

RTR300

THROUGH WALL FAN

Installation & User Manual

Please read and save this manual.



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We are committed to product quality and providing friendly customer service. If you have any questions or suggestions, please don't hesitate to contact us.

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WARNING

- 1.If you are sensitive to sound, please keep this product as far away as possible from beds and other resting areas.
- 2. Please install the product more than 4 feet from the ground, for better ventilation of hot and cold air exchange.
- 3. Keep away from air conditioning vents, etc. For more accurate temperature control of the room on this side of the temperature sensing.

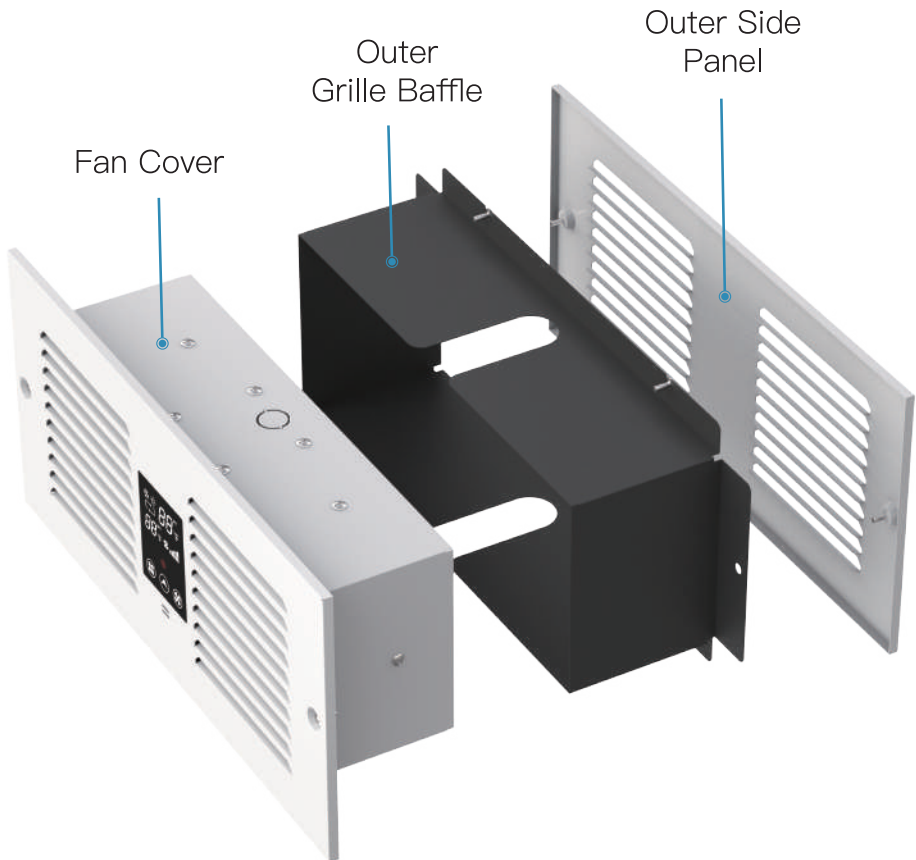
| Safety Considerations

WARNING

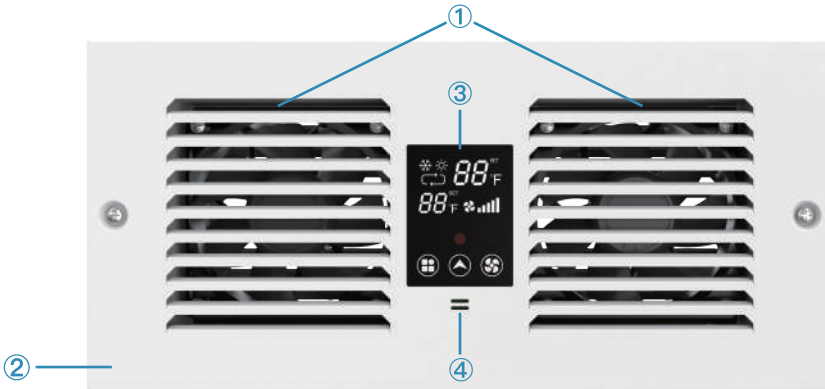
To reduce the risk of fire, electric shock or personal injury, please observe the following:

