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## Senville SENDC-36HF-16

# Senville 3 Ton Central Air Conditioner Heat Pump Split System User Manual

Model: SENDC-36HF-16

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Senville 3 Ton Central Air Conditioner Heat Pump Split System. Please read this manual thoroughly before installation and use to ensure proper function and safety. This system features a 36,000 BTU capacity, Inverter Technology for variable speed operation, and is designed for 208/230V power supply.

## SETUP

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### Pre-Installation Requirements

Installation of this central air conditioning system requires a licensed professional. It is not suitable for DIY installation. Ensure the following are addressed before professional installation:

- Unit placement layout evaluation, including aisle space.
- Insulation and electrical system check.
- Ductwork examination and cleaning.
- Refrigerant lines inspection.

The system includes an outdoor condenser, indoor air handler, wired remote, and a 16 ft. installation kit. Additional line set length may be required depending on installation specifics.



Image: Senville 3 Ton Central Air Conditioner Heat Pump Split System, showing the outdoor condenser unit, indoor air handler, and included accessories like the wired remote and installation kit.



# Senville Central System Inverter Heat Pump



Image: Diagram illustrating pre-installation preparation steps, including unit placement, electrical checks, ductwork, and refrigerant line inspection for the Senville Central AC system.

## Flexible Positioning

The indoor air handler can be installed vertically or horizontally to adapt to various ducting designs. The outdoor unit features a compact design with side airflow discharge, allowing for easier fitting into different house layouts and potentially reducing cleaning frequency compared to top-discharge units.



