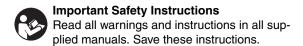


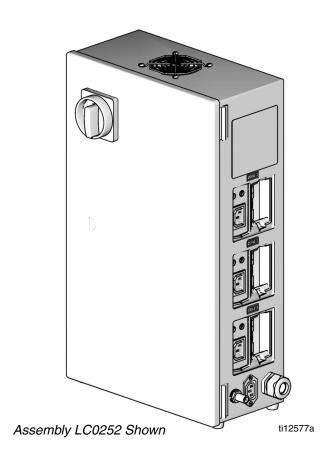
PR70 and PR70v Integrated Heat

312761C

For controlling material temperature in heated tanks and hoses.

Models LC0250, LC0251, LC0252, LC0253









Contents

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Supplied Manuals

Assemblies with a Stanuaru Display include manual 312393. Assemblies with an Assemblies with a Standard Display Module Advanced Display Module include manuals 312759 and 312760.

| PR70 and PR70v Operation and Parts Manuals | | | |
|--|---|--|--|
| Part | Description | | |
| 312393 | PR70 with Standard Display Module Operation and Maintenance Manual | | |
| 312759 | PR70 and PR70v with Advanced Display Module Operation and Maintenance Manual | | |
| 312760 | PR70 and PR70v with Advanced Display Module Repair and Parts Manual | | |
| MD2 Disp | ense Valve Manual | | |
| Part | Description | | |
| 312185 | MD2 Dispense Valve Instructions and Parts Manual | | |
| PR70 and PR70v Feed Systems Manual | | | |
| Part | Description | | |
| 312394 | PR70 and PR70v Feed Systems Manual | | |
| PR70 and PR70v Integrated Heat Manual | | | |
| Part | Description | | |
| 312761 | PR70v Integrated Heat Instructions - Parts Manual | | |

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 symbol refers to procedure-specific risk. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

MARNING



ELECTRIC SHOCK HAZARD

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



Equipment With Grounding Plug

- Turn off and disconnect power cord before servicing equipment.
- Use only grounded electrical outlets.
- Use only 3-wire extension cords.
- Ensure ground prongs are intact on power and extension cords.
- Do not expose to rain. Store indoors.

Hard-Wired Equipment

- 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 requlations.



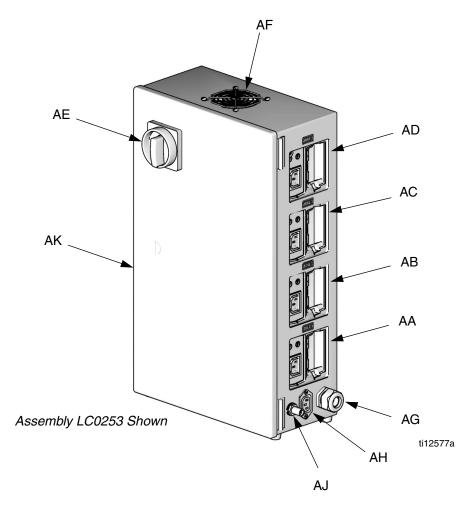
EQUIPMENT MISUSE HAZARD

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 MSDS forms from distributor or retailer.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment.
- 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.



Component Identification



Key:

AA Zone 1

AB Zone 2

AC Zone 3

AD Zone 4

AE Electrical Disconnect Switch

AF Fan

AG Integrated Heat Power Inlet

AH Integrated Heat Power Outlet

to Machine

AJ CAN Connection Output to

Machine

AK Heat Control Box

Fig. 1: Heat Control Box

Grounding



This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a chord having a grounding wire. A 3-blade grounding plug must be installed or the machine may be hard wired. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Improper installation of the grounding plug is able to result in a risk of electric shock. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire. Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician. Only connect the product to an outlet having the same configuration as the plug. Do not use an adapter with this product.

Installation

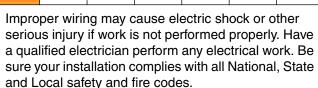
Connect Electrical Cord



Machine may be hard-wired or installed using a plug.







