

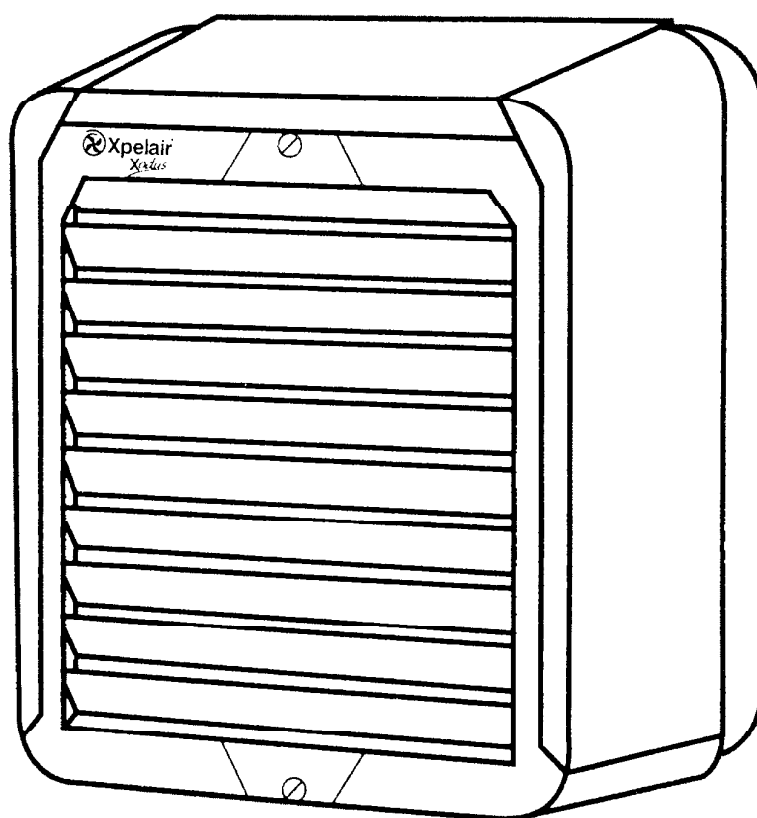
XX150 STANDARD

XX150P PULL CORD

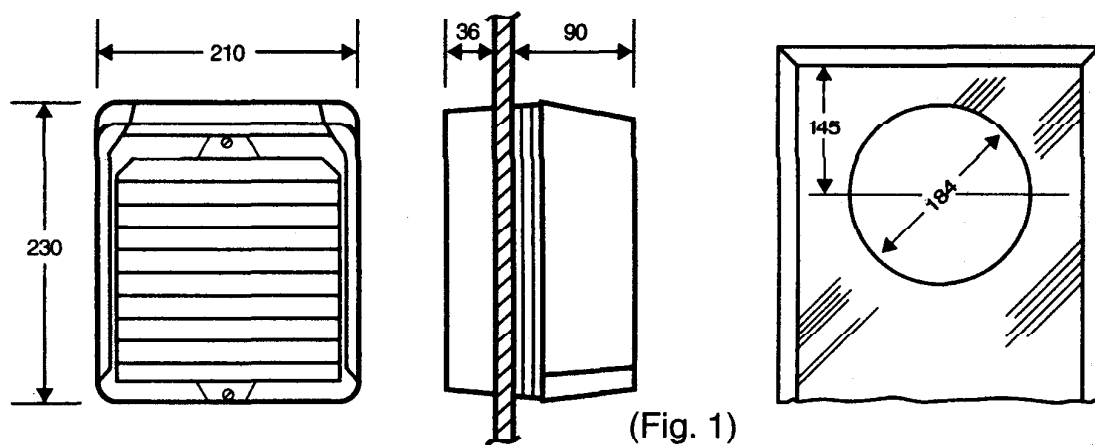
XX150T TIMER

*Installation and
maintenance instructions*

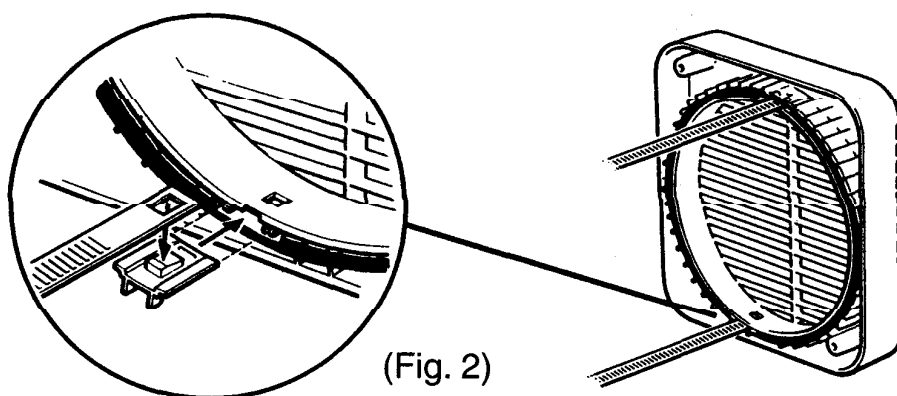
