

Techomey HFT-016CCH2E1-DE

Techomey R290 16 kW Air-to-Water Heat Pump User Manual

Model: HFT-016CCH2E1-DE

1. INTRODUCTION

Thank you for choosing the Techomey R290 16 kW Air-to-Water Heat Pump. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your heat pump. Please read this manual thoroughly before installation and use, and keep it for future reference.

1.1 Safety Information

- Installation and maintenance must be performed by qualified personnel only.
- Ensure the power supply matches the specifications of the unit.
- Do not block the air intake or outlet of the outdoor unit.
- Keep children away from the unit during operation.
- The unit contains R290 refrigerant, which is flammable. Handle with care and ensure proper ventilation during servicing.

2. PRODUCT OVERVIEW

The Techomey R290 16 kW Air-to-Water Heat Pump is an energy-efficient solution for domestic hot water and heating/cooling. It features an A+++ energy rating, a SCOP of 5.1, and operates quietly. The unit is designed for reliable performance across a wide temperature range.

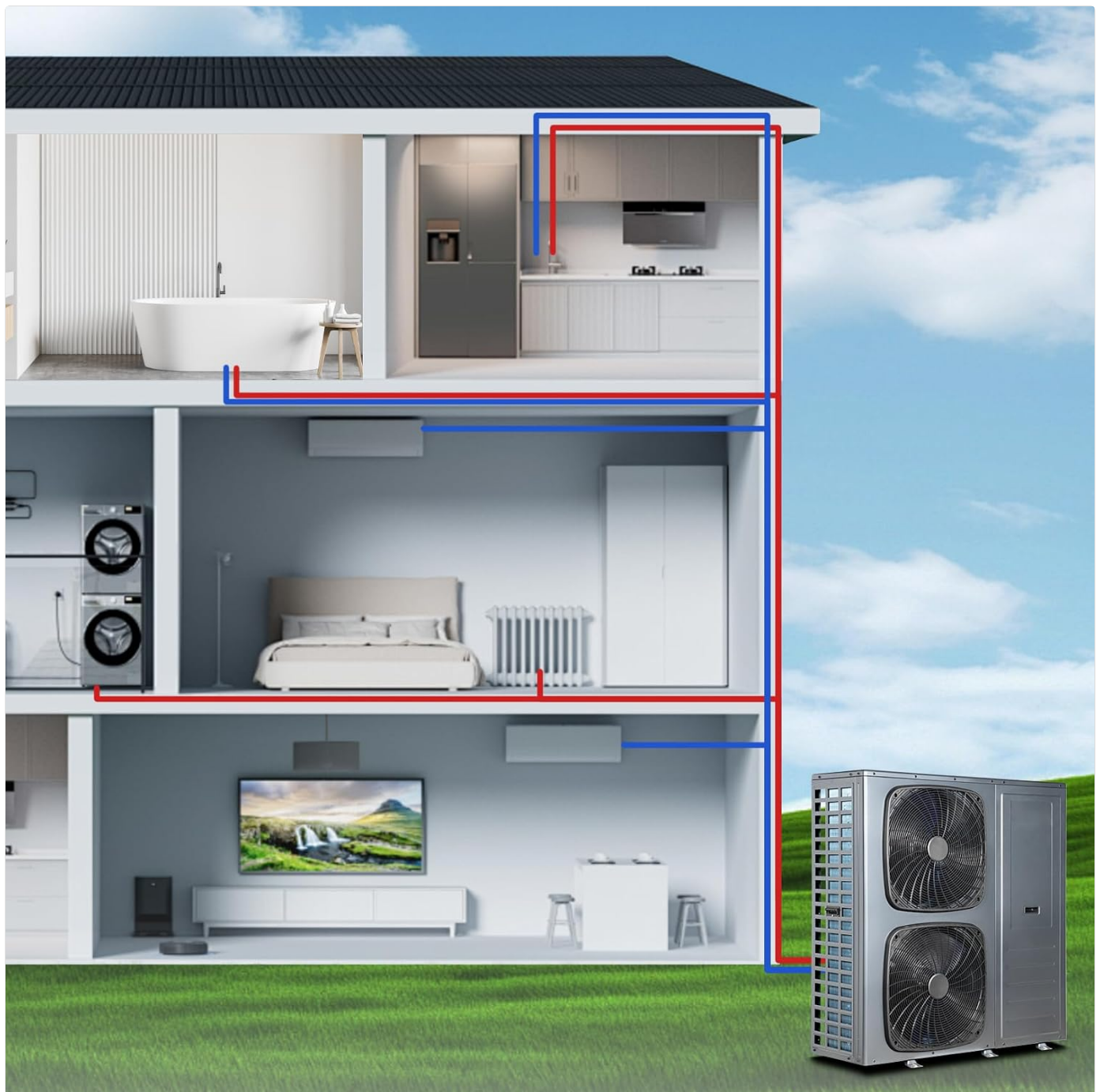


Figure 2.1: System Diagram. This image illustrates how the outdoor heat pump unit connects to the indoor heating and hot water distribution systems within a multi-story house, showing the flow of water through red and blue pipes.



