
OPERATOR'S MANUAL



#9049M
Shown

MADE IN
USA OF

GLOBAL
COMPONENTS

**Lightweight and Portable Diesel Transfer and Filtration System
(Not for Use with Gasoline or Other Highly Volatile Fluids)**

Innovative Products of America® Incorporated
888-786-7899 • 234 Tinker Street, Woodstock, NY 12498 • www.ipatools.com

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LETTER FROM THE PRESIDENT OF IPA®

My name is Peter Vinci and I am the president of IPA®. I would like to thank you for your interest in IPA®'s product line and share my commitment to you, our products and our policies. In today's world, we have all experienced the lack of service and consideration demonstrated by many companies after you buy their products. They say whatever they can to make the sale, and then it's like pulling teeth to get any service response out of them. I know this myself firsthand and because of this, I want to be sure that your experience with IPA® meets your expectations and that IPA® never disappoints you with our service or customer response.

To prove my commitment to you, if for any reason, you are not happy with one of our products – or more importantly, with the response from our customer service department, or any member of the IPA® team – I invite you to contact me directly via my email, president@ipatools.com or call me at 888-786-7899. Your satisfaction is more important to me than the sale itself. We will not be in business for long if we don't make you completely happy with our products and service. I want IPA® to be different and be known for its quality and service.

With that said, please take a look at our product line. You will see innovative first time products that were created to help you do your job faster and better than before. I would also like to invite you to critique our products. If you can think of a better way to make them or changes that will make them work better, please contact me directly and I will be sure to look into it. If you have an innovation and would like some feedback, give me a call.

From all of us at IPA®, we thank you for taking the time to review our product line and wish you and your family the very best of everything.

Peter Vinci
President
IPA®

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IMPORTANT SAFETY INSTRUCTIONS

IT IS IMPORTANT TO READ, UNDERSTAND AND FOLLOW ALL SAFETY MESSAGES & INSTRUCTIONS PRINTED IN THIS MANUAL AND ON THE EQUIPMENT BEFORE OPERATING. IF SAFETY INFORMATION IS NOT HEEDDED, RESULTS IN DEATH OR SERIOUS INJURY TO THE OPERATOR OR BYSTANDERS MAY OCCUR.

DANGER indicates a hazardous situation, if not avoided, will result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

WARNING indicates a hazardous situation, if not avoided, could result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

CAUTION indicates a hazardous situation, if not avoided, may result in minor or major injury. The possible hazards are shown in the adjoining symbols or explained in the text.



POTENTIAL BURN HAZARD Sparks from electrical shorts can ignite flammable liquids such as fuel or oil. Heat from electrical overloads can cause fire hazards.



POTENTIAL EXPLOSIVE AIR HAZARD Pneumatic pressures used with this equipment can cause explosive failures on damaged equipment.



POTENTIAL EYE HAZARD Wear OSHA approved safety glasses. Battery acid and high air pressures create hazardous situations for eyes.



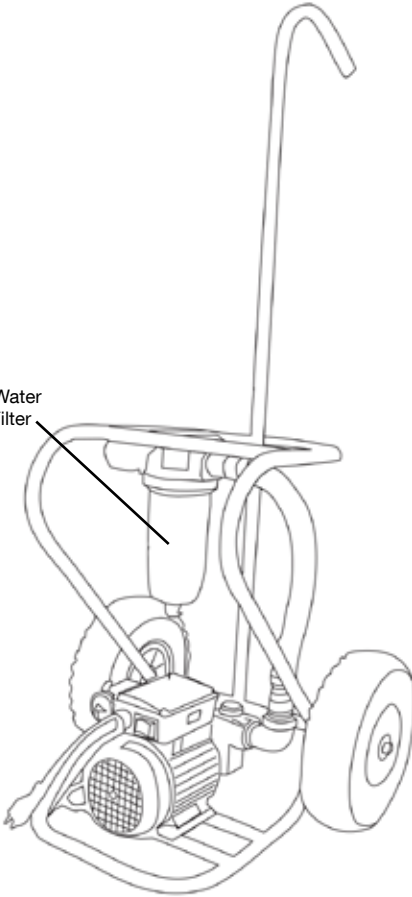
POTENTIAL CHEMICAL BURN HAZARD Wear protective gloves. Battery acid is corrosive and can cause skin damage.



