR174	ADAPTER 1/4" MPT x 1/4" FPT BR	1				*
G	NM5055	FLOAT VALVE ASSY W/CHEM	1				
Н	BR072	NIPPLE 1/4" HEX BRASS	3				

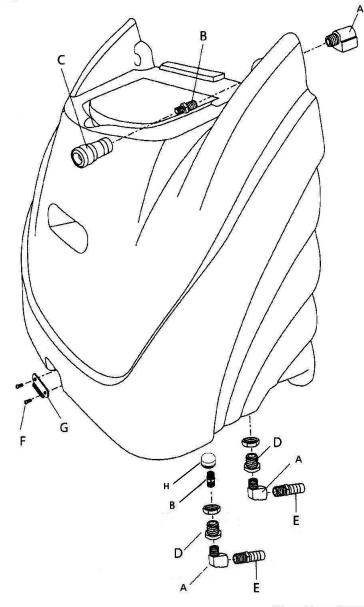
SOLUTION TANK INTERNAL

Shown with Auto Fill Option



SOLUTION TANK

Standard

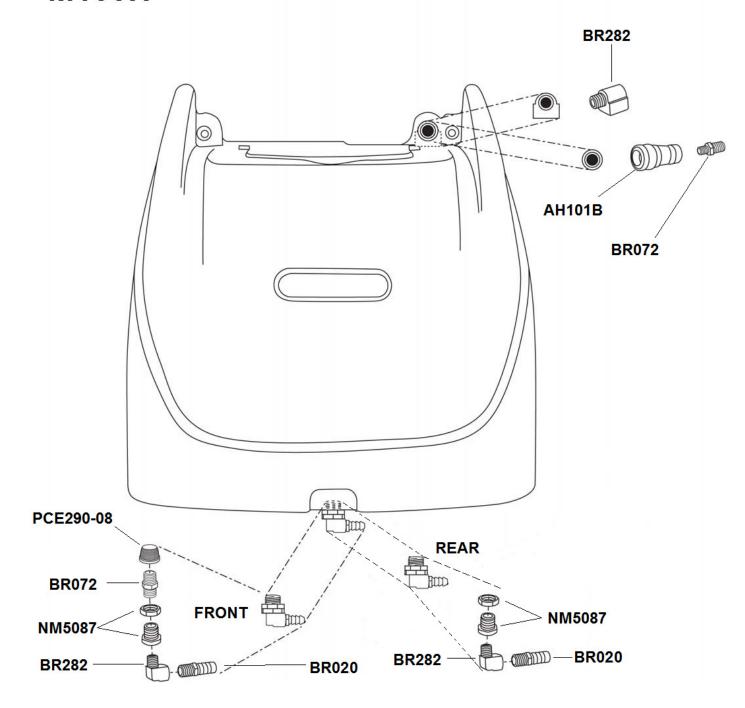


ITEM	PART#	DESCRIPTION	QTY
A	BR282	ELBOW 90 - 1/4" STREET	3
В	BR072	NIPPLE 1/4" HEX BRASS	2
С	AH101B	QUICK CONNECT 1/4" FM	1
D	NM5087	BULKHEAD FITTING 1/4"	2
E	BR020	BARB 3/8" x 1/4" MPT	2
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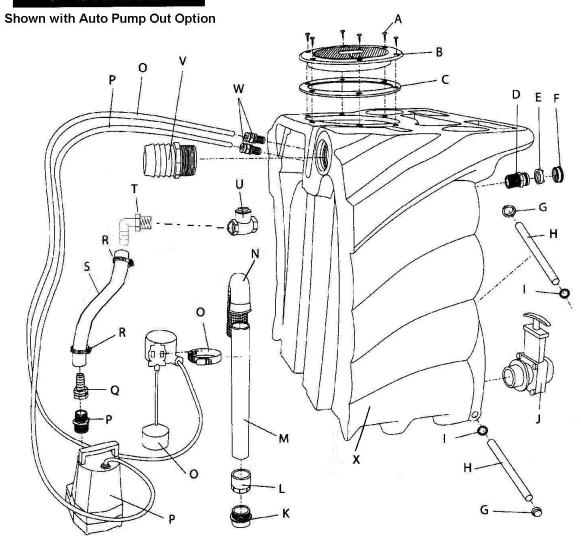
ITEM	PART #	DESCRIPTION	QTY
F	NM5023	SCREW 8-32 x 3/8" B	2
G	NS121	LATCH HOOK	1
Н	PCE290-08	ACORN STRAINER 1/4" FPT	1_
1	NM5006	SOLUTION TANK	1