1. Each machine comes with a permanent 10 ft power cable without a plug. If a permanent extension cable must be installed onto the existing cable or if an extension cord is necessary, be sure to use the

appropriate gauge wire for the machine amperage. See the following table.

| Number of Zones installed in Heat Control Box | Rating (Amps) | Gauge (mm²) / Number of Wires |
|---|------------------|----------------------------------|
| 1 | 30 | 10 (2.59) / 3 |
| 2 | 30 | 10 (2.59) / 3 |
| 3 | 40 | 8 (3.26) / 3 |
| 4 | 40 | 8 (3.26) / 3 |

Install Plug









The equipment must be grounded. Grounding reduces the risk of static and electric shock by providing an escape wire for the electrical current due to static build up or in the event of a short circuit. Improper installation of the grounding plug is able to result in a risk of electric shock. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

2. For machines that will not be hard-wired, install a 3-blade 240V, 1-phase grounding plug onto cord (129). The machine must use a receptacle that accepts the plug on the product.

For machines that will be hard-wired, hard-wire the machine. The grounding wire must be used.

Install Low Power Temperature Control Modules

The low power temperature control modules are installed in the Heat Control box at the factory. If a low power temperature control module must be replaced, perform the following procedure.

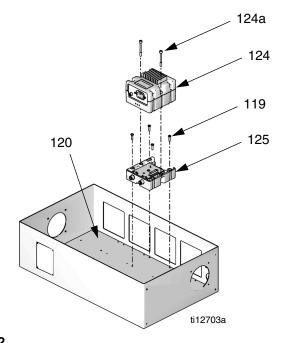


Fig. 2

Remove Old Low Power Temperate Control Module

- On units with a grounding plug, unplug unit from wall
 - **On hard-wired units**, use facility power switch to turn off incoming power.
- Unplug data connection and power cables from low power temperature control modules. Do not disconnect other end of cables.
- 3. Remove hex head cap screws (124a) from low power temperature control module.
- 4. Remove low power module (124).
- 5. Remove four socket head cap screws (119).
- 6. Remove base module (125).

Install New Low Power Temperate Control Module

 Use four socket head cap screws (119) to install base module (125) onto enclosure back panel (120).

- 8. Use two hex head cap screws (124a) to install low power module (124) onto base module (125).
- Change rotary switch position on new low power temperature control module. See Adjust Rotary Switch on page 7.
- Reconnect CAN cables (113, 130) and power cables.

Connect 3-wire Module Power











Connecting the power must be performed by a qualified electrician. The equipment must be grounded. Grounding reduces the risk of static and electric shock by providing an escape wire for the electrical current due to static build up or in the event of a short circuit. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

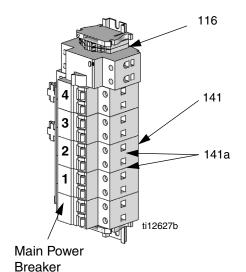


Fig. 3: Breaker Numbering

There is one breaker for each heated hose or heated tank. The lower number breakers are used for the heated tanks if installed. See Fig. 3. For example, if there are two heated tanks installed and two heated hoses, breakers #1 and #2 are used for the heated tanks and breakers #3 and #4 are used for the heated hoses. If there is one heated tank and one heated hose, then breaker #1 is used for the heated tank and breaker #2 is used for the heated hose. Each breaker has a different rating so it is important that the correct breaker is used.

The 3-wire module power is connected in the Heat Control box at the factory. The power cord (118) for each low power temperature control module has a connector on one end and three power leads on the other. The three power leads must be connected to the appropriate breaker (114) and ground terminal (116).

- 1. Connect the power cord connector to the low power temperature control module.
- 2. Connect the green wire to any unused ground terminal block (116).
- Find the breaker with the same number as the module as shown in Fig. 3 on page 6 and Fig. 6 on page 9.
- Connect the black and white wires to the breaker (141) labeled with the same number as the module. The black and white wires can connect to either terminal (141a) in the same breaker (141).

Adjust Rotary Switch

The rotary switch setting must only be adjusted on new low power temperature control modules after installation.

The rotary switch setting indicates which zone number the low power temperature control module will control in the system. The low power temperature control module uses a 16-position rotary switch. Set the rotary switch (S) to the specific selection according to the settings listed in the following table.

