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Voltas 183FS PRISM

Voltas 1.5 Ton 3 Star Fixed Speed Window AC

Model: 183FS PRISM - User Manual

1. Introduction

Thank you for choosing the Voltas 1.5 Ton 3 Star Fixed Speed Window Air Conditioner, Model 183FS PRISM. This manual provides essential information for the safe and efficient operation, installation, maintenance, and troubleshooting of your new air conditioner. Please read this manual thoroughly before using the appliance and retain it for future reference.

2. Safety Information

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring instructions may cause harm or damage.

- **Professional Installation:** Installation must be performed by qualified personnel only. Improper installation can lead to electric shock, fire, or water leakage.
- **Power Supply:** Ensure the power supply matches the specifications of the AC unit. Do not use damaged power cords or plugs.
- **Grounding:** The appliance must be properly grounded to avoid electric shock.
- **Ventilation:** Ensure adequate ventilation around the unit. Do not block air inlets or outlets.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use water or liquid detergents directly on the unit.
- **Maintenance:** Do not attempt to repair the unit yourself. Contact authorized service personnel for all repairs.
- **Children and Pets:** Keep children and pets away from the unit during operation and maintenance.

3. Product Overview

Key Features

- **1.5 Ton Capacity:** Suitable for medium-sized rooms (approximately 110-180 sq ft).
- **3 Star Energy Rating:** Efficient operation with an Annual Energy Consumption of 1124.78 kWh/year and an ISEER Value of 3.30 Wh.
- **Fixed Speed Compressor:** Operates at a constant speed for consistent cooling performance.
- **Copper Condenser Coil:** Provides better cooling efficiency and requires low maintenance, featuring an anti-corrosive coating for enhanced durability.
- **Anti-Dust Filter:** Traps dust and other airborne particles, contributing to cleaner air.

- **2-Way Air Swing:** Ensures uniform cooling distribution across the room.
- **Memory Restart:** Automatically restores previous settings after a power outage.
- **Sleep Mode:** Adjusts temperature for comfortable sleep and energy saving.
- **Turbo Fan Speed:** Delivers instant cooling by operating at maximum fan speed.
- **Seven Segment LED Display:** Provides clear indication of settings and status.
- **Anti-Freeze Thermostat:** Prevents ice build-up on the evaporator coil for smooth operation.
- **R32 Refrigerant:** Environmentally friendly refrigerant with no ozone depletion potential.
- **High Ambient Cooling:** Designed to cool effectively even at ambient temperatures up to 48°C.

Components

The Voltas 183FS PRISM Window AC unit includes the following main components:

- Window AC Unit
- Remote Control
- AAA Batteries (2) for Remote
- Drain Tray

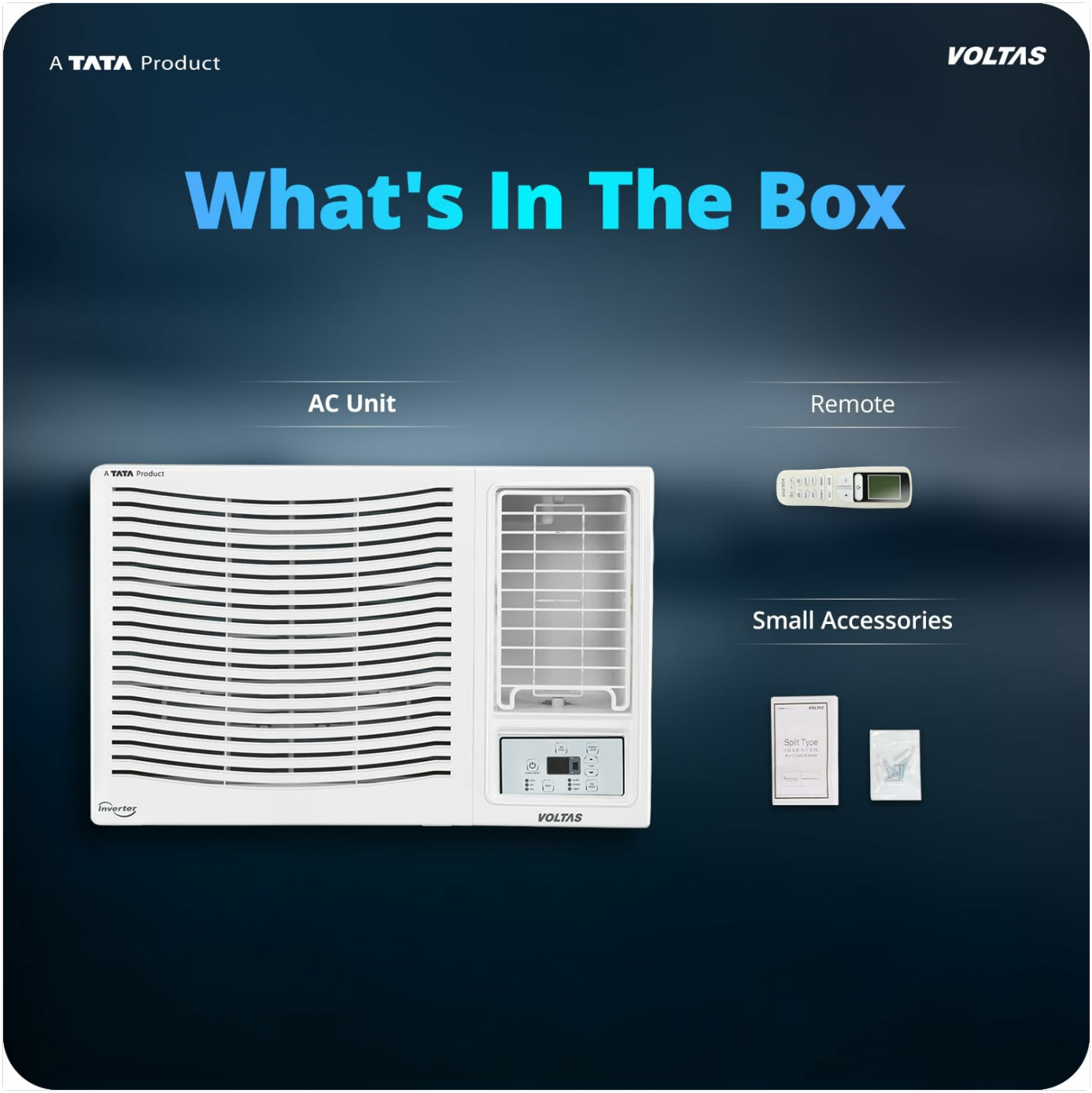


Figure 3.1: What's in the Box - Voltas 183FS PRISM Window AC unit, remote control, and small accessories.

