



Manuals.plus /

› Voltas /

› Voltas 1.5 Ton 3 Star Fixed Speed Split AC (Model 183 Vectra Prism) User Manual

Voltas 183 Vectra Prism

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Model: 183 Vectra Prism

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Voltas 1.5 Ton 3 Star Fixed Speed Split Air Conditioner, Model 183 Vectra Prism. Please read this manual thoroughly before using your AC unit and retain it for future reference. Proper use and maintenance will ensure optimal performance and longevity of your appliance.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent injury or damage to the unit:

- **Professional Installation:** Installation, relocation, and maintenance of the AC unit must be performed by qualified service personnel. Improper installation can lead to electric shock, fire, or water leakage.
- **Power Supply:** Ensure the power supply matches the specifications of the unit. Do not use damaged power cords or plugs.
- **Grounding:** The unit must be properly grounded to prevent electric shock.
- **Flammable Refrigerant:** This unit uses R32 refrigerant, which is flammable. Do not expose the unit to open flames or heat sources. Ensure proper ventilation during installation and servicing.
- **Cleaning:** Disconnect power before cleaning. Do not use strong detergents or solvents.
- **Obstructions:** Do not block the air inlet or outlet of either the indoor or outdoor unit.
- **Children:** Keep children away from the unit and remote control.

3. PACKAGE CONTENTS

Verify that all the following items are included in your package:

- 1 x Indoor Unit
- 1 x Outdoor Unit
- 1 x Interconnecting Cable (3 meters)
- 1 Set (2 pieces) Interconnecting Copper Pipe (3 meters)
- 1 x Remote Control
- 2 x AAA Batteries for Remote Control
- 1 x Indoor Mounting Plate
- Plastic Sleeves and Screws for Indoor Mounting Plate
- 4 x Outdoor Vibration Pads
- 1 x User Manual
- 1 x Warranty Card



Image: Remote control, interconnecting pipes, user manual, batteries, and mounting hardware.

4. SETUP AND INSTALLATION

Installation of this split air conditioner requires specialized tools and knowledge. It is strongly recommended that you arrange for professional installation by a certified Voltas technician.

4.1. Site Selection

- **Indoor Unit:** Choose a location that allows for even air distribution throughout the room (111 to 150 sq.ft for 1.5 Ton capacity), away from direct sunlight or heat sources. Ensure there is enough space around the unit for maintenance.
- **Outdoor Unit:** Select a well-ventilated area, free from obstructions, and away from direct sunlight or rain. Ensure the outdoor unit is placed on a stable, level surface using the provided vibration pads to minimize noise.

4.2. Installation Steps (Overview for Professional Reference)

1. Mount the indoor unit plate on the wall.
2. Drill a hole for the refrigerant pipes and drain hose.
3. Connect the refrigerant pipes and electrical wiring between the indoor and outdoor units.
4. Secure the outdoor unit.
5. Perform vacuuming and refrigerant charging (if necessary).
6. Test the unit for proper operation.



Image: Indoor and outdoor unit with dimensions and energy efficiency label (ISEER 3.80).



Image: Indoor unit highlighting suitability for room size (111-150 sq.ft), low noise (47 dB), anti-dust filter, and copper condenser.

5. OPERATING INSTRUCTIONS

Your Voltas AC unit is designed for user-friendly operation via the remote control.

5.1. Remote Control Functions

- **Power Button:** Turns the unit ON or OFF.
- **Mode Button:** Cycles through operating modes: Cool, Fan.
- **Temperature Buttons (+ / -):** Adjusts the desired temperature.
- **Fan Speed Button:** Selects fan speed (Auto, Low, Medium, High).
- **Sleep Mode:** Optimizes temperature and fan speed for comfortable sleep and energy saving.
- **Turbo Mode:** Provides rapid cooling by operating at maximum fan speed and cooling capacity.
- **Timer ON/OFF:** Sets a timer for the unit to turn ON or OFF automatically.
- **Glow Buttons:** Remote control buttons illuminate for easy use in the dark.

- **V. Swing / H. Swing:** Controls vertical and horizontal louver movement for air direction.