POTENTIAL FIRE HAZARD Use caution with flammable liquids such as fuel and oil. Electrical shorts can ignite flammable liquids and wiring.

#9049M/#9049S FLEET TANK SWEEPER® PARTS

17-Micron Water
Blocking Filter

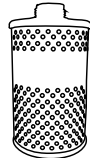


#9043



Filter Housing
(includes 17-micron filter)

#FIL-00001A



17-Micron Water
Blocking Filter
(filter only)

#9049-INHOSE-AS



Black 3/4" Input Hose

#9049M-OUTPUT-AS

1/2" ID Flexible Wand with Quick-Disconnect Fittings



#9049M-INTAKE-AS

3/4" ID Flexible Wand with Quick-Disconnect Fittings

#9049-OUTHOSE-AS



Black 3/4" Output Hose

As Shown #9049M with Wheels and Handle

TRANSFER PUMP SPECIFICATIONS

- 120V AC
- 60 Hz
- 450 W
- 6.5 Amps
- 30-Minute Duty Cycle
- 1/3 HP

NOTE: A Duty Cycle is the time specified for the motor to run continuously. An auto shutdown and cooldown time will engage.

- **DO NOT USE WITH GASOLINE OR OTHER HIGHLY VOLATILE FLUIDS.**
- Do not dry run or dead head this pump assembly.
- Do not use with water or water contaminated fluids.
- Do not use in hazardous locations.
- To obtain the best flow rate of 22 gpm, remove filter from the housing and install a 1" fuel hose on the input and the discharge port.

SET-UP INSTRUCTIONS

STEP 1

It is recommended that you visit the site 48 hours before tank sweeping to prepare the tank and assess the site condition. Using the optional IPA® #9042 sampling tool, insert the Sample Stick all the way down to the bottom of the tank to be cleaned. Draw the piston shaft up enough to get a good sample of the fuel (approx. 12"). Remove the Sample Stick and note the amount of water and crud at the bottom of the tank. Transfer the sample into a glass jar and allow the various contaminants to settle and separate for 24 hours. This will give you an idea of the fuel condition inside the tank and the amount/type of the contaminated fuel.

STEP 2

Add an algae biocleaner or an equivalent to the tank in appropriate amounts. Using the Sample Stick, stir the tank briskly to mix the algae cleaner into the diesel. After 48 hours, the algae should be killed off and the tank is ready for sweeping. If convenient and safe, you may use a small jack to elevate the tank a few degrees on one side to allow the majority of contaminants to collect on one end of the tank. This is the end you will choose to sweep.

TANK SWEEPING SET-UP

1. Set up your Tank Sweeper® near the tank to be cleaned, allowing enough room for the input hose to reach the tank.
2. Install the output hose to a 55-gallon drum or filter back into the tank being cleaned. (Note: use a clean and leak-free 55-gallon drum.)
3. Connect the flex wand to the input hose via couplings, making sure to use the locking pins so the locking levers do not vibrate loose.
4. Insert the flex wand adapter all the way down to the bottom of the diesel tank to be cleaned.
5. Connect the AC pump to a 120V power output, making sure it is a grounded output.

NOTE 1: The use of the filter is important to protect the pump from the contaminants. If the filter is not used and heavy dirt is drawn through, the pump may be damaged and the warranty will be voided.

NOTE 2: When ready to operate the Tank Sweeper®, be sure to check all connections for leaks and be prepared to shut down the Sweeper®. Have your emergency spill kit available and in reach.

TANK SWEEPING

1. Once all safety precautions have been complied with and you are certain of good and proper connections with the output hose firmly in the holding drum or tank, plug the AC pump into a grounded 12-volt AC socket. When ready, turn on the pump via the switch. This begins to actuate the pump assembly and the suction through the input flex wand. The input and output flex wands can be cut to accommodate your custom needs.
2. Keep the flex wand at the bottom of the tank and slowly sweep back and forth, collecting all contaminants from the bottom of the tank.
3. The Tank Sweeper® will remove the bottom contents of the tank where the majority of fuel contaminants exist, i.e., water, crud, algae and rust. If a badly contaminated tank is expected, you must run the cleaning through the filter housing with the filter installed. The Tank Sweeper® operator should move the flex wand back and forth across the bottom of the tank moving the stick when the diesel is clear in the filter housing. You should now move the wand to another spot at the bottom of the tank. Repeat this sweeping function until only clean fuel is removed.

