Limited Two-Year Warranty

#9070/9070A
DIESEL EXHAUST FLUID (DEF) TRANSFER SYSTEMS

Innovative Products of America® Incorporated has established a Limited Two-Year Warranty Policy for the DEF Transfer Systems.

Two-Year Limited Warranty/Return or Replace Policy: The product is covered for two years from the date of original user 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. In the event 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 within three business days from the receipt of the returned product, freight prepaid.

If it has been determined that the tool has been damaged due to misuse, Innovative Products of America® I 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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LETTER FROM THE PRESIDENT OF IPA®

My name is Peter Vinci and I would like to thank you for your interest in our products. 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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Related Products

#9071 DEF Recovery Wand Kit
5’ flexible wand with quick disconnect fittings designed to reach the bottom of DEF tanks. (Optional accessory for #9070/9070A units)

Fuel Transfer & Filtration

#9046M Fleet Tank Sweeper®
(120V AC)
A compact, portable fuel transfer and filtration system with input and output hoses along with special attachments for accessing saddle tanks and 55-gallon drums.

#9046F Pneumatic Tank Sweeper®
A complete turnkey solution for servicing contaminated fuel oil systems - quickly filters, polishes and transfers.

#DTP20C 12V Industrial Fuel Cleaner and Transfer System
A DC-powered mobile fuel transfer system that provides efficient and accurate diesel fuel transfer and filtration in a highly mobile package.

Related Products
#9070/9070A DIESEL EXHAUST FLUID (DEF) TRANSFER SYSTEM SERIES PARTS

**Fig. 1 - Parts Diagram**

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### PROBLEMS AND SOLUTIONS

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
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</thead>
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<tr>
<td>LCD: no indication</td>
<td>Bad battery contact</td>
<td>Check battery contacts</td>
</tr>
<tr>
<td>Imprecise measurement</td>
<td>Wrong factor</td>
<td>Contact manufacturer</td>
</tr>
<tr>
<td>Reduced or zero flow rate</td>
<td>The meter is working below minimum acceptable flow rate</td>
<td>Increase the flow rate until an acceptable flow rate range has been achieved</td>
</tr>
<tr>
<td>Turbine blocked</td>
<td>Clean the turbine</td>
<td></td>
</tr>
<tr>
<td>The meter does not count, but the flow rate is correct</td>
<td>Incorrect installation of gears after cleaning</td>
<td>Repeat the reassembly process</td>
</tr>
<tr>
<td>Possible electronic card problems</td>
<td>Contact manufacturer</td>
<td></td>
</tr>
<tr>
<td>Motor is not turning</td>
<td>Lack of electric power</td>
<td>Check the electrical connection</td>
</tr>
<tr>
<td>The motor turns slowly when starting</td>
<td>Motor problems</td>
<td>Contact manufacturer</td>
</tr>
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### DEF Transfer System Selection Chart

**FEATURES**
- #9070
- #9070-12
- #9070-20
- #9070A
- #9070A-12
- #9070A-20

| 120V AC Pump | ✓ | ✓ | ✓ | ✓ | ✓ |
| Tote Hanging Design | ✓ | ✓ | ✓ | ✓ | ✓ |
| Digital Flow Meter | ✓ | ✓ | ✓ | ✓ | ✓ |
| Manual Transfer Nozzle | ✓ | ✓ | ✓ | ✓ | ✓ |
| Auto Shut-Off Nozzle | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8' Black Output | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12' Black Output | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20' Black Output | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6' Clear Intake | ✓ | ✓ | ✓ | ✓ | ✓ |
IMPORTANT SAFETY INSTRUCTIONS

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

DANGER
Indicates a hazardous situation that 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 that 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 that 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 EYE HAZARD: Wear OSHA approved safety glasses.

POTENTIAL SKIN IRRITATION/BURN HAZARD: Wear protective gloves.

POTENTIAL ELECTRIC HAZARD: Electrical energy can cause heat and burn hazards.

OPERATING CONDITIONS

ENVIRONMENTAL CONDITIONS
Temperature: Min. -10°C (14°F) / Max. +60°C (140°F)
Relative Humidity: Max. 90%

ATTENTION! The temperature limits shown apply to the pump components and must be respected to avoid possible damage or malfunction.

ELECTRICAL POWER SUPPLY
The pump must be supplied by a single-phase alternating current line (120V AC at 60 Hz). The maximum acceptable variations from the electrical parameters are:
Voltage: +/-5% of the nominal value; Frequency: +/-2% of the nominal value.

ATTENTION: Power from lines with values outside the indicated limits can damage the electrical components.

DAILY USE
• If using flexible tubing, attach the ends of the tubing to the tanks. In the absence of an appropriate slot, solidly grasp the delivery tube before beginning to dispense.
• Before starting the pump, make sure that the nozzle is closed (dispensing nozzle or line valve).
• Turn the ON/OFF switch to ON. The bypass valve allows functioning with the nozzle closed only for brief periods.
• Open the nozzle, solidly grasping the end of the tubing.
• Close the nozzle to stop dispensing.
• When dispensing is finished, turn off the pump.

ATTENTION: Function with the delivery valve closed is only allowed for brief periods (2-3 minutes maximum). After using, make sure the pump is turned off.