- 1.Ensure your power source conforms to the electrical requirements of this product.
- 2.Check your local code restrictions for any additional safety measures necessary for a proper, code-compliant installation.
- 3.Read all instructions before installing and using this product.
- 4.If you are unfamiliar or have doubts about performing this product's installation, seek the services of a qualified, trained, and licensed professional. Inappropriate installation will void this product's warranty.
- 5.This product must not be used in potentially hazardous locations such as flammable, explosive, chemical-laden or wet atmospheres.
- 6.This product is not recommended for use in bathrooms.
- 7.Do not cover power cords with rugs or other fabric materials.
- 8.This product has rotating parts. Safety precautions should be exercised during the installation, operation, and maintenance of this product.
- 9.Do not insert or allow fingers or foreign objects to enter any ventilation or exhaust openings as it may cause electric shock, fire, or damage to this product. Do not block or tamper with this product in any manner while it is in operation.
- 10.Do not depend on the on/off programming as the sole means of shutting power from this product. Unplug the power cord before installing, servicing, or moving this product.

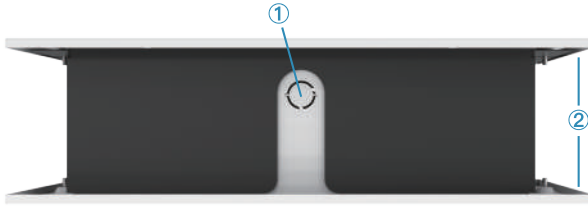
- 11. Do not operate this product while its cord is damaged, or if it malfunctions, has been dropped, or is damaged in any way.
- 12. When cutting or drilling into a wall or ceiling, do not damage electrical wiring or other hidden utilities.
- 13. This unit must be grounded.



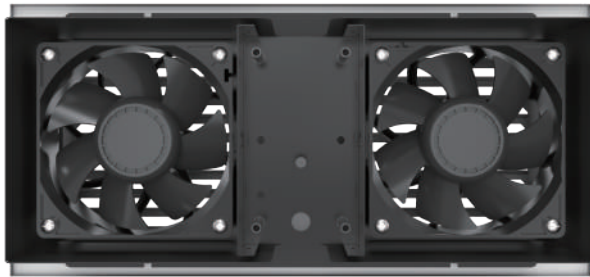
Description



- ① Here are the inlet and outlet vents, featuring wide openings to facilitate air circulation. Please refrain from inserting fingers, sticks, or any other objects inside.
- ② This panel is made of galvanized sheet metal, with a surface coating process enhancing its overall appearance and providing corrosion resistance, sturdiness, and durability.
- ③ Here is the smart control panel, which supports tap and IR remote control with temperature sensor, IR remote control sensor, three trigger modes, and five wind speed adjustments. The smoked acrylic material has more texture.
- ④ This is the temperature sensing opening. Please do not cover this opening with any objects as this will affect the temperature sensing of your space.



- ① Remove the removable stopper and install the clamp-type cable tightener (this part does not come included).
- ② Telescopes and adjusts to your wall thickness. Fits walls from 3 4/5" to 7 4/5".

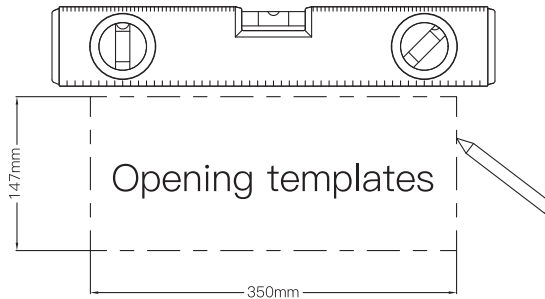


Comes with two excellent quality motors whose speed can be speed adjusted via infrared. This motor uses excellent ball bearings for longer life and is quiet compared to most motors on the market.

