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- › [Einhell](#) /
- › [Einhell AQUINNA 36/30 Cordless Garden Pump Instruction Manual](#)

Einhell AQUINNA 36/30 (Model 4180400)

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Model: AQUINNA 36/30 (4180400)

1. INTRODUCTION

The Einhell AQUINNA 36/30 Cordless Garden Pump is designed for efficient and environmentally friendly water transfer in your garden. It allows you to utilize rainwater, well water, or cistern water, contributing to water conservation and cost savings. This pump is part of the Power X-Change family, operating on two 18V Power X-Change batteries (not included). All batteries within the Power X-Change system are interchangeable with other tools in the range.

The pump features a two-level ECO switch for optimal performance, offering an energy-saving mode with reduced delivery pressure or full power mode. It boasts a maximum delivery height of 26 meters, a maximum suction height of 8 meters, and a maximum flow rate of 3,000 liters per hour. The suction connection is 42 mm (1 1/4" AG) and the pressure connection is 33.3 mm (R1 IG). For protection against frost, the pump includes a water filling screw and a water drain screw, allowing safe storage during colder seasons. Thermal protection safeguards the motor from overload. A practical carrying handle ensures easy transport to any location.



Figure 1: Einhell AQUINNA 36/30 Cordless Garden Pump. This image shows the pump in its operational setup, highlighting its compact design and readiness for use in a garden environment.

2. SAFETY INSTRUCTIONS

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

- **General Safety:** Keep the work area clean and well-lit. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication.
- **Power Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts.

3. PRODUCT OVERVIEW

The Einhell AQUINNA 36/30 Cordless Garden Pump is designed for portability and ease of use. Key components include:

- **Battery Compartment:** Houses two 18V Power X-Change batteries.
- **Control Switch:** Allows selection between OFF, ECO, and BOOST modes.
- **Water Filling Screw:** For priming the pump before operation.
- **Water Drain Screw:** For emptying the pump to prevent frost damage.
- **Suction Port:** Connects to the water source hose (42 mm / 1 1/4" AG).
- **Pressure Port:** Connects to the irrigation hose (33.3 mm / R1 IG).

- **Comfort Handle:** For easy transport.



Figure 2: Comfort Handle. The integrated handle provides a secure grip for easy portability of the pump.



Figure 3: Control Switch. This image details the power and mode selection switch, allowing users to choose between BOOST, OFF, and ECO settings.

4. SETUP

4.1. Battery Installation

1. Ensure the pump is switched OFF.
2. Open the battery compartment cover.
3. Insert two fully charged 18V Power X-Change batteries into their respective slots. Ensure they click into place securely.
4. Close the battery compartment cover.



Figure 4: Battery Insertion. This image shows the correct way to insert two 18V Power X-Change batteries into the pump's compartment.



Figure 5: Batteries and Charger Not Included. A reminder that these essential components are sold separately.

4.2. Hose Connections

1. Connect the suction hose to the 42 mm (1 1/4" AG) suction port. Ensure a tight, airtight connection to prevent air leaks.
2. Connect the irrigation hose to the 33.3 mm (R1 IG) pressure port.
3. Place the end of the suction hose into your water source (rain barrel, well, cistern).



Figure 6: Suction Port. This image highlights the connection point for the suction hose, crucial for drawing water into the pump.

4.3. Priming the Pump

Before first use or if the pump has run dry, it must be primed with water.

1. Unscrew the water filling screw located on the top of the pump.
2. Carefully fill the pump housing with water until it overflows.
3. Replace and tighten the water filling screw securely.



Figure 7: Water Filling Screw. This image shows the location of the screw used to fill the pump with water for priming.

5. OPERATING

5.1. Starting the Pump

1. Ensure batteries are installed, hoses are connected, and the pump is primed.
2. Select the desired operating mode using the control switch:
 - **ECO Mode:** Provides prolonged battery runtime (up to 90% longer) with slightly reduced pressure for equivalent flow. Ideal for general watering tasks.
 - **BOOST Mode:** Delivers full power and maximum pressure for demanding applications.
3. The pump will start operating.



Figure 8: ECO Mode Switch. This image highlights the switch for selecting the energy-efficient ECO mode.

5.2. Stopping the Pump

To stop the pump, simply move the control switch to the OFF position.

5.3. Battery Runtime Overview

The following tables provide approximate battery runtimes for various Power X-Change battery capacities in both ECO and BOOST modes. Runtimes may vary based on application and environmental conditions.

ECO Mode Battery Runtimes	

Figure 9: ECO Mode Battery Runtimes. This table illustrates the extended operating times achievable in ECO mode with different battery capacities.

Durée de fonctionnement maximale par charge de batterie

Mode BOOST



Les appareils 36 V de la gamme Power X-Change fonctionnent également avec des batteries de tailles différentes. Dans ce cas, il faut prendre la capacité de la batterie la plus petite.

Figure 10: BOOST Mode Battery Runtimes. This table provides estimated operating times when the pump is used at full power in BOOST mode.

6. MAINTENANCE

6.1. Frost Protection and Storage

To prevent damage from freezing temperatures, it is crucial to completely drain the pump before storing it for the winter season.

1. Switch the pump OFF and remove the batteries.
2. Disconnect all hoses.
3. Unscrew the water drain screw located at the bottom of the pump.
4. Tilt the pump to ensure all water drains out.
5. Once completely drained, replace and tighten the water drain screw.
6. Store the pump in a dry, frost-free location.



Figure 11: Frost Protection. This image shows the water drain screw, essential for emptying the pump to prevent freezing damage.



Figure 12: Draining the Pump. A visual guide to opening the drain screw to remove water from the pump for winter storage.

6.2. General Cleaning

Regularly clean the exterior of the pump with a damp cloth. Do not use harsh detergents or solvents. Ensure no debris obstructs the suction or pressure ports.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Einhell AQUINNA 36/30 pump.

Problem	Possible Cause	Solution
Pump does not start	Batteries are not charged or incorrectly inserted.	Check battery charge level and ensure they are correctly inserted. Recharge if necessary.
Pump runs but no water is delivered	Pump not primed; air in suction line; suction hose not submerged; suction filter blocked.	Prime the pump with water. Check all suction hose connections for airtightness. Ensure suction hose is fully submerged. Clean suction filter.
Low delivery pressure	ECO mode selected; partial blockage in hoses; pump not fully primed.	Switch to BOOST mode. Check hoses for kinks or blockages. Re-prime the pump.
Pump stops unexpectedly	Batteries depleted; thermal overload protection activated.	Replace/recharge batteries. Allow pump to cool down if thermal protection was triggered. Check for blockages or excessive load.

8. SPECIFICATIONS

- **Brand:** Einhell
- **Model Number:** 4180400
- **Product Dimensions (L x W x H):** 44.8 x 20.2 x 21.9 cm
- **Item Weight:** 3.3 Kilograms
- **Material:** Plastic
- **Color:** Red; Black
- **Power Source:** Battery Powered (36V, requires 2x 18V Power X-Change batteries)
- **Maximum Flow Rate:** 3000 Litres per hour
- **Maximum Delivery Height:** 26 Metres
- **Maximum Suction Height:** 8 Metres
- **Suction Connection:** 42 mm (1 1/4" AG)
- **Pressure Connection:** 33.3 mm (R1 IG)
- **Special Features:** ECO switch, Thermal protection, Water filling screw, Water drain screw, Carrying handle
- **Country of Origin:** China

9. WARRANTY AND SUPPORT

For warranty information, service, or technical support, please refer to the official Einhell website or contact your local authorized Einhell dealer. Keep your purchase receipt as proof of purchase for any warranty claims.