SOLUTION TANK INTERNAL WITHOUT AUTOFILL

M100H

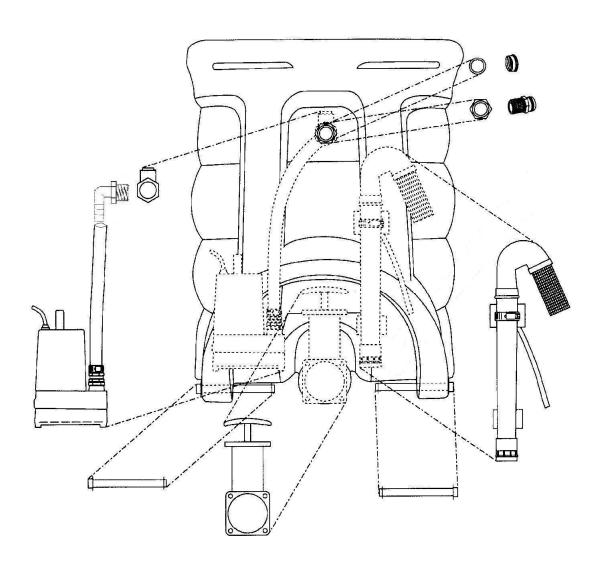


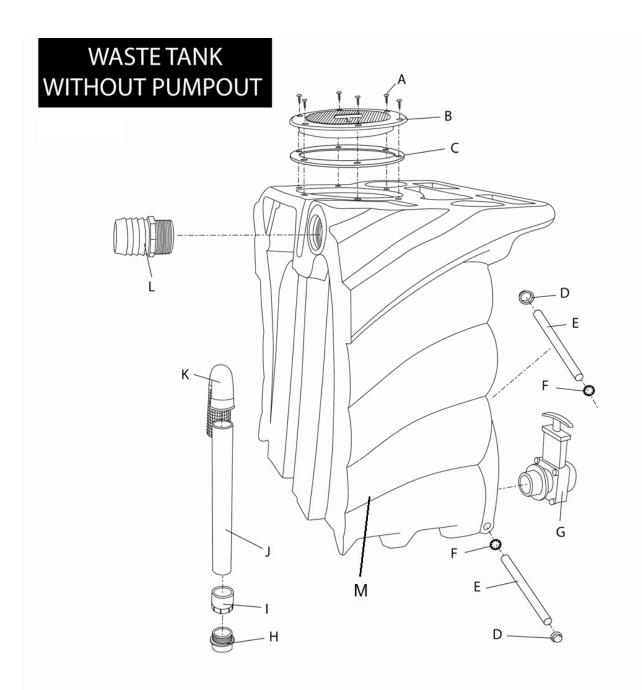
WASTE TANK



ITEM	PART #	DESCRIPTION	QTY	ITEM	PART #	DESCRIPTION	QTY
A	PA187	SCREW #10 x 5/8" SH	6	0	NM5054	SWITCH FLOAT STRAIGHT	1
В	NM5004	LID ASSEMBLY WASTER TANK	1	P	NM5053	PUMP LITTLE GIANT	1
C	NM5059	GASKET WASTE TANK LID	1	Q	BR333	BARB 3/4" x 3/4" FGH	1
D	BR319	ADAPTER 3/4" MPT X MGH	1	R	PH09	CLAMP HOSE SCREW 9/16"	2
E	BR600	GASKET	1	S	NM5056	HOSE 3/4" WATER BLACK	12"
F	BR325	CAP CARDEN HOSE BRASS	1	Т	PA110	ELBOW 90 BARB 3/4" x 3/4" MP	1
G	NM5010	CAP AXLE OLYMPUS REAR	2	U	NM5052	CHECK VALVE 3/4" SWING	1