Low Power Temperature Control Module Rotary Switch Location

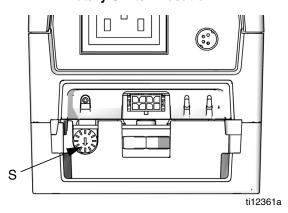


Fig. 4

Low Power Temperature Control Module Rotary Switch Settings

The modules must always be set to the zone number shown on the label above the module.

| Switch Setting | Zone |
|-------------------|------|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |

Setup

Cable Connections

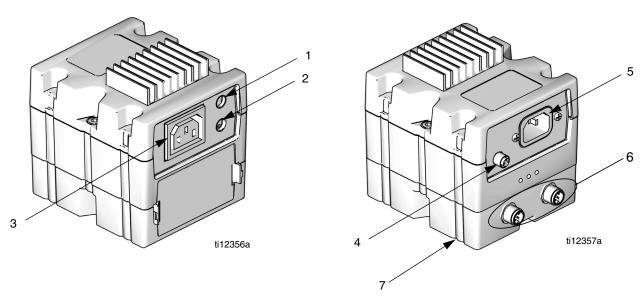


FIG. 5: Low Power Temperature Control Module Cable Connections

- 1 Overtemperature Switch Connection
- 2 RTD Temperature Sensor Connection
- 3 Output Power Connection

- 4 DC Output Connection
- 5 Input Power Connection
- 6 CAN Connections
- 7 Base

The overtemperature switch connection (1), RTD temperature sensor connection (2), and output power connection (3) connect to the respective components of a temperature control option. The display module must be updated to specify which zone number is used with which temperature control option. See the PR70 and PR70v Operation manual referenced at the beginning of this manual for more information.

Data Cable Connections

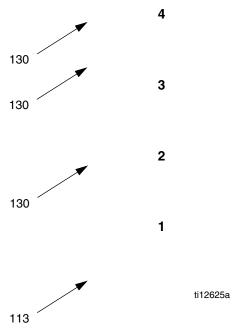


Fig. 6: Data Cable Connections

The low power temperate control modules must be connected together using the female-female CAN cables (130) as shown in Fig. 6. Then they must be connected to the display module using the female-male CAN cable (113).

Operation

See the PR70 and PR70v Operation manual referenced at the beginning of this manual for operating instructions.

Maintenance

Install Upgrade Token

- 1. Ensure system is inactive and control power is on.
- 2. Remove access cover (C).

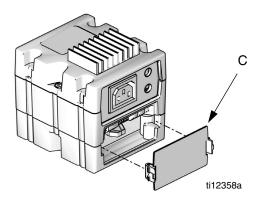
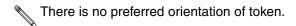


Fig. 7: Remove Access Cover

3. Insert and press token (T) firmly into slot.



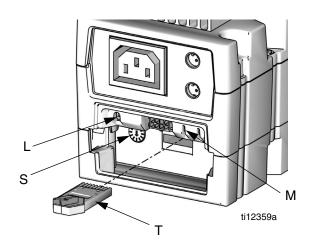


Fig. 8: Install Token

- Press and hold the left red token upload button (M) for three seconds. The red indicator light (L) will flash up to three seconds after the software is uploaded.
- 5. Remove token (T).
- 6. Replace access cover (C).
- 7. Repeat procedure for all low power temperature control modules.
- 8. Turn machine power off then on after all modules are upgraded.

Clean

Keep heat sink fins clean at all times. Wipe the fins clean with a dry cloth or clean them using compressed air.

Do not use conductive cleaning solvents on the low power temperature control modules.

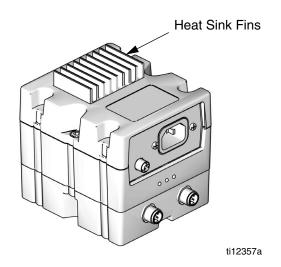


Fig. 9: Clean Heat Sink Fins

Troubleshooting



Circuit Breaker

If the circuit breaker is tripped, manually flip the breaker back to the "on" position. Find and correct the problem before continuing operation.

Diagnostic Information

Module Status LEDs

Table 1: LED Status Signal

| Signal | Description | |
|--------------|---|--|
| Green on | Low power temperature control module is powered up. | |
| Yellow | Internal communication in progress. | |
| Red solid | Low power temperature control module failure. | |
| Red flashing | Software is updating. | |