Specifications

RTR300	
Motor:	85–265V AC 50/60Hz
Power:	14W
Operating Humidity:	35 to 85% RH
Operating Temperature:	40 to 140°F
Maximum airflow:	300CFM
Product Dimensions:	16 1/2" X 4 1/2" X 7 3/5"
Hole Size:	13 4/5" X 5 4/5" (350mm x 147mm)

Installation



Step 1:

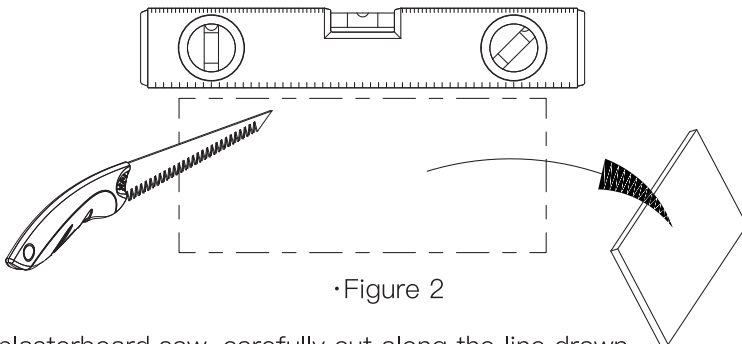
•Figure 1

1) Determine the installation location.

Use a stud finder to ensure there are no obstructions such as studs, wires, pipes, etc., within the wall. The wall thickness must fall between 3 4/5" to 7 4/5".

2) With a leveling tool, ensure the device is well positioned horizontally and vertically. Mark a precise locating point.

Retrieve the opening template provided with our product (do not discard it after use, as it will be needed in subsequent steps). Use it to trace the corresponding line.



•Figure 2

Step 2:

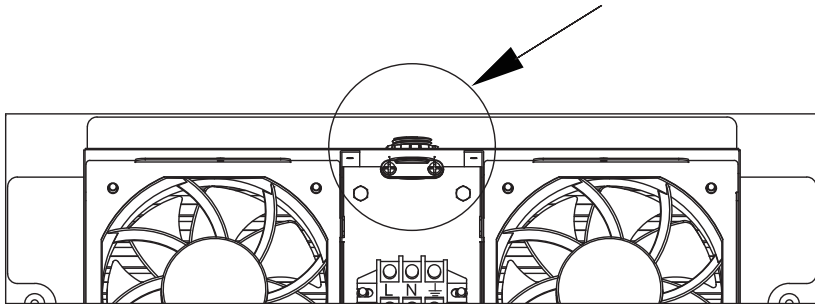
Using a plasterboard saw, carefully cut along the line drawn in Step 1. For a smoother cut, it's recommended to use a level to ensure accuracy. Remember to prioritize safety throughout the cutting process. Once the hole is cut, remove the outer baffle and compare it.



•Figure 3

Step 3:

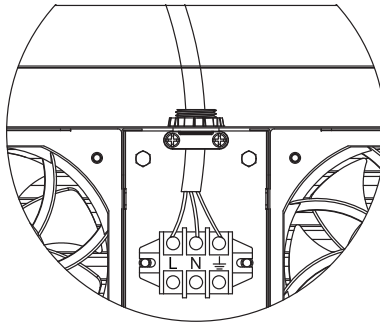
Using a screwdriver or sharp object, puncture the opposite gypsum board at the two corners of the cut. It's recommended to carefully compare the cuts in Figure 2 to maintain uniformity during this step. Next, retrieve the opening template used in Step 1 and trace lines for cutting. Before cutting each edge, remove the outer baffle for comparison. Repeat Step 1 and Step 2 as necessary.



•Figure 4

Step 4:

After completing the opening step, unscrew the removable iron tabs located either at the top or bottom of the product, depending on your wiring setup (you may choose to remove either the top or bottom tabs). Install the clip-on cable retainer onto the product, ensuring you observe the correct direction of installation. The clip-on cable retainer should be provided with its own specifications, including size: 3/8".

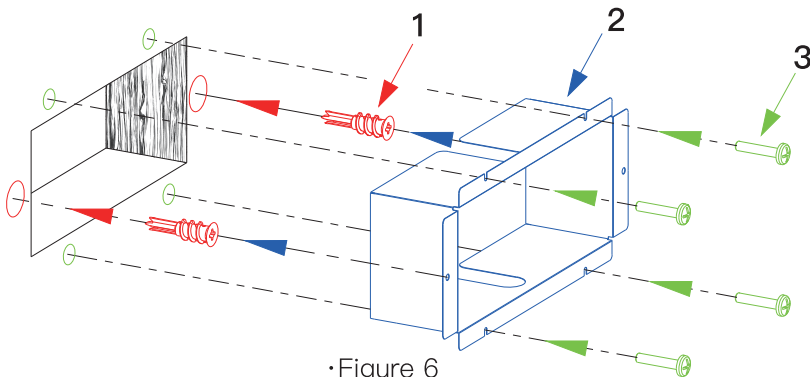


•Figure 5

Step 5:

Before proceeding with this step, ensure that the circuit to be installed is de-energized!