FILTERING AND BLENDING THE FUEL

A great feature of the Tank Sweeper® is its ability to return the contaminated fuel clean and filtered to the same or a new diesel tank.

1. Install the output hose in the tank into which you want to transfer the clean fuel.

NOTE: Observe above warnings.

2. Insert flex wand into one hole at the top of the tank and insert the output hose into another hole at the top of the tank.

NOTE: Depending upon what contaminants are present when using the hose and how well it is cleaned afterwards determines how long the filter housing remains clear.

NOTE: After transferring or filtering the fuel, drain both the input and the output hoses. Cleaning of the hoses after use is necessary to maintain its longevity. When ready, allow the hoses to gravity drain. Once the hoses have been drained, hang them away from the sun over a pail or a bucket to catch any additional residue.

#9042 SAMPLE STICK (OPTIONAL)

The Sample Stick is designed to remove a small sample of diesel fuel from the bottom of a fuel tank so the operator can see what contaminants are present.

TO OPERATE

1. Insert the Sample Stick through one of the cap openings at the top of the tank until it contacts the bottom of the tank.
2. Slowly withdraw the piston via the handle until the desired amount of fuel is drawn into the Sample Stick.
3. Remove the Sample Stick from the tank, keeping a fuel absorbent towel ready. Allow the Sample Stick to drip drain onto the towel.
4. Have a suitable container made of glass or material that will not be affected by the fuel ready for the sample fuel.
5. Slowly withdraw the piston until it is removed completely from the Sample Stick. Place the piston on a towel to drip drain.
6. Pour the remaining contents of the Sample Stick into the sample jar.

7. Once the sample is in the jar, let it sit for 24 hours to separate the contents. The water will settle to the very bottom with rust, then algae, and then the crud. The clear fuel will be on top. This should be a real time view of what is happening at the bottom of the oil tank.
8. Once the sample has been taken, you must replace the piston in the Sample Stick. Because of the one-way valve at the bottom of the foot valve, there will be a pressure block as you attempt to replace the piston. You need to break the suction seal by unscrewing the foot valve two turns counterclockwise. This allows the air to escape and the piston to be replaced. Once the piston reaches the bottom of the tube, you must retighten the foot valve. Be certain not to over-tighten the O-ring. A snug torque of the foot valve halves is all that is needed.

Cleaning of the Sample Stick after use is necessary to maintain its clear appearance. When ready, allow the Sample Stick to gravity drain the fuel. Once the stick has been drained, a solution of warm, soapy water should be used to flush the stick a few times until clean.

NOTE: The tube of the Sample Stick is made of a clear acrylic material. The Sample Stick should not be used for gasoline.

OPTIONAL FILTERS

NOTE: Extra replacement filters are available from the IPA® #FIL-00001A (individual filter) or #FIL-17WB6 (6-pack).

Limited Two-Year Warranty

#9049M/#9049S

FLEET TANK SWEEPER®

Innovative Products of America® Incorporated has established a Limited Two-Year Warranty Policy for the **#9049M/9049S Fleet Tank Sweeper®**, not including any wearable parts, i.e., clips, etc.

Two-Year Limited Warranty/Return or Replace Policy: The product is covered for two years from the date of the original user's purchase under the stipulations of the Standard Warranty.

The product is warranted to be free from defects in workmanship or material. If there is a problem due to workmanship or material defect, Innovative Products of America® will repair or replace the product within 24-working hours after it is received by the IPA® Repair Service Center. If it is determined that the product has been tampered with or altered in any way, the warranty is void and all claims against the product will not be honored. The Warranty Repair/Return procedures require that the proof of purchase must be established (either by warranty card from the seller or by point of purchase receipt/invoice) and the manufacturer makes every attempt to return ship the product, prepaid freight, within three business days from the receipt of the returned product.

If it has been determined that the tool has been damaged due to misuse, Innovative Products of America® Incorporated will repair the tool at a cost we deem reasonable and these charges will be the responsibility of the user. We truly want you to be happy with our products, so if you have any questions, call us toll free at 888-786-7899.



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