Operation



309535L

ENG

Xtreme Mix[™]

Plural Component Mixer with stand. For professional use only. Not approved for use in explosive atmospheres.



Important Safety Instructions Read all warnings and instructions in this manual. Save these instructions.

See page 3 for model information, including maximum working pressure and approvals.

United States Patent Number: 6,896,152 Chinese Patent Number: ZL02823545.2 Korean Patent Number: 10-0967987 European Patent Numbers: 126418, 145567, 1762138



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Related Documentation

Component Manuals

| Manual | Description |
|-----------|----------------------------------|
| 309518 | Xtreme Mix Repair |
| 311762 | Xtreme Displacement Pump |
| 309347 | King Air Motor |
| or 309348 | King Quiet Air Motor |
| 312145 | XTR Spray Gun |
| 309524 | VISCON HP Heater |
| 309525 | Heated Hose Kit |
| 308981 | Husky 716 Diaphragm Pump |
| 309615 | Heater Bracket Kit |
| 309568 | Remote Manifold Kit |
| 310797 | Remote Mix Manifold |
| 310794 | Remote Mix Proportioning Systems |
| 310863 | Feed and Flush Kits |
| 309827 | Air Supply Kits |

This manual available in following languages:

| Manual | Language | Manual | Language |
|--------|-------------------------|--------|-----------|
| 309535 | English | 309600 | Swedish |
| 309536 | French | 309601 | Chinese |
| 309537 | Brazilian Portuguese | 309602 | Korean |
| 309545 | Spanish | 309603 | Japanese |
| 309596 | German | 310754 | Dutch |
| 309597 | Greek | 310755 | Norwegian |
| 309598 | Italian | 310756 | Danish |
| 309599 | Finnish | | |

Alarm Code Labels:

| Part No. | Languages |
|----------|--|
| 15B843 | Chinese, Finnish, Portuguese, Greek, Swedish, Italian |
| 15B844 | English, Spanish, French, German, Korean, Japanese |

Xtreme Mix Models



Do not install equipment approved only for non-hazardous location in a hazardous area. Substitution of components may impair intrinsic safety. See page 5.

| Approved for Non-hazardous Location | | | | | |
|-------------------------------------|--------|------------------|-------------------------|---|-----------|
| Xtreme Mix Part No. | Series | Pump Part No. | Pump Description | Maximum Working Pressure psi (MPa, bar) | Approvals |
| 233863 | Α | 249274 | 45:1 King | 4500 (31, 310) | |
| 233864 | А | 249275 | 56:1 King | 5600 (38.6, 386) | |
| 233865 | А | 249276 | 68:1 King | 6800 (46.9, 469) | |
| 233866 | А | 249277 | 80:1 King | 7250 (50, 500) | |
| 233867 | А | 249278 | 45:1 Quiet King | 4500 (31, 310) | (6 |
| 233868 | Α | 249279 | 56:1 Quiet King | 5600 (38.6, 386) | |
| 233869 | Α | 249280 | 68:1 Quiet King | 6800 (46.9, 469) | |
| 233870 | А | 249281 | 80:1 Quiet King | 7250 (50, 500) | |
| *248842 | A | 249276 | 68:1 King Remote Mix | 5000 (34.5, 345) | |

*Model 248842 is designed for remote feed pumps and a remote mix manifold. It does not include hoppers, mix manifold, hose, or spray gun. Refer to manual 310794 for application layout.

Model 248842 is limited to 5000 psi (34.5 MPa, 345 bar) for use in "quick set" packages where heated hoses, whip hoses, and spray accessories are limited to 5000 psi (34.5 MPa, 345 bar). If all your downstream components are rated for 7000 psi (48 MPa, 483 bar), you can replace the standard relief valve with relief valve 113498.

Manual Conventions



Warnings in the instructions usually include a symbol indicating the hazard. Read the general **Warnings** section for additional safety information.

CAUTION

CAUTION: a potentially hazardous situation which, if not avoided, may result in property damage or destruction of equipment.

Note

Additional helpful information.

Components A and B

IMPORTANT!

Material supplier s can vary in how they refer to plural component materials.

Be aware that in this manual:

Component A refers to resin or major volume. *Component B* refers to catalyst (curing agent) or minor volume.