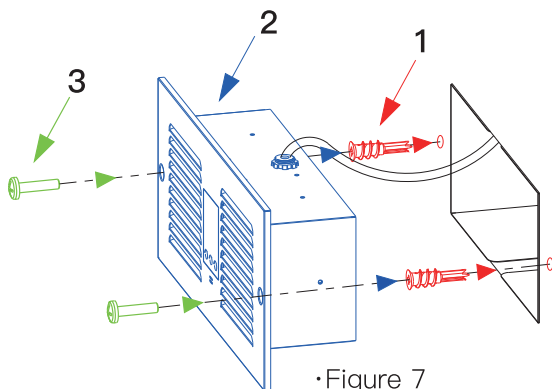
Guide the power cord into the clip-on cable retainer on the product. Following the circuit diagram, connect the power cord's live, neutral, and ground wires to the product's wiring plug in the specified order, taking care not to miss any copper strands, as this could result in power leakage. Finally, tighten the screws on the clip-on cable retainer to secure the power cord.



•Figure 6

Step 6:

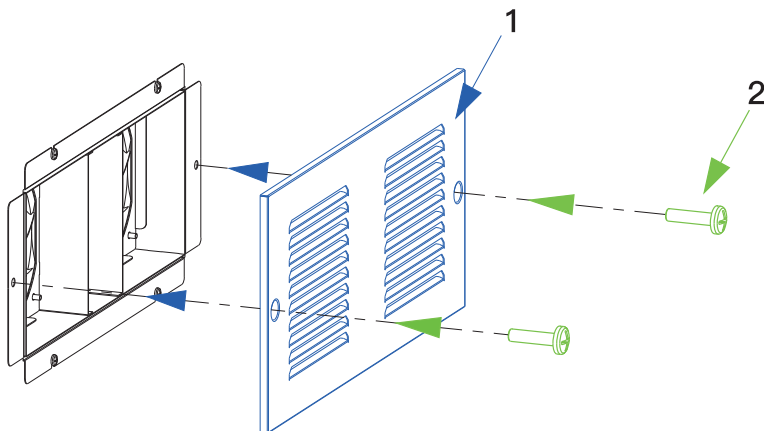
Begin by removing the outer baffle from the product and installing it. First, align the drywall rivets located in the red section of the picture with the corresponding holes in the gypsum board, then drive them in. Next, install the outer baffle into the blue section accordingly. Finally, secure the outer baffle by driving the self-tapping screws located in the green section into the holes of the outer baffle.



•Figure 7

Step 7:

After installing the outer baffle, proceed to install the fan part of the product into the outer baffle, ensuring levelness. Begin by installing the drywall rivets into the designated holes (red), then insert the fan part (blue) Finally, secure it in place with screws (green).

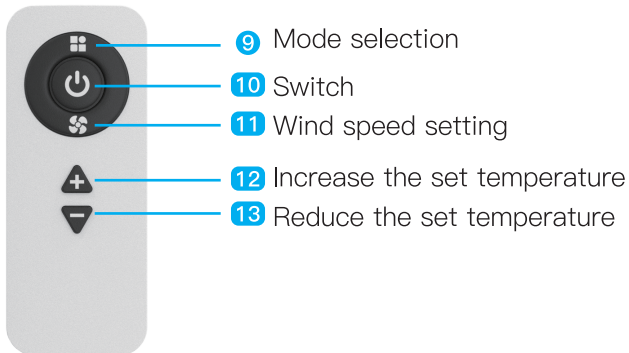


•Figure 8

Step 8:

The final step is to install the air guide panel. Align the air guide panel (blue) with the corresponding holes, then secure it in place using screws (green). Once this is done, the installation is complete.

| Programming



① Current Mode

The product features three trigger modes: cold trigger mode, hot trigger mode, and continuous operation. When the machine is in one of these modes, the respective icon will remain illuminated.

② Real-time Temperature

Displays the real-time temperature of the space where the panel is located, unaffected by any manual setting.

