

Xpelair Simply Silent™ DX150





Installation and Maintenance Instructions



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Standard DX150S (93070AW) DX150R (93071AW) Timer

DX150TS (93072AW) DX150TR (93073AW) Pull Cord

DX150PS (93074AW) DX150PR (93075AW) Humidistat, Timer

DX150HTS (93076AW) DX150HTR (93077AW)

- · Do read the entire instruction leaflet before commencing installation.
- · Do install each fan with a means for disconnection in all poles in the fixed wiring.
- Do make sure the mains supply is switched off before attempting to make electrical connections or carry out any maintenance or cleaning.
- Please leave this leaflet with the fan for the benefit of the user.



This appliance is intended for connection to fixed wiring. Check that the electrical rating shown on each fan matches the mains supply.

THE APPLIANCE IS DOUBLE INSULATED AND DOES NOT REQUIRE AN EARTH CONNECTION.

All installations must be supervised by a qualified electrician. Installations and wiring must conform to current IEE Regulations (UK), local or appropriate regulations (other countries).

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and maintenance of the appliance shall not be made by children.



All Xpelair Simply Silent™ DX150 AC fans have the following features:

- Two speed extraction (Selectable at installation)
- · Built-in back draught shutter

DX150S/DX150R - Operate the fan using an on/off switch (not supplied).

DX150PS/DX150PR - Operate the fan using an integral pull-cord.

DX150TS/DX150TR* - Built-in timer operates fan for a preset delay from 30 seconds to 30 minutes. **DX150HTS/DX150HTR*** - Operates when triggered automatically by the integral humidity sensor, or by using an external on/off switch (not supplied).

In automatic mode: the built-in timer automatically operates the fan for a pre-set delay time from 30 seconds to 30 minutes once humidity drops below the pre-set Relative Humidity (RH) value.

External operation: When switched off using the external op/off switch the fan continues to run for

the preset delay from 30 seconds to 30 minutes.

* Factory settings: Timer 15 minutes, RH 75% Where to locate the fan.



- · Locate it as high as possible.
- At least 110mm from the edges of the mounting surface to the centre of the hole.
- As far away as possible from and opposite to the main source of air replacement to ensure airflow across the room (e.g. opposite the internal doorway).
- · Near the source of steam or odours.



- Not where ambient temperatures are likely to exceed 50°C.
- If installed in a kitchen fans must not be mounted immediately above a cooker hob, or eye level grill.
- If installing in a room containing a fuel burning device which has a non-balanced flue, it is the installer's responsibility to ensure that there is enough replacement air to prevent fumes being drawn down the flue when the fan is operating up to maximum extract. Refer to Building Regulations for specific requirements.
- Exhaust air must not be discharged into a flue used for exhausting of fumes from appliances supplied with energy other than electric. Requirements of all authorities concerned must be observed for exhaust air discharge and intake flow rates.
- Not suitable for use in possible chemical corrosive atmospheres.



What the installer will need.

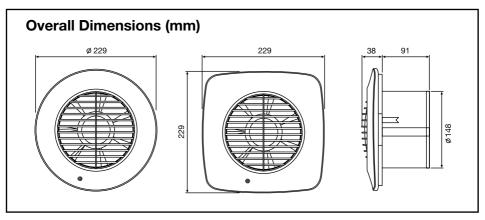
 3mm electrician's screwdriver and No.1 or 2 Pozidrive screwdrivers.

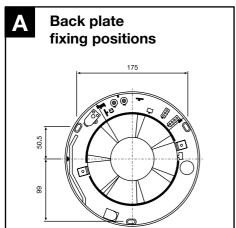
If wall mounting the fan, you will also need:

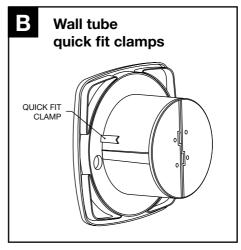
- · A 150mm diameter prepared hole.
- An appropriate external Wall Grille and Ø150mm wall sleeve duct. Kit Ref 91233AW.

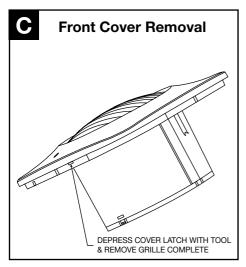
If ceiling mounting the fan, you will also need:

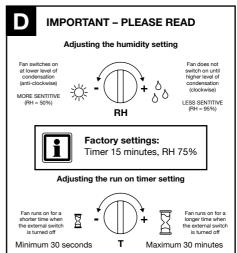
- · A 150mm diameter prepared hole.
- Appropriate ancillaries for termination. These items are available from Xpelair:
- 3m flexible ducting Ref: 89665AA. If the duct passes through a cold space use insulated duct ref: 91461AA.

