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- › [Ebara](#) /
- › [EBARA AGA 0.75 M Self-Priming Pump User Manual](#)

**Ebara 1100090000**

# EBARA AGA 0.75 M Self-Priming Pump User Manual

Model: 1100090000

## 1. PRODUCT OVERVIEW

The EBARA AGA 0.75 M is a robust single-phase self-priming electric pump constructed from cast iron, designed for efficient clean water transfer. Its applications include domestic water pressure boosting, small-scale garden irrigation, vehicle washing, and general water movement tasks.



This image shows the EBARA AGA 0.75 M self-priming pump, featuring a blue cast iron body and an integrated electric motor with a black terminal box on top. The pump has visible inlet and outlet connections.

## 2. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity. Follow these general guidelines:

- 1. Placement:** Install the pump in a dry, well-ventilated area, protected from frost and direct sunlight. Ensure a stable, level surface to minimize vibration.
- 2. Pipe Connections:** Connect the suction pipe to the pump's G1 suction port and the delivery pipe to the G1 delivery port. Ensure all connections are airtight to prevent air ingress, which can affect priming. Use appropriate sealants and fittings.
- 3. Electrical Connection:** The pump operates on 230 V  $\pm$  10% 50 Hz single-phase power. Connect the pump to a suitable electrical supply according to local regulations. Ensure the circuit is protected by a permanent capacitor and an automatic reset thermal-amperometric protection device.
- 4. Priming:** As a self-priming pump, it can draw water from a certain depth (up to 8m). Before initial startup, fill the pump body completely with clean water through the priming port until it overflows. This ensures the pump can establish suction.

### 3. OPERATING INSTRUCTIONS

Once installed and primed, the pump is ready for operation:

- Initial Start-up:** After priming, switch on the power supply. The pump should start drawing water and build pressure.
- Monitoring:** Observe the pump during operation. Listen for unusual noises and check for leaks. Ensure consistent water flow and pressure.
- Continuous Operation:** The pump is designed for continuous duty within its specified operating limits. Avoid running the pump dry, as this can cause damage to the mechanical seal.
- Shut-down:** To stop the pump, simply switch off the power supply.

### 4. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your pump:

- Regular Inspection:** Periodically check all connections for leaks and ensure the pump is securely mounted. Inspect the power cable for any damage.
- Cleaning:** Keep the pump exterior clean and free from debris. Ensure the motor's ventilation fins are not obstructed to prevent overheating.
- Winterization (if applicable):** In areas prone to freezing temperatures, drain the pump completely to prevent damage from ice expansion. Disconnect pipes and open drain plugs. Store the pump in a frost-free environment if possible.
- Mechanical Seal:** The mechanical seal is a wear part. If persistent leaks occur from the shaft area, the seal may need replacement by a qualified technician.

### 5. TROUBLESHOOTING

This section addresses common issues you might encounter:

| Problem             | Possible Cause  | Solution  |
|---------------------|---|---|
| Pump does not start | No power supply; Motor overload protection tripped; Seized impeller | Check power connection and circuit breaker; Allow motor to cool and reset protection; Contact qualified technician. |

| Problem                      | Possible Cause   | Solution   |
|------------------------------|--|--|
| Pump runs but no water flow  | Pump not primed; Air leak in suction line; Suction lift too high; Clogged suction filter | Re-prime the pump; Check all suction connections for leaks; Ensure suction depth is within 8m limit; Clean suction filter. |
| Low pressure or reduced flow | Partial air leak; Partially clogged impeller/pipes; Worn impeller or mechanical seal     | Check suction line for small leaks; Inspect and clean impeller/pipes; Contact qualified technician for inspection.         |
| Excessive noise or vibration | Cavitation (air in water); Loose mounting; Bearing wear                                  | Ensure proper priming and no air leaks; Securely fasten pump; Contact qualified technician.                                |

