

# XM<sup>TM</sup> PFP Hot Water Flush Kit

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EN

**For flushing the XM PFP system with hot water. For professional use only.**

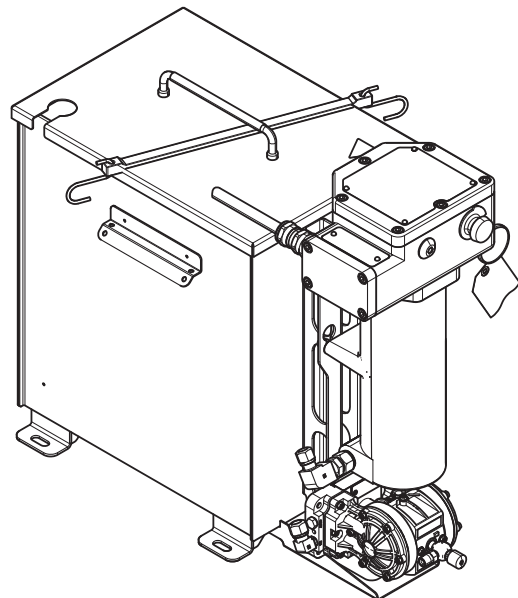
*100 psi (0.7 MPa, 7 bar) Maximum Inlet Water Pressure to Float Valve  
180°F (82°C) Maximum Outlet Fluid Temperature*



## **Important Safety Instructions**

Read all warnings and instructions in this manual and the XM PFP Operation manual. Save all instructions.

See Models, page 2 for more information.



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## Related Manuals

| Manual | Description   |
|--------|---|
| 3A2776 | XM PFP Operation  |
| 3A2989 | XM PFP Repair-Parts   |
| 308652 | Husky™ 205 Air-Operated Diaphragm Pumps, Instructions-Parts |
| 309524 | Viscon® HP Heater, Instructions-Parts                       |

## Models

| Part No. | Description                                |
|----------|--|
| 24X113   | Hazardous Location Hot Water Flush Kit     |
| 24Y132   | Non Hazardous Location Hot Water Flush Kit |

# Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

## WARNING



### FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in **work area** can ignite or explode. Paint or solvent flowing through the equipment can cause static sparking. To help prevent fire and explosion:

- Use equipment only in well ventilated area.
- Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static sparking).
- Ground all equipment in the work area. See **Grounding** instructions.
- Never spray or flush solvent at high pressure.
- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- Use only grounded hoses.
- Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they are anti-static or conductive.
- **Stop operation immediately** if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.



### ELECTRIC SHOCK HAZARD

This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.

- Turn off and disconnect power at main switch before disconnecting any cables and before servicing or installing equipment.
- Connect only to grounded power source.
- All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.



### SKIN INJECTION HAZARD

High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**

- Do not spray without tip guard and trigger guard installed.
- Engage trigger lock when not spraying.
- Do not point gun at anyone or at any part of the body.
- Do not put your hand over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow the **Pressure Relief Procedure** when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses and couplings daily. Replace worn or damaged parts immediately.

# ! WARNING



## BURN HAZARD

Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns:

- Do not touch hot fluid or equipment.



## EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request Safety Data Sheet (SDS) from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure.
- Turn off all equipment and follow the **Pressure Relief Procedure** when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



## PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

- Protective eyewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer

# Component Identification

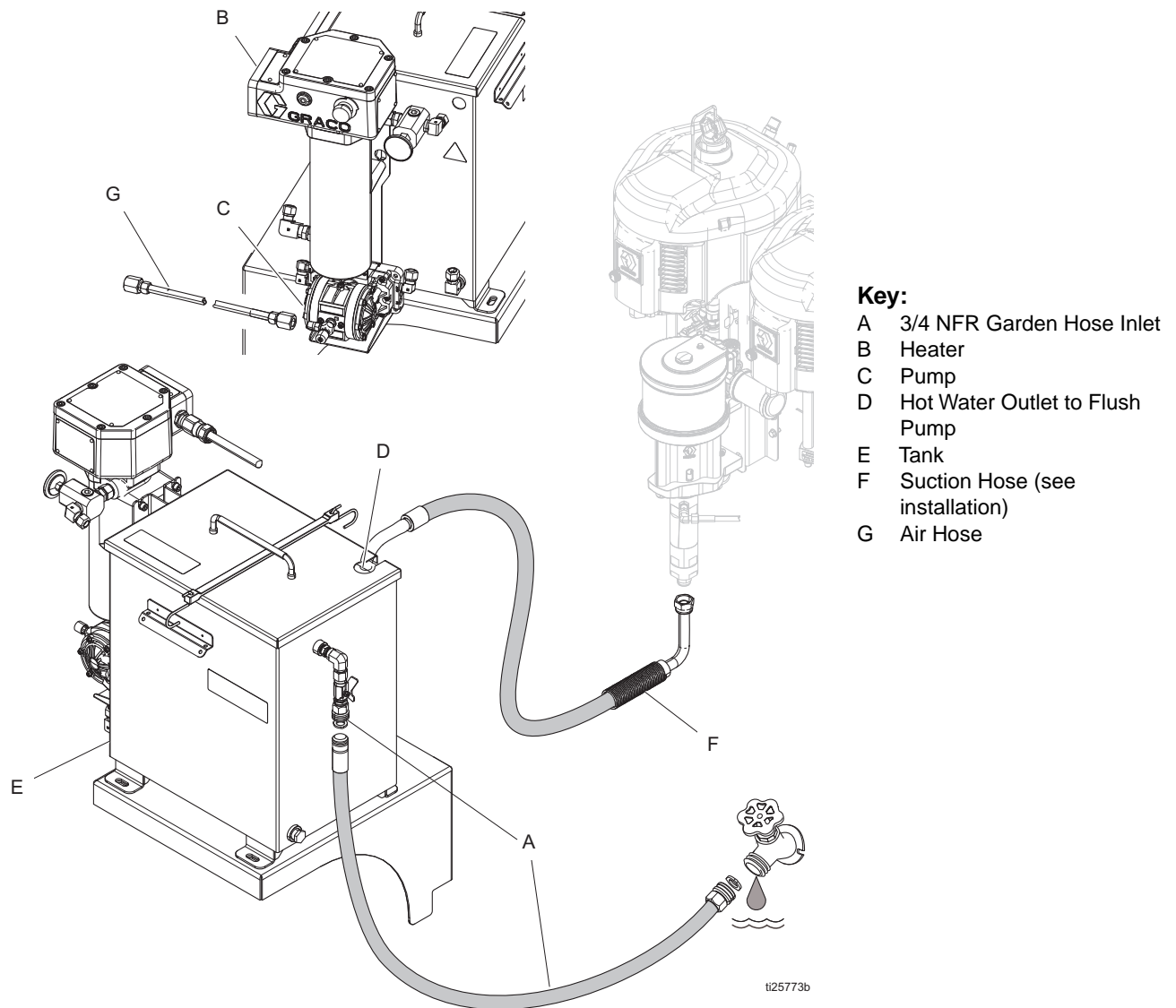
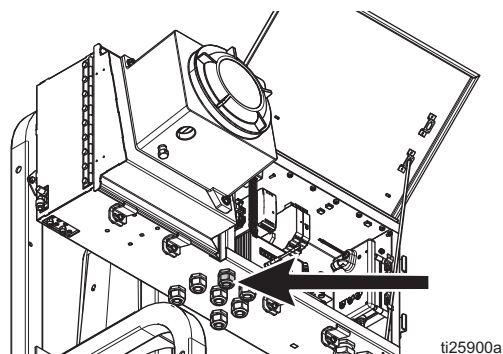


