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## Xpelair 91016AW

# Xpelair Premier CF20T Centrifugal Extractor Fan

User Instruction Manual

## 1. INTRODUCTION

The Xpelair Premier CF20T is an efficient and elegant centrifugal extractor fan designed for effective ventilation in domestic and commercial settings. It is ideal for areas requiring longer duct runs, such as bathrooms, shower rooms, toilets, utility rooms, hotel rooms, and office restrooms. This model features an integrated humidistat and an adjustable run-on timer for optimal performance and energy efficiency. Its two-part casing allows for versatile installation, either recessed or surface-mounted.



**Figure 1:** Front view of the Xpelair Premier CF20T Centrifugal Extractor Fan. This image shows the compact, white, rectangular unit with ventilation slots at the top and bottom, and the Xpelair Premier logo on the front panel. A small brown indicator light is visible on the right side.

## 2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result

in electric shock, fire, or serious injury.

- Installation must be carried out by a qualified electrician in accordance with all local and national wiring regulations.
- Ensure the power supply is disconnected before attempting any installation, maintenance, or cleaning.
- 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.
- Children should be supervised to ensure that they do not play with the appliance.
- Do not operate the fan if any part is damaged. Contact qualified service personnel for repair.
- Ensure adequate ventilation is provided to prevent the back-flow of gases from open-flued appliances.

### 3. PRODUCT OVERVIEW AND FEATURES

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The Xpelair Premier CF20T is engineered for high-performance condensation control and efficient air extraction.

- **High-Performance Centrifugal Unit:** Designed for effective condensation control.
- **Adjustable Humidistat:** User-adjustable step-speed humidistat from 50-90% relative humidity.
- **Automatic Run-on Timer:** Adjustable from 30 seconds to 20 minutes.
- **QuickVisit Feature:** Prevents fan operation if light is switched on/off within 2 minutes, saving energy.
- **Two-Part Casing:** Allows for easy recessed or surface mounting.
- **Automatic Air Shutter:** Prevents backdraft when the fan is off.
- **Easy Maintenance:** Clip-on front cover and removable fan blade for simple cleaning.
- **Included External Grille:** Supplied with a brown 100mm external outlet grille for wall or soffit mounting.

### 4. INSTALLATION AND SETUP

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Installation should only be performed by a qualified professional. Ensure power is disconnected at the mains before beginning.

#### 4.1 Mounting Options

- **Recessed Mounting:** The two-part casing allows the fan to be mounted in ceilings or stud work walls in recesses as shallow as 50mm deep. This requires using the provided side knockout, an FDA adapter, and Profile 29 flat ducting.
- **Surface Mounting:** The fan can also be surface-mounted directly onto a wall or ceiling.

#### 4.2 Ducting Connection

- The fan is compatible with 100mm circular ducting.
- For recessed installations, Profile 29 flat ducting can be used with the appropriate adapter.
- Connect the ducting securely to the fan's outlet and route it to the external grille.

#### 4.3 Electrical Connection

1. Ensure the main power supply is OFF.
2. Open the wiring terminal cover on the fan unit.
3. Connect the live, neutral, and switched live (for timer/humidistat control) wires according to the wiring diagram provided in the full installation manual (not included here).
4. Secure all connections and close the terminal cover.
5. Once installation is complete, restore power and test the unit.

## 5. OPERATING INSTRUCTIONS

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The Xpelair Premier CF20T operates automatically based on humidity levels and light activation.

### 5.1 Humidistat Adjustment

- The humidistat is user-adjustable, typically located behind the front cover.
- Use a small screwdriver to adjust the setting between 50% and 90% relative humidity (RH).
- Setting a lower RH percentage will cause the fan to activate at lower humidity levels, running more frequently. A higher RH percentage will cause it to activate only when the air is more humid.

### 5.2 Timer Adjustment

- The run-on timer controls how long the fan continues to operate after the light is switched off or humidity drops below the set threshold.
- The timer can be adjusted from 30 seconds to 20 minutes.
- Adjust the timer using the dedicated control, usually a small dial or screw, located near the humidistat.

### 5.3 QuickVisit Feature

- This feature prevents the fan from activating if the light is switched on and then off again within 2 minutes. This is useful for brief visits to the room, avoiding unnecessary fan operation.

### 5.4 Manual Operation (if applicable)

- Some models may include a manual override via a pullcord or external switch. Refer to your specific model's wiring diagram for details.

## 6. MAINTENANCE

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Regular cleaning ensures optimal performance and longevity of your Xpelair Premier CF20T fan. Always disconnect power before cleaning.

### 6.1 Cleaning the Fan

1. **Disconnect Power:** Turn off the electricity supply to the fan at the circuit breaker.
2. **Remove Front Cover:** The clip-on front cover can be easily removed for access to the fan blade.
3. **Remove Fan Blade:** The fan blade is removable for thorough cleaning. Handle with care.
4. **Clean Components:** Use a soft cloth dampened with mild detergent to wipe down the front cover, fan blade, and the interior of the fan casing. Do not use abrasive cleaners or solvents.
5. **Dry Thoroughly:** Ensure all components are completely dry before reassembling.
6. **Reassemble:** Reattach the fan blade and clip the front cover back into place.
7. **Restore Power:** Turn the electricity supply back on.

It is recommended to clean the fan every 3-6 months, or more frequently in dusty or high-humidity environments.

## 7. TROUBLESHOOTING

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If you experience issues with your Xpelair Premier CF20T, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Fan does not turn on.	No power supply; Incorrect wiring; Humidistat setting too high; Timer setting too short.	Check circuit breaker; Verify wiring connections (consult electrician); Lower humidistat setting; Increase timer setting.
Fan runs continuously.	Humidistat setting too low; Timer set too long; Faulty humidistat/timer.	Increase humidistat setting; Decrease timer setting; If problem persists, contact a qualified electrician.
Reduced airflow or noisy operation.	Blocked grille or ducting; Dirty fan blade; Obstruction in fan.	Clean external grille and fan blade (refer to Maintenance section); Check ducting for obstructions.
Fan does not respond to light switch.	Incorrect switched live wiring; QuickVisit feature active.	Verify wiring (consult electrician); Wait more than 2 minutes after switching light on/off.

For issues not listed here or if solutions do not resolve the problem, please contact Xpelair customer support or a qualified electrician.

## 8. SPECIFICATIONS

Attribute	Detail
Brand	Xpelair
Model Number	91016AW (CF20T)
Color	White
Product Dimensions (L x W x H)	26.01 x 24 x 21.01 cm
Item Weight	2.3 Kilograms
Power	75 Watts
Voltage	230 Volts (AC)
Material	Plastic
Noise Level	57 dB
Special Features	Timer Modes, Humidistat
Fan Design	Extractor Fan
Mounting Type	Wall Mount

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase spare parts, please contact Xpelair customer service.

- Refer to the packaging or the official Xpelair website for the most up-to-date contact details and warranty terms.
- When contacting support, please have your product model number (CF20T or 91016AW) and purchase date ready.

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