Figure 2.2: A+++ Energy Rating. The outdoor unit of the heat pump is shown next to a green sign indicating its A+++ energy efficiency rating, highlighting its high performance and energy savings.

3. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your heat pump. Refer to the detailed installation guide provided with the product for specific instructions.

3.1 Site Selection

- Choose a location with adequate space for air circulation around the unit.
- Ensure the foundation is level and strong enough to support the unit's weight.
- Minimize exposure to direct sunlight or strong winds if possible.

3.2 Dimensions and Clearances

Maintain the specified clearances around the unit for optimal performance and maintenance access.



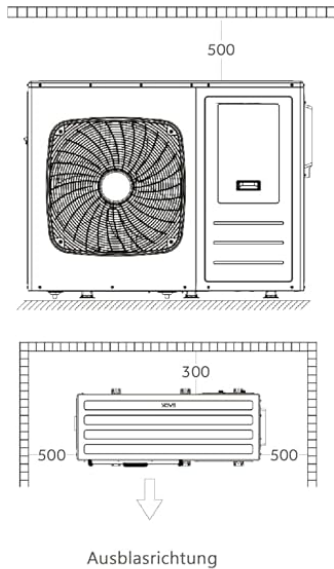
Figure 3.1: Unit Dimensions. This image displays the physical dimensions of the outdoor heat pump unit, indicating a width of 1312 mm, a depth of 470 mm, and a height of 1370 mm, essential for planning installation space.

Installationsszenario

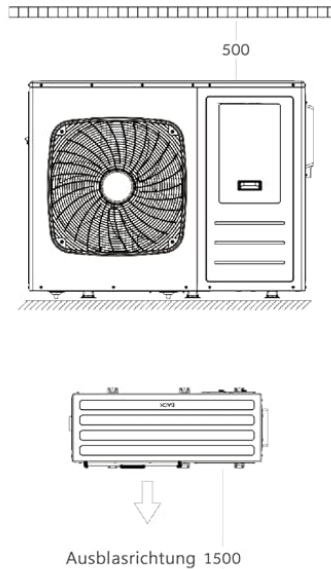
Installationsraum – "Einzelgerät-Set"

An der Oberseite des Geräts und an der Seite des Anschlusskastens ist ein Wartungsabstand von 500 mm vorzusehen.

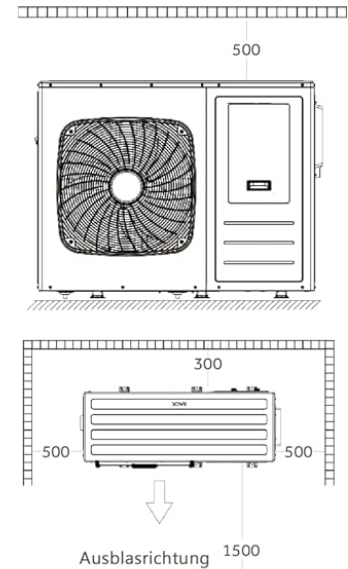
1 In Situationen, in denen sich an der Geräteseite eine umgebende Wand befindet.



2 In Fällen, in denen sich vor dem Gerät eine Wand befindet.



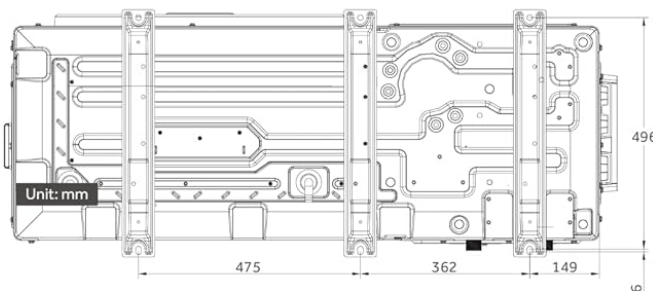
3 Das Gerät ist sowohl an der Vorder- als auch an der Rückseite von Wänden umgeben.



Einheit: mm

Es gilt das tatsächlich erworbene Gerät.

