

Do's and Don'ts

- 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.

Guarantee.

UK only:

We, RXG Redring Xpelair, 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 RXG Redring Xpelair.

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

RXG Redring Xpelair, Newcombe House, Newcombe Way, Orton Southgate, Peterborough, PE2 6SE England

Telephone: +44 (0) 844 372 7761

Fax: +44 (0) 844 372 7762

Sales/Spares Hotline: +44 (0) 844 372 7750

Sales/Spares Faxline: +44 (0) 844 372 7760

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

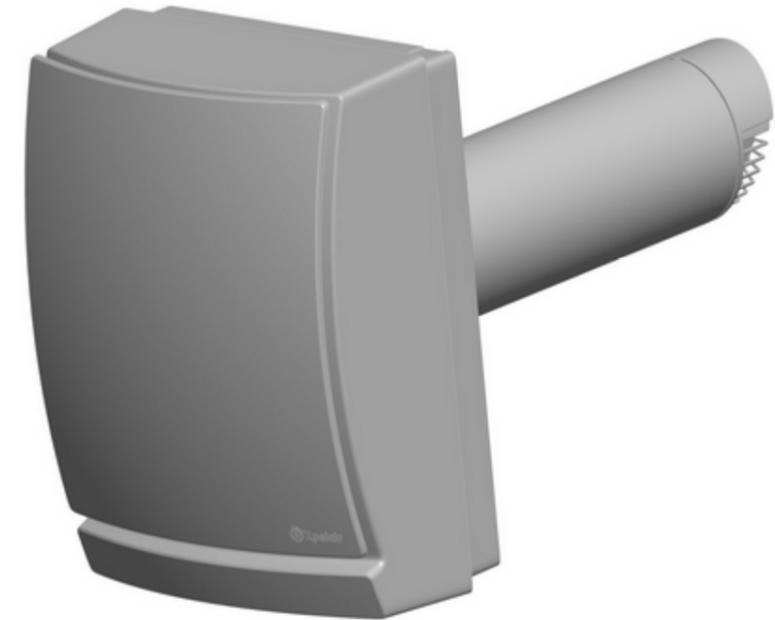
International.

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

Xpelair Solitair SRHRV

Single Room Heat Recovery Fan

Installation and Maintenance Instructions



- 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.*

UK customers:

If you have any queries before installing these products or after they have been installed, call the Xpelair Technical Hotline +44 (0) 844 372 7766. Our engineers are there to help you during normal office hours (UK only) and may be faxed at all other times on +44 (0) 844 372 7767.

Customers outside the UK should contact your local Xpelair distributor.



(A3) Booklet No: 25317AA (Rev A.)

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.