FIG. 1

## Hazardous Location XM PFP



## Non-Hazardous Location XM PFP

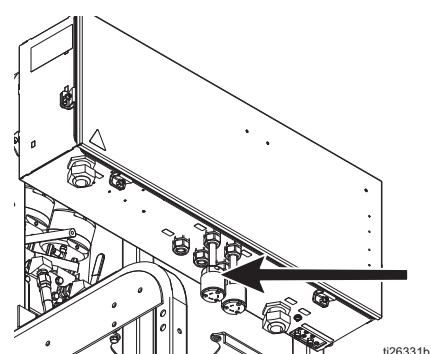
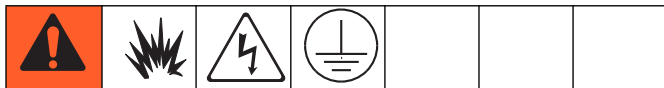


FIG. 2: Heater Power Cable

# Installation



The equipment must be grounded to reduce the risk of static sparking and electric shock. Electric or static sparking can cause fumes to ignite or explode. Improper grounding can cause electric shock. Grounding provides an escape wire for the electric current.

## Optional Location 1

See FIG. 1 on page 5 and FIG. 3.

1. Use four bolts (4) to install the bracket (2) onto the system frame.

2. Use four bolts and nuts (4, 5) to install tank (1) onto bracket (2).
3. Follow **Connect Air Supply**, page 8. Connect air hose (8) to circulation pump (53) and diaphragm pump (P) on the PFP system.
4. Connect suction hose (F) to the flush pump and insert in the hot water flush tank.
5. Connect heater power cable.
  - a. *Model 24Y132:* With the heater ON/OFF toggle switch (H) OFF, connect power cable to the corded receptacle hanging below the junction box on the XM PFP sprayer.
  - b. *Model 24X113:* With the heater ON/OFF toggle switch (H) OFF, route the heater power cable through the Flush Heater cord grip. See FIG. 2, page 5. See system manual for power connection.