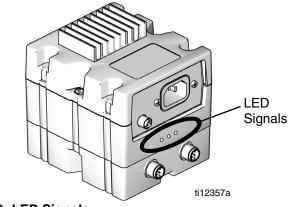
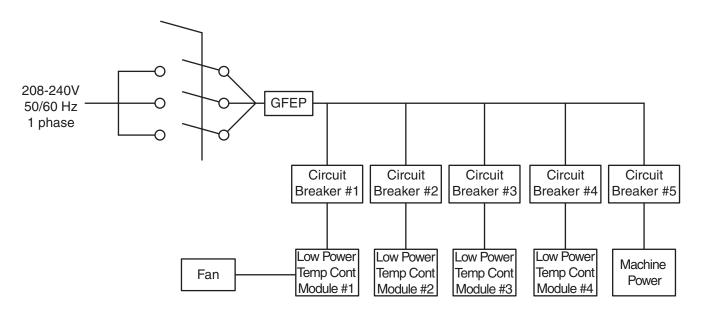


Fig. 10: LED Signals

Simplified Wiring Schematic



Wiring Schematic

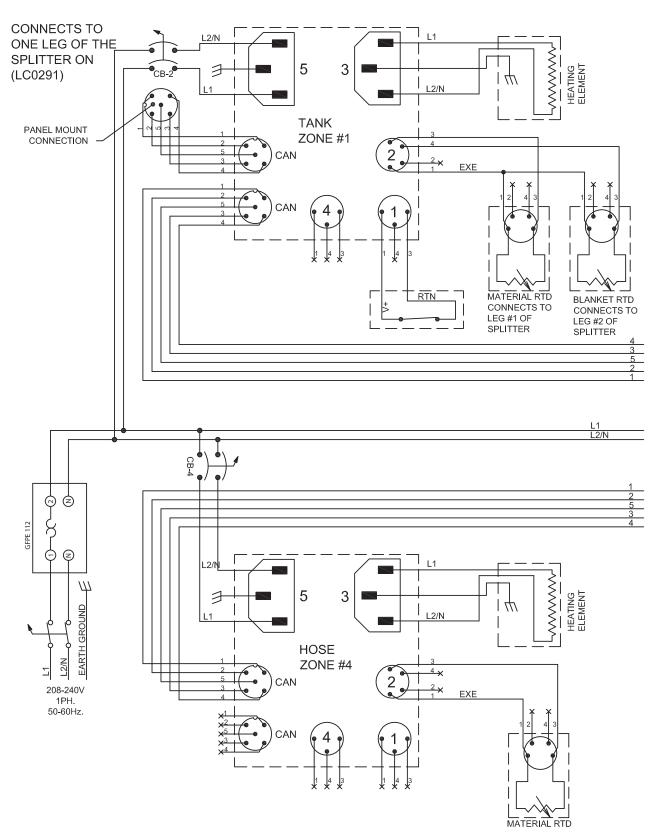


Fig. 11: Wiring Schematic, Page 1 of 2

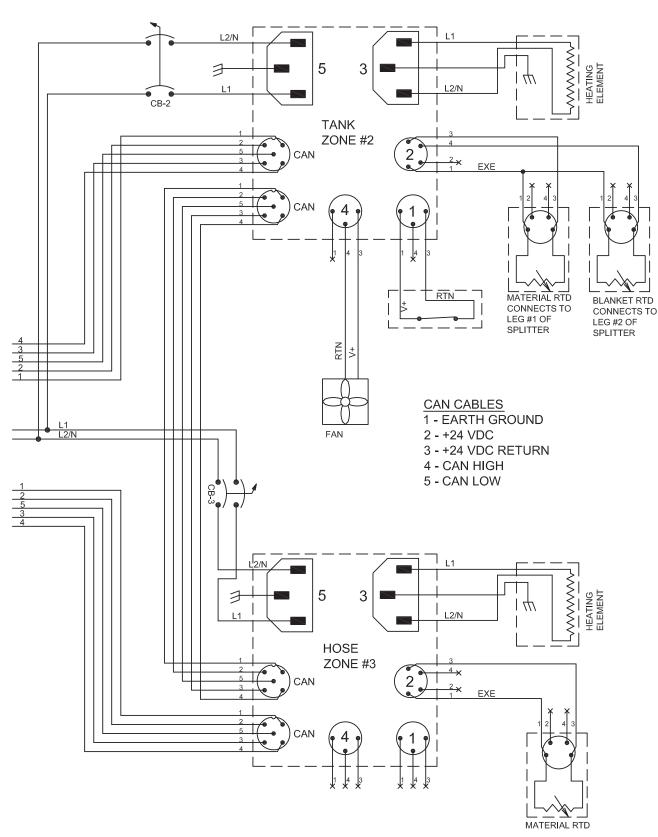
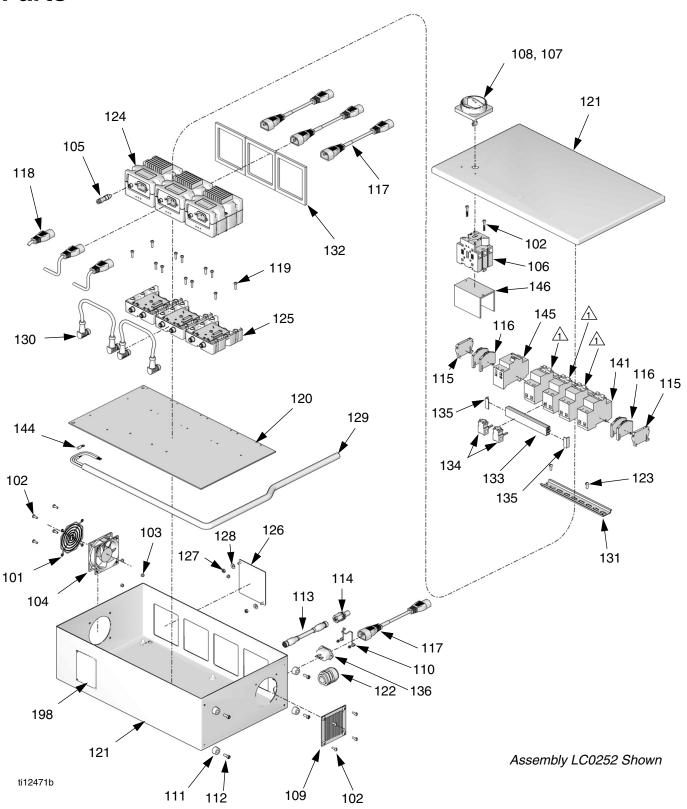


Fig. 12: Wiring Schematic, Page 2 of 2

Parts



Heated hose and heated tank circuit breakers shown for reference only. See Circuit Breakers on page 17 for part numbers.

| Ref | Description | LC0250 Control Box, Heat, 1 Load, 240V | LC0251 Control Box, Heat, 2 Load, 240V | LC0252 Control Box, Heat, 3 Load, 240V | LC0253 Control Box, Heat, 4 Load, 240V | Qty |
|-----|--|--|--|--|---|-----|
| 101 | GUARD, fan, 80 mm x 80 mm | 121560 | 121560 | 121560 | 121560 | 1 |
| 102 | SCREW, panhead machined | 105676 | 105676 | 105676 | 105676 | 10 |
| 103 | NUT, lock, hex | 105334 | 105334 | 105334 | 105334 | 4 |
| 104 | FAN, brushless, 80 x 80 x 25, 24 VDC | 121556 | 121556 | 121556 | 121556 | 1 |
| 105 | CONNECTOR, straight, M8, 3-PIN, solder | 121590 | 121590 | 121590 | 121590 | 1 |
| 106 | SWITCH, disconnect, 3-pole, 40A | 121568 | 121568 | 121568 | 121568 | 1 |
| 107 | SHAFT, disconnect, electric | 121149 | 121149 | 121149 | 121149 | 1 |
| 108 | HANDLE, disconnect, electric | 121148 | 121148 | 121148 | 121148 | 1 |
| 109 | FILTER, screen, fan, 80 mm x 80 mm | 121559 | 121559 | 121559 | 121559 | 1 |
| 110 | SCREW | 120916 | 120916 | 120916 | 120916 | 2 |
| 111 | FOOT, BUMPER | 123698 | 123698 | 123698 | 123698 | 4 |
