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› SIMOE 18000 BTU Mini Split Heat Pump User Manual

## SIMOE FP11091US

# SIMOE 18000 BTU Mini Split Heat Pump User Manual

Model: FP11091US

## 1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your SIMOE 18000 BTU Mini Split Heat Pump system. This 1.5-ton ductless inverter air conditioner and heater is designed to provide year-round comfort for spaces up to 1250 sq. ft. It features 18000 BTU cooling and 18700 BTU heating capacity, with a 19 SEER2 cooling performance and 9 HSPF2 heating performance for energy efficiency.

The system offers 7 operating modes (Cool, Heat, Dry, Fan, Auto, Sleep, ECO) and 5 fan speeds. Key features include an inverter compressor for stable temperatures, a wide temperature setting range (60°F to 90°F), built-in chassis electrical heating for cold weather, 4D auto swing, a 24-hour timer, display-off function, child lock, and a remote control with up to 26 ft operating distance. The indoor unit operates at a low noise level of 23 dB.

# 4-in-1 Design Meets All-Season Needs



## Cool

Cool down to 60°F



## Heat

Heat up to 90°F



## Dry

Dehumidification  
capacity:  
81.1 pints/day



## Fan

Air Flow Volume: 500 CFM

Figure 1.1: The SIMOE Mini Split system offers four primary functions: cooling down to 60°F, heating up to 90°F, dehumidification at 81.1 pints/day, and fan operation with 500 CFM airflow.

# Powerful Heating & Cooling



Figure 1.2: This diagram illustrates the 18000 BTU cooling and 18700 BTU heating capacity, covering areas up to 1250 sq. ft. with its 1.5 Ton heat pump.

Video 1.1: An overview of the SIMOE Mini Split Air Conditioner, demonstrating its features and benefits. This video is provided by the seller, ELARA-CA.

## 2. SETUP AND INSTALLATION

**Professional installation is required** for this SIMOE Mini Split Heat Pump system. Attempting to install the unit without proper training and tools can lead to damage, injury, and voiding of the warranty. Ensure all local electrical and building codes are followed.

### 2.1 Package Contents

Before installation, verify that all components are present:

- 1 x Indoor Unit
- 1 x Outdoor Unit
- 1 x 13 ft Copper Connection Pipe - Liquid Pipe

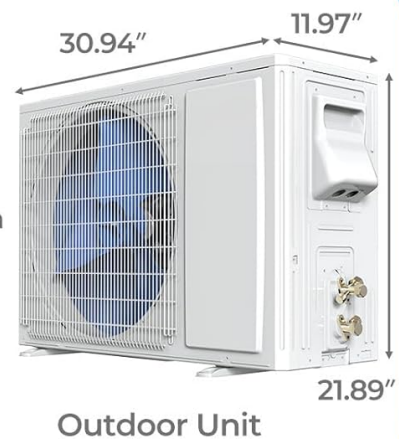
- 1 x 13 ft Copper Connection Pipe - Gas Pipe
- 1 x 15 ft Communication Wire
- 1 x 6.5 ft Drain Hose
- 1 x Remote Control
- 1 x Remote Control Holder
- 1 x Tape
- 1 x Wall Cap
- 1 x Putty
- 1 x User Guide (this document)

## Package List

### Box 1



### Box 2



Note: the installation should be done only by professionals.

Figure 2.1: Detailed view of the package contents, including the indoor unit (37.6" x 8.96" x 12.64"), outdoor unit (30.94" x 11.97" x 21.89"), and all included installation accessories.

## 2.2 Installation Steps (Overview)

While professional installation is mandatory, here is a general overview of the process:

1. **Mounting the Indoor Unit:** Secure the mounting plate to the wall, ensuring it is level and in a location that allows for optimal airflow and drainage.