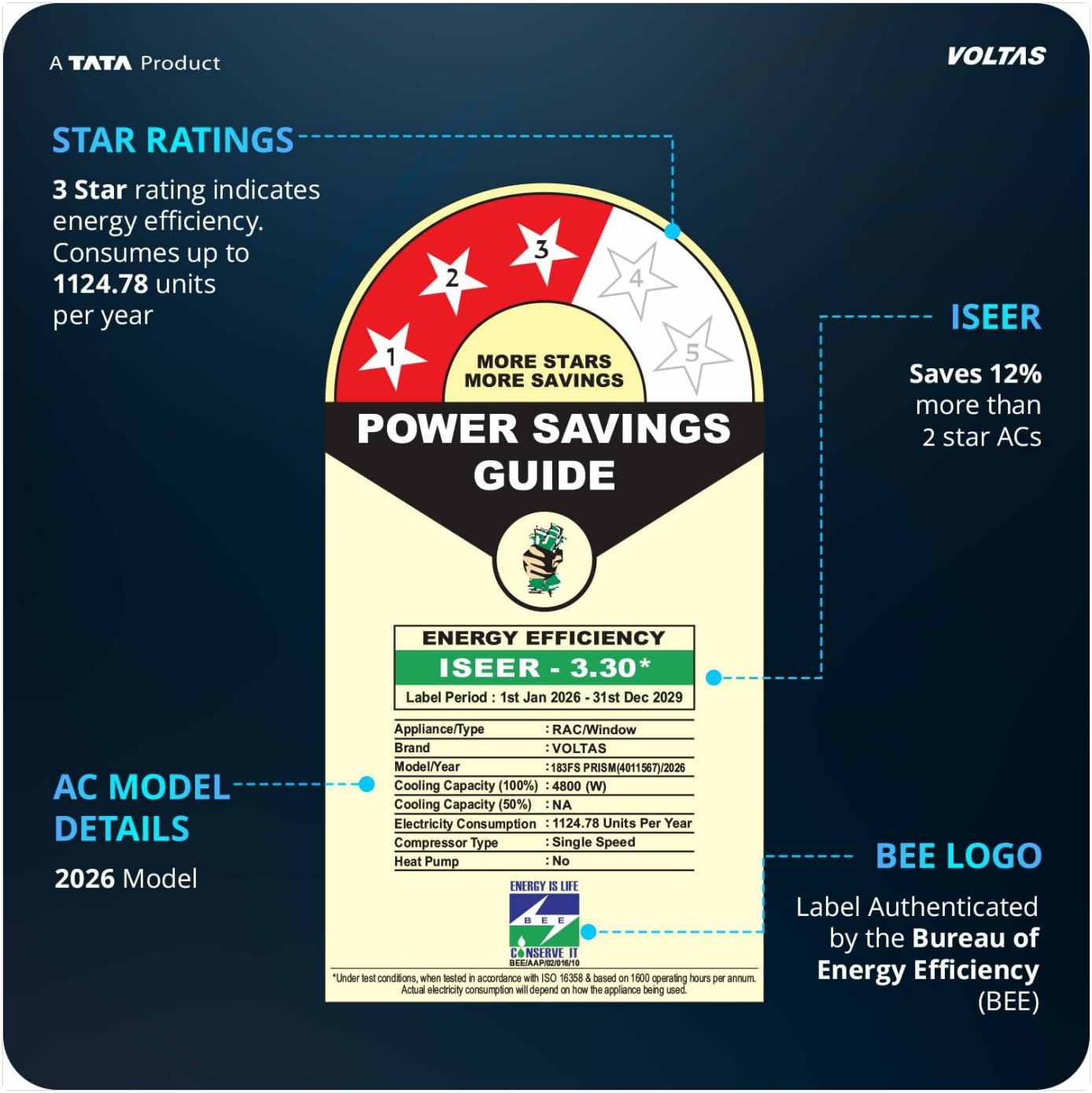


Figure 3.2: Front view of the Voltas 183FS PRISM Window AC unit.



Figure 3.3: Energy Label indicating 3 Star rating and ISEER value for the AC.

4. Specifications

Specification	Value
Brand	Voltas
Model Number	183FS PRISM
Capacity	1.5 Tons
Cooling Power	4.8 Kilowatts (4800 Watts)
Energy Rating	3 Star
ISEER Value	3.30 Wh
Annual Energy Consumption	1124.78 kWh/year
Refrigerant	R-32
Noise Level (IDU)	56 Decibels
Product Dimensions (D x W x H)	70D x 66W x 42.6H Centimeters
Item Weight	48 Kilograms
Installation Type	Window
Control Method	Remote Control

Specification	Value
Voltage	230 Volts
Power Source	Corded Electric



Figure 4.1: Product Dimensions of the AC unit.

5. Installation

The Voltas 183FS PRISM is a window air conditioner designed for easy installation. However, for optimal performance and safety, it is highly recommended that installation be carried out by a qualified and authorized service technician.

General Installation Guidelines:

- **Location:** Choose a window that can support the weight of the unit and allows for proper drainage. Ensure there are no

obstructions to airflow both inside and outside.

- **Window Preparation:** Prepare the window opening according to the unit's dimensions (66 cm minimum width). Secure any necessary support brackets.
- **Mounting:** Carefully lift and place the AC unit into the window opening. Ensure it is tilted slightly outwards to allow for condensate drainage.
- **Sealing:** Seal any gaps around the unit with insulation foam or weather stripping to prevent air leakage and improve efficiency.
- **Drainage:** Connect the drain tray and ensure proper water drainage to the outside.
- **Electrical Connection:** Connect the power cord to a dedicated, properly grounded electrical outlet that meets the unit's power requirements (230 Volts).

Note: Refer to the detailed installation guide provided by the service technician or available on the Voltas official website for specific instructions and diagrams.

6. Operating Instructions

Your Voltas Window AC can be operated using the included remote control. Ensure the remote has fresh AAA batteries installed.