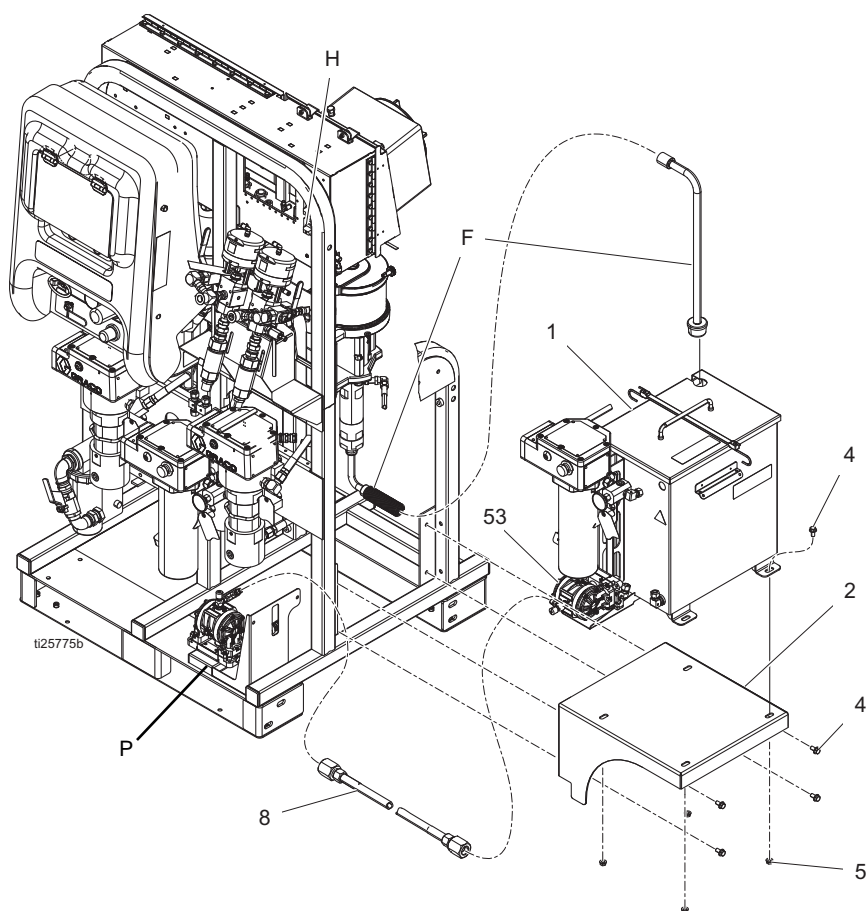
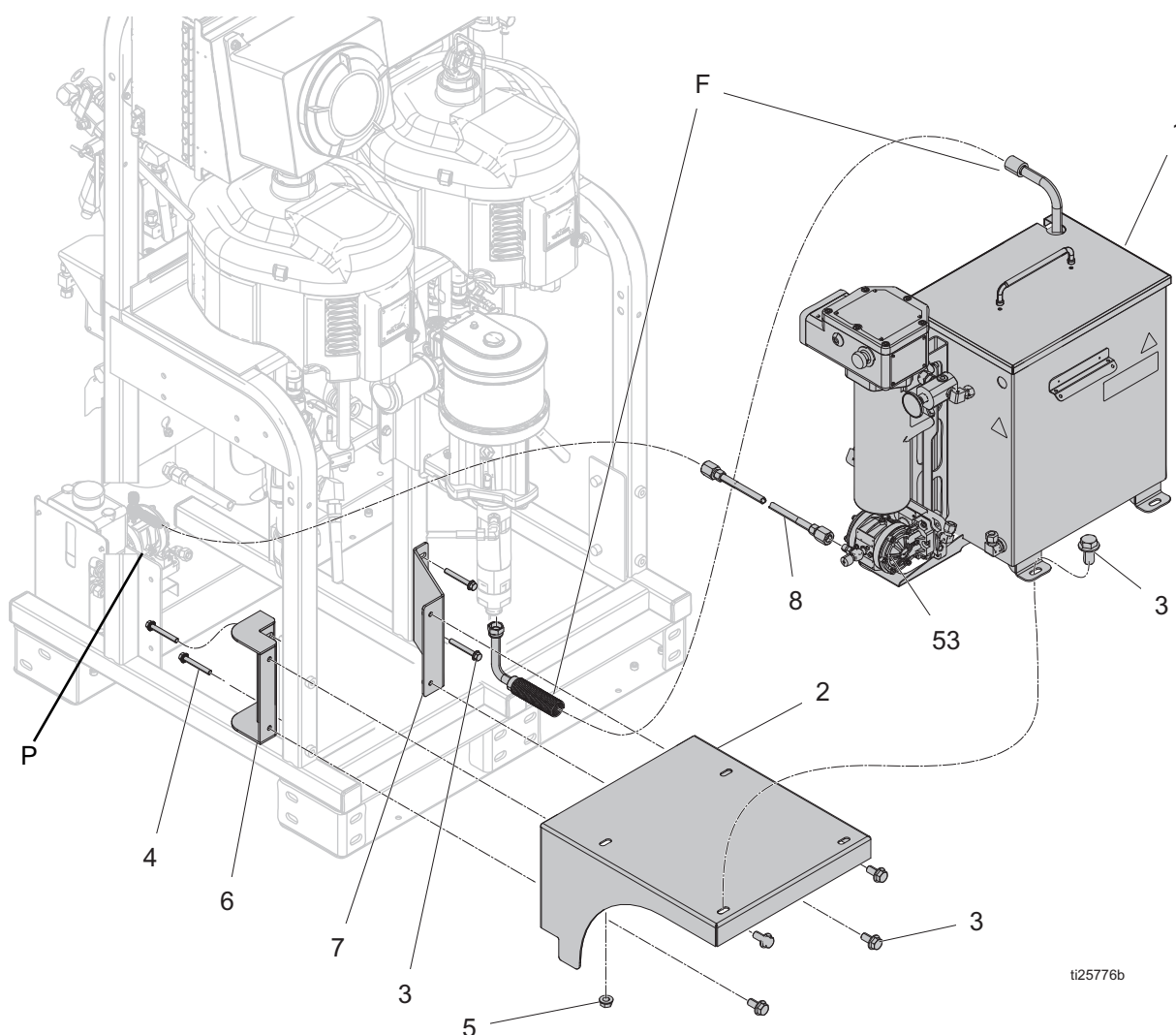


FIG. 3: Optional Location 1

## Optional Location 2

See FIG. 1 on page 5 and FIG. 4 on page 7.