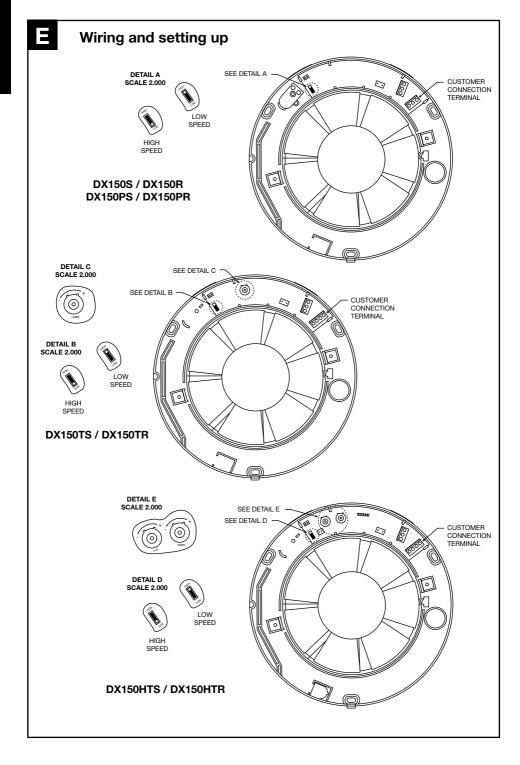














Installing the isolating switch and cables.

A means for disconnection in all poles must be incorporated in the fixed wiring in accordance with wiring regulations

- If metal switch boxes are used, earthing regulations must be followed.
- The cross-sectional area of the supply cord used should be ranged from 1-1.5mm².
- DX150S / DX150R / DX150PS / DX150PR

 2 core, DX150TS / DX150TR / DX150HTS /
 DX150HTR 3 core.
- DX150TS / DX150TR / DX150HTS / DX150HTR. A wall or ceiling On/Off switch (with indicator light) is recommended.
- Check that the electrical rating shown inside the back-plate matches your mains supply.
- Check there are no buried pipes or cables
 e.g. electricity, gas, water behind the switch
 location (in the wall or above the ceiling). If in
 doubt, seek professional advice.
- 3. Isolate the mains supply.
- 4. Lay in the cable from the isolating switch to the fan location via the on/off switch (if required).
- 5. Lay in the cable from the isolating switch to the point of connection to the mains supply.



Warning: Do not make any connections to the electrical supply at this stage.

6. Install the isolating switch and on/off switch (if required).

7. Make all connections within the isolating switch and the on/off switch (if required).



Wet Rooms: On/Off switch must be situated so that it cannot be touched by persons making use of the bath or shower.

For Australia Only – DX150S / DX150R / DX150PS / DX150PR Connection to the supply can be made by a flexible 2-core cable complete with 3 pin plug for insertion into an approved 10A GPO or directly wired through an approved 10A wall mounted surface switch with at least 3mm clearance between contacts.

For Australia Only – DX150TS / DX150TR / DX150HTS / DX150HTR These models are permanently connected to the supply and operation is controlled by a remote switch. They should be directly wired to the supply through an approved 10A wall mounted surface switch with at least 3mm clearance between contacts.

Preparing the Fan for installation.

 Remove the front cover/baffle assembly by depressing the latch on the underside of the cover and pulling off the front cover / baffle from the bottom (See Figure C).



If working above ground floor level, safety precautions must be observed.

Mark the position of the back-plate

- 2. Hold the back-plate so that the level line marked on it is orientated horizontally.
- 3. Carefully insert the fan tube into the wall duct.
- 4. Mark on the wall the positions of the fixing holes in the back-plate.
- 5. Remove the back plate from the ducting.
- Drill screw holes in these positions if necessary, and fit wall plugs and screws as required. The fan may also be fixed to a wall tube using the clamping brackets.
 See 9 below.



If installing in a ceiling, appropriate termination ancillaries are required. Follow instructions provided.

Mount the back-plate.

- 7. Feed the mains cable through the cable entry hole in the back plate to the terminals.
- 8. Insert the fan tube of the back-plate into the wall duct/ceiling as before.
- 9. Fasten the back-plate to the wall/ceiling using appropriate fasteners. See figure A.
- 10. If using screws, do not over tighten. The fan may also be fixed to a wall tube using the clamping brackets. Tighten the screws until the fan is firmly secured to the tube – see figure B.

Wire the electrical connections.