Warnings

The following general warnings are related to the safe setup, use, grounding, maintenance, and repair of this equipment. Additional more specific warnings may be found throughout the text of this manual where applicable.

| A Warning | | | | |
|-----------|--|--|--|--|
| | FIRE AND EXPLOSION HAZARD Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. 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 arc). 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. Ground equipment and conductive objects in work area. See Grounding instructions. Use only grounded hoses. Hold gun firmly to side of grounded pail when triggering into pail. If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem. | | | |
| 2 | ELECTRIC SHOCK HAZARD 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 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 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. Do not spray without tip guard and trigger guard installed. Engage trigger lock when not spraying. Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment. | | | |
| | MOVING PARTS HAZARD Moving parts can pinch or amputate fingers and other body parts. Keep clear of moving parts. Do not operate equipment with protective guards or covers removed. Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure in this manual. Disconnect power or air supply. | | | |

| | 🛦 Warning |
|----------------|--|
| | EQUIPMENT MISUSE HAZARD Misuse can cause death or serious injury. 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. Check equipment daily. Repair or replace worn or damaged parts immediately. Do not alter or modify equipment. For professional use only. Use equipment only for its intended purpose. Call your Graco distributor for information. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not kink or overbend hoses or use hoses to pull equipment. Comply with all applicable safety regulations. |
| | 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. Wait until equipment/fluid has cooled completely. |
| ، ر | TOXIC FLUID OR FUMES HAZARD Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed. Read MSDS's to know the specific hazards of the fluids you are using. Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines. |
| | PERSONAL PROTECTIVE EQUIPMENT You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to: Protective eyewear Clothing and respirator as recommended by the fluid and solvent manufacturer Gloves Hearing protection |
| ¥ | RECOIL HAZARD Gun may recoil when triggered and cause you to fall and be seriously injured if you are not standing securely. |

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Overview

Usage

The Xtreme Mix can mix most two-component epoxy and urethane paints. Only Model 248842 is for use with "quick-setting" paints (those with a pot life of less than 15 minutes). Other models cannot be used with such paints without modification. Contact your distributor for information.

The Xtreme Mix is operated with the User Interface, Air Controls and Fluid Controls, described below and on page 9. Refer to Fig. 1 and Fig. 2.

User Interface

The User Interface has 6 main interfaces.

1. Knob to select functions:

| lcon | Function |
|-------------|--|
| \$ ~ | Spray: proportion and spray material |
| Ϋ́ Α | <i>Run pump A:</i> operate pump A independent of pump B (priming, flushing) for 12 cycles |
| В | <i>Run pump B:</i> operate pump B independent of pump A (priming, flushing) for 12 cycles |
| | Batch Dispense: dispense proportioned amounts of A and B |
| 88 | <i>Pump Test:</i> dispense predetermined amount of A and B to verify pump operation and metering |
| | <i>Cycle Counter:</i> totalize A and B pump cycles |

When run independently, A and B light indicators (L) will show which pump is running.



- 3. Stop button 💽 to terminate functions
- 4. **Key switch** to change ratio or reset pump cycle counter
- 5. **Display** (five-digits) to view:
 - Ratio
 - Alarm codes
 - Pump cycles
 - The display includes an alarm code label in English. See page 2 to order additional languages.
- 6. **Data port** allows for connection to a PC serial port to download cycle count, operation, ratio setting, and error alarm data.

WARNING

The PC must be in a non-hazardous location and a safety barrier must be installed between the PC and Xtreme Mix unit. See Xtreme Mix software manual.





Air Controls

- **A.** Main air shutoff valve (bleed-type) to shutoff all air to Xtreme Mix (including controller power)
- **B.** Supply air pressure gauge to monitor air pressure to Xtreme Mix

A minimum air pressure supply of 50 psi (0.35 MPa, 3.5 bar) must be maintained for the Xtreme Mix to operate properly.

- **C.** Pump air pressure regulator with gauge to adjust and monitor pump air pressure
 - Push in regulator knob to lock setting. Be careful when pulling knob out to change setting as knob is removable. To reinstall, push knob to snap into place.



Solenoid Module

There are 4 solenoids inside the controller.



FIG. 3

| Solenoid | ON/OFF for: |
|----------|-------------------------------------|
| 1 | Metering valve A |
| 2 | Metering valve B |
| 3 | Pilot valve A - turns pump A ON/OFF |
| 4 | Pilot valve B - turns pump B ON/OFF |

Fluid Controls

- D. Sampling valves A and B to batch dispense or test pumps
- E. Shutoff valves A and B to shutoff fluid A or B from entering the fluid manifold
 - There are 2 metering valves, one for fluid A (F1) and one for fluid B (F2). The metering valves are turned on and off by solenoids 1 and 2.



