

Hybrid Solar Air Conditioner for Energy Efficiency

This hybrid solar air conditioner is driven by electricity and uses solar energy as an auxiliary power source. The two energy sources work together to provide cooling and heating while saving energy and protecting the environment.



ADDITIONAL IMAGES



Overview

Hybrid Solar Air Conditioning System

This hybrid solar air conditioner utilizes advanced solar thermal technology to assist traditional cooling and heating systems, achieving significant energy savings of 30% to 50%. By integrating solar energy with conventional compression cycles, the system reduces the electrical load on the compressor while maintaining reliable performance in temperatures ranging from -5°C to 53°C. Designed for both residential and commercial use, this unit offers an eco-friendly cooling solution that is as easy to install as a standard air conditioner.

Certifications & Compliance

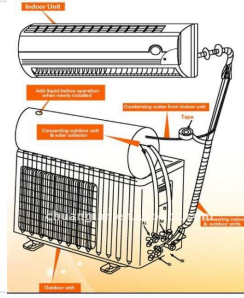
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|----------------|---------|
| Certifications | ISO, CE |
|----------------|---------|

Performance Metrics

Cooling & Heating Performance

| Specification | TKF(R)-26GW | TKF(R)-35GW | TKF(R)-72GW |
|----------------------|-------------|-------------|-------------|
| Cooling Capacity (W) | 2600 | 3500 | 7200 |
| Heating Capacity (W) | 2900 | 3800 | 7900 |
| Noise (Indoor dB(A)) | d40 | d42 | d50 |
| EER (W/W) | 3.64 | 3.89 | 3.82 |

Technical Specifications



System installation diagram showing connections between the indoor unit, outdoor unit, and solar collector array.

Vacuum Tube Configuration

- Diameter: 47mm
- Tube Length: 500mm - 620mm
- Quantity: 9 - 11 pieces depending on model

| | |
|-----------------------|-----------------------|
| Power Supply | 220-240VAC, 1PH, 50Hz |
| Operating Temperature | -5°C to 53°C |

Key Features

Energy Efficiency

30-50% Energy Saving • Solar-Assisted