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› **COSTWAY 12000 BTU Mini Split Air Conditioner & Heater User Manual**

COSTWAY 10896-CYFP

COSTWAY 12000 BTU Mini Split Air Conditioner & Heater User Manual

Model: 10896-CYFP

Brand: COSTWAY

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your COSTWAY 12000 BTU Mini Split Air Conditioner & Heater. This unit is a 208-230V WiFi Enabled 24 SEER2 Ductless Inverter AC Unit, designed to provide efficient cooling and heating for rooms up to 750 sq.ft. It features smart control options including remote, app, and Alexa compatibility, along with various modes and fan speeds to meet your comfort needs.

The inverter technology in this air conditioning system allows for variable motor speeds, resulting in more energy-efficient and precise temperature control compared to traditional systems. The outdoor unit is built with chassis electrical heating for extreme weather compatibility, allowing it to heat even at -15°F and cool even at 126°F.



Why Choose Inverter Split AC Units

29 dB Stable, Silent, Efficient



Figure 1.1: Inverter Technology Benefits - Stable, Silent, Efficient Operation.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installing or operating this appliance. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

- **Professional Installation Required:** The installation of this mini split AC system should be done **only by qualified professionals**. Improper installation can lead to refrigerant leaks, electrical hazards, and reduced performance.
- **Electrical Safety:** Ensure the power supply matches the unit's requirements (208-230V~60Hz). Always disconnect power before performing any maintenance or service.
- **Refrigerant:** This unit uses R32 refrigerant. R32 is a flammable refrigerant. Handle with care and ensure proper ventilation during installation and servicing. Only use an R-32 compliant vacuum pump.
- **Clearance:** Maintain adequate clearance around both indoor and outdoor units for proper airflow and heat dissipation.

- **Children and Pets:** Keep children and pets away from the unit, especially during operation and maintenance.
- **Maintenance:** Do not attempt to repair or service the unit yourself. Refer all servicing to qualified personnel.

3. PACKAGE CONTENTS

Before beginning installation, verify that all components listed below are included in your package. If any items are missing or damaged, please contact COSTWAY customer service immediately.

- 1 x Indoor Unit
- 1 x Outdoor Unit (with 1 ton pre-charged heat pump)
- 1 x 13 ft Copper Connection Pipe - Liquid Pipe (Diameter: 1/4")
- 1 x 13 ft Copper Connection Pipe - Air Pipe (Diameter: 3/8")
- 1 x 15 ft Communication Wire
- 1 x 6.5 ft Drain Hose (Diameter: 0.67")
- 1 x Remote Control
- 1 x Tape
- 1 x Wall Sleeve
- 1 x Luting (Putty)
- 1 x User Guide (This manual)

Package Includes

Note: the installation should be done only by professionals.



Figure 3.1: Included Components and Dimensions.

4. SETUP AND INSTALLATION

Important: The installation of this mini split AC system requires specialized tools and knowledge of HVAC systems, electrical wiring, and refrigerant handling. For safety and optimal performance, **installation should be performed only by certified HVAC professionals.**

Your professional installer will perform the following key steps:

- **Indoor Unit Placement:** Selecting an appropriate location for the indoor unit, ensuring proper air circulation and drainage.
- **Outdoor Unit Placement:** Positioning the outdoor unit on a stable, level surface with adequate clearance for airflow. The outdoor unit is designed with chassis electrical heating for reliability in extreme cold weather conditions.
- **Line Set Connection:** Connecting the copper liquid and air pipes between the indoor and outdoor units. This includes proper flaring and torquing of connections to prevent leaks.

- **Electrical Wiring:** Connecting the communication wire and power supply to both units according to local electrical codes.
- **Vacuuming the Line Set:** Evacuating air and moisture from the refrigerant lines using a vacuum pump to ensure system integrity. This is a critical step for system efficiency and longevity.
- **Refrigerant Release:** Opening the valves to release the pre-charged R32 refrigerant into the system.
- **Drainage:** Installing the drain hose to ensure proper condensation removal from the indoor unit.



Figure 4.1: Overview of Indoor and Outdoor Units with Installation Components.