Н	NM5013	HINGE POST	2	٧	AH69	BARB 2"x 1-1/2" MPT	1
1	NM5026	HINGE RETAINING CLIP	2	W	NM5051	STRAIN RELIEF	2
j	PEA11	VALVE 1-1/2" MPT GATE	1	Х	NM5006A	RECOVERY TANK	1
К	NM5042	ADAPTER 1-1/2" MPTX1-1/2" MS	1				1
L	NM5081	ADAPTER 1-1/2" FPT X1-1/2" FS	1				
М	NM5036	PIPE 1-1/2" X 17" A B S	16"				
N	NM5037	FLOAT & FILTER CAGE	1				

WASTE TANK SIDE INTERNAL VIEW



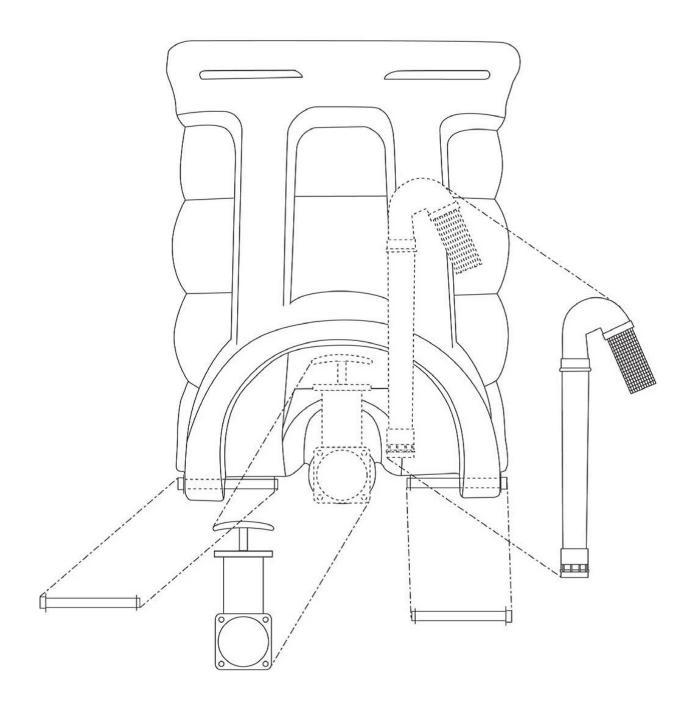


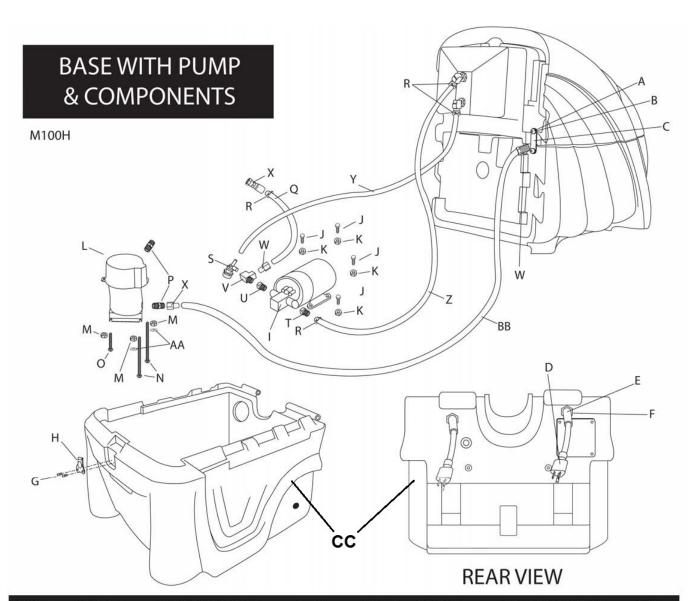
ITEM	PART #	DESCRIPTION	QTY
Α	PA187	SCREW #10 x 5/8" SH	6
В	NM5004	LID ASSEMBLY WASTER TANK	1
С	NM5059	GASKET WASTE TANK L	1
D	NM5010	CAP AXLE OLYMPUS RE	2
E	NM5013	HINGE POST	2
F	NM5026	HINGE RETAINING CLI	2

