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> BURCAM 300781 1/2 HP Cast Iron Submersible Sump Pump Instruction Manual

BurCam 300781

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Instruction Manual

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your BURCAM 300781 1/2 HP Cast Iron Submersible Sump Pump. Please read all instructions carefully before installation and use to ensure proper function and to prevent injury or damage.

SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- **Electrical Safety:** Ensure the power supply matches the pump's requirements (115 volts). Always disconnect power before servicing the pump. Do not operate the pump with a damaged cord or plug.
- **Water Safety:** This pump is designed for clear water. Do not use it for flammable liquids, sewage, or corrosive chemicals. Ensure proper grounding to prevent electric shock in wet environments.
- **Installation:** Install the pump in a well-ventilated area. Do not block the pump's intake. Ensure the sump basin is free of debris.
- **Children:** Keep children away from the pump and its operating area.

PRODUCT OVERVIEW

The BURCAM 300781 is a robust 1/2 HP submersible sump pump designed for automatic drainage of basement sump pits. Its durable construction ensures reliable performance.

300781

1/2 HP

**SUBMERSIBLE
SUMP PUMP**

**Pumps up to 3000 US GPH
Maximum Lift of 25 Feet**

PUMP CAPACITY

LIFT	LPH	US GPH
25' 7,5m	1325	350
20' 6,0m	2840	750
15' 4,5m	5300	1400
10' 3,0m	8325	2200
5' 1,5m	11350	3000

Friction loss in pipe not included



**Ideal for residential
automatic drainage
of basement sump pits**

- Made of rugged cast iron and non-corrosive Noryl
- 1 1/2" discharge with 1 1/4" reducer
- Oil-cooled motor
- 8' electrical cords

Replaces upright and submersible pumps and designed for a permanent installation in a 14" basin and larger.



Water out
PUMP SYSTEM

www.burcam.com



Image: BURCAM 300781 1/2 HP Cast Iron Submersible Sump Pump. This image displays the pump unit with its power cord and float switch, highlighting its robust cast iron construction.

Key Features:

- **Power:** 1/2 HP, 115 volts, oil-cooled motor.
- **Construction:** Rugged cast iron body with a non-corrosive Noryl base.

- **Automatic Operation:** Equipped with an adjustable tethered float switch.
- **Capacity:** Pumps up to 3000 US GPH (Gallons Per Hour).
- **Lift:** Maximum vertical pumping lift of 25 feet.
- **Discharge:** 1 1/2 inch discharge, includes a 1 1/4 inch reducer.
- **Power Cable:** 8-foot electrical cord.
- **Sump Basin:** Suitable for sump basins as small as 14 inches in diameter.

INSTALLATION AND SETUP

Proper installation is crucial for the pump's performance and longevity.

1. **Sump Basin Preparation:** Ensure the sump basin is clean and free of debris, gravel, or other foreign objects that could obstruct the pump's intake or impeller. The basin should be at least 14 inches in diameter.
2. **Positioning the Pump:** Place the pump on a solid, level surface at the bottom of the sump basin. Ensure it is not resting directly on dirt or gravel.
3. **Discharge Pipe Connection:** Connect a 1 1/2 inch discharge pipe to the pump's outlet. Use the provided 1 1/4 inch reducer if necessary for your plumbing system. It is recommended to install a check valve in the discharge line to prevent water from flowing back into the sump when the pump shuts off.
4. **Float Switch Adjustment:** Position the tethered float switch so it can move freely without obstruction. Adjust the tether length to set the desired ON and OFF levels for the pump. Ensure the float does not touch the sides of the sump basin or any pipes.
5. **Electrical Connection:** Plug the 8-foot power cord into a properly grounded 115-volt electrical outlet. Ensure the outlet is protected by a Ground Fault Circuit Interrupter (GFCI) for safety. Do not use extension cords.
6. **Testing:** After installation, fill the sump basin with water to verify the pump activates and deactivates correctly at the desired levels. Check for any leaks in the discharge piping.

OPERATION

The BURCAM 300781 sump pump operates automatically via its tethered float switch.

- When the water level in the sump basin rises and lifts the float switch to its "ON" position, the pump will automatically activate and begin to discharge water.
- Once the water level drops and the float switch returns to its "OFF" position, the pump will automatically shut off.
- Ensure the float switch has a clear path of movement and is not hindered by debris or the sump basin walls.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your sump pump.

- **Monthly Inspection:** Periodically check the sump basin for accumulated debris, silt, or gravel. Clean the basin as needed to prevent clogging of the pump intake.
- **Float Switch Check:** Manually lift the float switch to ensure it activates the pump. Observe that it returns to the "OFF" position freely.
- **Impeller Inspection:** If the pump's performance decreases, disconnect power and inspect the impeller for obstructions. Clear any debris carefully.
- **Power Cord:** Inspect the power cord for any signs of damage, fraying, or cuts. Replace if damaged.
- **Winterization (if applicable):** If the pump is in an area subject to freezing temperatures and will not be used, disconnect power, remove the pump, clean it, and store it in a dry, warm place.

TROUBLESHOOTING

Refer to this section for common issues and their potential solutions.

Problem	Possible Cause	Solution
Pump does not start.	No power; tripped GFCI; float switch obstructed or faulty; motor overload.	Check power connection and GFCI. Ensure float switch moves freely. Disconnect power, wait for motor to cool, then reconnect.
Pump runs but no water is discharged.	Clogged intake or impeller; air lock; discharge pipe blocked; water level too low.	Disconnect power, clear intake/impeller. Check for air lock (tilt pump). Inspect discharge pipe for blockages. Ensure water level is sufficient.
Pump runs continuously.	Float switch stuck in "ON" position; check valve faulty; continuous water inflow.	Check float switch for obstructions. Inspect or replace check valve. Identify and address source of continuous water inflow.
Pump cycles too frequently.	Float switch set too low; small sump basin; backflow from discharge pipe.	Adjust float switch to allow more water accumulation. Ensure check valve is functioning correctly.

If troubleshooting steps do not resolve the issue, contact customer support.

SPECIFICATIONS

Model Number	300781
Horsepower	1/2 HP
Voltage	115 Volts
Material	Cast Iron body, Noryl base
Max Flow Rate	3000 US GPH
Max Vertical Lift	25 feet
Discharge Size	1 1/2 inches (includes 1 1/4 inch reducer)
Power Cord Length	8 feet
Minimum Sump Basin Diameter	14 inches
Item Weight	15.22 pounds
Product Dimensions	11.5 x 9.5 x 14 inches

WARRANTY AND SUPPORT

The BURCAM 300781 sump pump comes with a **2-Year Warranty** from the date of purchase, covering defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or replacement parts, please contact BurCam customer support. Refer to the official BurCam website for the most current contact information.

Official Website: www.burcam.com