Remote Control Functions



Figure 6.1: Remote Control Layout and Functions.

- **Power (ON/OFF):** Press to turn the AC unit on or off.
- **Mode:** Cycle through operating modes: Cool, Dry, Fan, Sleep.
- **Temperature Controls (+/-):** Adjust the desired room temperature.
- **Fan Speed:** Select fan speed (Turbo, High, Medium, Low).
- **V.SWING / H.SWING:** Activate or deactivate vertical and horizontal air swing for better air distribution.
- **Sleep Mode:** Activates the sleep function for comfortable night cooling.
- **Turbo:** Engages maximum cooling power for rapid temperature reduction.
- **Timer ON/OFF:** Set a timer for the unit to automatically turn on or off.
- **Memory Restart:** This feature automatically restores the last operating settings after a power interruption.

Operating Modes

- **Cool Mode:** Provides cooling and dehumidification. Set your desired temperature.

- **Dry Mode:** Reduces humidity in the room without significant cooling.
- **Fan Mode:** Circulates air without cooling or heating. Fan speed can be adjusted.
- **Sleep Mode:** Gradually adjusts the temperature to maintain comfort during sleep while saving energy.

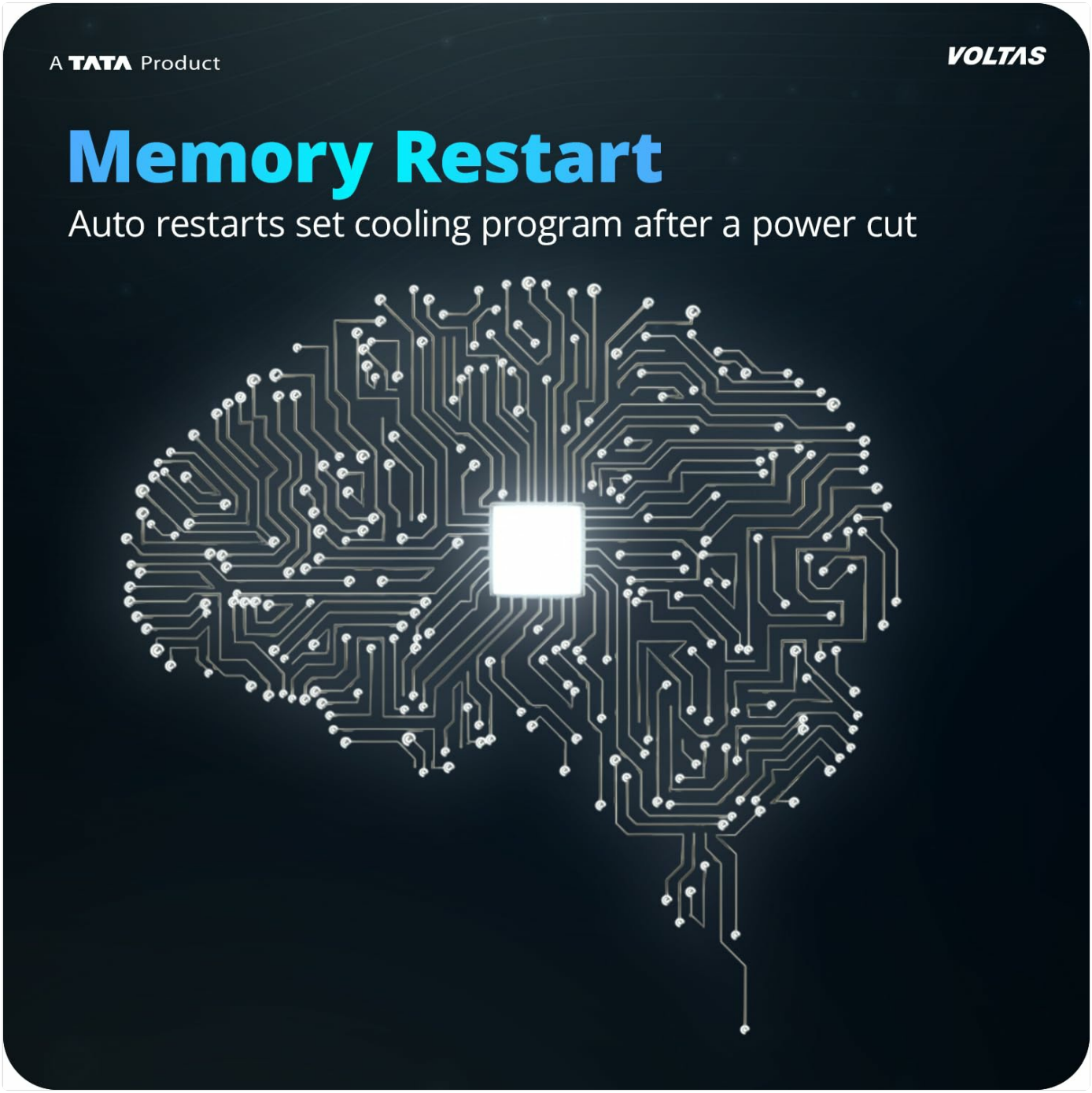


Figure 6.2: Memory Restart function ensures settings are retained after power cuts.



Figure 6.3: Sleep Mode maintains optimal temperature for comfort.



Figure 6.4: Turbo Cooling provides instant relief from heat.

7. Maintenance

Regular maintenance ensures the longevity and efficient operation of your Voltas AC unit. Always disconnect power before performing any maintenance.

Air Filter Cleaning

The anti-dust filter should be cleaned regularly, typically every two weeks, or more often depending on usage and air quality.

1. **Turn Off Power:** Switch off the AC unit and disconnect it from the power supply.
2. **Remove Front Panel:** Open the front grille of the AC unit.
3. **Remove Air Filter:** Carefully slide out the air filter(s).
4. **Clean Filter:** Use a vacuum cleaner to remove dust. For heavy dirt, wash the filter with lukewarm water and a mild detergent. Rinse thoroughly.

5. **Dry Filter:** Allow the filter to dry completely in a shaded area before re-installing. Do not expose to direct sunlight.
6. **Re-install:** Place the dry filter back into the unit and close the front panel.



Figure 7.1: Anti-Dust Filter for cleaner air.

General Cleaning and Care