	PAKI#	DESCRIPTION	ייע
G	PEA11	VALVE 1-1/2" MPT GA	1
Н	NM5042	ADAPTER 1-1/2" MPTX	1
1	NM5081	ADAPTER 1-1/2" FPT X	1
J	NM5036	PIPE 1-1/2" X 17" A	16"
K	NM5037	FLOAT & FILTER CAGE	1
L	AH69	BARB 2" x 1-1/2" MP	1
M	NM5006A	RECOVERY TANK	1
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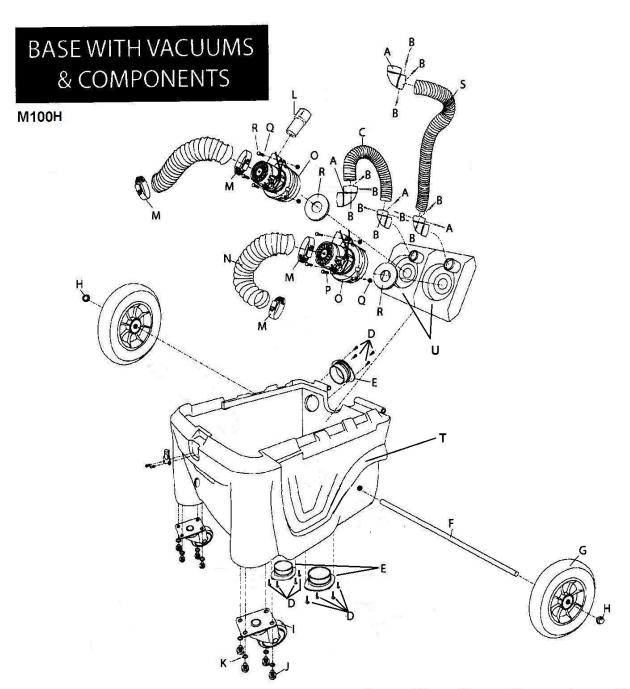
WASTE TANK SIDE INTERNAL VIEW WITHOUT PUMPOUT

M100H





ITEM	PART #	DESCRIPTION	QTY	ITEM	PART #	DESCRIPTION	QTY
Α	NM5028	SCREW 1/4-20x1/2" SS SOC HD	4	0	PA233	SCREW 10-24 X 1 FLTHD MS	1
В	NM5030	WASHER 1/4" FLAT BLACK	4	Р	BR072	NIPPLE 1/4" HEX BRASS	2
C	NM5027	BRACKET SOL/REC TANK	2	Q	AH79CF	SOLUTION HOSE HYDROCOIL	12"
D	NM5009	CORD 12/3x2'W/MALE END	2	R	NA2250	CLAMP HOSE SOLV SPRAYER	4
E	NM5038	STRAIN RELIEF	2	S	PT048	PRESSURE REGULATOR 200 PSI	1
F	NM5039	NUT STRAIN RELIEF	2	Т	BR022	BARB 3/8 X 3/8" BRASS	1
G	NM5023	SCREW 8-32x3/8" BH SOC SS	2	U	BR192	BUSHING 3/8 X 1/4" BRASS	1
Н	NS120	LATCH	1	V	BR252	TEE 1/4" STREET M-F-F BRASS	1
1	AP25	PUMP FLOJET 100 PSI	1	W	XAF02	HOSE END COMPRESSION	2
J	NM5034	SCREW 1/4-20x1"HX HD	4	X	XAF01	HOSE END 1/4"	2
K	NM4003	NUT 1/4-20 HEX SS	4	Υ	NM5082	HOSE 3/8" CLEAR COIL	38"
L	NM5043	HEATER	1	Z	AH90	SOLUTION HOSE GRAY 3/8"	42"
М	PA231	NUT 10-24 HEX	3	AA	NM5066	WASHER 1/4" FLAT SS	2
N	NM5047	SCREW 10-24 HEX	2	BB	AH790F	SOLUTION HOSE HYDROCOIL	5′
		ž)		CC	NM5006B	BASE	1



