



Cleaning (recommended once a month)

A QUALIFIED ELECTRICIAN MUST CARRY OUT ALL CLEANING.

1. Before cleaning, isolate the fan completely from the mains supply.
2. Remove the front cover by pressing the release catches located on the sides of the unit with a 3mm screwdriver, whilst pulling the front cover forward (fig. E).
3. To clean the front cover, either wipe it with a damp, lint free cloth or wash it in 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.
5. Do not use strong detergents, solvents or chemical cleaners to clean the fan.
6. Allow fan to dry thoroughly before use.
7. Apart from cleaning, no other maintenance is required.

Do's and don't's

- Do read the entire instruction leaflet before commencing installation.
- Do install each fan with a double pole isolating switch.
- Do make sure the mains supply is switched off before attempting to make electrical connections or carry out any maintenance or cleaning
- Don't install this fan in any window/panel which is less than 4mm thick.

Guarantee

Customers outside the UK - Contact your local distributor.

- UK – The fan is guaranteed against defects from the date of purchase.
- Please keep your purchase receipt.

Technical advice and service

Customers outside the UK - Contact your local distributor.

UK: Xpelair have a comprehensive range of services including:

- Free design service and technical advice on all aspects of ventilation from trained engineers.
- Service and maintenance contracts to suit all requirements.
- Xpelair Technical Hotline:- +44 (0) 8709 000430
- Xpelair Technical Faxline:- +44 (0) 8709 000530

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Part No. 567 2026 01
(Revision D)

Xodus Toilet/Bathroom Fans XX100, XX100P & XX100T installation & operating instructions. Please leave this 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 each fan matches the mains supply.

THESE APPLIANCES ARE DOUBLE INSULATED AND DO 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).

If you have any queries before installing these products or after they have been installed, contact the Xpelair Technical Hotline (details overleaf), or outside the UK contact your distributor.

Description

XX100 Range fans have the following features:

- Single speed operation.

XX100 • Operate the fan using an on/off switch (not supplied).

XX100P • Operate the fan using an integral pull cord.

XX100T • Built-in timer operates fan for a preset delay of 20 minutes.

What the installer will need

- A double pole isolating switch with a minimum contact gap of 3mm in each pole (wall or ceiling mounted).
- If metal switch boxes are used, earthing regulations must be followed.
- Suitably rated 2-core cable - XX100 / XX100P.
- Suitably rated 3-core cable - XX100T.
- 3mm electricians screwdriver and No. 1 or No. 2 Pozidriv screwdrivers.
- 3 off No. 8 wall screws and plugs or appropriate fasteners.
- A wall or ceiling on/off switch - XX100T. It is recommended to use a switch with an indicator light.
- To prevent a possible hazardous situation from water ingress, an appropriate condensation trap (Xodus XCT100) must be fitted as close as possible to the fan in all situations where any section of the ductwork is positioned higher than the fan itself.

If wall mounting the fan you will also need

- **XXWK4 Wall Kit** including telescopic wall tube and back draught shutter.
- Alternatively, a **CFWG100 Wall Grille** and 100mm diameter ducting.
- Masonry drill, hammer and chisel (or core drill equipment if available).
- Mortar to make good the hole around the ducting.

If window/panel mounting the fan you will also need

- **XXGK4 Glass Kit**.
- You will need a window pane between 3mm and 6mm thick (preferably 4mm).
- Do not install in glass 3mm thick if the window pane area is more than 0.2 sq. m.
- If installing in sash windows you should mount the fan in the upper window. Secure the upper sash in the closed position and fit stops just below the level of the fan, to prevent damaging it when the sash is raised.
- If ceiling mounting the fan, an **XXCK4 Ceiling Kit** is required and appropriate ancillaries for termination.

For example:

1. Termination ducting kit.
2. Soffit board termination grille.
3. 100mm diameter flexible ducting. If installing in a vent, an **XXVK4 Vent Kit** is required.

Where to locate the fan

- Locate it as high as possible.
- At least 110mm from the edges of the wall 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 (eg. 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 cooker hob or eye level grille.**
- **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 local 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.**
- **When intended for use in possible chemical corrosive atmospheres, consult our Technical Department or your distributor.**
- **This electrical product is rated at "IPX5", and can be installed anywhere in a shower room or bathroom.**

Installing the isolating switch & cables

1. Check that the electrical rating shown inside the backplate matches your mains supply.
2. 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.
6. **Warning: Do not make any connections to the electrical supply at this stage.**
6. Install the isolating switch and on/off switch (not supplied).
7. Make all connections within the isolating switch and the on/off switch (if required).