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

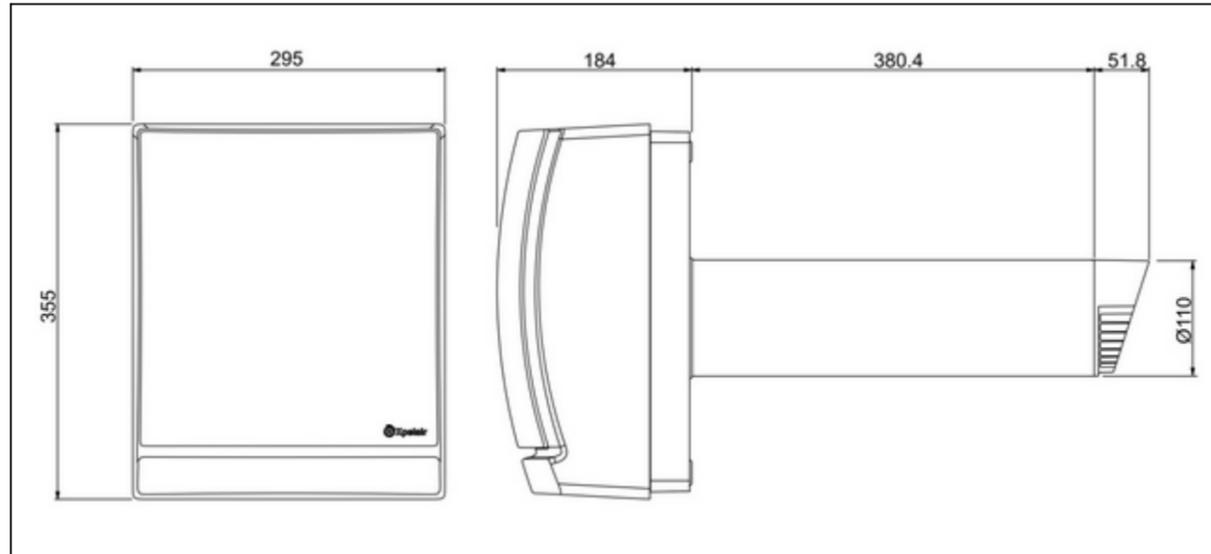
Description



The Xpelair Solitair fan is suitable for refurbishment or new build in Kitchen, Bathroom and Toilet applications.

The fan can be directly installed into existing 100mm fan holes.

The Xpelair Solitair fan will run continuously at a 6l/s trickle extraction rate with an automatic boost to 15l/s when activated by the integral humidistat sensor.



Where to locate the fan



- In walls 380mm maximum thickness
- Locate it as high as possible
- At least 100mm from the edges of the mounting surface to sides/top of unit
- 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

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.

Cleaning



Before cleaning, isolate the fan completely from the mains supply.

Remove the front cover / baffle assembly by removing the two screws on the underside of the cover and lifting off the cover by unhinging from the top of the Wall Box.

To clean the cover, either wipe it with a damp, lint free cloth or wash it in warm soapy water. Thoroughly dry the cover and re-fit.

Do not immerse the fan in water or other liquids to clean any other parts of the fan.

Never use strong solvents to clean the fan.

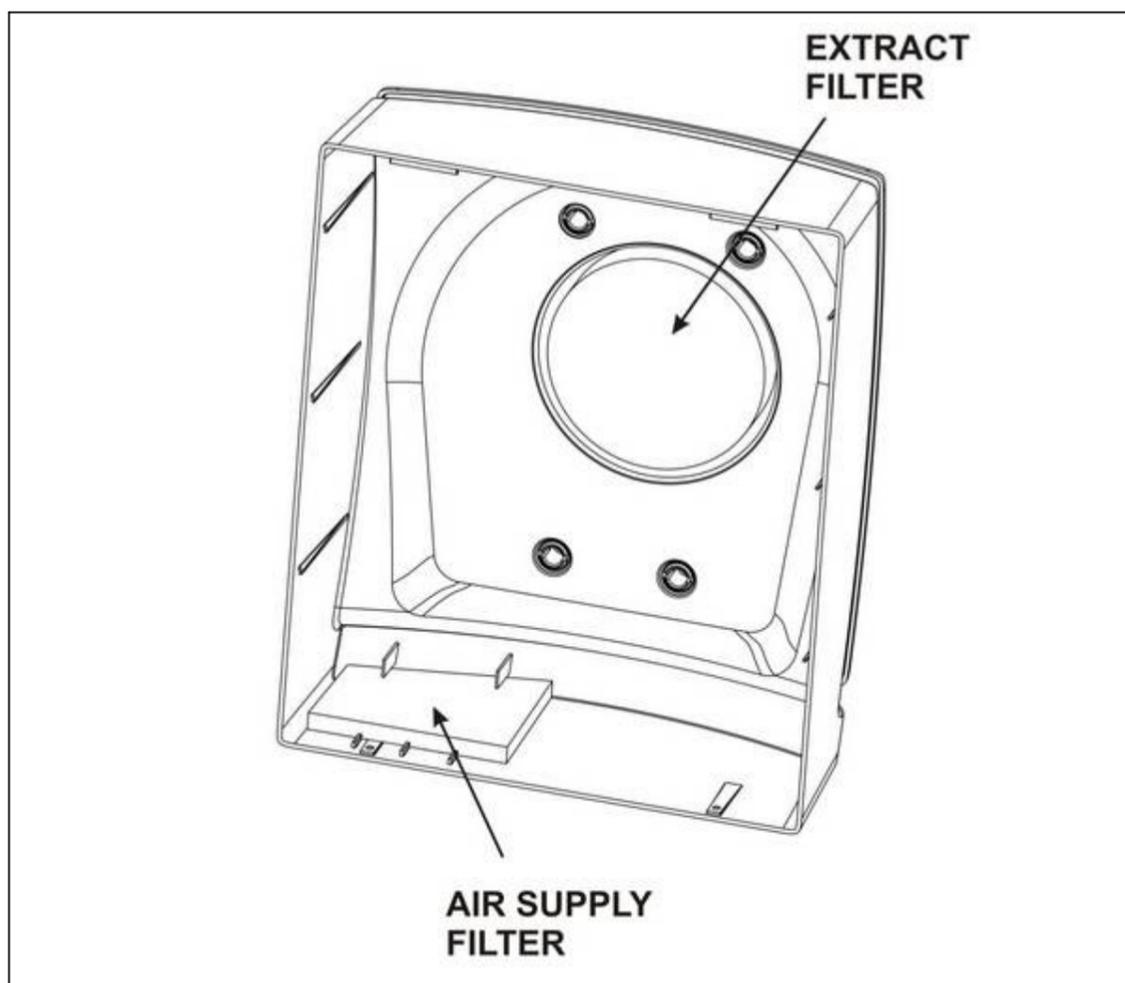
The Air Supply and Extract filters should be checked regularly and cleaned or replaced when necessary.