③ Set Temperature

Displays the value you set in cold trigger mode and hot trigger mode; 'ON/OFF' is displayed in continuous operation mode.

④ Wind Speed

Shows the wind speed setting when the machine is running.

⑤ Remote Control Signal Receiving Hole

Used for receiving remote control signals. Please ensure there are no obstructions in this area.

⑥ Mode Selection/Switch

Tap for mode switching; cycle through cold trigger mode, hot trigger mode, and continuous running mode. Press and hold for on/off.

⑦ Temperature Setting

Tap to increase the temperature value for cold trigger mode and hot trigger mode; set ON/OFF for continuous operation mode. Press and hold to quickly adjust the temperature value (only for cold trigger mode and hot trigger mode).

⑧ Wind Speed Adjustment

Tap outside to adjust the current wind speed, cycling through gears 1–5. Press and hold anywhere else on the screen to turn off all screen backlighting. Press any key to illuminate the screen without triggering any operation.

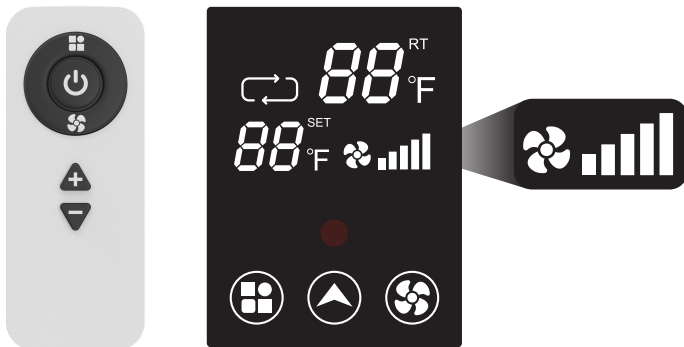
Mode Setting

⚠ IMPORTANT NOTES — PLEASE READ

This product is designed for ventilation and air exchange between rooms. It can also help enhance the airflow of an existing air conditioner or heater.

You can set temperature points where the fan will activate when the airflow temperature falls below or rises above the cooling and heating trigger settings, respectively.

Keep in mind that the faster the fan spins, the louder it will be.



Adjusting Fan Speed:

This operation applies to any mode where the fan starts running. When the fan starts running, touch the speed button () on the display panel or press the fan button () on the remote control to set the desired fan speed. There are five speeds to choose from.

Please Note! The faster the fan speed, the louder the noise will be. If you are not in urgent need of ventilation or air exchange, it is recommended to set the speed between 1–3.

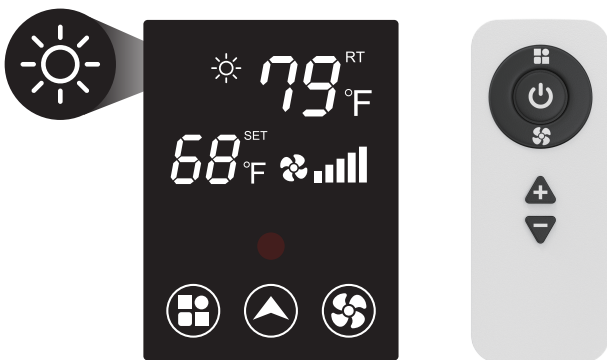


Cool Trigger Mode:

This mode is commonly used in summer. When the product detects that the ambient temperature (**68°F^{RT}**) is lower than the set temperature (**79°F^{SET}**), the fan operates and delivers cold air to the room with temperature issues.

When the machine is turned on, press the mode button () on the touch display panel or the square button () on the remote control to select the mode to the snowflake icon () as shown in the figure, which is the cooling trigger mode. Then press the up arrow button () on the touch display panel or the “+” “-” () button on the remote control to adjust the temperature you want to set. At this time, the numerical box (**79°F^{SET}**) on the lower left will change with the setting. After stopping the setting operation, it will blink for three seconds and then the cooling trigger mode will start working.

Please note that if the numerical box (**79°F^{SET}**) on the lower left displays (**0F**) the machine is in the off state and will not operate.



Heat Trigger Mode:

This mode is commonly used in winter. When the product detects that the ambient temperature (**79^{RT}°F**) is higher than the set temperature (**68^{SET}°F**), the fan operates and delivers cold air to the room with temperature issues.