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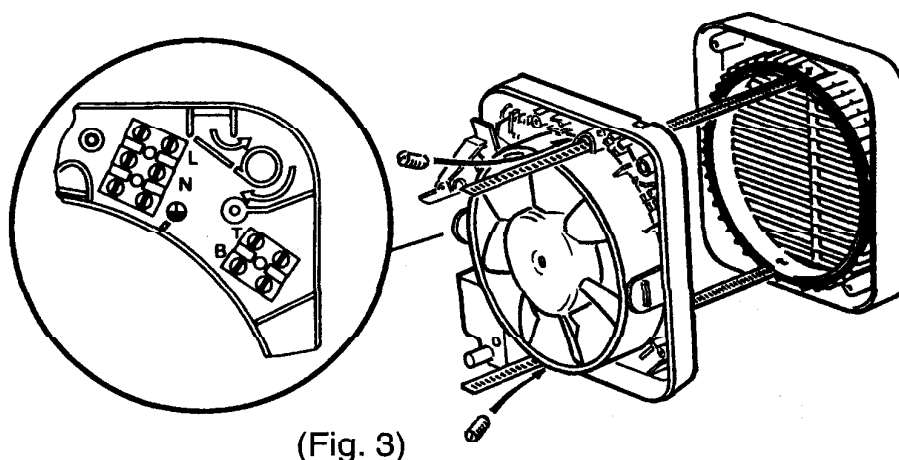
 **Xpelair**[®] *Xodus*



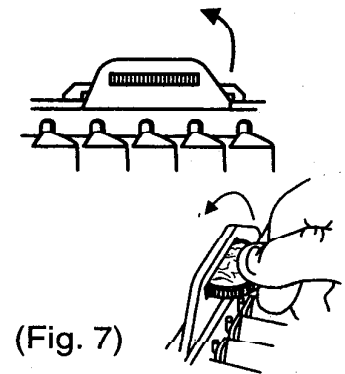
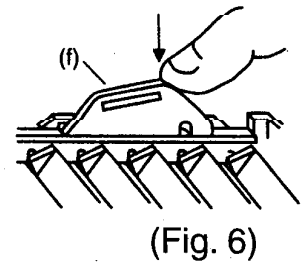
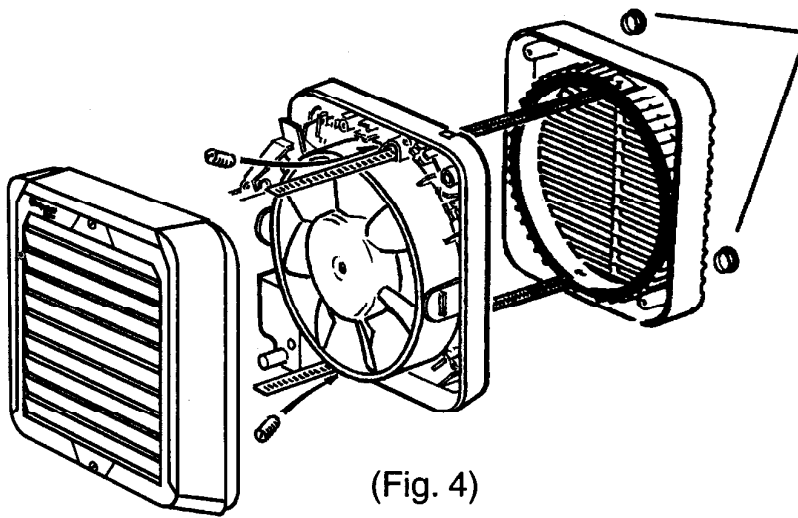
(Fig. 1)