Installationsmaße



- Der Sockel ist zur Vermeidung übermäßiger Vibrationen und Geräusche ausgelegt. Der Außengerätesockel muss auf festem Untergrund oder einer Konstruktion mit ausreichender Tragfähigkeit für das Gerätegewicht errichtet werden.
- Das Fundament muss mindestens 130 mm hoch und 90 mm breit sein und mit Entwässerungsrinnen versehen werden, um ein Eindringen von Wasser in das Gehäuse zu verhindern. Es können sowohl Stahl- als auch Betonfundamente verwendet werden

Figure 3.2: Installation Clearances. This diagram illustrates various installation scenarios, detailing the minimum required distances (e.g., 500mm, 300mm) from surrounding walls to ensure proper airflow and maintenance access for the heat pump unit.

3.3 Electrical and Plumbing Connections

- All electrical wiring must comply with local codes and regulations.
- Ensure proper grounding to prevent electrical shock.
- Connect water pipes securely to prevent leaks. Insulate all water pipes to prevent heat loss/gain and freezing.

4. OPERATING INSTRUCTIONS

Your Techomey heat pump is equipped with an intuitive control panel for easy operation.

4.1 Control Panel Overview



Figure 4.1: Control Panel. This image displays the digital control panel of the heat pump, showing the display screen, function buttons (FUNC, MODE, QUERY, SET, +, -, Power), and various icons representing different operating modes and features such as Electric Auxiliary Heating, Child Lock, Anti-freezing Mode, Energy-saving Mode, Cooling Mode, Timer Mode, Smart Defrost Mode, Sterilization Mode, Vacation Mode, Heating Mode, Domestic Hot Water Mode, and Quiet Mode.

4.2 Basic Operation

- **Power On/Off:** Press the **Power** button to turn the unit on or off.

- **Mode Selection:** Use the **MODE** button to cycle through available operating modes (Heating, Cooling, Domestic Hot Water).
- **Temperature Adjustment:** Use the **+** and **-** buttons to set the desired water temperature, ranging from 5°C to 75°C.

4.3 Advanced Modes and Features

- **Quiet Mode:** Reduces fan speed and compressor output for quieter operation, ideal for nighttime.
- **Vacation Mode:** Maintains a low temperature to prevent freezing while you are away.
- **Anti-freezing Mode:** Automatically activates heating to prevent water pipes from freezing in cold conditions.
- **Energy-saving Mode:** Optimizes operation for reduced energy consumption.
- **Smart Defrost Mode:** Automatically defrosts the outdoor unit when ice buildup is detected, ensuring efficient operation in cold weather.
- **Sterilization Mode:** Heats water to a high temperature to sterilize the domestic hot water tank.
- **Child Lock:** Locks the control panel to prevent accidental changes to settings.
- **Timer Mode:** Allows scheduling of operation times.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your heat pump.

5.1 Routine Checks

- **Clean Outdoor Unit:** Periodically remove leaves, dirt, and debris from the outdoor unit's coils and fan blades. Ensure the air intake and outlet are clear.
- **Inspect Piping:** Check for any signs of leaks or damage to refrigerant and water pipes.
- **Electrical Connections:** Ensure all electrical connections are secure and free from corrosion. *(This should be done by a qualified technician.)*

5.2 Seasonal Maintenance

- **Before Heating Season:** Ensure the system is filled with water and purged of air. Check anti-freeze levels if applicable.
- **Before Cooling Season:** Clean the outdoor unit thoroughly. Verify proper drainage.

6. TROUBLESHOOTING

This section provides solutions for common issues. For complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Unit does not power on	No power supply; tripped circuit breaker	Check power connection; reset circuit breaker
Insufficient heating/cooling	Blocked airflow; incorrect temperature setting; low refrigerant	Clear obstructions; adjust temperature; contact technician for refrigerant check

Problem	Possible Cause	Solution
Unusual noise	Loose parts; debris in fan; compressor issue	Inspect unit for loose parts/debris; if noise persists, contact technician
Water leak	Loose pipe connection; damaged pipe; condensation drain issue	Tighten connections; inspect pipes for damage; clear condensation drain
Error code displayed	Specific system fault	Refer to the detailed error code list in the full manual or contact support with the code

7. SPECIFICATIONS

Key technical specifications for the Techomey R290 16 kW Air-to-Water Heat Pump.

Feature	Detail
Manufacturer	Techomey
Model Number	HFT-016CCH2E1-DE
Heating Capacity	16 kW
Energy Efficiency Class	A+++
SCOP (Seasonal Coefficient of Performance)	5.1
Refrigerant	R290
Temperature Range	5-75 °C
Product Dimensions (L x W x H)	131.2 x 47 x 137 cm

8. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official Techomey website. For technical support, spare parts, or service inquiries, please contact Techomey customer service through the contact details provided in your product documentation.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question