| 112 | SCREW | 120885 | 120885 | 120885 | 120885 | 4 |
| 113 | CABLE, CAN, male / female, 0.4 m | 121226 | 121226 | 121226 | 121226 | 1 |
| 114 | CONNECTOR, thru, M12, male / female | 121612 | 121612 | 121612 | 121612 | 1 |
| 115 | BLOCK, end stop, termi- nal, tan, 35 mm RA | 123384 | 123384 | 123384 | 123384 | 2 |
| 116 | BLOCK, terminal, spg, 4P, ground, 600V/20A | 123686 (Qty 3) | 123686 (Qty 3) | 123686 (Qty 4) | 123686 (Qty 4) | |
| 117 | CORD, power, v-lock, C14/C13, 10A | 121599 (Qty 2) | 121599 (Qty 3) | 121599 (Qty 4) | 121599 (Qty 5) | |
| 118 | CORD, power, v-lock, | 121598 | 121598 | 121598 | 121598 | |
| | 15P/C13, 10A | (Qty 1) | (Qty 2) | (Qty 3) | (Qty 4) | |
| 119 | SCREW, socket head cap, 10-32 x 0.62, stain-less steel | 113003 (Qty 4) | 113003 (Qty 8) | 113003 (Qty 12) | 113003 (Qty 16) | |
| 120 | PANEL, back, enclosure, 12 in. | 121584 | 121584 | | | 1 |
| | PANEL, back, enclosure, 20 in. | | | 121585 | 121585 | 1 |
| 121 | ENCLOSURE, 12 x 12 x 6, 2 load | 121563 | 121563 | | | 1 |
| | ENCLOSURE, 20 x 12 x 6, 4 load | | | 121565 | 121565 | 1 |
| 122 | GRIP, cord, 0.51 - 0.71, 3/4 | 121603 | 121603 | | | 1 |
| | GRIP, cord, 0.35 - 0.63, 3/4 | | | 121171 | 121171 | 1 |
| 123 | SCREW, pan head machined, M5 - 0.8 x 12 mm | 121725 | 121725 | 121725 | 121725 | 2 |
| 124 | MODULE, low power, Graco Control Architec- ture | 256270 (Qty 1) | 256270 (Qty 2) | 256270 (Qty 3) | 256270 (Qty 4) | |
| 125 | MODULE, Graco Control Architecture, base | 289697 (Qty 1) | 289697 (Qty 2) | 289697 (Qty 3) | 289697 (Qty 4) | |

