



TRANSFER PUMP

INSTRUCTION AND OPERATING MANUAL



Specifications

Power Supply Requirements	115 VAC, 60 Hz
AMP Rating	7 Amps
Temperature Rating	32°F to 95°F
Discharge	3/4 in.
Suction	3/4 in.

MODEL MLFS22802

IMPORTANT!

READ ALL INSTRUCTIONS CONTAINED IN THIS MANUAL
BEFORE USING THIS PRODUCT.

Save these instructions for future reference. Failure to read and follow the warnings and instructions within this instruction manual could result in property damage, serious injury or death.



SAFETY FIRST!

This instruction manual contains very important information for you to know and understand. This information is provided for your safety and to help prevent equipment problems from occurring. Please observe all safety information labeled danger, warning, caution, and notice.



WARNING

WARNING INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH, SERIOUS INJURY OR MAJOR PROPERTY DAMAGE.

RISK OF ELECTRIC SHOCK. TO REDUCE THIS RISK, OBSERVE THE FOLLOWING WARNINGS:

- WARNING!** To reduce the risk of electrical shock, this system must be properly grounded in accordance with the National Electric Code (NEC) and all applicable state and local codes and ordinances. The receptacle should be protected with a Ground Fault Circuit Interrupter (GFCI).
- WARNING!** To reduce the risk of electrical shock, always disconnect the pump / system from the power source BEFORE handling or servicing.
- WARNING!** Never remove the ground prong from the plug, or use an adapter that eliminates the ground prong.
- WARNING!** Never plug this pump into an electric outlet while standing on a wet surface.
- WARNING!** Cables should be protected at all times to avoid punctures, cuts and abrasions that may result in exposed wiring. Never handle connected power cords with wet hands.
- WARNING!** This pump has not been investigated for use in or around swimming pools, marine areas, recreational water installations, decorative fountains or any installation where human contact with the pumped fluid is common.
- WARNING!** Do not use an extension cord. Extension cords could present a safety hazard if not properly sized, become damaged or the connection falls into contact with water.



RISK OF EXPLOSION. TO REDUCE THIS RISK, OBSERVE THE FOLLOWING WARNINGS:

- WARNING!** Do not use to pump flammable or explosive liquids such as gasoline, fuel oil, kerosene, etc.
- WARNING!** Do not use in a flammable or explosive atmosphere.



CAUTION

CAUTION INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, MAY RESULT IN MINOR INJURY OR PROPERTY DAMAGE.

TO REDUCE THE RISK OF HAZARDS THAT CAN CAUSE INJURY OR PROPERTY DAMAGE, OBSERVE THE FOLLOWING WARNINGS:

- CAUTION!** Do not install the pump if it has been damaged in any way.
- CAUTION!** Do not carry or lift the pump by the power cord. Use the pump's lifting handle.
- CAUTION!** Do not submerge the pump in water.



PERFORMANCE

MODEL	HP	GPH of Water @ Discharge Pressure					Max. PSI
		0 PSI	10 PSI	20 PSI	30 PSI	40 PSI	
MLFS22802	1/2	1500	1100	900	650	360	50

INSTALLATION

1. Attach plastic pipe or reinforced heavy-duty hose to the INLET on the pump. Make sure the Inlet connection is airtight.

NOTE: Regular garden hose should not be used on the pump Inlet. It will collapse when the pump runs.

2. Attach a standard 3/4" garden hose to the OUTLET on the pump. Keep the total length of hose as short as possible for best performance. Secure the hose to keep it from moving around.

3. Remove priming plug from the top of the pump.

4. Fill pump housing with clean water. Reinstall plug. **DO NOT RUN DRY.**

NOTE: Do not pump sand or other abrasives as this will damage the shaft seal or impeller and void the warranty.

5. For normal water transfer applications, plug in power cord to grounded outlet. The pump will prime in a few minutes, depending on suction line length.

6. If the pump does not pump water after two minutes, unplug the pump and repeat steps 3 through 5. **DO NOT RUN DRY.**

CARBON BRUSH MAINTENANCE

The carbon brushes may require maintenance when the motor performance of the pump decreases or stops working completely.