Filter life is dependent on environmental operating conditions. We recommend filter replacement every 12 months. Should the filters become excessively dirty beforehand they can be removed and shaken clean.

The fly screen filter is designed to prevent insects and large dust particles entering the heat exchanger. Due to the self cleaning nature of the heat exchanger it should not be necessary to replace this filter.

The unique triple filtering and self cleaning heat exchanger means no maintenance is required on the heat exchanger matrix.

Use only genuine RXG filters.



- Not where ambient temperatures are likely to exceed 50°C or are below -20°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.
- Do not site where the fan is exposed to water spray for extended periods.

What the installer will need.



- 3mm electrician's screwdriver and No.1 or 2 Pozidrive screwdrivers.
- A Ø115mm prepared hole with a slope to the outside, cut with a minimum Ø115 mm core drill.

Installation

Installing the isolating switch and cables

Isolate the mains supply.

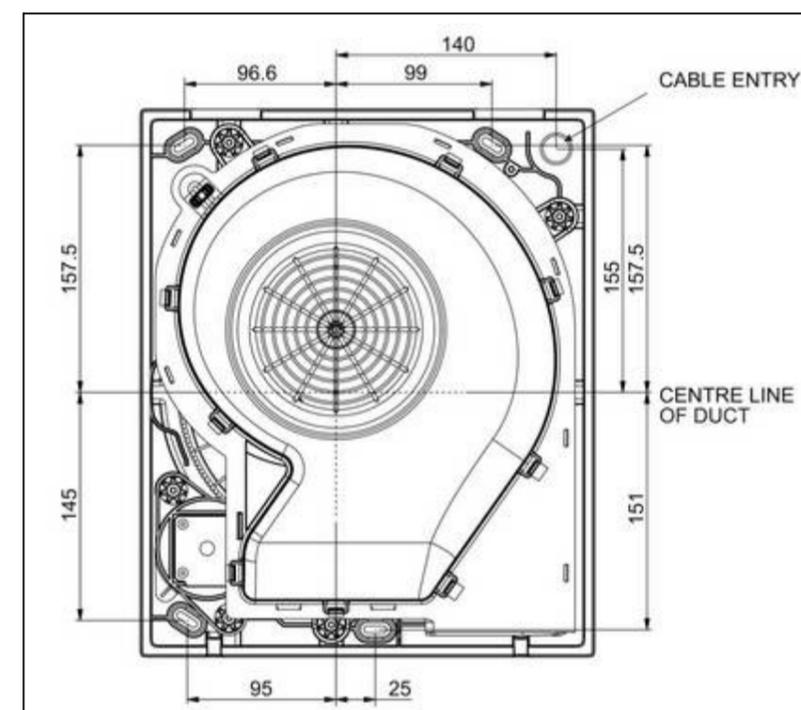
Lay in the cable from the isolating switch to the fan location.

