CubeTECH CTi100t

CubeTECH CTi100t 100mm In-Line Extractor Fan User Manual

Model: CTi100t

1. Introduction

Thank you for choosing the CubeTECH CTi100t 100mm In-Line Extractor Fan. This fan is designed to improve ventilation and air quality in various enclosed spaces such as bathrooms, kitchens, and utility rooms. It effectively removes excess moisture, odors, and stale air, contributing to a healthier environment. This manual provides essential information for the safe installation, operation, and maintenance of your fan.

2. Safety Information

WARNING: Electrical installation should only be performed by a qualified electrician in accordance with all local and national wiring regulations.

- Always disconnect the power supply before installation, maintenance, or cleaning.
- Ensure the fan is securely mounted to prevent vibration or movement.
- Do not operate the fan with damaged wiring or if the casing is compromised.
- Keep children and unauthorized persons away from the installation area.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Ensure adequate ventilation is provided to prevent the back-flow of gases from open-flue appliances.

3. Product Overview and Features

The CubeTECH CTi100t is a high-performance in-line extractor fan equipped with several features for optimal air management.

- **Dual Speed Operation:** Offers two airflow settings (Low 165 m^3/h, High 234 m^3/h) to match ventilation needs and

optimize energy use.

- **Adjustable Timer:** Features an adjustable run-on timer, allowing the fan to operate for 2 to 30 minutes after activation, preventing moisture and condensation buildup.
- **Quiet Performance:** Engineered for low noise operation (Low 38dB / High 40dB) while maintaining strong airflow.
- **Durable Construction:** Built with a long-life ball-bearing motor and high-quality materials for lasting performance.
- **Easy Installation:** Compact and lightweight design compatible with standard 100mm ducting systems.



Image: The CubeTECH CTi100t fan highlighting its adjustable timer overrun delay feature, which can be set from 2 to 30 minutes.



Image: The CubeTECH CTi100t fan illustrating its dual-speed operation capability for varied airflow requirements.



Image: Internal view of the CubeTECH CTi100t fan, showcasing its long-life ball-bearing motor for enhanced durability and performance.



Image: The CubeTECH CTi100t fan emphasizing its low noise performance, ideal for quiet environments.

4. Installation

The CubeTECH CTi100t fan is designed for in-line duct mounting. It is compatible with standard 100mm ducting and fittings. For detailed wiring and mounting instructions, refer to the diagrams below and consult a qualified electrician.

- **Mounting Location:** Choose a suitable location within your ducting system, ensuring easy access for future maintenance if required. The fan can be mounted horizontally or vertically.
- **Ducting Connection:** Connect 100mm ducting to both the inlet and outlet ports of the fan. Secure connections with appropriate clamps or tape to prevent air leaks.
- **Electrical Connection:** Wiring must be carried out by a qualified electrician. Ensure the power supply is disconnected before making any electrical connections. Follow the wiring diagram provided with the product for correct connection to the mains supply and timer control.



Image: Detailed installation diagram for the CubeTECH CTi100t fan, showing various mounting configurations and ducting connections. This image also includes key specifications.

