

33 FENTON

DECEMBER 1978 35p

DIY GUIDE
TO BUYING TOOLS

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The Home Improvement magazine

VENTILATION
is this your
problem?

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roofs, walls & floors



Toys to make for Christmas



Fresh & Clean

A GUIDE TO EFFICIENT VENTILATION

You probably wouldn't be too happy if someone came into your home and emptied over 2½ gallons of water over the floor and walls. But according to the experts at Vent-Axia this amount of moisture is released into the atmosphere during the course of 24 hours in a normal house occupied by four people. This amount of moisture will be further increased if a paraffin heater or gas heater without a flue is in use.

In a well insulated and properly ventilated house this amount of moisture causes no problem. But where one or more of these factors is below standard condensation can begin and real problems will arise.

In the old days, although houses were not heated to such a high level, condensation was not too much of a problem because the houses were well ventilated due to ill-fitting doors and windows and the steady movement of air caused by open fires.

Nowadays houses are kept tightly sealed to save heat, and although they are better heated, the reduced ventilation rate means that condensation is more likely to form. The result of this can be a moisture-laden atmosphere, damaged decorations, and in severe cases a mould growth on damp walls and in the corners of a room.

Condensation is reduced the more a room is heated because warm air can hold more moisture than cold air. The heating will also raise the temperature of the surfaces in the room keeping them above the dew point at which water vapour in the air will condense into moisture droplets. The warm, water-laden air can then be moved by ventilation.

Bedrooms are often bad spots for condensation because they are both poorly heated and ventilated. Here ventilation alone is not a great deal of help because an excessive level of fresh air would be required.

Ventilation is really useful in kitchens and bathrooms where there is a high humidity and temperature. However good the heating and insulation here, without ventilation the moisture in the air would eventually build up to cause condensation.

The only solution to the condensation problem in these rooms is an extractor fan which will draw the moisture-laden air out of the room. You'll lose some of your warmed air of course, but as a bonus the fan will also get rid of cooking smells, steam, fumes, and air-borne grease particles.

Ventilation requirements vary according to the type of room. The recommendation for kitchens is 15 to 20 air changes per hour, while bathrooms and wcs, need 6 to 10 air changes. Fans are rated according to the volume of air they can move in an hour and it is a simple calculation to work out the volume of the room so a fan of the correct size can be chosen.

The fan should, where possible, be located above or nearly above the cooking position, and preferably also near the sink. Generally, a position higher than the top of doors is advantageous. The fan should be situated so that air is drawn across the room. Try to avoid a short circuit of airflow by siting an extractor near an open window or door. If a window fan is fitted, keep nearby windows closed when the fan is running.

If the ceilings are low do not fit a fan

above a cooker with an eye-level grill.

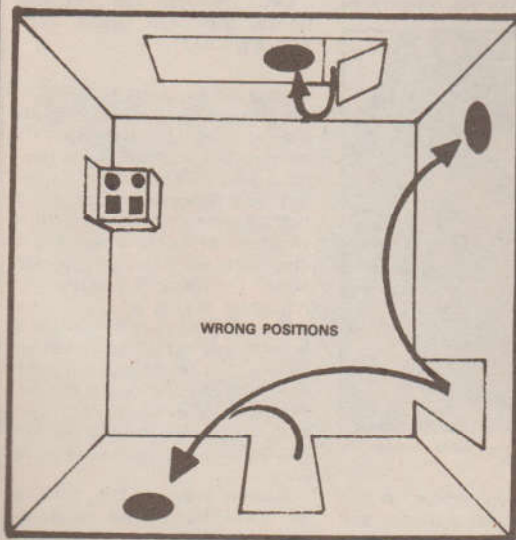
It is important that a sufficient air inlet is also provided. Without this the room air pressure can be reduced to a point where the fan does not operate properly. This inlet, which can be a ventilator plate in the floor, will also be needed to provide replacement air if there is a flued boiler in the kitchen, to supply air to both fan and boiler, thus preventing the fan drawing fumes down the flue. Firms like Vent-Axia will be happy to give advice on this and other ventilation problems.

If the cooking appliances are situated away from an external wall a high level duct leading to the outside may be required. The ducting can be hidden easily by fitting a suspended ceiling, which can be illuminated from above or fitted with solid panels.

Where the main problems are cooking smells and grease particles in the air, rather than condensation, it can be a good idea to tackle the problem at source by fitting a cooker hood.

