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## Goulds A3-2012

# Goulds CentriPro A3-2012 Simplex Wastewater Control Panel User Manual

Model: A3-2012

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, installation, and maintenance of the Goulds CentriPro A3-2012 Simplex Wastewater Control Panel. Please read this manual thoroughly before installation or operation to ensure proper use and to prevent potential hazards.

## 2. SAFETY INFORMATION

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Always observe all local electrical and plumbing codes. Installation and servicing should only be performed by qualified personnel. Disconnect all power before performing any maintenance or service on the control panel.

- **Electrical Hazard:** Risk of electric shock. Ensure power is disconnected before working on the unit.
- **Qualified Personnel:** Installation and maintenance must be performed by trained and authorized individuals.
- **Environmental Conditions:** This panel is designed for indoor use (NEMA 1 enclosure). Do not expose to outdoor elements or excessive moisture.

## 3. PRODUCT OVERVIEW

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The Goulds CentriPro A3-2012 is a Simplex Control Panel designed for automatic or manual pump operation in single-phase wastewater systems. It provides essential control and monitoring functions for a single pump.

### 3.1. Key Features

- Supports 1/3 to 2 HP single-phase pumps.

- Compatible with 115/208/230 Volts, 60 Hz power supply.
- 0-20 Amp range for pump operation.
- NEMA 1 steel enclosure for indoor applications.
- Includes a through-door Hand-Off-Auto (H-O-A) switch.
- Equipped with a pump run indicator light.
- Requires separate level control switch(es) (not included).

### 3.2. Components

The control panel consists of a steel enclosure housing the electrical components. Key external features include the H-O-A switch and the pump run light on the door.

## 4. SETUP AND INSTALLATION

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Before beginning installation, ensure all power to the installation site is disconnected. This panel must be installed in a dry, indoor location protected from environmental elements, consistent with its NEMA 1 rating.

### 4.1. Mounting the Panel

1. Select a suitable indoor wall location, ensuring adequate clearance for wiring and access.
2. Mount the panel securely using appropriate fasteners for the wall material.

### 4.2. Electrical Connections

All wiring must comply with national and local electrical codes. Refer to the wiring diagram inside the control panel door for specific connections.

- Connect incoming power (115/208/230V, 1 Phase, 60 Hz) to the designated terminals.
- Connect the pump motor wiring to the appropriate terminals. Ensure the pump's HP (1/3 - 2 HP) and amperage (0-20 Amps) are within the panel's specifications.
- Connect the separate level control switch(es) (e.g., float switches) to the designated control terminals. These switches dictate the automatic operation of the pump.
- Ensure proper grounding of the control panel and all connected equipment.

*Note: Overload protection for the pump must be provided by the pump itself, as this panel does not include integrated overload protection.*

## 5. OPERATING INSTRUCTIONS

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The control panel features a Hand-Off-Auto (H-O-A) switch for selecting the pump's operating mode.

### 5.1. Hand-Off-Auto (H-O-A) Switch

- **HAND (Manual):** In this position, the pump will run continuously, bypassing the level control switches. Use this mode for testing or specific manual operations. *Caution: Do not leave in HAND mode unattended to prevent dry running or overflow.*
- **OFF:** In this position, the pump is de-energized and will not operate, regardless of the level control switch status.
- **AUTO (Automatic):** In this position, the pump operation is controlled by the connected level control switch(es). The pump will start and stop based on the liquid levels detected by these switches.

### 5.2. Pump Run Light

The pump run light illuminates when the pump is actively operating, providing a visual indication of its status.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and reliable operation of your control panel. Always disconnect power before performing any maintenance.

- **Periodic Inspection:** Annually inspect the enclosure for signs of damage, corrosion, or moisture ingress.
- **Terminal Connections:** Periodically check all electrical terminal connections for tightness. Loose connections can cause overheating and component failure.
- **Cleanliness:** Keep the interior of the panel clean and free of dust, debris, and insects. Use a dry, soft cloth for cleaning.
- **Level Switches:** Regularly inspect and clean the associated level control switches as per their manufacturer's instructions to ensure accurate level detection.

## 7. TROUBLESHOOTING

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This section provides guidance for common issues. For problems not listed or if issues persist, contact qualified service personnel.

Problem	Possible Cause	Solution
Pump does not run in AUTO mode.	<ul style="list-style-type: none"><li>• H-O-A switch in OFF position.</li><li>• Level control switch not activated.</li><li>• No power to panel.</li><li>• Pump motor issue.</li></ul>	<ul style="list-style-type: none"><li>• Set H-O-A switch to AUTO.</li><li>• Check level switch operation and wiring.</li><li>• Verify power supply to the panel.</li><li>• Check pump motor and its overload protection.</li></ul>
Pump runs continuously in AUTO mode.	<ul style="list-style-type: none"><li>• Level control switch stuck in ON position.</li><li>• Level switch wiring fault.</li></ul>	<ul style="list-style-type: none"><li>• Inspect and clean level switch.</li><li>• Check level switch wiring for shorts or incorrect connections.</li></ul>
Pump run light not illuminated when pump is running.	<ul style="list-style-type: none"><li>• Indicator light bulb failed.</li><li>• Wiring to indicator light faulty.</li></ul>	<ul style="list-style-type: none"><li>• Replace indicator light bulb.</li><li>• Check wiring connections to the light.</li></ul>

## 8. SPECIFICATIONS

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Parameter	Value
Model	A3-2012
Application	Simplex Wastewater Control
Horsepower Range	1/3 - 2 HP
Voltage	115/208/230 Volts
Phase	Single Phase
Frequency	60 Hz
Amp Range	0 - 20 Amps
Enclosure Type	NEMA 1
Enclosure Material	Steel
Indicator Lights	Pump Run Light
Control Switch	Through-door Hand-Off-Auto (H-O-A)
Material	Alloy Steel (Enclosure)
UPC	697666322906

## 9. WARRANTY AND SUPPORT

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For information regarding product warranty, please refer to the documentation provided with your purchase or visit the official Goulds website. For technical support or service inquiries, please contact Goulds customer service or an authorized service center.

*Contact information for support is typically found on the manufacturer's website or product packaging.*