

Duct Type Hybrid Solar Air Conditioner

This duct type air conditioner combines solar energy and conventional power, offering 30-50% energy savings. It is designed for easy installation and provides reliable cooling and heating performance.



Overview

Hybrid Solar Climate Control

This duct-type hybrid solar air conditioner is engineered for high-efficiency climate control by integrating solar thermal energy with conventional power systems. By utilizing hot water from the collector to assist the compressor, this unit significantly reduces overall energy consumption. It provides a robust, cost-effective solution for heating and cooling, designed for straightforward installation similar to conventional systems.

Compliance & Quality

ISO 9001, CQC, Assured Firm

Performance Metrics

Cooling Capacity

36000 Btu/h
Cooling (Btu/h)

10000 W
Cooling (W)

Heating Capacity

40000 Btu/h
Heating (Btu/h)

12000 W
Heating (W)

Energy Efficiency Ratio (EER)

3.87 W/W

System Specs

Noise Levels

Unit	Noise Level
Indoor	<50 dB(A)
Outdoor	d58dB(A)

Air Circulation

1600 m³/h

Suitable Area

42~67 m²

Electrical Data

Rated Current

Mode	Current (A)
Cooling	10.91~11.95
Heating	11.23~12.05+1.6

Power Supply	220-240VAC, 1/3PH, 50Hz
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Solar Components

Vacuum Tube Configuration	47mm diameter * 700mm length * 13 pieces
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Installation Guide

Installation Best Practices

- Installation process is similar to conventional AC units.
- Facing south is not mandatory.
- Suggest positioning the outdoor unit lower than the indoor unit for optimal water drainage.
- Ensure pipes for the collector are included when evacuating air.
- Fill with water upon initial installation.