Lay in the cable from the isolating switch to the point of connection to the mains supply.

Install the isolating switch and make connections required.

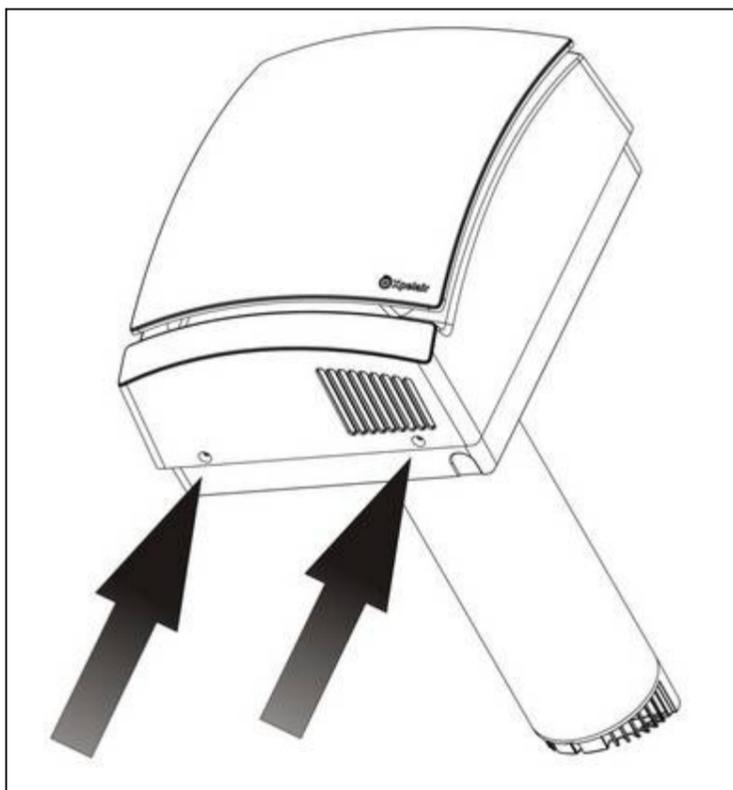
Installing in the wall of maximum thickness 380mm.

Use the dimensions below to mark the wall with the centre of the duct hole, the 4 wall fixing positions and the cable inlet.



Use the centre line to cut a Ø115mm hole through the wall for the Solitair wall tube using a core drill (if replacing the tube of an existing Ø100mm fan ensure the Solitair wall tube fits without distortion).
Ensure that the duct slopes away from the fan to allow drainage of any incoming rain water to the outside.

Drill 4 holes for wall fixings (not supplied), in positions shown and fit wall plugs.
Align the fan in the duct hole and ensure the fan wall box fits flat and flush to the wall.
Remove the Front Cover / Baffle assembly by removing the two screws on the underside of the cover and lifting off the cover by unHINGING from the top of the Wall Box.



Knock out the cable entry hole in the back of the Wall Box and feed the flexible mains cable through.
Align Wall Tube to hole in wall and present fan to wall square and flat. Secure to wall with four fixing screws (not supplied).
Make good the hole around the wall tube on the outside wall and seal in place to prevent water ingress.
Seal the Wall Box to the inner wall.
Allow to set before continuing the fan installation.

Wiring

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

Make sure the mains supply is isolated before wiring the fan.