# Flexible Installation & Maintenance

Easy error checking window

Intelligent diagnosis display

Smart constant airflow control chip

Auxiliary 10kW heat kit

Easy slide-out blower for maintenance

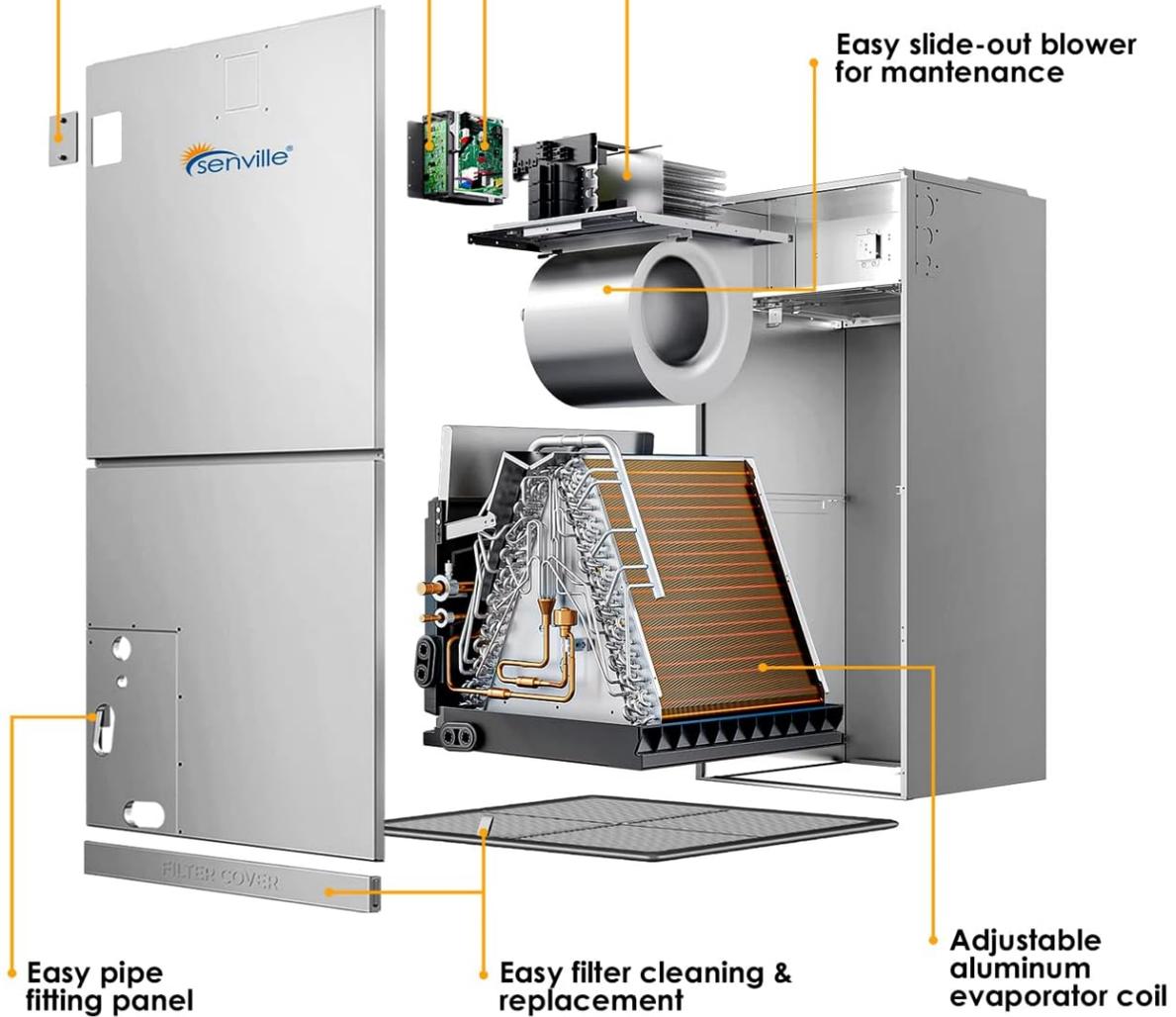


Image: Illustration demonstrating the flexible positioning options for the Senville air handler, showing both vertical and horizontal installation configurations to suit different ducting designs.



Image: Comparison showing the compact size of the Senville outdoor unit with dual fan side discharge compared to a traditional larger outdoor unit, highlighting its adaptability and reduced cleaning needs.

## Electrical Connections

The system supports 485 & 24V communication modes, allowing for easy installation and compatibility with existing parts or units. Ensure all electrical connections are made by a qualified electrician according to local codes and the wiring diagram provided in the full installation manual.

Your browser does not support the video tag.

Video: This video demonstrates the flexible adaptation of the Senville Central System, showing how it can easily install and match with existing parts or units using 485 & 24V communication modes.

## OPERATING INSTRUCTIONS

### General Operation

The Senville Central System utilizes Inverter Technology for precise temperature control and energy efficiency. The system automatically optimizes airflow delivery to maintain a stable temperature throughout all rooms, ensuring optimal comfort.

The diagram features the Senville logo in the top left corner. The main title, "Optimal Comfort for All Rooms", is positioned in the top right. The central illustration shows a cross-section of a house with a central AC unit and a staircase. Blue arrows indicate the flow of air from the unit into various rooms, where a "72°F" temperature is maintained. To the left of the house, four circular icons represent the system's key features: a thermostat icon for "Optimal Room Temperature", a lightning bolt icon for "Fast Cooling & Heating", a speaker with an 'x' icon for "Lower Noise Operation", and a leaf icon for "Higher Energy Efficiency".

Image: Diagram illustrating how the Senville Central AC system provides optimal room temperature, fast cooling and heating, lower noise

operation, and higher energy efficiency throughout a multi-room house.

## Temperature Control

The system is designed to maintain a consistent temperature, typically around 72°F, across all conditioned spaces. The variable speed compressor adjusts its output to meet demand, providing stable comfort without significant temperature fluctuations.

Your browser does not support the video tag.

Video: This video highlights the constant airflow delivery and optimal room comfort provided by the Senville Central AC Heat Pump with Inverter Technology, demonstrating stable temperatures throughout a home.

## Climate Adaptability

The Senville Heat Pump is engineered for wide climate adaptability, providing efficient heating down to -22°F (-30°C) and effective cooling up to 122°F (50°C). This makes it suitable for extreme weather conditions.



The graphic features the Senville logo at the top left. The main title "Compact Size For Any Space" is centered in large, bold black text. Below the title, two white 3D models of the heat pump are shown against a light blue background. The left model is a tall, vertical unit with two large circular fans on the side, positioned in a room with a white sofa. The right model is a shorter, wider unit with a grid-like front panel, positioned in a room with a large window. A white circle with two blue arrows pointing left and right is centered between the two units. At the bottom, four blue circular icons are arranged horizontally, each with a white icon and a corresponding text label below it: a fan icon for "Dual Fan Side Discharge", a puzzle piece icon for "Adaptable to any house", a footprint icon for "Smaller Footprint", and a cleaning brush icon for "Less Cleaning Snow & Dust".