5.2. Special Features

- **Anti-dust Filter:** Helps remove dust and airborne particles from the air.
- **Antimicrobial Protection:** Inhibits the growth of harmful microorganisms.
- **LED Display:** Shows current temperature and operating status.
- **Self Diagnosis:** The unit can detect and display certain operational issues.
- **Low Gas Diagnosis:** Alerts the user to potential refrigerant leakage.
- **Stabilizer Free Operation:** Designed to operate safely within a 230 voltage range, reducing the need for an external stabilizer.



Image: Indoor unit displaying features such as Turbo Cooling, Anti-microbial Protection, LED Display, and Low Gas Diagnosis.

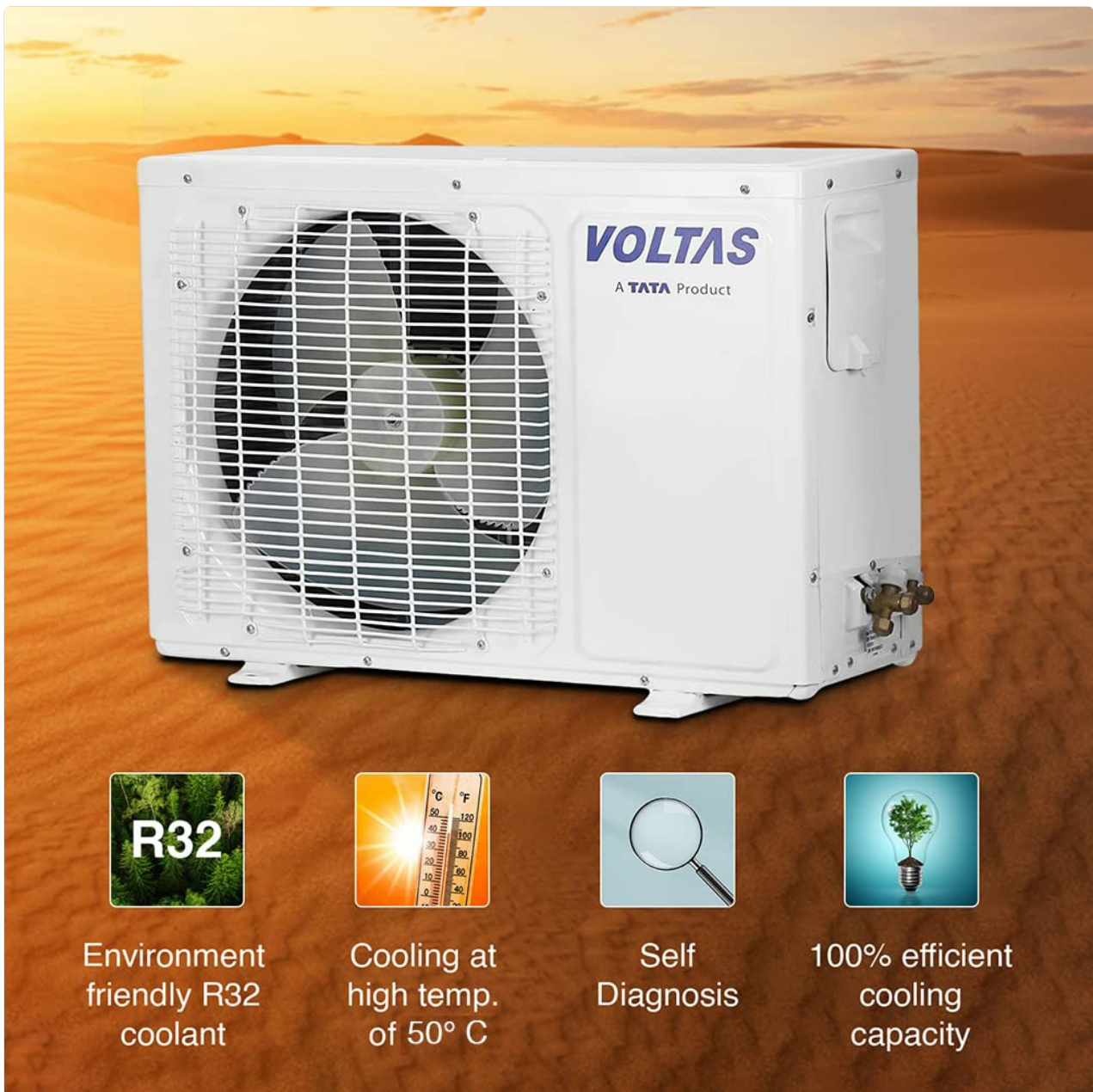


Image: Outdoor unit highlighting environment-friendly R32 refrigerant, effective cooling at high temperatures (up to 50°C), Self Diagnosis, and 100% efficient cooling capacity.