- **Exterior Cleaning:** Wipe the exterior of the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Coil Cleaning:** The condenser and evaporator coils should be inspected and cleaned periodically by a professional service technician to ensure efficient heat exchange.
- **Drainage Check:** Ensure the drain tray and hose are clear of blockages to prevent water leakage.



Figure 7.2: Copper Condenser with Anti-Corrosive Coating for durability.



Figure 7.3: Anti-Freeze Thermostat prevents ice build-up.

8. Troubleshooting

Before contacting customer support, please refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
AC does not turn on	No power supply Remote control batteries are dead	Check power connection and circuit breaker Replace remote control batteries
Insufficient cooling	Dirty air filter Blocked air intake/outlet Room size too large Doors/windows open	Clean the air filter Remove obstructions Ensure AC capacity matches room size Close all doors and windows

Problem	Possible Cause	Solution
Water leakage	Blocked drain hose/tray Improper installation angle	Clear any blockages in the drain system Contact a technician to check installation angle
Unusual noise	Loose parts Fan obstruction Unit not level	Check for loose screws or panels Inspect for foreign objects near fan Ensure unit is installed level; contact technician if persistent
Remote control not working	Dead batteries Obstruction between remote and AC	Replace batteries Remove any objects blocking the signal path

If the problem persists after attempting these solutions, please contact Voltas Customer Support.

9. Warranty Information

Your Voltas 1.5 Ton 3 Star Fixed Speed Window AC (Model: 183FS PRISM) comes with the following warranty:

- **Product Warranty:** 1 year on the entire product.
- **Compressor Warranty:** 5 years on the Fixed Speed RAC Compressor.

Please retain your purchase invoice for warranty claims. The warranty covers manufacturing defects under normal use conditions. It does not cover damages due to improper installation, misuse, neglect, unauthorized repairs, or acts of nature.



Figure 9.1: Warranty details for Voltas AC units.

10. Customer Support

For any queries, service requests, or technical assistance, please contact Voltas Customer Support:

- **Email:** vcare@voltas.com
- **Phone (India):** +919650694555 / 1860-599-4555

Our customer support team is available to assist you with installation, troubleshooting, and general product inquiries.



Figure 10.1: Voltas Customer Support contact information.

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