**Compact Size For Any Space**

- Dual Fan Side Discharge
- Adaptable to any house
- Smaller Footprint
- Less Cleaning Snow & Dust

Image: Graphic illustrating the wide operating temperature range of the Senville Heat Pump, showing its ability to provide heating down to -22°F with Arctic Heat Pump technology and cooling up to 122°F with Inverter Heat Pump technology.

## MAINTENANCE

### Routine Checks

Regular maintenance is crucial for the longevity and efficiency of your system. The indoor air handler features an easy error checking window and an intelligent diagnosis display for quick identification of issues. The easy slide-out blower and adjustable aluminum evaporator coil facilitate maintenance.



Image: Exploded view diagram highlighting key features for flexible installation and maintenance, including the easy error checking window, intelligent diagnosis display, smart constant airflow control chip, auxiliary 10kW heat kit, easy slide-out blower, adjustable aluminum evaporator coil, easy pipe fitting panel, and easy filter cleaning and replacement.

### Filter Cleaning and Replacement

The system is designed for easy filter cleaning and replacement, located behind the filter cover on the indoor air handler. Regular cleaning of filters is recommended to maintain optimal airflow and indoor air quality.

### Professional Servicing

While some maintenance tasks can be performed by the user, professional servicing is recommended annually to ensure the system operates at peak efficiency and to address any potential issues. This includes checking refrigerant levels, electrical connections, and overall system performance.

## TROUBLESHOOTING

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This section provides guidance for common issues. For complex problems or issues not listed here, please contact a licensed HVAC professional or Senville customer support.

Problem	Possible Cause	Solution
System not cooling/heating effectively	Dirty air filters, low refrigerant, blocked outdoor unit, incorrect thermostat setting.	Clean or replace air filters. Check for obstructions around the outdoor unit. Verify thermostat settings. Contact professional for refrigerant check.
Unusual noises from unit	Loose parts, debris in fan, compressor issue.	Inspect for loose panels or debris. If noise persists, contact a professional.
System not turning on	Power supply issue, circuit breaker tripped, thermostat malfunction.	Check circuit breaker. Ensure power supply is connected. Verify thermostat operation.
Error codes displayed	Internal system fault.	Refer to the intelligent diagnosis display for specific codes. Contact professional with the code for diagnosis.

## SPECIFICATIONS

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Feature	Detail
Brand	Senville
Model Number	SENDC-36HF-16
Capacity	3 Tons (36,000 BTU)
Efficiency	16 SEER2 / 18.00 SEER
Voltage	208/230 Volts
Item Weight	139 pounds
Product Dimensions	48 x 36 x 40 inches (Outdoor Unit)
Annual Energy Consumption	6400 Kilowatt Hours Per Year
Noise Level	44 dB
Installation Type	Split System
Special Features	Inverter Compressor, Variable Speed, Heat Pump (down to -22°F)
Included Components	Outdoor Condenser, Indoor Air Handler, Wired Remote, 16 Ft. Installation Kit
Floor Area Coverage	Up to 2000 Square Feet

## WARRANTY

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Senville offers a **10-year warranty** on the compressor and a **5-year warranty** on parts. This warranty is provided when the system is installed by a qualified installer and registered online. Please retain your proof of purchase and installation records for warranty claims.



The advertisement features a large, modern house with a glass facade in the background. In the foreground, a white Senville heat pump unit is shown. The unit has two large circular fans and a control panel on the right side. The Senville logo is visible on the top left of the unit. A blue Energy Star logo is also present on the unit. To the right of the unit, there are three blue circular icons with white symbols: a hand holding a coin, a wrench and screwdriver, and a thermometer with a double-headed arrow. The background is a clear blue sky.

# Senville Central System Inverter Heat Pump

Capacity: 36000 BTU / 3 Ton  
Area: up to 1500 Sq.Ft

- Lower Operating Cost
- Flexible Installation & Easy Maintenance
- Stable Room Temperature

\*Cold climate Energy Star certified

Image: Graphic displaying Senville's 5-year parts warranty and 10-year compressor warranty, along with Energy Star, AHRI Certified, UL Listed, and Greener Homes Grant certifications.

## SUPPORT

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For technical assistance, troubleshooting, or warranty inquiries, please contact Senville customer support. Professional installation and regular maintenance by a licensed technician are crucial for optimal performance and warranty validity. Visit the official [Senville Store on Amazon](#) for more information and resources.