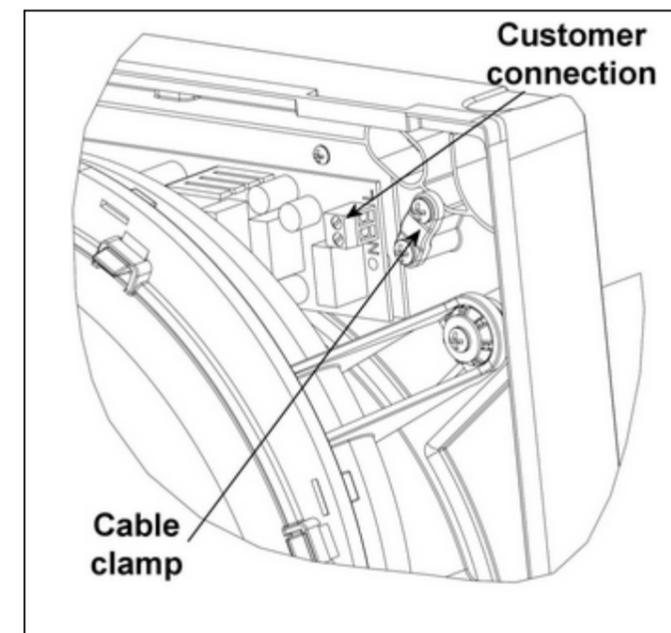
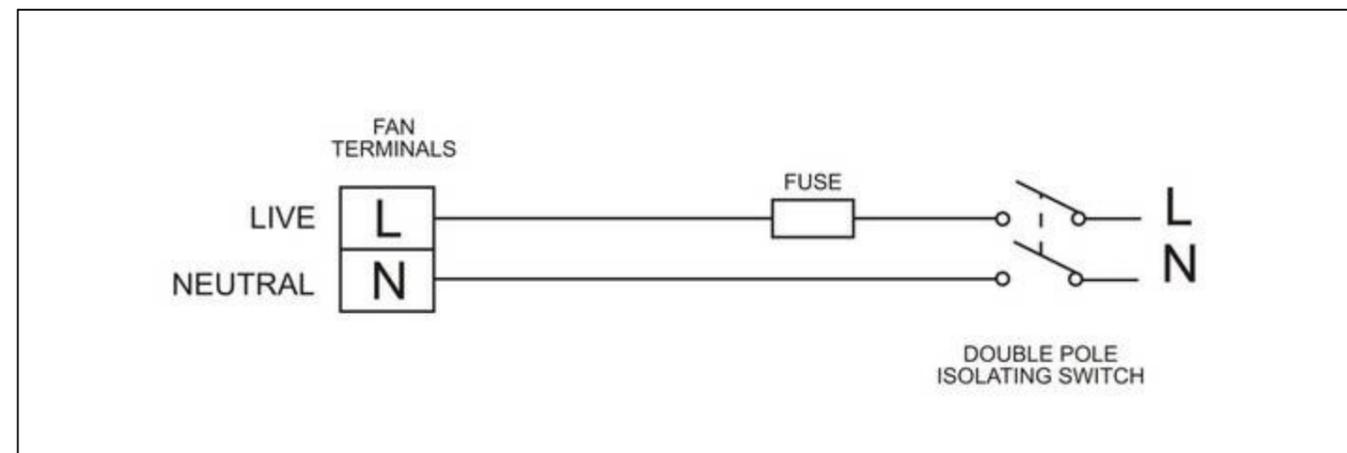
The cross-sectional area of the supply cord used should be in the range 1-1.5mm².

Use the cable grip provided to secure the cable.

See below for connection position and wiring diagram.

Re-fit Front Cover / Baffle assembly before connecting the cable from the isolating switch to the electrical supply.

For fixed wiring circuits the protective fuse for the appliance must not exceed 5A.



Using the Fan

The Solitair fan is fully automatic and has no user adjustments.

The fan will run continuously at 6l/s flow rate and will boost to 15l/s when activated by the integral active humidistat.

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, 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 a fixed time delay.

Summer by-pass

Should the air temperature within the room exceed 25°C, the heat exchanger will be switched off. The fan will continue to run to provide extraction of stale air but fresh incoming air will not be warmed by the heat exchanger. When the temperature drops below 25°C the heat exchanger will be switched back on and heat recovery will recommence. The humidistat function remains active throughout the summer by-pass period.

Winter setting

The fan is capable of operating down to -20°C without the need for frost protection. The fan continues to operate to comply with building regulations.