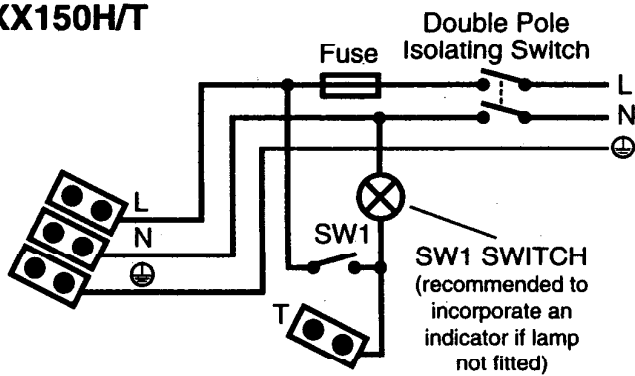
(Fig. 2)



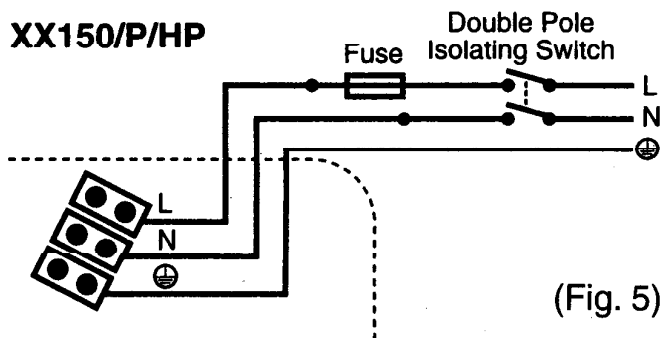
(Fig. 3)



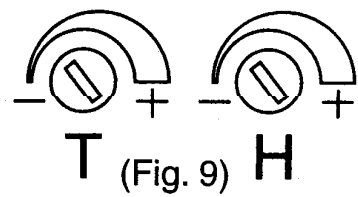
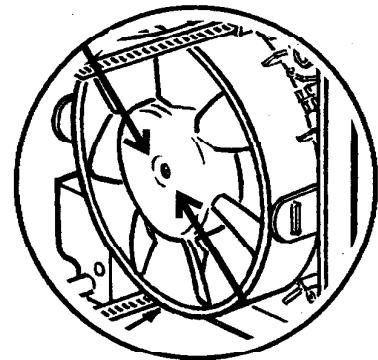
XX150H/T



XX150/P/HP



(Fig. 5)



Xodus XX150, XX150P, XX150T, XX150H and XX150HP

Installation and Operating Instructions

PLEASE LEAVE THIS INSTRUCTION LEAFLET WITH THE FAN, FOR THE BENEFIT OF THE USER.

INSTALLING THE FAN

These appliances are intended for connection to fixed wiring. Check that the electrical rating shown on the fan matches the mains supply.

WARNING: THESE APPLIANCES MUST BE EARTHED.

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).

If you have any queries before installing these products or after they have been installed, call the Xpelair Technical Hotline +44 (0) 8709 000430.

Our Engineers are there to help you during normal office hours (UK only) and may be faxed at all other times +44 (0) 8709 000530.