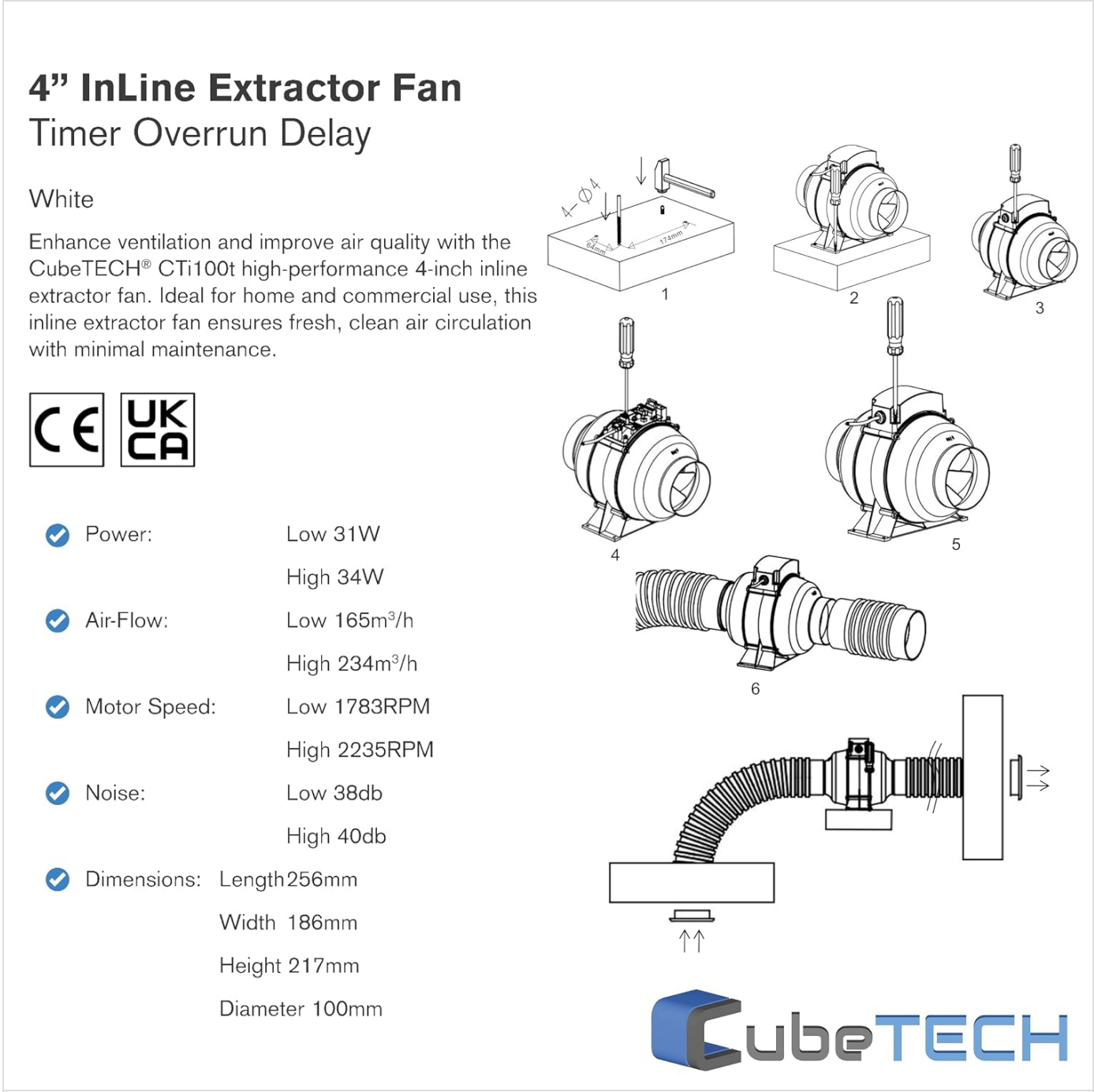


Image: Example of the CubeTECH CTi100t fan integrated into a heating, ventilation, and air conditioning (HVAC) system, demonstrating its application.

5. Operating Instructions

The CubeTECH CTi100t fan offers dual-speed operation and an adjustable timer for customized ventilation.

- **Power On/Off:** The fan is typically wired to a light switch or a dedicated fan switch. Turning the switch ON will activate the fan.
- **Speed Selection:** The fan features two speeds. The speed setting is usually configured during installation via internal wiring or a switch on the unit. Consult your electrician or the wiring diagram for details on how to select between low (1783 RPM) and high (2235 RPM) speeds.
- **Timer Adjustment:** The adjustable timer allows the fan to continue running for a set period after the main power switch is turned OFF.
    1. Locate the timer adjustment dial on the fan unit (refer to product images for location).
    2. Using a small screwdriver, carefully turn the dial to set the desired run-on time, ranging from 2 to 30 minutes.

3. Test the timer by turning the fan ON and then OFF. The fan should continue to run for the set duration.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your fan. Always disconnect power before performing any maintenance.

- **Cleaning:** Periodically clean the fan's exterior and the fan blades to prevent dust and debris buildup. Use a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect the fan for any signs of wear, damage, or loose connections. Check ducting for obstructions.
- **Lubrication:** The ball-bearing motor is designed for long life and typically does not require lubrication.

7. Troubleshooting

If you encounter issues with your CubeTECH CTi100t fan, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Fan does not turn on.	No power supply, loose wiring, faulty switch.	Check power supply. Ensure switch is ON. Verify wiring connections (consult electrician).
Fan runs but airflow is weak.	Ducting obstruction, incorrect speed setting, dirty fan blades.	Check ducting for blockages. Ensure fan is set to desired speed. Clean fan blades.
Fan is excessively noisy.	Loose mounting, foreign object in fan, damaged motor.	Check mounting for security. Disconnect power and inspect fan for obstructions. If motor is damaged, contact support.
Timer function not working.	Incorrect timer setting, wiring issue.	Re-adjust timer dial. Verify timer wiring (consult electrician).

If the problem persists after attempting these solutions, please contact CubeTECH customer support or a qualified electrician.

8. Specifications

Feature	Specification
Brand	CubeTECH
Model Name	CTi100t
Duct Diameter	100mm (4 inches)
Power (Low)	31W
Power (High)	34W
Power Source	Corded Electric
Voltage	230 Volts

Feature	Specification
Airflow (Low)	165 m^3/h
Airflow (High)	234 m^3/h
Motor Speed (Low)	1783 RPM
Motor Speed (High)	2235 RPM
Noise Level (Low)	38 dB
Noise Level (High)	40 dB
Product Dimensions (L x W x H)	25.6 cm x 18.6 cm x 21.7 cm
Item Weight	1.5 Kilograms
Special Feature	Adjustable Timer (2-30 minutes)
Material	Plastic
Indoor/Outdoor Usage	Indoor
Installation Type	Duct Mount

9. Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or contact the retailer. For technical support or inquiries, please contact CubeTECH customer service through their official website or the contact details provided with your product.
Keep your proof of purchase for warranty claims.

© 2026 CubeTECH. All rights reserved.