2. **Drilling Wall Hole:** Create a hole through the wall for the refrigerant pipes, communication wire, and drain hose.
3. **Connecting Piping and Wiring:** Connect the copper refrigerant pipes, communication wire, and drain hose to the indoor unit. Wrap these connections securely with the provided tape.
4. **Mounting the Outdoor Unit:** Place the outdoor unit on a stable, level surface or a mounting bracket. Ensure adequate clearance for airflow.
5. **Connecting Outdoor Unit:** Connect the refrigerant pipes and communication wire from the indoor unit to the outdoor unit.
6. **Vacuumping and Leak Testing:** Evacuate the refrigerant lines to remove air and moisture, then check for leaks.
7. **Electrical Connections:** Connect the power supply to both indoor and outdoor units according to electrical codes.
8. **Test Run:** Perform a test run to ensure all functions operate correctly.

Video 2.1: A detailed guide on how to install a split air conditioner system. This video is provided by the seller, Mei-yun.

Video 2.2: An installation guide for a Mini Split Air Conditioner Heat Pump, demonstrating key steps in the setup process. This video is provided by the seller, YITAMOTOR.

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## 3. OPERATING INSTRUCTIONS

Your SIMOE Mini Split Heat Pump can be controlled using the included remote control. Ensure the remote has fresh batteries and is pointed towards the indoor unit for optimal communication.

### 3.1 Operating Modes

The system features 7 operating modes to suit various comfort needs:

- **Cool:** Provides cooling to lower the room temperature.
- **Heat:** Provides heating to raise the room temperature.
- **Dry (Dehumidify):** Reduces humidity in the room without significant cooling.
- **Fan:** Circulates air without heating or cooling.
- **Auto:** Automatically selects the appropriate mode (Cool, Heat, or Fan) based on the set temperature and current room temperature.
- **Sleep:** Adjusts temperature and fan speed for comfortable sleep, often increasing temperature slightly during cooling or decreasing during heating over time. Operates quietly.
- **ECO:** Optimizes energy consumption while maintaining comfort.

### 3.2 Fan Speeds

You can select from 5 fan speeds to control airflow:

- Low
- Mid
- High
- Turbo
- Auto

### 3.3 Additional Features

- **4D Auto Swing:** Ensures wider and more even air distribution throughout the room.
- **24-Hour Timer:** Allows you to program the unit to turn on or off at specific times.
- **Display-Off Function:** Turns off the LED display on the indoor unit for undisturbed sleep.
- **Child Lock:** Prevents accidental changes to settings on the remote control.



Figure 3.1: The remote control allows selection of 7 modes (Auto, Cool, Heat, Dry, Sleep, ECO, Fan) and 5 fan speeds (Low, Mid, High, Turbo, Auto), along with timer, swing, display, and child lock functions.



Figure 3.2: The unit operates at a low noise level of 23 dB, featuring Sleep Mode, a 24-hour timer, and a display-off function for a quiet environment.

## 4. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your SIMOE Mini Split system. Always turn off the power supply to the unit before performing any maintenance.

### 4.1 Removable and Washable Filters

The indoor unit is equipped with removable and washable filters. Clean these filters regularly (e.g., every 2-4 weeks, depending on usage and air quality) to maintain airflow and efficiency. To clean:

1. Open the front panel of the indoor unit.
2. Carefully remove the air filters.
3. Wash the filters with lukewarm water and a mild detergent. Rinse thoroughly.
4. Allow the filters to air dry completely before reinstalling them. Do not expose to direct sunlight or heat.

## 4.2 Self-Cleaning Function

The unit features a 137°F self-cleaning function. This function helps to remove dust and mold from the evaporator coil, improving air quality and efficiency. Refer to your remote control instructions for activating this feature.

## 4.3 Auto Defrost

During heating operation in cold weather, the outdoor unit may accumulate frost. The auto defrost feature automatically melts this frost to maintain heating efficiency. This is a normal operation and does not require user intervention.

**User-friendly Design**

**4D Airflow**

**Auto Defrost**

**137°F Self-Cleaning**

**°C/°F Switch**

**Removable & Washable Filters**

Figure 4.1: Key user-friendly features include 4D airflow for even distribution, automatic defrosting, a 137°F self-cleaning function, and easily removable and washable filters for simple maintenance.

## 5. TROUBLESHOOTING

If you encounter issues with your SIMOE Mini Split system, refer to the following common troubleshooting steps. If the problem persists, contact a qualified technician.