1. Description

All Fans in the Xodus XX150 range have the following features:

- Window / Wall / Panel / mounting options.
- Single speed operation.
- **XX150:-**
Operated with separate on/off switch (not supplied)
Trickle ventilation setting.
- **XX150P:-**
Integral Pull cord Operation
- **XX150T:-**
Integral Timer facility.
- Trickle ventilation setting.

2. What the installer will need

- A double pole isolating switch with a minimum contact gap of 3mm.
- On/Off switch. With built -in indicator lamp (XX150T).
- **If metal switch boxes are used, earthing regulations must be followed.**
- Suitably rated 3 core cable. (XX150, XX150P) (See Section 4)
- Suitably rated 4 core cable. (XX150T) (See Section 4)
- 6mm Blade Large Screwdriver, 3mm Blade Electricians Screwdriver and No. 1&2 Pozidriv Screwdriver from specialist Glazier.
If window mounting the fan, you will also need:
- A single glazed window with a minimum glass thickness of 4mm or a pre-cut and sealed unit from a specialist Glazier
- For slightly uneven inner walls specially designed mounting lugs are incorporated in the fan assembly, which require woodscrews or appropriate similar fixings. Screw fixing is also possible for the outer grille. Minimum wall thickness 100mm. Recommended screw size - Pan Head Pozzi No 8 x 38mm (not supplied)
- An XXGK6 Glass Kit.
If wall mounting the fan, you will also need:
- Masonry drill, Hammer & Chisel (or Core Drill equipment if available).
- Mortar (to make good the hole).
- XXWK6 wall kit, for walls up to 200mm thick. Alternatively, an XXGK6 glass kit must be used with 184mm inside diameter ducting and long ladder strips GXL20 (Available from Xpelair).
- 4 Mounting fasteners (Use fasteners suitable for wall type. Recommended screw size for standard brick - No.8 x 38mm pan Head Pozzi).

3. Where to locate the Fan

- Locate it as high as possible.
- At least 145mm from the edge of the wall/window frame to the centre of the hole. (See Fig.1)
- 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.**

(Continued)

- If installing in a room containing a fuel burning device which has a non-balanced flue, it is the installers 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 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.

- When intended for use in possible chemical corrosive atmospheres consult our Technical Service Department.
- This electrical product if installed in a shower room or bathroom must be so situated that it cannot be touched by persons making use of the bath or shower.

4. Installing the Isolating Switch and Cables

Switches must be so situated that they cannot be touched by persons making use of the bath or shower.

1. Check there are no buried Pipes or Cables e.g. Electricity Gas Water behind the Switch Location.
2. Lay in the Cable from the Isolating Switch to the Fan location and, if required, via the On/Off switch (SW1 in Fig.5).
3. 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.
4. Install the Isolating Switch and, if required, the On/Off switch (SW1 in Fig. 5)
5. Make all connections within the Isolating Switch and if required the On/Off switch.

5. Preparing the hole

If working above Ground Floor level appropriate safety precautions must be observed.

Warning: eye protection must be worn during all drilling and chiselling operations.

- *If installing in a wall:*
 1. Check there are no buried pipes or cables in the wall or obstructions on the outside e.g. Electricity, Gas, Water.
 2. Ensure that the centre of the hole is located at least 145mm from the edges of the wall.
 3. Mark on the wall the centre of the duct hole.
 4. Use this centre to draw a circle to suit the wall duct (203mm diameter for an XXWK6).

If core drill equipment is available:

 - 4a. Use as directed by Core Drill manufacturer Continue installation at step 7.
 - If core drill equipment is not available:*
 - 4b. Drill a centre hole right through the wall.
 5. Cut the hole. Do not cut right through the wall.
(The recommended method is to drill a series of holes close together around the edge of the cutting line and remove the brick between the holes with a chisel).
 6. Go outside and cut a hole in the outer wall repeating the process described above.
 7. Fit the ducting. Ensure that the duct slopes down away from the fan to allow drainage of any incoming rain water to the outside
 8. Make good the hole. Allow the Mortar to set before continuing the fan installation.
 - *If installing in a window*
Obtain a ready-cut pane with a correctly located hole 184mm in diameter (See Fig.1).
- OR:
- 1a. Cut a correctly located hole 184mm in diameter (See Fig. 1).