Chassis Electrical Heating

For reliability in extremely cold weather

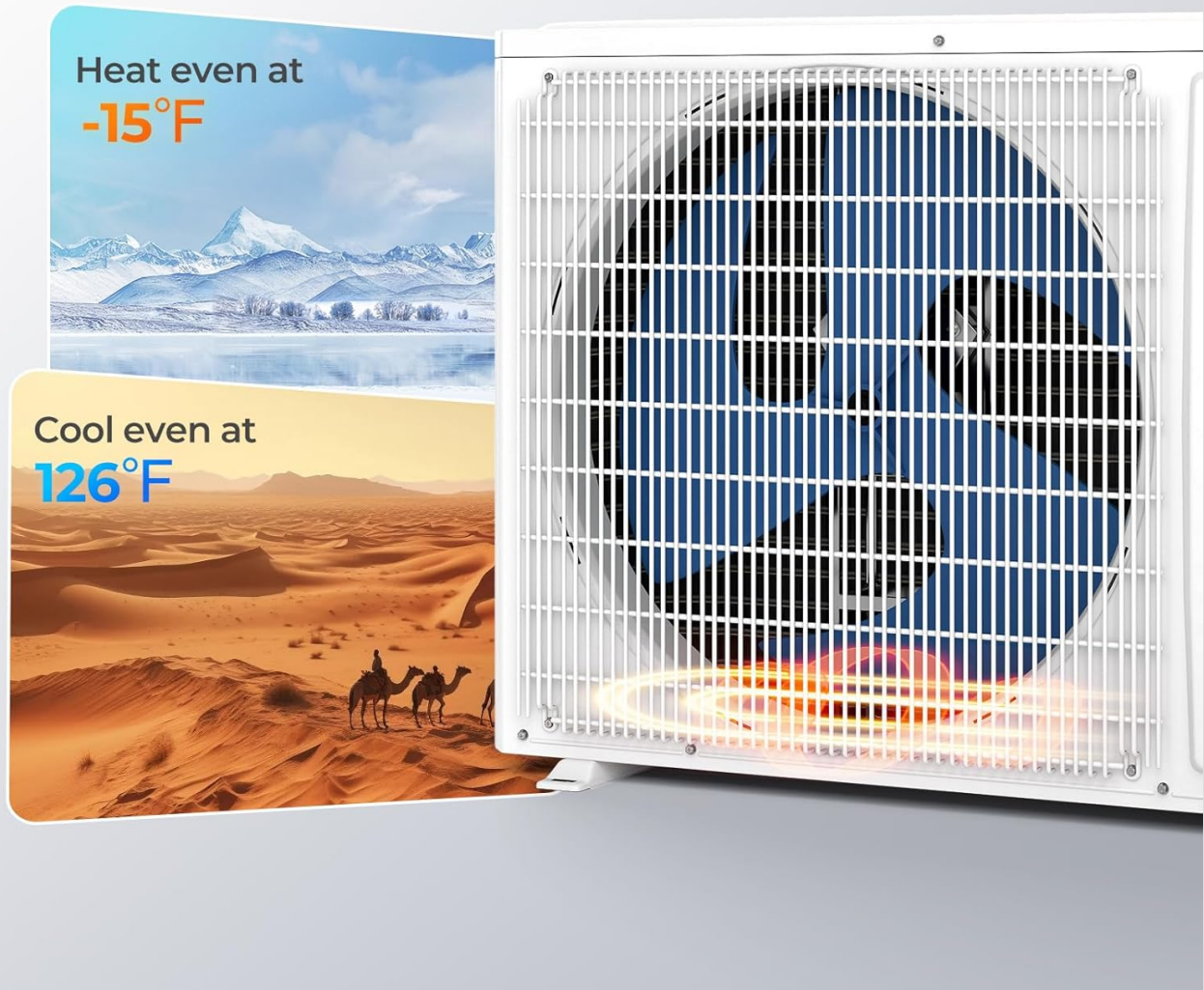


Figure 4.2: Chassis Electrical Heating for Extreme Weather Operation.

5. OPERATING INSTRUCTIONS

Your COSTWAY Mini Split AC Unit offers multiple ways to control your comfort, including a remote control, a free mobile app, and voice commands via Alexa.

5.1 Operating Modes

The unit features 7 operating modes to suit various climate conditions and personal preferences:

- **Auto Mode:** Automatically selects the appropriate operating mode (Cool, Heat, or Fan) based on the ambient temperature and your set temperature.
- **Cool Mode:** Provides cooling to lower the room temperature.
- **Heat Mode:** Provides heating to raise the room temperature.
- **Dry Mode (Dehumidifier):** Reduces humidity in the room without significant cooling.
- **Fan Mode:** Circulates air without cooling or heating.

- **Sleep Mode:** Adjusts temperature and fan speed for comfortable sleeping conditions, often increasing temperature slightly in cooling mode and decreasing in heating mode over time. The screen off function ensures minimal light disturbance.
- **ECO Mode:** Optimizes energy consumption while maintaining comfort.