## 5.1 Unit Not Turning On

- Check if the power cord is securely plugged into an active outlet.
- Verify that the circuit breaker for the unit has not tripped.
- Ensure the remote control batteries are not depleted and are correctly inserted.

## 5.2 Insufficient Cooling/Heating

- Check if the air filters are clean. Clogged filters restrict airflow.
- Ensure no obstructions are blocking the indoor or outdoor unit's air inlets or outlets.
- Verify that the selected operating mode and temperature settings are appropriate for the desired comfort.
- Confirm that windows and doors are closed to prevent heat/cold loss.
- In heating mode, the outdoor unit may be undergoing an auto defrost cycle, which temporarily reduces heating output.

## 5.3 Unusual Noises

- **Gurgling/Hissing:** This is often the sound of refrigerant flowing through the system and is normal.
- **Cracking/Popping:** These sounds can occur as plastic parts expand or contract with temperature changes and are generally normal.
- **Vibration:** Ensure the outdoor unit is securely mounted on a stable surface and that any rubber feet are in place to absorb vibrations.

## 5.4 Water Leaks

- Check if the drain hose is properly connected, unobstructed, and sloped downwards to allow for proper drainage.
- Ensure the indoor unit is level.

# 6. SPECIFICATIONS

Detailed technical specifications for the SIMOE 18000 BTU Mini Split Heat Pump (Model FP11091US):

Feature	Specification
Product Type	Mini Split Heat Pump System
Model Number	FP11091US
Cooling Capacity	18000 BTU
Heating Capacity	18700 BTU
Coverage Area	Up to 1250 sq. ft.
Voltage	208-230V~60Hz/1PH
Tonnage	1.5 Ton

<b>Feature</b>	<b>Specification</b>
SEER2 Rating	19
HSPF2 Rating	9
Temperature Setting Range	60°F-90°F
Operating Modes	Cool / Heat / Dry / Fan / Auto / Sleep / ECO
Fan Speeds	5
Indoor Noise Level	23 dB
Air Flow Volume	500 CFM / 850 m <sup>3</sup> /h
Dehumidification Capacity	81.1 Pints/Day (38.4 L/Day)
Refrigerant	R32
Max Input Power	2200W
Max Input Current	12A
Indoor Unit Size (L x W x H)	37.6" x 8.96" x 12.64"
Outdoor Unit Size (L x W x H)	30.94" x 11.97" x 21.89"
Gas Pipe Diameter	1/2"
Liquid Pipe Diameter	1/4"
Drain Hose Diameter	0.67"
Indoor Unit Net Weight	23 lbs
Outdoor Unit Net Weight	59 lbs
Country of Origin	China

# Inverter Mini Split Air Conditioner

Higher energy efficiency, lower costs



**19**  
SEER2

**9**  
HSPF2

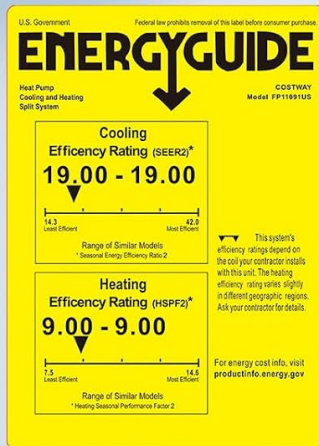


Figure 6.1: The EnergyGuide label for the SIMOE Mini Split, highlighting its 19 SEER2 cooling and 9 HSPF2 heating efficiency ratings.

# Chassis Electrical Heating

Built for extreme weather use



Figure 6.2: The outdoor unit features built-in chassis electrical heating, enabling reliable operation even in extreme cold down to 5°F and cooling up to 118.4°F.

## 7. WARRANTY AND SUPPORT

The SIMOE Mini Split Heat Pump comes with a comprehensive warranty:

- **Compressor:** Eight-year warranty
- **Components:** Five-year warranty

For warranty claims, technical support, or service inquiries, please refer to the contact information provided in your purchase documentation or visit the official SIMOE website. Ensure you have your model number (FP11091US) and proof of purchase available when contacting support.