1. Use four bolts (4) to connect the three bracket pieces (2, 6, 7).
2. Use four bolts (4) to install the bracket assembly (2) onto system frame.
3. Use four bolts and nuts (4, 5) to install tank (1) onto bracket assembly (2).
4. Follow **Connect Air Supply**, page 8.
5. Connect suction hose (F) to the flush pump and insert in the hot water flush tank.
6. Connect heater power cable.
  - a. *Model 24Y132*: Connect With the heater ON/OFF toggle switch (H) OFF, connect power cable to the corded receptacle hanging below the junction box on the XM PFP sprayer.
  - b. *Model 24X113*: With the heater ON/OFF toggle switch (H) OFF, route the heater power cable through the Flush Heater cord grip. See FIG. 2, page 5. See system manual for power connection.



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**FIG. 4: Optional Location 2**

# Connect Air Supply

1. Disconnect air supply (AS) from Heated Fluid Circulation Pump (P) for hose bundle.
2. *For Model 24Y132:* install the tee (9), nipple (10). The cap (11) is not used.

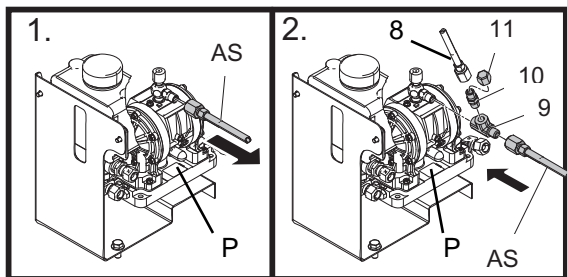
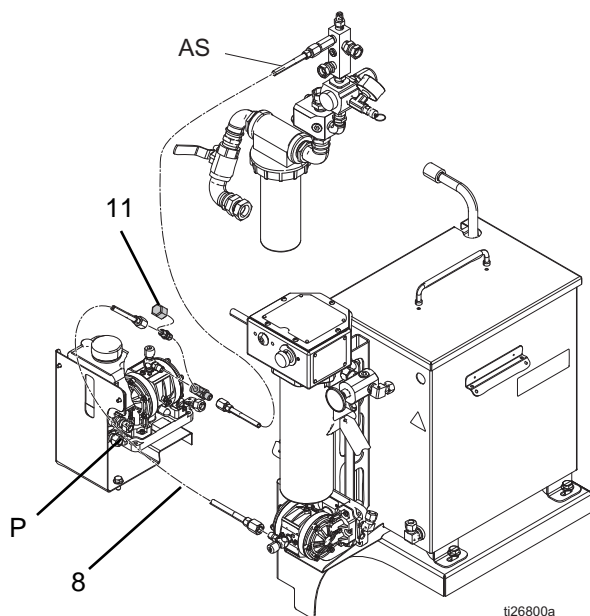


FIG. 5:

3. *For Model 24X113:*
  - a. Remove cap (11).
4. Connect air hose (8) to circulation pump (53) and diaphragm pump (P) on the PFP system. See FIG. 3 on page 6 or FIG. 4 on page 7.

5. Connect the air hose (8) to the nipple fitting (10). See #2 in FIG. 5. Connect the air hose (8) to the hot water circulation pump (53).