6. MAINTENANCE

Regular maintenance ensures efficient operation and extends the lifespan of your AC unit.

6.1. Air Filter Cleaning

Clean the air filters every two weeks or more frequently if the unit is used in a dusty environment. Dirty filters reduce cooling efficiency and airflow.

1. Turn off the AC unit and disconnect the power supply.
2. Open the front panel of the indoor unit.
3. Remove the air filters.
4. Wash the filters with lukewarm water and a mild detergent. Rinse thoroughly.
5. Allow the filters to dry completely in a shaded area before reinstalling.

6.2. Outdoor Unit Cleaning

Periodically check the outdoor unit for any obstructions (leaves, dust, debris) on the condenser coils. Gently clean with a soft brush or vacuum cleaner. Ensure the power is disconnected before cleaning.

6.3. Professional Servicing

It is recommended to have your AC unit professionally serviced at least once a year, preferably before the cooling season. A professional technician can check refrigerant levels, clean coils, and inspect electrical connections.



Image: Close-up of copper pipes, illustrating the durable copper condenser coil that requires low maintenance and prevents rust and corrosion.

7. TROUBLESHOOTING

Before contacting service, check the following common issues:

Problem	Possible Cause	Solution
Unit does not turn ON	No power supply; Remote control batteries dead	Check power connection and circuit breaker; Replace remote control batteries.
Insufficient cooling	Dirty air filters; Blocked outdoor unit; Doors/windows open; Temperature setting too high	Clean air filters; Clear obstructions from outdoor unit; Close doors/windows; Lower temperature setting.
Water leakage from indoor unit	Clogged drain hose; Improper installation	Clear drain hose; Contact professional service for inspection.
Unusual noise	Loose parts; Outdoor unit vibration; Fan obstruction	Check for loose parts; Ensure outdoor unit is stable; Clear any fan obstructions.
Error code on LED display	Internal malfunction	Note the error code and contact Voltas customer service.

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

8. SPECIFICATIONS

Feature	Specification
Model	183 Vectra Prism
Capacity	1.5 Tons
Energy Rating	3 Star
Annual Energy Consumption	5000 Watts (approx. 5000 units)
ISEER Value	3.80
Noise Level (Indoor Unit)	47 dB
Refrigerant	R32 (Environmental Friendly)
Condenser Coil	Copper
Voltage	230 Volts
Indoor Unit Dimensions (WxHxD)	96 cm x 31.7 cm x 23.5 cm
Outdoor Unit Dimensions (WxHxD)	87 cm x 60.0 cm x 35.5 cm
Indoor Unit Weight	14.3 Kg
Outdoor Unit Weight	43.2 Kg
Special Features	Anti Dust, Antimicrobial Protection, Anti-Corrosive Coating, LED Display, Self Diagnosis, Sleep Mode, Turbo, Glow Buttons, Low Gas Diagnosis, Stabilizer Free Operation (within 230V range)

9. WARRANTY AND SUPPORT

Your Voltas 1.5 Ton 3 Star Fixed Speed Split AC (Model 183 Vectra Prism) comes with the following warranty:

- **1 Year Comprehensive Warranty** on the entire product.
- **5 Years Warranty** on the Compressor.

The warranty covers manufacturing defects under normal use. Please refer to the warranty card included in your package for detailed terms and conditions.

9.1. Customer Support

For any service requests, technical assistance, or warranty claims, please contact Voltas customer service:

- **Voltas Limited**
- **Address:** Voltas House 'A' Block, Dr. Babasaheb Ambedkar Rd, Chinchpokli, Mumbai - 400 033, India
- Refer to your warranty card or the official Voltas website for the most current contact numbers and service request procedures.



Image: Visual representation of 1-year product warranty and 10-year compressor warranty (Note: JSON states 5 years on compressor, so the text description clarifies).