When the machine is turned on, press the mode button () on the touch display panel or the square button () on the remote control to select the mode to the sun icon () as shown in the figure, which is the heat trigger mode. Then press the up arrow button () on the touch display panel or the “+” “-” () button on the remote control to adjust the temperature you want to set. At this time, the numerical box (**68^{SET}°F**) on the lower left will change with the setting. After stopping the setting operation, it will blink for three seconds, and then the heat trigger mode will start working.

Please note that if the numerical box (**68^{SET}°F**) on the lower left displays (**0F**) the machine is in the off state and will not operate.



Continuous Operation Mode:

The mode is not affected by the set temperature; as long as it is turned on, it will keep running until you manually deactivate this mode.

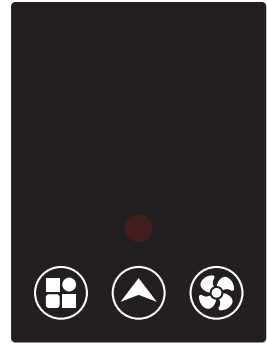
When the machine is turned on, touch the mode button () on the display panel or press the square button () on the remote control to select the mode to the loop icon () as shown in the figure; this is the continuous running mode. Then touch the up arrow button () on the display panel or press the “+” “-” () button on the remote control to set whether you want to activate this mode. At this time, the numerical box () on the lower left will only display ‘ON’ or ‘OF’. After stopping the setting operation, it will blink for three seconds, and then the continuous running mode will start working.

Please note that if the numerical box () on the lower left displays () the machine is in the off state and will not operate.

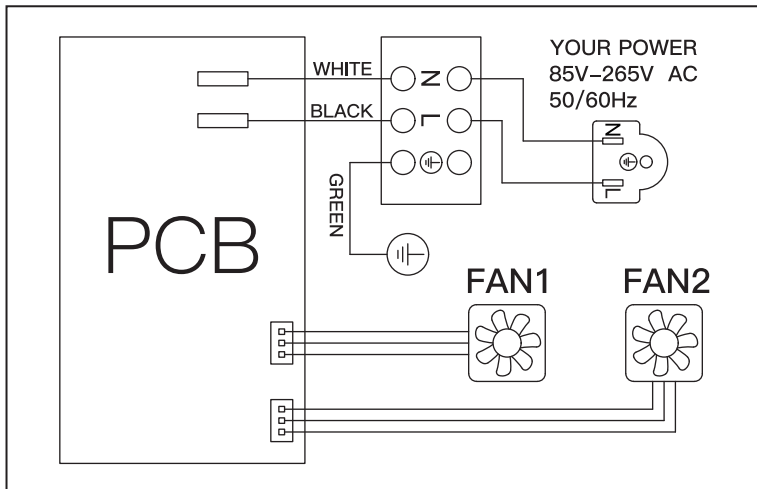
Fast Screen Off :

This operation is used to quickly turn off the screen backlight. Our product comes with a “screen off” program. If there is no operation within 60 seconds, the screen backlight will automatically turn off.

When the machine is turned on, press and hold the fan speed button () on the display panel for three seconds to quickly turn off the screen backlight. To turn on the screen again, simply press any button. However, this single press will not trigger any action on the product; it is only used to turn on the screen backlight.



Wiring Diagram



Warranty

APEXICALO ensures the product components will be free of material defects in workmanship or materials for a period of 1 year following the date of initial purchase of such product by a customer. This warranty is limited to the repair or replacement of defective equipment.

If it is necessary to return unit for service, the customer is solely responsible for proper packaging and transportation costs. The customer must initiate warranty process by contacting APEXICALO. Do not send any component or product back to APEXICALO without return material authorization.

This limited warranty does not apply to any part or component that is damaged in transit or when handling, has been subject to misuse, corrosion, chemicals, acts of God, has not been installed, operated or serviced according to the seller's instructions, or has been operated beyond the factory rated capacity or has been altered in any way. Routine maintenance is not covered by this warranty.

This limited warranty is void if defect(s) result from failure to have this unit installed by a qualified heating and air conditioning contractor.

APEXICALO shall not be responsible for loss of use of any product, loss of time, inconvenience, or damage to other equipment, or any other indirect or consequential damage with respect to property whether as a result of breach of warranty, neglect, or otherwise.

Extraordinary Quality
Led by APEXICALO



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