Pressure Relief Procedure



1. Engage trigger lock.



2. Press Stop



- **3.** Close main air shutoff valve on air supply line and on unit. Turn off air regulator.
- 4. Close fluid sampling and shutoff valves A and B.



5. Disengage trigger lock.



6. Hold a metal part of the gun firmly to a grounded metal pail. Trigger gun to relieve pressure.



7. Engage trigger lock.



8. Place waste container under sampling valves, then open valves A and B slowly to relieve pressure between pump and metering valves.



9. Close sampling valve A and B.



Proper Lifting of Unit



Follow instructions below to avoid dropping or swinging unit or being struck by the cart handle, which can cause serious injury or damage to equipment.

Either remove the cart handle or secure it to the cart before lifting the unit. Connect a bridle swing, hooking an end to each of the Xtreme Mix air motor rings. Hook the center ring on a hoist. See FIG. 5. Carefully lift the Xtreme Mix unit; make sure it balances evenly.



FIG. 5

Setup



ardous location in a hazardous area. Substitution of components may impair intrinsic safety. Read warnings, page 5. Ground equipment as instructed below.

If connecting PC for data download, PC must be in non-hazardous location and a safety barrier must be installed. See Xtreme Mix software documentation. 1. Grounding: Connect Xtreme Mix ground wire clamp (G) to a true earth ground.



2. Model 248842 Only: This model uses a remote mix manifold, which is connected to the unit by at least 50 ft. (15 m) of individual fluid hoses. Refer to manuals 310794 and 310797 for typical setups.

All Other Models: The 50 ft. (15 m) fluid hose (W), static mixer (X), whip hose (Y), and gun (Z) come assembled. Note the order of connection.

Do not assemble static mixer (X) directly to fluid manifold. Install static mixer after first 50 ft. (15 m) of hose to ensure material is completely mixed. Spraying unmixed material could necessitate rework of part sprayed.



3. Connect the fluid hose (W) to the fluid manifold outlet (J). Do not install gun spray tip yet.



- 4. Tighten all fittings on unit.
- **5.** Fill pumps A and B packing nuts with throat seal liquid (TSL) and torque to 25-30 ft-lb (34-41 N•m). Follow instructions in pump manual.
- Fill metering valves A and B packing nuts (H) with throat seal liquid (TSL) and tighten 1/4 turn after nut contacts packings; about 145-155 in/lbs (16-18 N•m). Check packing nut tightness after first hour of operation, again after 24 hours, then check as needed (when TSL discolors or seeps over packing nut). Also check tightness whenever unit is transported.



- **7.** Connect air supply line to 3/4 npt(f) air filter inlet (F).
 - Air supply requirement: 110 psi (0.8 MPa, 8 bar) maximum, 50 psi (0.35 MPa, 3.5 bar) minimum

Flow volume required: 60 scfm minimum; 250 scfm maximum

Model 248842 is designed to use Air Supply Kit 248827.



8. Turn off air regulator. Open main air shutoff valve. When starting up, display will show "88888", then software revision, then current ratio.



- 9. Setup ratio.
 - **a.** Turn knob to spray
 - **b.** Current ratio displays.
 - C. Turn key to +, hold for 1 second, then turn back to neutral (vertical) to increase ratio by 0.1. Turning key to + increases ratio by increments of 0.1 until key is turned back to neutral (vice versa when key is turned to –).

To decrease ratio, follow same pattern as increasing, only turn key to -.



10. Flush and prime system. See pages 14 and 18. Run **Pump Test**, page 20 to check ratio accuracy.

Flushing

There are times when you only want to flush the fluid manifold, such as:

- breaks in spraying
- overnight shutdown
- end of potlife

In this manual, that procedure is referred to as **Fluid Manifold Flushing**. You can flush the fluid manifold by connecting either a:

- solvent pump to the fluid manifold or
- hose and solvent siphon tube to pump A

Other times, you need to flush the entire system:

- first time material is loaded into equipment*
- color change
- servicing
- shutting down equipment for more than 24 hours
- putting equipment into storage
- * Some Full System Flushing steps are not necessary for initial flushing, as no material has been loaded into the system yet.