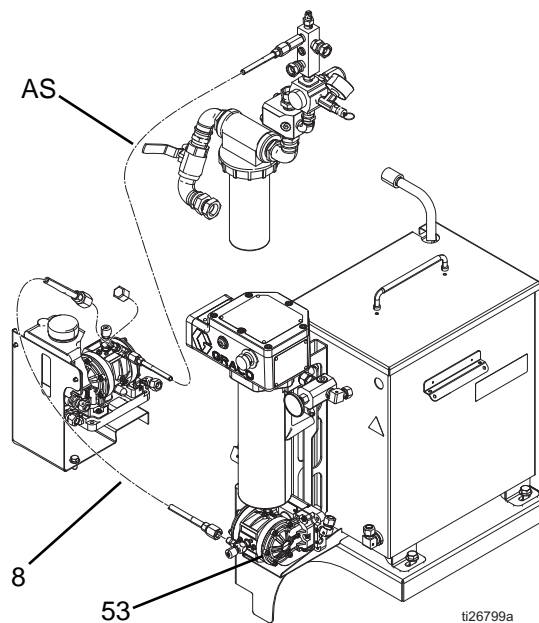








FIG. 6:

# Connect Water Supply

1. Connect garden hose to a water supply and the water inlet (A). See FIG. 1, page 5.



# Priming the Heater

|  |   |   |   |   |   |
|--|---|---|---|---|---|
|   |  |  |  |  |  |
| <p>Equipment surfaces and fluid that is heated can become very hot during operation. To avoid burns and fire and explosions:</p> <ul style="list-style-type: none"> <li>• Do not touch hot fluid or equipment.</li> <li>• Only use water.</li> </ul> |   |   |   |   |   |

## NOTICE

To prevent damaging the heater element, never turn on the heater without it completely filled with water.

1. Turn on water supply.
2. Loosen needle valve on diaphragm pump to pump water through the heater.
3. Turn the heated water flush switch on the XM PFP sprayer to the ON position. The switch is located next to the main power switch above the dosing valves.

## NOTICE

To prevent damage to the diaphragm pump, never turn the heater dial past 9.