To maintain the brushes:

1. Remove the carbon brushes from the housing. Take note of the orientation of the brushes when removing to prevent needless wear if they are reinstalled.
2. If either carbon brush is worn down by more than 1/2", replace BOTH carbon brushes.
3. To clean old carbon brushes before reusing them, rub the contact areas with a pencil eraser.
4. Reinsert the carbon brushes in the same orientation to reduce wear.
5. When installing the carbon brushes, make sure the carbon portions contact the motor armature and that the springs are facing away from the motor. Also, ensure the springs operate freely.

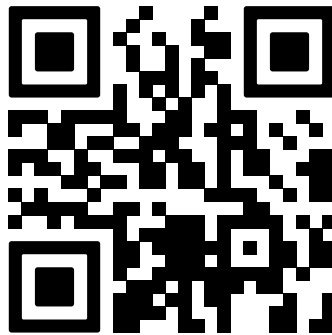
Note: New carbon brushes tend to spark when first used until they wear and conform to the motor armature.

TROUBLESHOOTING

PROBLEM	POTENTIAL CAUSE	POSSIBLE SOLUTION
Pump will not begin pumping or retain prime after operating, or stops pumping water.	<ol style="list-style-type: none"> 1. Air leak in suction line. 2. Fittings are not tight. 3. Hose is kinked or looped. 4. Inlet hose is out of the water 5. Clogged inlet. 6. Inlet lift too high. 7. Impeller blocked. 8. Worn seal. 9. Collapsed inlet hose. 	<ol style="list-style-type: none"> 1. Repair or replace suction line. Make sure fittings are air tight and use thread sealant tape if necessary. 2. Tighten fittings air tight, using thread sealant tape if necessary. 3. Inspect hose and straighten if needed. 4. Submerge inlet hose end. 5. Clean inlet. 6. Lower pump. 7. Remove blockage. 8. Replace seal. 9. Replace with reinforced hose
Pump will not start or run.	<ol style="list-style-type: none"> 1. Blown fuse or circuit breaker. 2. Low line voltage. 3. Impeller blocked. 4. Defective motor. 	<ol style="list-style-type: none"> 1. If blown, replace with proper sized fuse or reset breaker. 2. If voltage is under 104 volts, check wiring size. 3. Remove blockage. 4. Replace pump.
Flow rate is too low.	<ol style="list-style-type: none"> 1. Piping or hose is kinked or damaged. 2. Low line voltage. 3. Too much discharge hose friction. 	<ol style="list-style-type: none"> 1. Clean or replace piping or hose. 2. If voltage is under 104 volts, check wiring size. 3. Shorten and/or increase the diameter of the discharge hose.
Seal leaks	<ol style="list-style-type: none"> 1. Worn seal. 2. Pump head is loose on motor. 	<ol style="list-style-type: none"> 1. Replace seal. 2. Ensure proper assembly and check for obstructions. Tighten bolts.
The pump stops during work	<ol style="list-style-type: none"> 1. Insufficient water source leads to no-load protection 2. The impeller is locked by debris 	<ol style="list-style-type: none"> 1. Check the water source and restart the pump according to the operation steps 2. Remove the pump body and clean up the debris

TERMS AND CONDITIONS OF SALE

Orders for this product are expressly made conditional on buyer's assent to company's terms and conditions of sale, which can be found by scanning the QR code below, or are available upon request by mail. Any terms and conditions in any of buyer's documents that are inconsistent with or add to seller's terms and conditions of sale are hereby rejected and are not binding upon company.



Installed by:

Model:

Date of Installation:

Serial Number:



MAINLINE

FLOODSTOP®

Preferred by the pros.



500 Distribution Parkway
Collierville, TN 38017
Phone: 800-888-8312
Fax: 901-853-5008
www.ipscorp.com

Warranty

See warranty information for more details.

All dimensions listed are nominal. MAINLINE® reserves the right to make product and material changes at any time without notice.





