

IGP Series Retrofit Kits

IGP-A-RFK and IGPHR-A-RFK grinder pump kits are direct, simplex replacements for existing positive displacement systems.

These kits offer:

- Fast, simple, easy installation
- Epoxy-coated steel cover
- Water-tight junction box for ease of installation and servicing
- 1-1/4" cast iron anti-siphon/check valve
- 1-1/4" NPT (SST) piping
- Adjustable alarm float switch preset at factory
- 2 HP, 3450 rpm, high starting torque, automatic grinder pump with mechanical float switch
- Tight cutting clearances for superior cutting action, grinding 414,000 cuts per minute
- Quick disconnect plug in either square or round format
- Rigid construction for ease of handling
- Telescoping discharge (Models 515801, 515835)

Please examine your pump carefully to ensure that no damage occurred during shipment. If damage has occurred, please contact the place of purchase. They will assist you in replacement or repair, if required.

This product is covered by a Limited Warranty for a period of 24 months from the date of original purchase by the consumer. For complete warranty information, refer to www.franklinengineered.com; or, call Technical Support for a printed copy.



Specifications

Model	Phase	Volts	Hz	Amps	Breaker Size	Watts	HP	Shut Off
IGP-A-RFK	1	208-230	60	13.9	20	3200	2	130 ft (39.6 m)
IGPHR-A-RFK	1	208-230	60	16	20	3600	2	200 ft (61 m)

BEFORE GETTING STARTED

This equipment should be installed and serviced by technically qualified personnel who are familiar with the correct selection and use of appropriate tools, equipment, and procedures. Failure to comply with national and local electrical and plumbing codes and within FPS recommendations may result in electrical shock or fire hazard, unsatisfactory performance, or equipment failure.

Know the product's application, limitations, and potential hazards. Read and follow instructions carefully to avoid injury and property damage. Do not disassemble or repair unit unless described in this manual.

Refer to product data plate(s) for additional precautions, operating instructions and specifications.

Failure to follow installation or operation procedures and all applicable codes may result in the following hazards:

DANGER



Risk of death, personal injury, or property damage due to explosion, fire, or electric shock.

- Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc.
- Do not use in explosive atmospheres or hazardous locations as classified by the NEC, ANSI/NFPA70.
- Do not handle a pump or pump motor with wet hands or when standing on a wet or damp surface, or in water.
- When a pump is in its application, do not touch the motor, pipes, or water until the unit is electrically disconnected.
- If the power disconnect is out of sight, lock it in the open position and tag it to prevent unexpected application of power.
- If the disconnect panel is not accessible, or under flooded conditions, contact the electric company to stop service.

INSTALLATION

First Steps

WARNING



High voltages capable of causing severe injury or death by electrical shock are present in this unit.

- To reduce risk of electrical shock, disconnect power before working on or around the system. More than one disconnect switch may be required to de-energize the equipment.
- Check local electrical and building codes before installation. The installation must be in accordance with their regulations as well as the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).
- Wire pump system for correct voltage as shown on the motor nameplate. A separate branch circuit is recommended.
- These pumps are supplied with lead wires and are intended to be hardwired using a junction box or other approved enclosure. The pump includes a grounding conductor. To reduce risk of electric shock, be certain that it is properly connected to ground.
- To avoid hazards when installing or servicing, install a double pole disconnect near the pump installation.
- The pump should only be used with liquids compatible with pump component materials. If the pump is used with liquids incompatible with the pump components, the liquid can cause failure to the electrical insulation system resulting in electrical shock.
- Do not use the power cord for lifting the pump.

CAUTION



Risk of bodily injury, electric shock, or property damage.

- This equipment must not be used by children or persons with reduced physical, sensory, or mental abilities, or lacking in experience and expertise, unless supervised or instructed. Children may not use the equipment, nor may they play with the unit or in the immediate vicinity.
- Do not use this pump for pumping any liquid intended for human consumption.
- Equipment can start automatically. Always disconnect the electrical power before servicing the pump.
- An inoperative or malfunctioning pump could lead to flooding, resulting in personal injury or property damage.
- Do not run pump dry. Running dry will cause serious damage to the pump.
- Do not let the unit freeze. Freezing may cause cracking or distortion that may destroy the unit.
- Operation of this equipment requires detailed installation and operation instructions provided in this manual, along with the original installation/service manual for use with this product. Read entire manual before starting installation and operation.
- End User should receive and retain manual for future use.
- Keep safety labels clean and in good condition.
- Wear safety glasses while installing or performing maintenance on the pump.

INSTALLATION

First Steps

1. Remove electrical power to the panel and pump.
2. Check the existing electrical panel to ensure that breakers and wire gauges meet or exceed National Electric Code (NEC) guidelines.
3. If water is present in the basin, drain it to the level of the intake using an external pump or vacuum. Dispose of all septic in accordance with local, state, and national codes.
4. Disconnect the electrical quick-disconnect plug located inside the basin, if applicable.
5. Remove the bolts securing the existing assembly, if applicable.
6. Rotate the ball valve lever to the CLOSED position.
7. Remove the existing pump assembly from the basin and set it aside.