6. Preparing the fan for installation (Fig. 2)

1. For window mounting use the short ladder strips supplied with the XXGK6.
For Wall mounting without screws use the longer strips supplied with the Wall Kit XXWK6.
2. Secure the two ladder strips to the outer grille by positioning them over the hook moulding and snapping into position.
3. Ensure after fitting the hooked moulding that the gasket is in the correct position.
4. Insert the two screw covers in the two fixing holes in the outer grille.

7. Mount the Fan in the hole (Fig.3)

(component references see Fig. 4)

If working above Ground Floor level, appropriate safety precautions must be observed.

- Remove the Back Draught Shutter by shutter by pressing the release catch located on the side of the unit with a 6mm screwdriver or coin, whilst pulling forward.
 - If fixing with Ladder Strips:
 1. Hold the outer grille up to the outside of the wall or window so that the hole in the outer grille is aligned with the hole in the wall or window.
 - 2a. If wiring from the rear, remove the Fan's Terminal Cover and rear entry knockout. Feed the cable through the knockout.
 - 2b. If wiring from above remove Fan's Terminal Cover and feed the cable through the top cable entry.
 - 3. Position the Fan assembly on the inside of the wall or window and guide the Ladder Strips from the outer grille through the slots in the Fan assembly.
 - 4. Insert the slotted screws into the pockets around the Ladder Strip slots (fig. 3).
 - 5. Tighten the screws carefully to make a good seal. **Do not over tighten the screws.**
 - 6. Trim the Ladder Strips back to required length, if necessary remove any sharp edges.
 - If using screw fixings:
 1. Position the outer grille on to the outside of the wall so that the hole in the outer grille is aligned with the hole in the wall.
 2. Mark the positions of the fixing holes in the top right and bottom left corners.
 3. Drill the holes and insert anchor fixings appropriate to the type of wall.
 4. Screw the outer grille securely in place.
 - Do not over tighten the screws.**
 - 5. Insert the two screw covers in the two fixing holes in the outer grille.
 - 6a. If wiring from the rear, remove the Fan's Terminal Cover and rear entry knockout. Feed the cable through the knockout.
 - 6b. If wiring from above, remove the Fan's Terminal Cover and feed the cable through the top cable entry.
 - 7. Hold the Fan assembly to the inside of the wall so that the spigot is inserted into the wall duct.
 - 8. Mark the position of the two fixings holes in the top left and bottom right corners.
 - 9. Remove the Fan assembly, drill the holes and insert anchor fixings appropriate to the type of wall.
 - 10. Reposition the cable and Fan assembly as before, and screw securely in place
- Do not overtighten screws.**
Note: For particularly difficult installations it is possible to secure the fan with a combination of Screw and Ladder Strip Fixings.

8. Wiring the electrical connections

1. Wire the switch cable into the terminal connector as shown in Fig. 5.
 2. If the fan is wired from above, ensure the outer sheath of the cable is retained in the labyrinth (Fig.3)
 3. Refit and secure terminal cover
 4. Refit the fan's back draught shutter by sliding back over the release catches, the catches will locate and secure.
 5. **Switch off the mains electrical supply and remove fuses.**
 6. Connect the cable from the isolation switch to the electrical supply wiring.
 7. Replace the fuses, and switch on the mains electrical supply.
- **For fixed wiring circuits the protective fuse for the appliance must not exceed 5A.**

USING YOUR FAN

9. Operating the Fan

- These fans are fitted with silent shutters. They may take approximately 1 minute to open fully and up to 3 minutes to close.

XX150 (switch operated):

To switch on and off, use the isolating switch.

XX150P (cord operated):-

1. To switch on, pull down the cord and release it. Repeat to switch off.
- XX150T:-**
- The Fan is operated by a remote switch.
 - The integral timer provides an adjustable overrun period after the Fan has been switched Off.
- Before making any adjustments, isolate the Fan completely from the mains supply.**

Adjusting the timer overrun (XX150T).

