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Brandson 684161581

Brandson Smart Home Wi-Fi Irrigation System User Manual

Model: 684161581

Introduction

The Brandson Smart Home Wi-Fi Irrigation System provides an efficient and convenient way to automate plant watering for up to 10 potted plants. Designed for both indoor and outdoor use, this system integrates with SmartLife or Tuya Smart apps, offering remote control and scheduling capabilities. This manual provides detailed instructions for setting up, operating, and maintaining your irrigation system to ensure optimal plant care.



Image: The Brandson Smart Home Wi-Fi Irrigation System automatically watering several potted plants, demonstrating its application in a home environment.

Package Contents

Carefully unpack the box and ensure all the following components are present:

- 1x Control Unit
- 1x 10-meter Water Hose
- 1x Water Filter
- 1x Check Valve
- 10x T-Connectors
- 3x Straight Connectors
- 3x Cross Connectors
- 10x Micro Drip Emitters

- 10x Shut-off Valve Connectors
- 3x End Caps
- 1x USB Cable (1m)

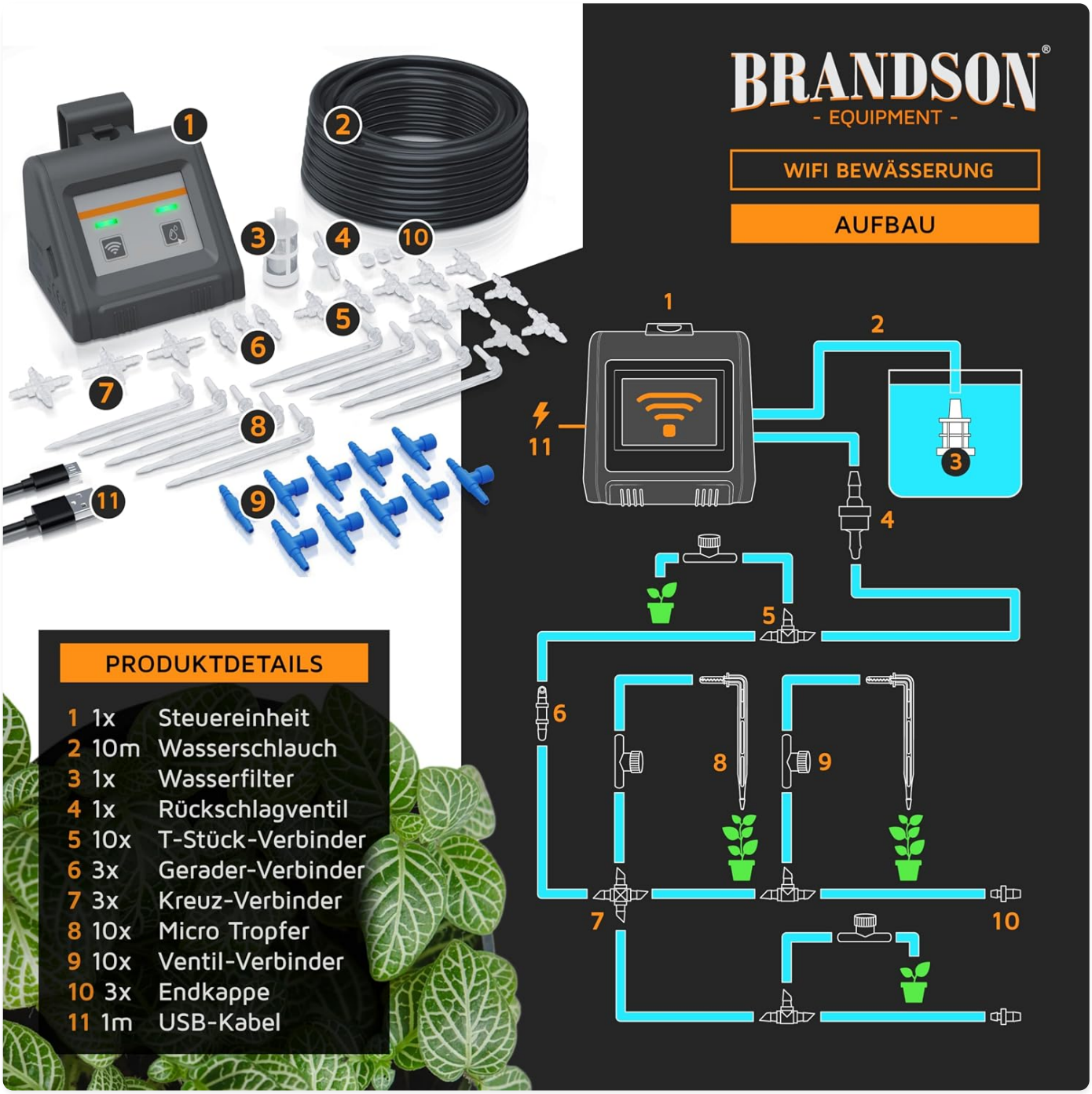


Image: An exploded view of the Brandson irrigation system components, including the control unit, hose, various connectors, and drip emitters, alongside an assembly diagram.

Setup

1. Power Supply

The control unit can be powered by two methods:

1. **USB Power:** Connect the provided USB cable to the control unit and a 5V DC 1A USB power adapter (not included).
2. **Battery Power:** Insert 4 x 1.5V AA batteries (not included) into the battery compartment. Ensure correct polarity.