MAINTENANCE
All models are designed and constructed to require minimum maintenance. Always bear in mind the following basic recommendations to ensure proper performance:
• On a weekly basis, check that the tubing joints have not loosened to avoid any leakage.
• On a weekly basis, check and keep clean the line suction filter.
• On a monthly basis, check the pump body and keep it clean of any impurities.
• On a monthly basis, check that the electric power supply cables are in good condition.

DISPOSING OF CONTAMINATED MATERIALS
In the event of maintenance or demolition of the machine, do not disperse contaminated parts into the environment. Refer to local regulations for their proper disposal.
CHANGING UNIT OF MEASUREMENT

RESET THE PRESENT TOTAL (Fig. 3)
1) When the meter is on standby, press the RESET key.
2) The display shows all the segments.
3) The meter resets the present total.

![Display showing resets present total](Fig. 3)

UNIT MEASUREMENT CHANGE (Fig. 4)
Press MENU and RESET together and hold for five seconds. Zone 7 on the display shows the current unit. Press RESET to choose a different measurement unit and then press MENU to confirm.

![Display showing unit measurement change](Fig. 4)

RESET THE REGISTER TOTAL (Fig. 5)
When the meter is on standby, press the RESET key for two seconds to reset the register total.

![Display showing reset register total](Fig. 5)

CALIBRATION
If you suspect that the meter calibration is incorrect, please contact technical support for detailed calibration instructions at 888-786-7899, or e-mail tech247@ipatools.com.

WORKING CYCLE
The pump is designed for continuous use under maximum back pressure.

ATTENTION: Functioning under bypass conditions is only allowed for brief periods of time (2-3 minutes maximum).

FLUIDS PERMITTED
- Chemical products: diesel exhaust fluid, urea, weak acid and weak alkaline fluid, etc
- Water
- Not for use with gasoline or other highly volatile fluids.

WARNING: For use with permitted fluids only. Do not use to transfer any hard contaminants such as rocks, leaves, etc. This can damage the pump and void the warranty.

WARNING: Do not operate with caps installed or bodily injury can result.

SPECIFICATIONS

Pump Type: Rotary Diaphragm
Pump Req: 120V AC (6.5 Amp)
Flow Rate: 9 gpm
Input: ¾" Dia., 6' Long
Output: ¾" Dia., 8' Long - 9070/9070A
- 12' Long - 9070-12/9070A-12
- 20' Long - 9070-20/9070A-20
Nozzle Type: Manual (9070 units)
- Automatic Shut-Off (9070A units)
Meter: Digital
Meter Req.: CR2 Lithium Battery (Included)
Hanging Bracket: Steel Construction
Weight: 15 lbs.

INSTALLATION
PRELIMINARY INSPECTION
- Check for any damage on the machine that may have occurred during transport.
- Clean the input and output openings, removing any dust or residual packing material.
- Make sure that the motor shaft turns freely.
- Check that the electrical specifications correspond to those shown on the identification plate.
ATTENTION: THE MOTORS ARE NOT OF AN ANTI-EXPLOSIVE TYPE. Do not install them where flammable vapors may be present.

CONNECTING
To ensure a leak free connection, please follow these directions:
Step 1: Disassemble barb fitting, removing barb fitting from lock nut.
Step 2: Lubricate O-ring on barb fitting with dielectric grease to ease installation.
Step 3: Re-install barb fitting into female fitting.
Step 4: Secure with locking nut, turning clockwise until hand tight.
Step 5: Install output hose to barb fitting using hose clamp (ensure even cut end on hose).

DISPENSING
After installation of the pump system is complete, connect the power supply and start dispensing.
ATTENTION: It is the installer's responsibility to use tubing with adequate characteristics. Loosening of the connections (threaded connections, flanging, gasket seals) can cause serious ecological and safety problems. Check all the connections after the initial installation and continue to check them on a daily basis. Tighten the connections if necessary.

DAILY USE
• If using flexible tubing, attach the ends of the tubing to the tanks. In the absence of an appropriate slot, solidly grasp the delivery tube before beginning to dispense.
• Before starting the pump, make sure that the nozzle is closed (dispensing nozzle or line valve).
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ATTENTION: Function with the delivery valve closed is only allowed for brief periods (2-3 minutes maximum). After using, make sure the pump is turned off.

HOW TO USE THE METER

INTRODUCTION
Only low viscosity liquids are compatible with the turbine digital meter, namely: diesel exhaust fluid, water/urea solution.
Use of other fluids may cause inaccurate measurements and can damage the meter.
Flow Rate: 3-26 gpm. Flow rates outside of this range may be incorrect.

LCD DISPLAY
The LCD meter features two numerical registers and various indications displayed to the user only when the applicable function requires.

BATTERY REPLACEMENT
To replace battery, open the cover, remove the plug and replace the battery.

KEY (Fig.2)
1. Partial register (four figures with moving comma from 0.1 to 99999) indicates the volume dispensed since the reset button was last pressed.
2. Indication of battery charge.
3. Indication of calibration mode.
4. Indication of resetting present total to zero.
5. Total register.
6. Indication of flow rate mode.
7. Indication of unit of measurement.

USER BUTTONS
The turbine digital meter features two buttons: MENU and RESET. Individually they perform two main functions and together, other secondary functions. The main functions performed are:
RESET: Resetting the partial register and table total.
MENU: Entering instrument calibration mode.
Used together, the two keys permit entering configuration mode.