- The overrun timer is factory preset at approximately 20 minutes. The time is adjustable between approximately 2 minutes to 20 minutes.
- To adjust the timer setting:-
 1. Remove the Back Draught Shutter (See Section 7).
 2. Turn the adjuster marked T anti-clockwise to reduce the timer overrun. (Fig.9)
 3. Turn the adjuster marked T clockwise to increase the timer overrun.
 4. Replace the Back Draught Shutter

10. Trickle Ventilation

- Trickle Ventilation is equivalent to that provided by an air brick or similar device.
- 1. Remove the Back Draught shutter (See Section 7).
- To allow trickle ventilation:
 2. Hold the shutter vanes fully open.
 3. Push down firmly on the trickle vent catch (Fig.6 item f) until it clicks into position then release the shutter vanes.
- To fully close the shutters and stop any backdraught:
 2. Pull the trickle vent catch towards you until it clicks into position.
 3. Refit the backdraught shutter, ensuring that the actuator lever is in the "fully down" position.

LOOKING AFTER YOUR FAN

11. Maintenance (recommended once a month)

1. A qualified electrician must carry out cleaning. Before cleaning, isolate the Fan completely from the mains supply. Allow 3 minutes for the impeller to stop and the powered shutter to close. (XX150T and XX150 only).
 2. Remove the back draught shutter by pressing the release catch located on the side of the unit with a 6mm screwdriver or coin, whilst pulling forward.
 3. To remove the impeller. Unscrew the central screw and remove it together with the washer. Place screw and washer to one side.
 4. To clean the impeller either wipe it with a damp, lint free cloth or wash it in warm soapy water. Thoroughly dry the impeller and refit. Replace the screw and washer ensuring that they are securely fitted. Do not overtighten the screw.
 5. Do not immerse the fan in water or other liquids to clean any other parts of the fan.
 6. Clean the back draught shutter in warm soapy water. Do not use strong detergents or chemical cleaners.
 7. Thoroughly dry the back draught shutter and refit by sliding back over the release catches, the catches will locate and secure.
- NOTE:** On the XX150P Fan, the Back Draught Shutter cannot be replaced correctly if the pull cord is in the 'On' position. If necessary pull cord once return to the 'Off' position.
- **Never use strong solvents to clean the fan.**
 - **Apart from cleaning, no other maintenance is required.**

KEY (for Fig. 4)

Back draught shutter.....	"A"	Rear cable entry.....	"G"
Fan Assembly.....	"B"	Top cable entry.....	"H"
Outer Grille.....	"C"	Rating Plate	"J"
Ladder Strips.....	"D"	Lugs for Screw Mounting	"K"
Terminal Cover.....	"E"		

Do's and Don'ts

- Do read all the instruction leaflet before commencing installation.
- Do install each fan with a double pole-isolating switch.
- Do make sure the mains electricity supply is switched off before attempting to make electrical connections or carry out any maintenance or cleaning.

Guarantee

Customers outside UK - see International below.

- UK: The fan is guaranteed against defects for 3 years from the date of purchase.
- Please keep your purchase receipt.
- If you have any problems, contact Xpelair's Head Office at the address shown below.

Technical advice and service

Customers outside UK - see International below.

- UK: 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) 8709 000430
- By fax on Techfax: +44(0) 8709 000530
- At the address below

Head Office, UK Sales Office and Spares

- GDA Applied Energy Ltd, Morley Way, Peterborough, PE2 9JJ, England.

Telephone: +44 (0)1733 456789

Fax: +44 (0)1733 310606

Sales Hotline: +44 (0)8709 000420

<http://www.xpelair.co.uk>

- For all your spares requirements (UK only):—
GDA Ltd, Parts Dept, Morley Way Peterborough, PE2 9JB, England.
Telephone: +44(0) 08709 077077
Fax: +44(0) 08709 076076

International

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



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QAS 3284/37



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(Revision. A)