Image: The Brandson control unit with its back cover removed, revealing the battery compartment for four AA batteries and the USB port for alternative power.

2. System Assembly

1. **Connect Water Filter:** Attach the water filter to the inlet of the control unit. This prevents debris from entering the system.
2. **Connect Hose:** Cut the 10-meter hose to desired lengths for each plant. Connect one end of the main hose to the outlet of the control unit.
3. **Install Connectors and Drip Emitters:** Use the T-connectors, straight connectors, and cross connectors to create your desired irrigation layout. Insert micro drip emitters into the hose near each plant's root area. Use shut-off valve connectors to adjust water flow to individual plants if needed.
4. **Install Check Valve:** Integrate the check valve into the main hose line to prevent backflow of water.
5. **Secure End Caps:** Close off any open hose ends with the provided end caps.
6. **Position Control Unit:** Place the control unit near a water source (e.g., a bucket or reservoir) ensuring the water

filter is submerged. The unit has an IP54 protection class, suitable for outdoor use, but protect it from direct heavy rain if possible.

3. App Installation and Pairing

1. **Download App:** Download either the "SmartLife" or "Tuya Smart" app from your smartphone's app store (iOS or Android).
2. **Create Account:** Open the app and create a new user account or log in if you already have one.
3. **Add Device:** Follow the in-app instructions to add a new device. Ensure your smartphone is connected to a 2.4 GHz Wi-Fi network. The irrigation system operates on 2.4 GHz (2412-2472 MHz).
4. **Pairing Mode:** Refer to the control unit's display or indicator lights for pairing mode. The app will guide you through the connection process.

Operating Instructions

1. App Control

Once paired, you can control and schedule your irrigation system via the SmartLife or Tuya Smart app:

- **Irrigation Duration:** Set the watering time from 20 seconds to 30 minutes.
- **Irrigation Frequency:** Schedule watering intervals from 1 hour to 7 days.
- **Manual Irrigation:** Initiate a manual watering cycle for 30 seconds directly from the app.
- **Adjust Water Quantity:** Fine-tune the water amount based on plant needs and weather conditions.



Image: A smartphone displaying the SmartLife app, illustrating the controls for setting irrigation duration (20 seconds to 30 minutes) and frequency (1 hour to 7 days) for the Brandson system.

2. Manual Control (Device Buttons)

The control unit features two film buttons for basic manual operation:

- One button typically controls Wi-Fi pairing mode.
- The other button can initiate a manual watering cycle (e.g., 30 seconds).



Image: The Brandson control unit positioned next to a potted plant, demonstrating direct root watering and indicating the manual watering button on the device.

3. Voice Control

For added convenience, you can integrate the system with voice assistants:

- Connect your SmartLife app to Amazon Alexa or Google Assistant.
- Use voice commands to start or stop irrigation (e.g., "Alexa, start watering the garden" or "Hey Google, turn off the irrigation system").

Maintenance

- **Clean Water Filter:** Regularly check and clean the water filter to prevent blockages and ensure consistent water flow.
- **Check Hoses and Emitters:** Periodically inspect hoses for kinks or damage, and ensure drip emitters are not

clogged. Clean or replace as necessary.

- **Battery Replacement:** If using battery power, replace AA batteries when the low battery indicator appears on the control unit or in the app.
- **Winterization (if applicable):** For outdoor use in freezing climates, disconnect and drain the system before the first frost to prevent damage from ice expansion. Store components in a dry, protected area.

Troubleshooting

- **No Water Flow:**
  - Check if the water source (e.g., bucket) has sufficient water.
  - Ensure the water filter is clean and not clogged.
  - Verify all hose connections are secure and there are no kinks.
  - Check if the pump is operating (listen for a faint hum).
- **System Not Connecting to Wi-Fi:**
  - Ensure your Wi-Fi network is 2.4 GHz. The system does not support 5 GHz networks.
  - Check if the control unit is within range of your Wi-Fi router.
  - Restart the control unit and your router.
  - Attempt to re-pair the device through the app.
- **Inaccurate Watering Times/Schedules:**
  - Verify settings in the SmartLife/Tuya Smart app.
  - Ensure the device's internal clock is synchronized with the app (requires active Wi-Fi connection).
- **Low Water Pressure/Uneven Distribution:**
  - Check for blockages in drip emitters or hoses.
  - Ensure the water source is elevated enough or the pump is functioning correctly.
  - Adjust shut-off valve connectors to balance flow to individual plants.

Specifications

Brand	Brandson
Model Number	684161581
Power Supply	5V DC 1A via USB (included) or 4x 1.5V AA batteries (not included)
Protection Class	IP54
Inlet/Outlet Diameter	4 mm
Max Flow Rate	30 l/h
Water Pressure	0.3 bar
Hose Length	10 m
Wi-Fi Frequency	2.4 GHz (2412-2472 MHz)
Dimensions (Control Unit)	67 x 84 x 74 mm

Weight (Control Unit)	160 g
Weight (Complete Set)	615 g

Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Brandson website. Keep your proof of purchase for warranty claims.
For further assistance, you may contact Brandson customer service through their official channels. Please have your model number (684161581) ready when contacting support.

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