5.2 Fan Speeds

You can select from 4 fan speeds to control the airflow:

- Low
- Mid
- High
- Turbo

5.3 Smart Control Features

- **Remote Control:** The included remote allows you to adjust temperature (°F/°C switchable), mode, fan speed, swing, timer, and other functions from a distance of up to 26 ft.
- **Mobile App Control:** Download the free compatible app to control your unit remotely from your smartphone or tablet.
- **Voice Control (Alexa):** The unit is compatible with Alexa, allowing for convenient voice commands to manage your AC unit.
- **24H Timer:** Set the unit to turn on or off automatically after a specified period, up to 24 hours.
- **4D Auto Swing:** Ensures wide coverage by automatically adjusting airflow both up and down, and left and right.



Figure 5.1: Operating Modes, Fan Speeds, and Key Features.



Figure 5.2: Smart Control via App and Alexa.

Fast Cooling & Heating

12000 BTU

Cooling Capacity

12300 BTU

Heating Capacity

1 Ton

Heat Pump

750 Sq.Ft
Coverage Area



Figure 5.3: Fast Cooling & Heating with Wide Coverage.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your COSTWAY Mini Split AC Unit. Always disconnect power to the unit before performing any maintenance.

6.1 Self-Cleaning Function

The unit features a high-temperature self-cleaning function (at 135°F) to keep your air fresh and prevent mold and bacteria buildup. The self-cleaning operation typically involves four stages: condensation, frost, melting, and sterilization.

6.2 Filter Maintenance

The indoor unit is equipped with removable and washable filters. It is recommended to clean these filters regularly (e.g., every 2-4 weeks, depending on usage) to maintain optimal airflow and air quality. To clean, simply remove the filters, wash them with mild soap and water, rinse thoroughly, and allow them to dry completely before reinserting.



Figure 6.1: Self-Cleaning Process and Removable/Washable Filters.

7. TROUBLESHOOTING

If you encounter issues with your COSTWAY Mini Split AC Unit, please refer to the following general troubleshooting tips. For complex problems or issues requiring professional intervention, contact a certified HVAC technician or COSTWAY customer support.

- **Unit Not Turning On:** Check if the unit is properly plugged into a working power outlet. Verify the circuit breaker has not tripped. Ensure the remote control batteries are not depleted.
- **Insufficient Cooling/Heating:** Check if the air filters are clean. Ensure no obstructions are blocking the indoor or outdoor unit's airflow. Verify the correct mode (Cool/Heat) and temperature setting are selected.
- **Unusual Noises:** Minor operational noises are normal. If you hear loud or unusual noises, turn off the unit and contact a professional.
- **Water Leaking from Indoor Unit:** This could indicate a clogged drain hose or an issue with the condensate pan. Turn off the unit and inspect the drain hose for kinks or blockages. If the problem

persists, professional assistance is required.

- **WiFi Connectivity Issues:** Ensure your router is working correctly and the unit is within range. Follow the app's instructions for re-pairing if necessary.

8. SPECIFICATIONS

Feature	Specification
Model Number	10896-CYFP
Indoor Unit Size (L x W x H)	32.5" x 12" x 8"
Outdoor Unit Size (L x W x H)	28" x 11" x 21"
Cooling Capacity	12000 BTU
Heating Capacity	12300 BTU
Cooling Power	900W
Heating Power	850W
Voltage	208-230V~60Hz
Heat Pump	1 ton
Coverage Area	750 sq.ft
Dehumidifying Capacity	51 Pints/Day
Air Flow Rate	406 CFM
Temperature Setting Range	60°F~90°F
Refrigerant	R32
HSPF2	10
SEER2	24
Indoor Noise Level	29-43dB
Outdoor Noise Level	53dB
Net Weight of Indoor Unit	17.5 lbs
Net Weight of Outdoor Unit	53 lbs
Certifications	ENERGY STAR, ETL, AHRI Certified
Material Type	Metal, Aluminum, Plastic

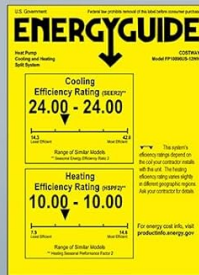
Go Green with Costway

30% Energy Cost Saved



24
SEER2

10
HSPF2



New R32 Refrigerant

Figure 8.1: Energy Efficiency and Certifications.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact COSTWAY customer service. Refer to the contact information provided with your product packaging or visit the official COSTWAY website.

Protection plans are available for extended coverage:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly plan covering eligible past and future purchases)

For more information, you can visit the official [COSTWAY Store on Amazon](#).