WARRANTY INFORMATION

Mainline products will be covered by IPS Diversified Products Group (“Seller”)’s limited warranty. It is as follows:

Warranty. For a period of one year from the date of shipment**, and provided payments for the products have been made by Buyer to Seller, Seller warrants to Buyer that its products: (i) substantially conform to Seller’s published specifications and (ii) are free from defects in material or workmanship. Product performance is limited by the capability of the structure and/or system it is installed in. If a warranted product fails to conform to these warranties, Buyer must promptly notify Seller in writing. For a valid warranty claim, Seller will, at its discretion and at no product charge to the Buyer: (i) repair the product; (ii) replace the product; or (iii) offer a full refund of that portion of the purchase price allocable to the non-conforming product. Warranty repair or replacement by Seller will not extend or renew the applicable warranty period. Buyer will obtain Seller's agreement on the specifications of any tests it plans to conduct to determine whether a product non-conformance exists. Buyer will bear the costs of access for Seller's remedial warranty efforts (including removal and replacement of systems, structures or other parts of Buyer's facility), de-installation, decontamination and re-installation. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. This warranty allocates the risks of product failure between Seller and Buyer. This allocation is recognized by both parties and is reflected in the price of the products. Buyer acknowledges that it has read this warranty, understands it, and agrees to and is bound by its terms.

**The products listed below have different warranty periods. All other terms of the Limited Warranty set forth herein apply to these products, just the duration of the warranty is different. Duration of the warranty begins at date of shipment.

Studor Products: 3 years

Water-Tite Roofing Products: Life of the current roof system

Roof Top Blox: 20 years

Test-Tite Pneumatics: 2.5 years

AB&A: 6 months

FloodStop Pumps and Smart Accessories: 3 years

What is Not Covered by Warranty. No representative of Seller has authority to waive, alter, vary or add to the scope of the warranty without prior written approval of an officer of Seller. Seller’s warranty does not apply to: (i) products impacted by adverse water conditions, extreme weather or temperatures, or other natural conditions; (ii) improper or unauthorized repair, installation or maintenance of the products by a party other than Seller; (iii) use for purposes or under conditions other than those for which designed, or other abuse, negligence, misuse, unauthorized access, or normal wear and tear; (iv) unauthorized attachments, modifications or disassembly; (v) damage during shipping; or (vi) products purchased from unauthorized distributors, resellers or internet sites. Buyer’s care in selection, adequate testing at time of installation and proper installation, operation and maintenance of all products is required for adequate performance.





Limitations of Liability. NOTWITHSTANDING ANY PROVISION OF THIS CONTRACT OR THE LAW, IT IS EXPRESSLY AGREED THAT SELLER'S TOTAL LIABILITY FOR ANY DAMAGES, COSTS OR EXPENSES ARISING OUT OF OR RELATED TO THIS CONTRACT OR ITS PRODUCTS, WHETHER BASED IN CONTRACT, WARRANTY, INDEMNITY, TORT/EXTRA-CONTRACTUAL LIABILITY (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE, IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AS APPLICABLE, OR, AT SELLER'S OPTION, A RETURN OF AN AMOUNT THAT WILL NOT EXCEED THE PURCHASE PRICE. UNDER NO CIRCUMSTANCES WILL SELLER, ITS OFFICERS, DIRECTORS, EMPLOYEES OR ASSIGNS BE LIABLE FOR ANY OTHER REMEDY, LOSS, COST, DAMAGE OR EXPENSE WHETHER DIRECT OR INDIRECT. IN NO EVENT WHATSOEVER WILL SELLER BE LIABLE FOR ANY CONSEQUENTIAL, LIQUIDATED, EXEMPLARY OR PUNITIVE DAMAGES, INCLUDING BUT NOT LIMITED TO, LOSS OF USE, INCOME, PROFIT, OR PRODUCTION; INCREASED COST OF OPERATION; SPOILAGE OR DAMAGE TO MATERIAL OR DATA; OR CHANGE OUT COSTS. BUYER WILL INDEMNIFY, DEFEND AND HOLD SELLER HARMLESS FROM ANY LOSS, COST, EXPENSE, DAMAGE, OR CAUSE OF ACTION TO OR BY A THIRD PARTY THAT EXCEEDS THESE LIMITATIONS OF LIABILITY.

**Effective July 1, 2023, due to an update in California law, the start date for product warranties will now be aligned with the date of delivery of the product. This change is for all Mainline products purchased on or after July 1, 2023 by California consumers. (California Legislative Information AB-2912)*