- Make sure the mains supply is isolated.
 Switch off the mains electrical supply and remove fuses.
- Feed the cable to the terminal block. Wire the fan as shown in Figure F using the diagram appropriate to the fan model.
- 13. Connect the cable from the isolating switch to the electrical supply wiring.

FAN TERMINALS		DX150S/DX150R DX150PS/DX150PR DOUBLE POLE ISOLATING SWITCH
N L E		FUSE N E
For fixed wiring circuits the protective fuse for the appliance must not exceed 5A. Terminal E can be used as a parking terminal for an earth wire (if required)		
FAN TERMINALS	ON/OFF SWITCH	DX150TS/DX150TR DX150HTS/DX150HTR
T N L E	(IF REQUIRED)	DOUBLE POLE ISOLATING SWITCH FUSE

Fan Settings

SPEED SETTING

The fans are factory set to low speed, but have two speed settings for different applications. Select either high or low speed by connecting the jumper between the centre and high or low speed pin on the jumper (see Figure E)

DX150TS / DX150TR Only

 To adjust the over-run period turn the control (T) clockwise to increase and anti-clockwise to decrease – see Figure D.

DX150HTS / DX150HTR Only - see figures D and E

- The pre-set humidity operation is factory set at approximately 75% Relative Humidity (RH), but can be adjusted between 65% and 85% RH by control H.
- The over-run timer is factory set at 15 minutes but can be adjusted from 30 seconds to 30 minutes by control T.
- Turn the controls clockwise to increase RH or time and anti-clockwise to decrease.

Using the fan

DX150S / DX150R Only

 Operate the fan using the on/off switch (not supplied). Repeat to switch off.

DX150PS / DX150PR Only

 Operate the fan by pulling and releasing the cord. Repeat to switch off.

DX150TS / DX150TR Only

 Operate the fan using an on/off switch (not supplied). When the switch is turned off, the fan continues to operate for the set time delay. To adjust the over-run period, turn the control "T" clockwise to increase and anticlockwise to decrease – see Figure F.

DX150HTS / DX150HTR Only

- Automatic mode The fan automatically adjusts to slow changes in natural humidity levels without operating the fan. If the humidity levels increase at a rate slower than 5% RH in 5 minutes, up to the pre-set humidity level, the fan will not be triggered by humidity. This is to prevent nuisance triggering of the fan. If humidity levels increase quicker than 5% RH in 5 minutes the fan will operate. When relative humidity drops the fan continues to operate for the adjustable time delay.
- External operation Use the external on/off switch. When the fan is switched off, the fan continues to operate for the adjustable time delay then goes into automatic mode.

All Fans

Re-fit the front cover/baffle assembly by hooking in the top first, and then swing the cover down to clip into place.



Cleaning

(recommended once a month)

- 1. Before cleaning, isolate the fan completely from the mains supply.
- Remove the front cover/baffle assembly by depressing the latch on the underside of the cover and pulling off the front cover / baffle from the bottom.
- To clean the front cover/baffle assembly, either wipe it with a damp, lint free cloth or wash it with warm soapy water. Thoroughly dry the front cover and refit.
- 4. Do not immerse the fan in water or other liquids to clean any other parts of the fan.
- Do not use strong detergents, solvents or chemical cleaners
- 6. Allow fan to dry thoroughly before use.
- 7. Apart from cleaning, no other maintenance is required.



Disposal

This product should not be disposed of with household waste.

Please recycle where facilities exist.

Check with your local authority for recycling advice.

Guarantee

UK only

We, Redring Xpelair Group Limited, provide a guarantee against faulty parts and manufacture for a period of 2 years from the date of purchase. In the unlikely event of a product breakdown during the guarantee period the product should be returned to the place of purchase or to Redring Xpelair Group Limited.

Exclusions

- This guarantee does not cover compensation for the loss of the product or consequential loss of any kind.
- Damage or defects to the product arising from incorrect installation or lack of maintenance.
- Transportation costs.

This guarantee does not affect your statutory rights

Technical advice and service

Customers outside UK - see international below.

United Kingdom

Xpelair have a comprehensive range of services including:

- Free technical advice help-desk from Engineers on all aspects of ventilation.
- Free design service, quotations and site surveys.
- Service and maintenance contracts to suit all requirements.

Please ask for details:

- By telephone on Techline: +44 (0) 844 372 7766
- By fax on Techfax: +44 (0) 844 372 7767
- · At the address below

Head Office, UK Sales Office and Spares

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www.xpelair.co.uk

International.

- Guarantee: Contact your local distributor or Xpelair direct for details.
- Technical Advice and Service: Contact your local Xpelair distributor.

Head Office, UK Sales Office and Spares

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