4. Use the dial on the heater to set desired temperature. See table.

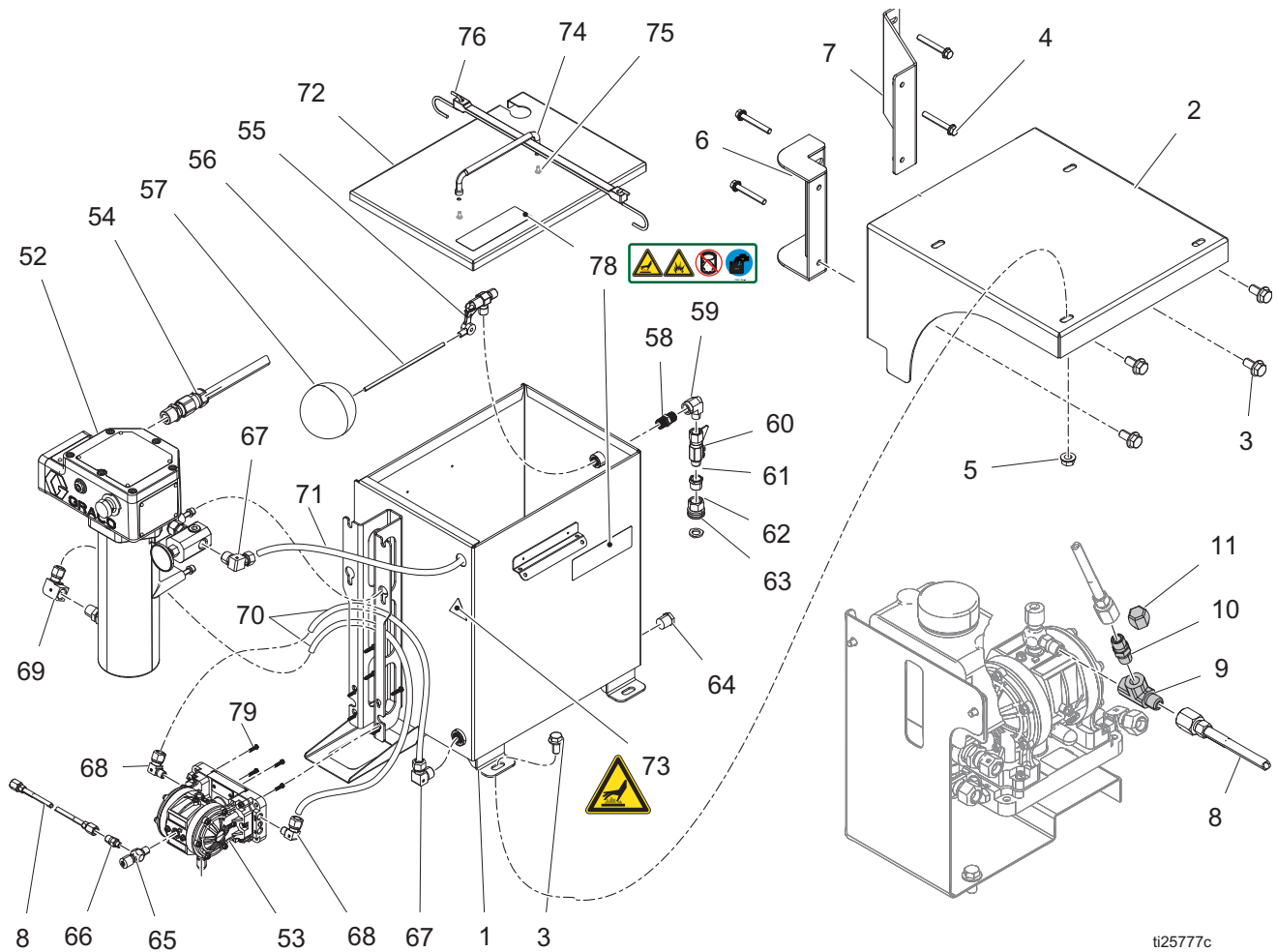
| Heater Dial | Tank Temperature °F(°C) |
|-------------|-------------------------|
| 9           | 180 (82)                |
| 8           | 160 (71)                |
| 7           | 140 (60)                |
| 6           | 120 (48)                |
| 5           | 100 (37)                |

5. Turn on XM PFP flush pump ON to begin running water through the pump.
6. Spray until the water is dispensed from the gun.
7. Continue flushing as necessary.

# Parts

## Hazardous Location Hot Water Flush Kit, 24X113

## Non Hazardous Location Hot Water Flush Kit, 24Y132



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**NOTE:** Use sealant on all pipe threads.