To flush the entire system, you first follow the **Fluid Manifold Flushing** procedure, at right, then the **Full System Flushing** procedure, page 16.



- If your system includes heaters and heated hose, turn them off and allow to cool before flushing. Do not turn on heaters until fluid lines are clear of solvent.
 - Use the lowest possible pressure when flushing to avoid splashing.
 - Before color change or shutdown for storage, flush at a higher flow rate and for a longer time.
 - To only flush fluid manifold, see following procedure.
 - A circulation setting is available. Consult your distributor. Refer to page 25.

Fluid Manifold Flushing

Model 248842 Only: Follow the flushing procedure in the Remote Manifold manual 310797.

Using Solvent Pump

Press Stop voto turn off proportioner. Follow Pressure Relief Procedure, page 10. Engage trigger lock. Remove spray tip.



2. Close sampling valves and fluid shutoff valves A and B.



 Connect a shutoff valve (V) to the fluid manifold inlet on the A side as shown below (valve shown closed). Connect solvent pump line to the shutoff valve. Turn on solvent pump and open solvent shutoff valve.



4. Adjust regulator to desired pressure; use lowest pressure possible.



5. Disengage trigger lock and trigger gun into a grounded pail. Flush out mixed material until clean solvent dispenses. Engage trigger lock.



6. Shut off solvent pump and close solvent shutoff valve.



7. Follow Pressure Relief Procedure, page 10. Engage trigger lock.



Using Solvent Siphon Tube

1. Press Stop vot to turn off pumps. Follow Pressure Relief Procedure, page 10. Engage trigger lock. Remove spray tip.



2. Connect fluid hose with solvent siphone tube to pump A 3-way ball valve. Put solvent siphon tube into a grounded solvent pail.



3. Turn pump A 3-way ball valve to open suction tube line, as shown below. Arrow on handle shows direction of flow.



4. Open main air shutoff valve. Open shutoff valve A. Close sampling valves A and B.



5. Turn knob to pump A **A**. Press Start **A**. Slowly turn up air regulator until pump A starts.



6. Disengage trigger lock and trigger gun into a grounded pail until clean solvent dispenses.



- 7. Engage trigger lock. Press Stop 💟 to turn off proportioner.
- 8. Follow Pressure Relief Procedure, page 10.

Full System Flushing

1. Follow Pressure Relief Procedure, page 10. Engage trigger lock. Turn off air regulator and close main air shutoff valve. Remove spray tip and soak in solvent.



2. Place beakers under fluid sampling valves. Open main air shutoff valve. Open fluid sampling valves A and B.



- **3.** Turn up air regulator. Pump A and B reservoirs empty, salvaging the material in separate, clean containers.
- 4. Add solvent to A and B reservoirs.
- 5. Close sampling valves. Set air regulator to 50 psi (345 kPa, 3.4 bar).
- 6. Turn knob to pump A A. Press Start .



When run independently (set to **A** or **B**), the pump runs for 12 cycles, then stops.

Press Start 🚺 and Stop 💟 as needed to clean.

- **7.** Open sampling valve A. Pump material through sampling valve A until clean, then press Stop
 - If the pump does not start when you open the sampling valve, increase the air pressure by 10 psi (69 kPa, 0.7 bar) increments; to avoid splashing, do not exceed 70 psi (483 kPa, 4.8 bar). If the pump still does not start, the solvent may have caused your packings to swell and it is recommended you use Tuff Stack[™] Packing Kit 244900.

8. Repeat steps 5 and 7, using pump B B setting and sampling valve B, then press Stop .



- **9.** Remove fluid filter and soak in solvent. Replace filter cap.
- 10. Close sampling valves A and B.



12. Trigger gun into grounded pail. Run pump until clean

solvent dispenses, then press Stop 🔍



13. Repeat steps 11 and 12, using pump B B setting, then press Stop **O**.

- **14.** Follow **Pressure Relief Procedure**, page 10, and remove gun from hose. See gun manual to further clean gun.
- 15. Clean hoppers as needed. Empty out solvent.
 - Some materials require additional cleaning. You may need to recirculate solvent through the system or disassemble the hopper, 3-way valve, and strainer to clean them.

Priming



possible pressure to prime to avoid splashing.