Note: on/off switch must be situated so that it cannot be touched by persons making use of the bath or shower.

WARNING: DO NOT MAKE ANY CONNECTIONS TO THE ELECTRICAL SUPPLY AT THIS STAGE.

If in doubt, seek professional advice.

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. Mark on the wall the centre of the duct hole. The centre of the hole should be at least 110mm away from the edge of the mounting surface.
3. Use this centre to mark a circle to suit the wall duct (115mm diameter).

If core drill equipment is available:

4. Use as directed by core drill manufacturer.

If core drill equipment is not available:

4. 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. Cut ducting to the correct length if required.
8. Fit the ducting. Ensure that the duct slopes down away from the fan to allow drainage of any incoming rain water to the outside.
9. Make good the hole around the ducting. Allow the mortar to set before continuing with the fan installation.

If installing in a window or panel

1. Cut a hole, 125mm in diameter or if installing in a window, obtain a ready cut pane.
2. The centre of the hole should be at least 110mm away from the edge of the panel or pane of glass.

If installing in a ventilation shaft

1. **Check there are no buried pipes or cables in the ventilation shaft. If in doubt seek professional advice.**
2. Cut a hole 110mm in diameter, in the side of the shaft.

If installing in a ceiling

1. **Check there are no buried pipes or cables in the ceiling above the fan location. If in doubt seek professional advice**
2. Cut a hole 115mm diameter.

Preparing the fan for installation

Remove the front cover by pressing the release catches located on the sides of the unit with a 3mm screwdriver, whilst pulling the front cover forward (fig E).

Mount the fan in the hole

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

If installing in a wall, ceiling or vent

Mark the position of the back plate (fig A)

1. Hold the backplate so that the terminal block faces you in the top left hand corner and the lip points towards the hole.
2. Carefully insert the lip into the wall duct/ceiling or vent shaft.
3. Adjust the position of the back plate until it is level.
4. Mark on the wall/ceiling or vent shaft the positions of the three fixing holes in the back plate.
5. Remove the back plate from the ducting.
6. Drill screw holes in these positions if necessary, and fit wall plugs if necessary.

Mount the back plate (fig B)

- 1a. If installing in a vent, an **XXVK4 Vent Kit** is required. Follow instructions provided.
- 1b. If installing in a ceiling, an **XXCK4 Ceiling Kit** and termination ancillaries are required. Follow instructions provided.
2. If wiring the fan from behind, remove knockout. Feed the mains cable entry hole in the backplate to the terminals (Fig C).
3. If wiring from above, leave the cable free to be fitted into labyrinth.
4. Insert the lip of the back plate into the wall duct/ceiling or vent shaft as before.
5. Fasten the back plate to the wall/ceiling or vent shaft using appropriate fasteners.
6. If installing in a wall, a **CFWG100 Wall Grille** is required. Follow instructions provided.

If installing in a window or panel

1. If installing in a window or panel no more than 9mm thick, a **XXGK4 Glass Kit** is required. Follow instructions supplied.

Wire the electrical connections

- **Make sure the mains supply is isolated.**
- **All wiring and installation must be supervised by a qualified electrician.**
- 1. Wire the fan as shown in fig D. Check fan model for correct diagram. Feed the cable between the two raised pegs, if wiring from above, and through labyrinth to terminal block.
- 2. **Switch off the mains electrical supply and remove fuses.**
- 3. Connect the cable from the isolating switch to the electrical supply wiring.
- **For fixed wiring circuits the protective fuse for the appliance must not exceed 5A.**

All Fans

- If wiring from above, cut out the cable entry slot marked on top of the front cover.
- Fit the front cover by aligning it square to the duct and pushing it onto the backplate until the release catches snap into the slots on the front cover.
- Refit the fuses and switch on the mains supply.

Operating the fan

XX100 only

- Operate the fan using the on/off switch. Repeat to turn off.

XX100P only

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

XX100T only

- Operate the fan using an on/off switch. When the switch is turned off, the fan continues to operate for the set time delay.

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