ITEM	PART #	DESCRIPTION	QTY
Α	NM5041	ELBOW 90 - 1-1/2" ABS	4
В	NM5025	RIVET HOSE ELBOW	12
С	NM5050	VAC HOSE 1-1/2"WIRE REINFORCE	21 "
D	PA184	SCREW 8x3/8 SHEET METAL	12
E	NM5015	GRATE VAC EXHAUST	3
F	NM5011	AXLE OLYMPUS REAR WHEEL	1
G	NM5002	REAR OLYMPUS WHEEL	2
Н	NM5010	REAR WHEEL AXLE CAP	2
1	NM5003	FRONT CASTER	2
J	NM5012	SCREW 1/4-20 x 1" HX HD	8

NM5014	WASHER LOCK - CASTER	8
AH42	CUFF 1-1/2" HOSE	1
PHO14	CLAMP HOSE SCREW 3"	4
NM5018	DUCT 3"x 18" VINYL BLACK	2
AV010	VAC MOTOR 5.7 2 STAGE	2
NM5029	SCREW 10-32 x 5/8"SS	6
NM5033	WASHER MANIFOLD BOTLS	6
PA010	GASKET VAC MOTOR 5.7"	2
NM5050	VAC HOSE 1-1/2"WIRE REINFORCE	24"
NM5006B	BASE	1
NM5006C	VACUUM MANIFOLD	2
	AH42 PHO14 NM5018 AV010 NM5029 NM5033 PA010 NM5050 NM5006B	AH42 CUFF 1-1/2" HOSE PHO14 CLAMP HOSE SCREW 3" NM5018 DUCT 3"x 18" VINYL BLACK AV010 VAC MOTOR 5.7 2 STAGE NM5029 SCREW 10-32 x 5/8" SS NM5033 WASHER MANIFOLD BOTLS PA010 GASKET VAC MOTOR 5.7" NM5050 VAC HOSE 1-1/2" WIRE REINFORCE NM5006B BASE

Limited Warranty



Your Olympus M100H is designed to give you years of reliable service. If a problem should arise use the troubleshooting section in the operation manual to diagnose and correct the problem if possible.

If you are unable to determine the cause or solution to the problem contact your distributor or Hydro-Force for assistance.

Hydro-Force warrants the roto-molded tanks and base of the Olympus M100H to be free from defects in material or workmanship for five years from the date of purchase.

All other components of the Olympus M100H are warranted to be free of defects in material and workmanship for one year from the date of purchase.

During the warranty period, Hydro-Force will, at its option repair or replace components which prove to be defective. This warranty does not provide for replacement of complete units due to defective components. Any costs for transportation or related service labor are not covered in this warranty. Replacement parts are warranted only for the remainder of the original warranty period.

This warranty shall not apply to defects resulting from improper operation, lack of maintenance, unauthorized modification, chemical incompatibility, misuse, abuse or exposure to freezing temperature conditions. It does not cover normal wear items such as o-rings, valve seals, pump seals, hoses, jets, cords, batteries, or other items which require replacement as a result of ordinary usage.

To obtain warranty service for the Olympus M100H, contact your distributor or Hydro-Force. If the extractor must be returned to Hydro-Force or an authorized service center, the purchaser shall prepay shipping charges for products returned for warranty service. No returned items will be accepted by Hydro-Force without prior authorization. All returns must have a return authorization number, issued by Hydro-Force, clearly marked on the exterior of the package.

Hydro-Force makes no other warranty either expressed or implied with respect to this product.

The remedies provided herein are the purchaser's sole and exclusive remedies. In no event shall Hydro-Force be liable for any direct, indirect, special, incidental or consequential damages.

This warranty gives you specific legal rights. You may also have other rights which vary from jurisdiction to jurisdiction.