1. Fill A and B reservoirs (R) with proper materials.



2. Turn both 3-way ball valves to open reservoir lines as shown below. Arrow on handle shows direction of flow.



3. Turn off air regulator. Close fluid shutoff valves A and B.



4. Place a container under each sampling valve. Open sampling valve A slowly.



When run independently (set to **A** or **B**), the pump runs for 12 cycles, then stops.

Press Start 🚺 and Stop 💟 as needed to prime. Monitor containers to avoid overflowing.

5. Turn knob to pump A **A**. Press Start **A**. Turn up air regulator slowly until pump A starts.



6. When side A is primed, turn off air regulator. Close sampling valve A. Open sampling valve B slowly.



7. Turn knob to pump B B. Press Start . Turn up air regulator slowly until pump B starts.



8. When side B is primed, Stop 💽 and close sampling valve B.



Pump Test

Follow this procedure the first time system is operated (after flushing and priming) and whenever you need to check whether pumps are on ratio.

The following table shows the volume dispensed during the pump test, based on pump ratio. Dispense into a container with adequate graduations.

| Pump | Volume Dispensed |
|------|------------------|
| 45:1 | 750 cc |
| 56:1 | 660 cc |
| 68:1 | 540 cc |
| 80:1 | 435 cc |



For accurate ratios, pump lowers must be same size on both sides.



- 2. Dispense fluid A:
 - **a.** Close fluid shutoff valves and sampling valves A and B.
 - **b.** Place a clean 1 quart (1000 cc) container under sampling valve A.



- **c.** Press Start **()**. Pump A light comes on.
- **d.** Slowly open and adjust sampling valve A to achieve desired flow. The pump stops automatically when dispense is complete. Pump A light turns off, Pump B light comes on.



3. Close sampling valve A.



- 4. Dispense fluid B as follows:
 - **a.** Place a clean 1 quart (1000 cc) container under sampling valve B.
 - **b.** Slowly open and adjust sampling valve B to achieve desired flow. The pump stops automatically when dispense is complete. Pump B light turns off.



5. Close sampling valve B.



6. Compare fluid amounts in the containers; they should be equal. Repeat test if fluids are not equal. If problem persists, see Troubleshooting in Xtreme Mix Repair Manual.

Spraying



- **1.** If heaters are used, turn them on. Operate heaters as instructed in their manuals.
- **2.** Close sampling valves A and B. Open shutoff valves A and B.



3. Turn knob to spray 🗺. Press Start 🚺.



4. Trigger gun into a pail and slowly increase air regulator pressure until pump is running and clean material is dispensed.



5. Engage trigger lock. Press Stop 💽.



- 6. Follow Pressure Relief Procedure, page 10.
- 7. Engage trigger lock. Install tip on gun.



8. Adjust air regulator to the necessary spraying pressure and apply the coating. Refer to Mix and Integration Tests, page 23.



- **9.** Follow **Fluid Manifold Flushing**, page 14, or **Shutdown**, page 25, when you are done spraying or before potlife expires.
 - Mixed material potlife or working time decreases with increased temperature.

Mix and Integration Tests

Use the following tests to check for proper mix and integration.

Butterfly Test



Follow **Pressure Relief Procedure**, page 10, before removing spray tip. Read warnings, page 5.

At low pressure, normal flow rate, and without a spray tip installed, dispense a 1/2" (12.7 mm) bead of material onto foil until multiple changeovers of each pump have occurred. Place a second sheet of foil over the first then peel it back and look for unmixed material (appears marble-like).

Curing Test

Spray a single continuous pattern on foil at typical pressure setting, flow rate, and tip size until multiple changeovers of each pump have occurred. Trigger and de-trigger at typical intervals for the application. Do not overlap or cross over your spray pattern.

Check curing at various time intervals, listed on the material data sheet. For example, check for dry to touch by running your finger along the test pattern's entire length at the time listed on the data sheet.

Appearance Test

Spray material onto metal substrate. Look for variations in color, gloss, or texture that may indicate improperly catalyzed material.

Batch Dispense or Ratio Check

Batch dispense is always 1 liter of total volume, regardless of ratio setting.

Follow this procedure to dispense a batch (into one container) or verify a ratio setting (use separate container for fluid A and B). Dispense into a container with graduations no greater that 5% of each component.

 Turn knob to batch dispense . Turn off air regulator. Open main air shutoff valve. Adjust air pressure to 50 psi (0.35 MPa, 3.5 bar).