**Hazardous Hot Water Flush Kit, 24X113**  
**Non Hazardous Hot Water Flush Kit, 24Y132**

| Ref   | Part   | Description   | Qty | Ref | Part   | Description                                     | Qty |
|---|--------|---|-----|-----|--------|---|-----|
| 1   | 17B562 | TANK, heated, water                                     | 1   | 52  | 245863 | HEATER (24X113 only)                            | 1   |
| 2   | 17B717 | BRACKET, mount  | 1   |     | 245869 | HEATER (24Y132 only)                            | 1   |
| 3   | 121488 | SCREW, hex head, flanged                                | 4   | 53† | 24P835 | PUMP, Husky                                     | 1   |
| 4   | 112395 | SCREW, cap, flange head                                 | 8   | 54  | 24W679 | CABLE, assembly (24X113 only)                   | 1   |
| 5   | 112958 | NUT, hex, flanged                                       | 4   |     | 17G071 | CABLE, assembly (24Y132 only)                   |     |
| 6   | 256254 | BRACKET, hopper, b-mt                                   | 1   | 55* | 24Y096 | KIT, valve, body, float                         | 1   |
| 7   | 256256 | BRACKET, hopper, b-mt, lower                            | 1   | 56* | ---    | ROD, float, 8 in (203 mm)                       |     |
| 8   | 248208 | HOSE, coupled, 4 ft (1.2 m)                             | 1   | 57* | ---    | FLOAT, round, copper                            |     |
| 9   | 116504 | FITTING, tee, run, 1/4 npt(m) x 1/4 npt(m) x 1/4 npt(f) | 1   | 58  | 156849 | PIPE, nipple                                    | 1   |
| 10  | 156971 | FITTING, nipple, short, 2 x 1/4-18 npt                  | 1   | 59  | 111856 | FITTING, elbow, street                          | 1   |
| 11  | ---    | FITTING, cap, hex 1/4 npt(f)                            |     | 60  | 237534 | VALVE, ball, 316 sst                            | 1   |
| --- Not for sale.   |        |   |     | 61  | 100081 | BUSHING, pipe                                   | 1   |
| ▲ Replacement Danger and Warning labels, tags and cards are available at no cost. |        |   |     | 62  | 16T886 | ADAPTER, 3/4 NFR to 1/2 npt                     | 1   |
|   |        |   |     | 63  | 115099 | WASHER, garden hose                             | 1   |
|   |        |   |     | 64  | 103778 | FITTING, plug, 1/2 npt                          | 1   |
|   |        |   |     | 65  | 206264 | VALVE, needle                                   | 1   |
|   |        |   |     | 66  | 151519 | FITTING, nipple, reducing                       | 1   |
|   |        |   |     | 67  | 126898 | FITTING, elbow, 1/2 tube x 1/2 nptm             | 2   |
|   |        |   |     | 68  | 126897 | FITTING, elbow, 1/2 tube x 1/4 nptm             | 1   |
|   |        |   |     | 69  | 126896 | FITTING, elbow, 1/2 tube x 1/2 nptf             | 1   |
|   |        |   |     | 70  | 054139 | TUBE, nylon 0.375 (9.5 mm) ID; 3 ft (1 m)       |     |
|   |        |   |     | 71  | 054139 | TUBE, nylon 0.375 (9.5 mm) ID; 1 ft (0.3 m)     |     |
|   |        |   |     | 72  | 17B563 | COVER, tank                                     | 1   |
|   |        |   |     | 73▲ | 189285 | LABEL, hot                                      | 1   |
|   |        |   |     | 74  | 117499 | HANDLE, large                                   | 1   |
|   |        |   |     | 75  | 106084 | SCREW, mach, pn hd                              | 2   |
|   |        |   |     | 76  | ---    | STRAP, rubber, 19 in (482.6 mm)                 | 1   |
|   |        |   |     | 77  | 121603 | GRIP, cord (262946 only)                        | 1   |
|   |        |   |     | 78▲ | 17D817 | LABEL, safety, warning, water only              | 2   |
|   |        |   |     | 79  | ---    | SCREW, hex, hi-lo, thread forming, 10-16 x .75" | 4   |

▲ Replacement Danger and Warning labels, tags and cards are available at no cost.

\* Parts included in the Water Rod Float Valve Kit 24Y096.

† Uses pump repair kit D010A1.

## Technical Data

| <b>PFP Hot Water Flush Kit</b>              |   |               |
|---|---|---------------|
|   | <b>US</b>                                   | <b>Metric</b> |
| Maximum Water Inlet Pressure to Float Valve | 100 psi                                     | 7 MPa, 7 bar  |
| Maximum Outlet Fluid Temperature            | 180°F                                       | 82°C          |
| Supply Voltage                              | 220-250 Volts AC, 1 phase                   |               |
| Power                                       | 4000 Watts                                  |               |
| Tank Size                                   | 10 gallon                                   | 37.8 liter    |
| Inlet Fitting                               | 3/4 NHR Garden Hose                         |               |
| Wetted Parts                                | Plated Carbon steel, stainless steel, brass |               |

[illegible]

# Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

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In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

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For patent information, see [www.graco.com/patents](http://www.graco.com/patents).

**TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor.  
Phone: 612-623-6921 or Toll Free: 1-800-328-0211 Fax: 612-378-3505**

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Original instructions. This manual contains English. MM 332073

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