## 6. SPECIFICATIONS





| Feature                    | Detail                     |
|----------------------------|----------------------------|
| Manufacturer               | Ebara                      |
| Model Number               | 1100090000                 |
| Material                   | Cast Iron                  |
| Power Source               | Corded Electric            |
| Voltage                    | 230 Volts (AC)             |
| Maximum Operating Pressure | 6 bar                      |
| Maximum Liquid Temperature | 45 °C                      |
| Maximum Suction Depth      | 8 m                        |
| Suction Connection         | G1                         |
| Delivery Connection        | G1                         |
| Motor Efficiency           | IE2 and IE3 (from 0.75 kW) |
| Insulation Class           | F                          |
| Protection Degree          | IP44                       |
| Package Dimensions         | 40.5 x 18.5 x 18 cm        |
| Item Weight                | 12.5 kilograms             |
| Batteries Included         | No                         |
| Batteries Required         | No                         |
| Spare Parts Availability   | Information unavailable    |



## 7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your authorized Ebara dealer. Information regarding spare parts availability is currently not provided in the product specifications.

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Related Documents - 1100090000

|   |  |
|---|--|
|    | <p><a href="#">EBARA JE(S)(X), AG(..) Surface Pumps - Operating and Maintenance Manual</a></p> <p>Comprehensive operating and maintenance manual for EBARA JE(S)(X), AG(..) series surface pumps. Includes technical specifications, installation guidelines, usage instructions, and safety precautions.</p>  |
|   | <p><a href="#">EP BASIC 1-2 Electronic Control Panel for Single or Three-Phase Pumps</a></p> <p>The EP BASIC 1-2 is an electronic control panel designed for managing one or two single-phase or three-phase pumps. It offers features like dry-running protection, thermal overload protection, and alarm signaling, suitable for clean water and wastewater systems. The panel is compact, easy to install and program, and available with various accessories and special configurations.</p> |
|  | <p><a href="#">EP BASIC 1-2 Electronic Control Panel for 1 or 2 Single-Phase or Three-Phase Pumps</a></p> <p>The EP BASIC 1-2 is an electronic control panel designed for managing one or two single-phase or three-phase pumps. It offers features like anti-seizing, dry-run protection, and overload protection, with options for remote control and advanced accessories. Suitable for clean and wastewater applications.</p>  |
|  | <p><a href="#">EBARA CDA Series Centrifugal Pumps - Technical Specifications and Performance Data</a></p> <p>Comprehensive technical data, performance curves, dimensions, and motor specifications for EBARA CDA series centrifugal pumps (50Hz). Includes detailed information on materials, mechanical seals, bearings, and packing for various models.</p>   |

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|   | <p><a href="#">EP BASIC 1-2 Electronic Control Panel for Pumps</a></p> <p>EP BASIC 1-2 is an electronic control panel designed for 1 or 2 single-phase or three-phase pumps. It offers features like anti-seizure, maximum control, and easy installation, making it suitable for clean water and wastewater systems. The panel includes various protections and optional accessories for enhanced functionality.</p> |
|  | <p><a href="#">EBARA EVMS 1-90 Vertical Multistage Pumps Product Catalogue</a></p> <p>Comprehensive product catalogue for EBARA EVMS 1-90 vertical multistage pumps, detailing features, applications, performance ranges, construction, and global sales network. Learn about innovative hydraulic solutions, reliability, and technical specifications.</p>   |

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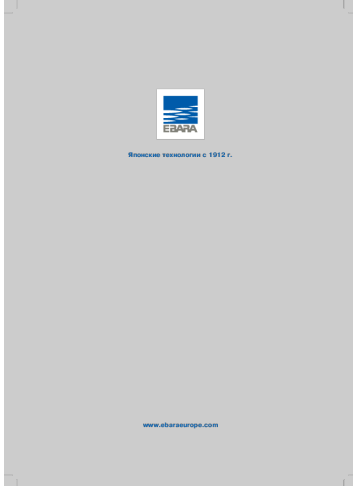


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