| Ref | Description | LC0250 Control Box, Heat, 1 Load, 240V | LC0251 Control Box, Heat, 2 Load, 240V | LC0252 Control Box, Heat, 3 Load, 240V | LC0253 Control Box, Heat, 4 Load, 240V | Qty |
|----------------|--|--|--|--|---|-----|
| 126 † | COVER, heat box | 15U672 | | 15U672 | | 1 |
| 127 | NUT, hex | 110911 | | 110911 | | 2 |
| 128 | WASHER, plain #10 | 120907 | | 120907 | | 2 |
| 129 | CORD, 10/3, 40A, SOOW, CU, 600V | 065054 | 065054 | | | 12 |
| | CORD, 8/3, 30A, SOOW, CU, 600V | | | 121158 | 121158 | 12 |
| 130 | CABLE, CAN, 90 female / 90 female | | 121597 (Qty 1) | 121597 (Qty 2) | 121597 (Qty 3) | |
| 131 | RAIL, DIN | 514014 | 514014 | 514014 | 514014 | |
| | | (Qty 0.6) | (Qty 0.83) | (Qty 0.83) | (Qty 0.83) | |
| 132 | GASKET, enclosure, heat, Graco Control | 121566 (Qty 1) | 121566 (Qty 2) | 121566 (Qty 3) | 121566 (Qty 4) | |
| 133 | Architecture CONNECTOR, bus bar, 2 | | (Qty Z) | (Gry 0) | (Qty +) | _ |
| 100 | phase, 4 poles | 15U740 | | | | 1 |
| | CONNECTOR, bus bar, 2 phase, 6 poles | | 15U741 | | | 1 |
| | CONNECTOR, bus bar, 2 phase, 8 poles | | | 15U742 | | 1 |
| | CONNECTOR, bus bar, 2 | | | | 15U743 | 1 |
| 101 | phase, 10 poles | 404040 | 101010 | 101010 | | |
| 134 | TERMINAL | 121648 | 121648 | 121648 | 121648 | 2 |
| 135 | CAP | 121649 | 121649 | 121649 | 121649 | 2 |
| 136 | CONNECTOR, power, panel mount | 121558 | 121558 | 121558 | 121558 | 1 |
| 137 | LABEL, zone1 | 15V283 | 15V283 | 15V283 | 15V283 | 1 |
| 138 | LABEL, zone2 | | 15V284 | 15V284 | 15V284 | 1 |
| 139 | LABEL, zone3 | | | 15V285 | 15V285 | 1 |
| 140 | LABEL, zone4 | | | | 15V286 | 1 |
| 141 | CIRCUIT, breaker, 2-pole, 10A, C type | 121634 | 121634 | 121634 | 121634 | 1 |
| 142† | ENCLOSURE, Graco | 277674 | 277674 | 277674 | 277674 | |
| , | Control Architecture, door | | (Qty 2) | (Qty 3) | (Qty 4) | |
| 143 | CABLE, CAN, M12 x M12, 5P, female / female, straight x right angle | 121685 | 121685 | 121685 | 121685 | 1 |
| 144 | TERMINAL, ring, #8 AWG, 1/4 in. stud | 123421 | 123421 | 123421 | 123421 | 1 |
| 145 | CIRCUIT, breaker, 63A, GFI | 123687 | 123687 | 123687 | 123687 | 1 |
| 146 | BRACKET, disconnect, 40A | 16C235 | 16C235 | 16C235 | 16C235 | 1 |
| 197 † | | XXXXX | XXXXX | XXXXX | XXXXX | 1 |
| 198 | PLATE, legend, serial number | 293564 | 293564 | 293564 | 293564 | 1 |
| 199 <i>†</i> | PLUG, retainer | 123699 | 123699 | 123699 | 123699 | 1 |
| - _ | 1 | | l | l | | |

