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› HANTECH H-PRO Multi Split Air Conditioning System - Outdoor Unit User Manual

HANTECH TAC

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Model: TAC

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your HANTECH H-PRO Multi Split Air Conditioning Outdoor Unit. Please read this manual thoroughly before installation and operation, and keep it for future reference. The HANTECH H-PRO Multi-Split System offers the advantage of reducing the need for installing multiple outdoor units. Up to four completely independent indoor units can be connected to a single outdoor unit. This not only reduces acquisition and installation costs but also provides the flexibility to control the temperature in multiple rooms simultaneously.

SAFETY INFORMATION

Important Safety Instructions: Always follow basic safety precautions when installing, operating, and maintaining this appliance to reduce the risk of fire, electric shock, or injury to persons.

- Installation and maintenance must be performed by qualified personnel only.
- Ensure the power supply matches the unit's requirements (230V household voltage).
- The refrigerant R32 is pre-filled for approximately 3m line length. For permanent trouble-free operation, evacuation of the lines by a certified climate technician is mandatory and a legal requirement.
- Do not attempt to repair or modify the unit yourself. Contact qualified service personnel.
- Keep the area around the outdoor unit clear of obstructions to ensure proper airflow.

PRODUCT OVERVIEW

The HANTECH H-PRO Multi Split Outdoor Unit is designed to efficiently manage the climate control for multiple indoor units. Its robust construction and advanced inverter technology ensure reliable performance.



Figure 1: HANTECH H-PRO Multi Split Outdoor Unit. This image shows the white outdoor unit with the HANTECH logo and the large fan grille.

Key Components:

- **Compressor:** The heart of the refrigeration cycle, responsible for circulating refrigerant.
- **Condenser Coil:** Releases heat from the refrigerant to the outside air.
- **Fan:** Draws air over the condenser coil to facilitate heat exchange.
- **Inverter Board:** Controls the compressor speed for precise temperature regulation and energy efficiency.
- **Refrigerant Lines Connections:** Ports for connecting to indoor units.
- **Electrical Connections:** For power supply and communication with indoor units.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your HANTECH H-PRO system. It is highly recommended that installation be carried out by a certified HVAC professional.

Pre-installation Checks:

- **Location:** Choose a well-ventilated outdoor location, away from direct sunlight and heat sources, with sufficient space for maintenance.
- **Power Supply:** A dedicated 230V household power supply is required near the outdoor unit. The indoor units are powered via an electrical cable from the outdoor unit.
- **Mounting Surface:** Ensure the mounting surface is level and strong enough to support the unit's weight (approx. 30 kg).

Installation Steps (Professional Installation Required):

1. **Mounting:** Securely mount the outdoor unit on a stable base or wall bracket.
2. **Refrigerant Line Connection:** Connect the pre-filled R32 refrigerant lines from the indoor units to the outdoor unit. The unit is pre-filled for approximately 3m line length.
3. **Evacuation:** *Crucially, the refrigerant lines must be evacuated by a certified climate technician. This process removes air and moisture from the system, which is essential for long-term, trouble-free operation and is a legal requirement.*
4. **Electrical Wiring:** Connect the power supply and communication cables according to the wiring diagram provided with the unit. Ensure all connections are secure and properly insulated.
5. **Leak Test:** After connections, perform a leak test to ensure no refrigerant escapes.
6. **Test Run:** Conduct a test run to verify proper operation of both outdoor and connected indoor units.

OPERATING INSTRUCTIONS

The HANTECH H-PRO system utilizes advanced inverter technology to provide optimal climate control with high energy efficiency.

Inverter Technology:

The inverter technology precisely adjusts the compressor speed, ensuring low power consumption and continuous room temperature monitoring. This guarantees a pleasant and consistent climate. Unlike traditional systems that cycle on and off, inverter units can vary their output, leading to:

- **Energy Efficiency:** Reduced electricity consumption by avoiding constant start-stop cycles.
- **Stable Temperature:** Maintains desired temperature with minimal fluctuations.
- **Quieter Operation:** Lower compressor speeds result in less noise.

Controlling the System:

Control of the H-PRO Multi Split system is primarily managed through the individual indoor units and their respective remote controls. The outdoor unit automatically adjusts its operation based on the combined demands of the connected indoor units.

- Refer to the user manual of your specific HANTECH indoor unit(s) for detailed instructions on setting modes (cooling, heating, fan, dry), temperature, fan speed, and timer functions.
- The 4-way swivel function (if applicable to your indoor unit model) allows for optimal air distribution.

MAINTENANCE

Regular maintenance ensures the efficiency and longevity of your air conditioning system. Always disconnect power before performing any maintenance.

Outdoor Unit Maintenance:

- **Clean Coils:** Periodically inspect and clean the outdoor unit's condenser coils to remove dirt, leaves, and debris. A soft brush or vacuum cleaner can be used. Ensure fins are not bent.
- **Clear Obstructions:** Keep the area around the outdoor unit free from plants, furniture, or other obstructions that could block

airflow.

- **Drainage:** Ensure the drainage outlet (if applicable) is not clogged.
- **Professional Check-up:** It is recommended to have a qualified technician perform an annual check-up, including refrigerant level checks and system diagnostics.

Indoor Unit Maintenance:

- Refer to the indoor unit's specific manual for instructions on cleaning air filters and other internal components.

TROUBLESHOOTING

Before contacting service, please check the following common issues:

Problem	Possible Cause	Solution
Unit does not start	No power; circuit breaker tripped; remote control batteries dead.	Check power supply; reset circuit breaker; replace remote control batteries.
Insufficient cooling/heating	Dirty air filters (indoor unit); blocked outdoor unit; low refrigerant.	Clean indoor unit filters; clear obstructions around outdoor unit; contact technician for refrigerant check.
Unusual noise from outdoor unit	Loose parts; debris in fan; unit not level.	Inspect for loose parts; remove debris; ensure unit is level. If noise persists, contact technician.
Water leakage (outdoor unit)	Blocked drain hose (condensation).	Clear any blockages in the drain hose.

If the problem persists after attempting these solutions, please contact a qualified service technician.

SPECIFICATIONS

Technical specifications for the HANTECH H-PRO Multi Split Outdoor Unit (18000 BTU):

Feature	Detail
Brand	HANTECH
Model Number	TAC
Product Dimensions (L x W x H)	37 x 45 x 87 cm
Weight	30 Kilograms
Color	Outdoor Unit White
Energy Efficiency Class	A
Annual Energy Consumption	2 Kilowatt-hours
Airborne Noise Emission	65 dB
Voltage	220 Volt
Wattage	3.5 KW
Special Feature	4-Way Swivel Function <i>(Note: This feature typically applies to indoor units.)</i>

Feature	Detail
Refrigerant	R32 (pre-filled for ~3m line length)

WARRANTY AND SUPPORT

HANTECH is committed to providing high-quality products and excellent customer service.

Product Quality:

All products offered by HANTECH are characterized by high quality, appealing design, and high functionality. We only offer original goods.

Returns Policy:

You can return your item(s) within 14 days of receiving the shipment without any signs of use. Please refer to the detailed return policies on the HANTECH store page for more information.

Contact and Further Information:

For further assistance, technical support, or warranty claims, please visit the official HANTECH store on Amazon or contact their customer service directly. You can find the store here: [HANTECH Store](#)