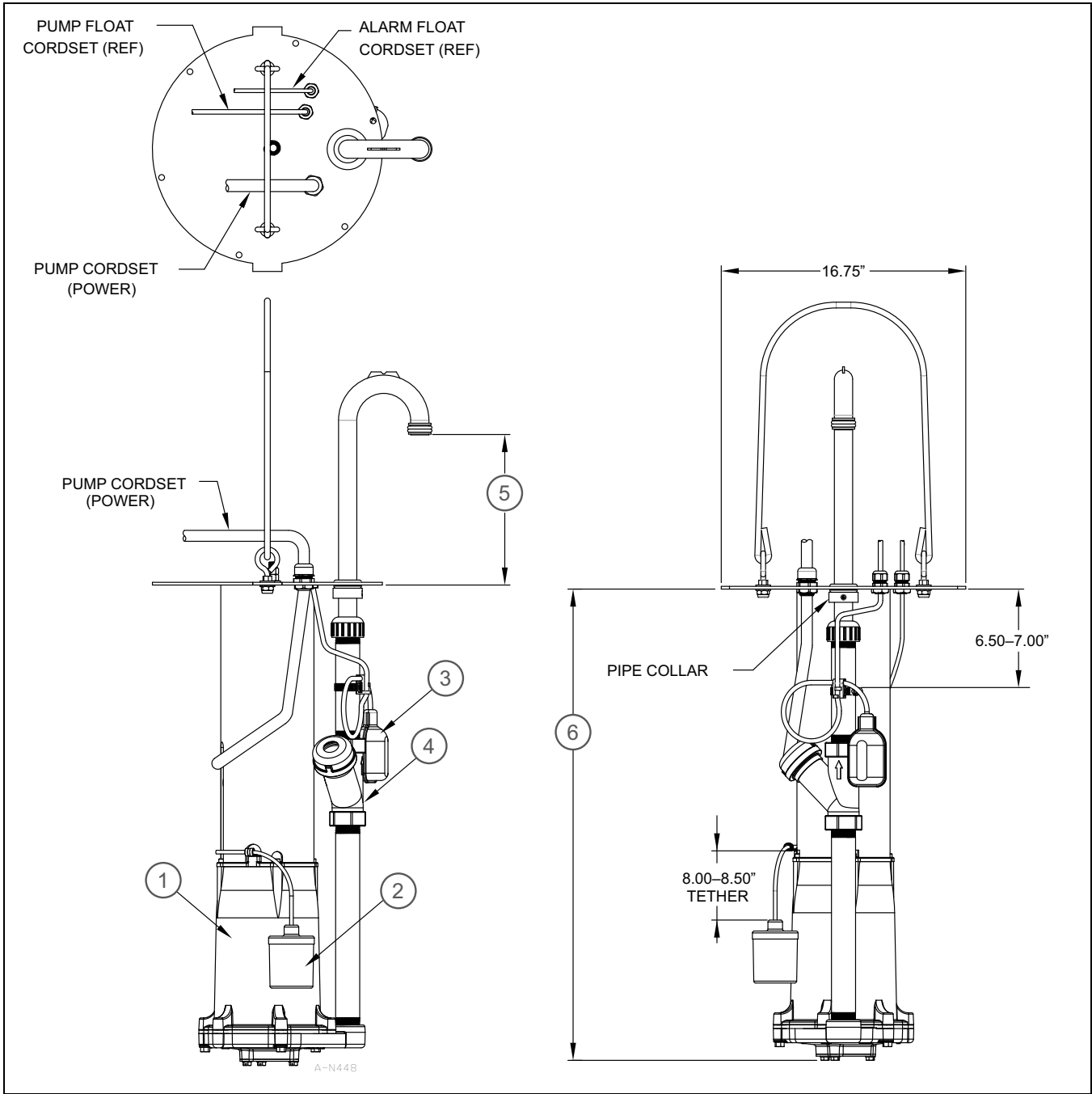
Preparation for assembly

1. Remove the packaging from the kit, retaining the assembly pack and instructions.
2. Thoroughly read the pump owner's manual to familiarize yourself with its operation.
3. **Models with telescoping discharge (515801, 515835):** Once the old assembly has been removed, measure the distance from the bottom of discharge to the bottom of the cover plate (Dimension A) then adjust the discharge on the new retrofit assembly to the same height. Follow these steps to adjust the discharge height:
 - a. Loosen the set screw on the pipe collar located below the cover plate.
 - b. Raise or lower the discharge pipe to the desired height.
 - c. Reposition the pipe collar against bottom of cover plate then tighten set screw.
4. Remove the nameplate from the cord and set it aside.
5. Apply gasket tape to the bottom perimeter of the plate assembly.
6. Use an awl or similar tool to poke through the gasket tape at the bolt holes on the plate assembly perimeter. This will allow the bolts to be installed through the cover and into the basin.
7. Apply Magic Lube (included) to the O-rings on the discharge assembly to help the component slide into place.

Placement in Basin

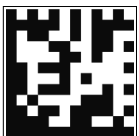
1. Use the rope to lift the kit into the basin and lower it into place.
2. Align the tabs on the plate to the slots on the basin.
3. Align the discharge fitting to the ball valve on the basin, and lower in completely. The assembly should rest on the plate, with the discharge fitting nesting into the existing ball valve fitting.
4. Connect the 6-pin plug and receptacle, and tighten the screws.
5. Install the 6 bolts (included) through the plate and into the basin, then tighten them.
6. Restore electricity to the panel and pump.
7. Fill the basin with water and observe that the pump operates properly. If the pump does not operate properly, refer to the troubleshooting section of the pump owner's manual.
8. Replace the basin lid and lock the unit, if applicable.
9. Affix the pump nameplate (included) to the existing control box or panel so that the pump can be identified.

REPLACEMENT PARTS AND DIMENSIONS



Item	Part No	Description	Quantity
1	515861	IGP-A231-20 Pump	1
	515701	IGPHR-A231-30 Pump	1
2	593318	Pump float switch	1
3	950269	High-water alarm float	1
4	940005	1 1/4" cast iron ball check/anti-siphon valve	1

Item	Dimension
5	For Telescoping Discharge models, see Step 3 in Preparation for assembly
6	IGP Models: 31.6 inches IGPHR Models: 32.85 inches



For technical assistance, parts, repair, or warranty information, please contact:

800.348.2420 | franklinengineered.com