† Part not shown.

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

Circuit Breakers

See the PR70 and PR70v Repair - Parts manual referenced at the beginning of this manual to find the heated hose and heated tank assembly numbers for your system.

Heated Hose Circuit Breakers

| Installed Heated Hose Package | Circuit Breaker |
|----------------------------------|-----------------|
| LC0881 | 121630 |
| LC0882 | 121631 |
| LC0883 | 121632 |
| LC0884 | 121630 |
| LC0885 | 121631 |
| LC0886 | 121632 |
| LC0887 | 121630 |
| LC0888 | 121631 |
| LC0889 | 121632 |
| LC0890 | 121632 |
| LC0891 | 121633 |
| LC0190 | 121630 |
| LC0191 | 121631 |
| LC0192 | 121632 |
| LC0193 | 121630 |
| LC0194 | 121631 |
| LC0195 | 121632 |
| LC0196 | 121630 |
| LC0197 | 121631 |
| LC0198 | 121632 |
| LC0199 | 121632 |
| LC0200 | 121633 |
| LC0201 | 121630 |
| LC0202 | 121631 |
| LC0203 | 121632 |
| LC0204 | 121630 |
| LC0205 | 121631 |
| LC0206 | 121632 |
| LC0207 | 121630 |
| LC0208 | 121631 |
| LC0209 | 121632 |
| LC0210 | 121632 |
| LC0211 | 121633 |

Heated Tank Assembly Circuit Breakers

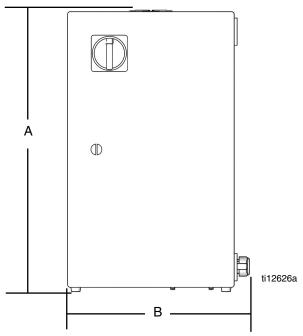
| Installed Heated Tank Assembly | Circuit Breaker |
|-----------------------------------|-----------------|
| LC0237 | |
| LC0238 | 121633 |
| LC0254 | 121000 |
| LC0255 | |
| LC0259 | 121635 |
| LC0260 | 121000 |

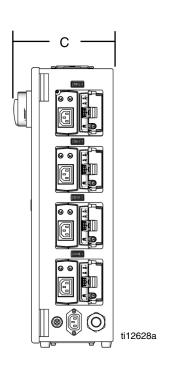
Parts

Technical Data

(Qty 4) 2500W outputs

Dimensions





Assembly LC0253 Shown

Fig. 13: Dimensions

| Ref | 1 and 2 Zone Assemblies in. (mm) | 3 and 4 Zone Assemblies in. (mm) |
|------------|--|--|
| A (height) | 12 (305) | 20 (508) |
| B (width) | 12 (305) | 12 (305) |
| C (depth) | 6 (152) | 6 (152) |

Graco Ohio 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.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

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.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

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Graco Information

Sealant and Adhesive Dispensing Equipment

For the latest information about Graco products, visit www.graco.com. For patent information, see www.graco.com/patents.

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Original instructions. This manual contains English. MM 312761

Graco Headquarters: Minneapolis International Offices: Belgium, China, Japan, Korea

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