- 2. Dispense fluid A:
 - **a.** Close fluid shutoff valves and sampling valves A and B.
 - **b.** Place a clean 1 quart (1000 cc) container under sampling valve A.



c. Press Start **()**. Pump A light comes on.

d. Slowly open and adjust sampling valve A to achieve desired flow. The pump stops automatically when dispense is complete. Pump A light turns off, Pump B light comes on.



3. Close sampling valve A.



- 4. Dispense fluid B as follows:
 - **a.** *Batch dispense:* move the 1 quart (1000 cc) container under sampling valve B.

Ratio check: place clean 1 quart (1000 cc) container under sampling valve B.

b. Slowly open and adjust sampling valve B to achieve desired flow. The pump stops automatically when dispense is complete. Pump B light turns off.



5. Batch dispense: stir material until mixed.

Ratio check: compare A and B fluid dispense.

Pump Cycle Counter

To display total A and B pump cycles since the last reset, turn knob to cycle counter .

To reset the cycle counter to 0, turn the key to - (or 0) while knob is set to cycle counter $\boxed{100001}$.



Circulation Setting

Fluid can be circulated up to the mix manifold. You can only circulate one fluid component at a time. Additional fluid hardware is required; consult your distributor.

To set the Xtreme Mix to circulate:

- 1. Decrease the pump air pressure supply to the minimum required to maintain the desired circulation volume.
- 2. Turn knob to spray
- **3.** *To circulate fluid A,* set ratio to 1.0:0, which is the lowest ratio setting

To circulate fluid B, set ratio to 0.0:1, which is the second lowest ratio setting

See page 13 for instructions on setting ratio.

4. Press Start



- 5. Depending on the ratio selected, the following will occur:
 - **1.0:1** Air motor pilot valve A and metering valve A open to run pump A.
 - **0.0:1** Air motor pilot valve B and metering valve B open to run pump B.

To terminate circulation, press Stop 💽 .

To begin circulating again, press Start 🚺 .

To begin spraying, reset to desired ratio and adjust pump to spray pressure.

Shutdown

Follow this procedure before prolonged shutdown or servicing equipment.

 Follow Pressure Relief Procedure, page 10. Engage trigger lock, turn off air regulator, and close main air shutoff valve. Remove spray tip.



- 2. Follow Flushing, page 14.
- **3.** Follow **Pressure Relief Procedure**, page 10. Engage trigger lock.
- **4.** Before prolonged shutdown: cap fluid outlets to keep solvent in the lines. Fill pump A and B packing nuts with throat seal liquid (TSL); follow instructions in pump manual.

Alarms

- * Indicates error where audible alarm sounds once briefly.
- ** Indicates error where audible alarm sound pulses.
- An alarm condition will shutdown equipment.
 - A chirping sound every 60 seconds indicates the unit is set for circulation (page 25).
 - See Xtreme Mix Repair manual for troubleshooting and repair.

| Code | Alarm | Active | Problem | Cause |
|------|------------------------|---------------|--|---|
| | Startup Errors | | | |
| 01 | Sensor Error A* | Always | No signal from pump A sensor | Loose cable, failed sensor or cable |
| 02 | Sensor Error B* | Always | No signal from pump B sensor | Loose cable, failed sensor or cable |
| 03 | Controller Error* | Always | Loss of communication between main and display boards | Loose cable, failed board |
| | Operating Errors | | | |
| 04 | Pump Runaway A** | Spray | Pump running too fast | Empty fluid reservoir(s) |
| 05 | Pump Runaway B** | Test Batch | This alarm is not active when pumps are run independently. | Clogged fluid filter |
| | | | | Hose rupture after mix manifold |
| | | | | Sampling valve open too far |
| | | | | Excessive cavitation |
| 06 | Pump Error A** | Spray | Pump does not stall after top change | Foot valve leak |
| 07 | Pump Error B** | Batch | Pump cavitating excessively | Air in lines caused by loose fitting or use of agitator |
| | | | | Empty fluid reservoir(s) |
| 08 | Sensor Code Error | Always | Software boot, sensor values reverted to default | Sensor value data corrupt; board needs replacement and /or recalibra- |
| 09 | Metering Error A** | Spray | A dose too great | Metering valve A leak |
| | | | | Empty B fluid reservoir |
| 10 | Metering Error B** | Spray | B dose too great | Metering valve B leak |
| | | | | Empty A fluid reservoir |
| 11 | Sensor Reading Low A* | Always | Pump stroke travels beyond sensor | Sensor or bracket loose |
| 12 | Sensor Reading Low B* | | range at bottom change over | Sensor magnet dirty |
| 13 | Sensor Reading High A* | Always | Pump stroke travels beyond sensor | Sensor or bracket loose |
| 14 | Sensor Reading High B* | | range at top change over | Sensor magnet dirty |
| | Testing Error | | | |
| 15 | Piston packing/ball A* | Test | Pump does not completely stall in up | Piston packing or ball check failure |
| 16 | Piston packing/ball B* | | stroke | |
| 17 | Inlet Ball A* | Test | Pump does not completely stall in down- | Foot valve ball check failure |
| 18 | Inlet Ball B* | | stroke | |
| 19 | Metering Valve A* | Test | est Pump does not completely stall in both | Throat packing or metering valve fail- |
| 20 | Metering Valve B* | | up and down strokes | ure |

Performance Charts









Technical Data

| Mix ratio range | 0.0:1-10:1 (in 0.1 increments) | | | |
|--|--|--|--|--|
| Ratio tolerance range | +/- 5% | | | |
| Flow rates | | | | |
| Minimum | 1 qt./min. (0.95 liter/min.)* | | | |
| | 3 gal./min. (11.4 liter/min.) | | | |
| Fluid viscosity range | 200-20,000 cps (heavier viscosities can be mixed with use of optional heaters, heated hoses, and hardware) | | | |
| Fluid filtration | 60 mesh, (238 micron) standard on pump outlets (filter assembly not included on models 248831, 248832, | | | |
| | 248833, and 248834) | | | |
| Air inlet | | | | |
| | 3/4 npt(m) | | | |
| All Other Models. | 3/4 npt(1) | | | |
| Movie un fluid merine processe | 3/4 ripsm union in T ript(1) ball valve | | | |
| | 4500 ppi (21 MDp. 210 hpr) | | | |
| 40.1 | 4500 psi (31 MFa, 510 bal) | | | |
| 00.1 | 5000 psi (30.0 MPa, 300 pai) | | | |
| 00.1 | 6000 psi (40.9 MPa, 409 par) | | | |
| 00.1 MOUEI 240042 Offiy | 5000 psi (34.5 MPa, 345 par) | | | |
| | 7250 psi(50 MFa, 500 bal) | | | |
| All Supply pressure range | 500 psi (345-000 kFa, 3.5-0 bal) | | | |
| | | | | |
| Maximum air consumption at 100 psi (0.7 MPa, 7 bar) in (| ctm (m ^o /min.) | | | |
| 45:1 | 110 (3.1) | | | |
| 56:1 | 125 (3.5) | | | |
| 68:1 | 155 (4.4) | | | |
| 80:1 | 180 (5.1) | | | |
| Ambient temperature range | | | | |
| | $32-130^{\circ} F(0-54^{\circ} C)$ | | | |
| Stolaye | John Surface (-1-71 C) | | | |
| | Altitude up to 1000 motors | | | |
| | Annual up to 4000 meters Maximum relative humidity to 99% up to 54° C | | | |
| | Pollution degree (11) | | | |
| | Installation category (2) | | | |
| Sound pressure | 98 dBA at 100 nsi $(0.7 MPa, 7 har)$ | | | |
| Wetted narts | | | | |
| Suction tubes (if used) | aluminum | | | |
| Pumps | carbon steel allov steel 303 440 & 17-4ph grades stain- | | | |
| | less steel, zinc and nickel plating, ductile iron, tungsten | | | |
| | carbide. PTFE. leather | | | |
| Metering Valves | carbon steel, zinc plating, carbide, polyethylene, leather | | | |
| Manifold | carbon steel, zinc plating, carbide, 302 stainless steel | | | |
| Mixer | stainless steel | | | |
| Spray gun | See gun manual | | | |
| PC Communications | RS-232 | | | |
| Dimensions | | | | |
| Cart model (width x height x diameter) | 33" wide x 64.53" high x 44.5" deep (83.8 x 163.9 x 113 cm) | | | |
| Weight (cart, without hose and gun) | 625 lbs. (285 kg) | | | |
| * Minimum flow rate is dependent on the material being spray | ed and mixing capability. Test your material for specific flow rate. | | | |

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.

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Graco Information

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

All written and visual data contained in this document reflects the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Original Instructions. This manual contains English. MM 309535

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