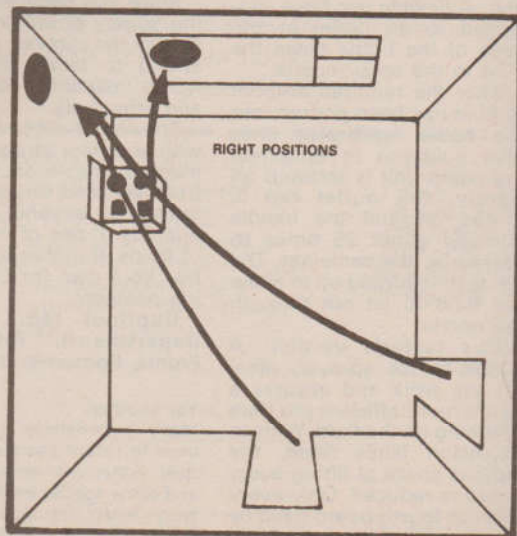
There are two basic types here—recirculating and ducted. The recirculating type needs no outlet hole in the wall, just a nearby socket outlet where it can be plugged in. The fan or fans in the hood draw the dirty air first through a foam filter which is designed to retain grease fumes and particles. Then the air passes through activated charcoal/silica gel filters which remove smells and moisture in the air. It is not as efficient at removing condensation as a ducted extractor, but you will not lose precious warmed air either.

With the ducted type, after the air is filtered through a foam grease-retaining filter the air is discharged either directly or through a duct to the outside air.

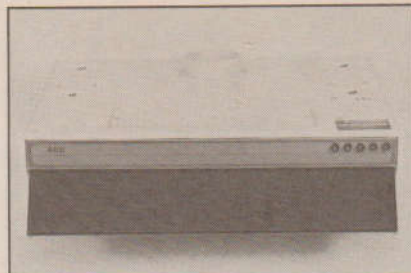


SITING AN EXTRACTOR FAN

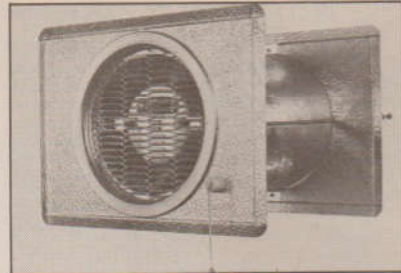
Install the fan so it is impossible to get a short circuit of air as shown on the left. More suitable arrangements are shown on the right where air from doorways and windows is drawn across the room and over the main source of condensation and cooking smells. A window fan is best fitted away from an opening sash, or the sash should be closed when the fan is operating.



AEG-Telefunken (U.K.) Ltd. A range of built-in cooker hoods which can be installed either as extractor or recirculating hoods. Filter packs are available for the extracting models to convert them to recirculating air types. All models have lights to illuminate the cooking area. Some models have two rates of extraction, others have three rates.
217 Bath Road, Slough, Berkshire, SL1 4AW.

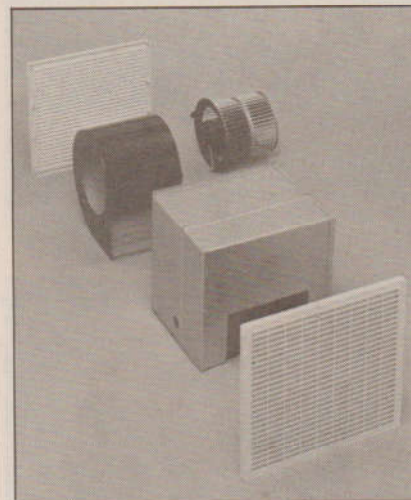


AEG-Telefunken EKK built-in cooker hood



R.W. Beach Ventwall wall-mounting extractor fan

Aidelle Products. Aidelle's latest extractor is the Wallfan 9. This has a powerful double-width impeller centrifugal fan driven by a two-speed motor. It is wall-mounted with an automatic anti back-draught device which comes into use when the extractor is not working. Interior and exterior plastic grilles are supplied. The fan can be ceiling mounted if required and is guaranteed for two years. The company also makes the Loovent range of bathroom and w.c. extractors. The seven models, all suitable for d-i-y installation extend from a single-speed fan manually operated by an on/off pull cord, to continually running models with main and stand-by fans. Variations include integral adjustable timers and indicator lamps.
Lancaster Road, High Wycombe, Buckinghamshire, HP12 3QP.

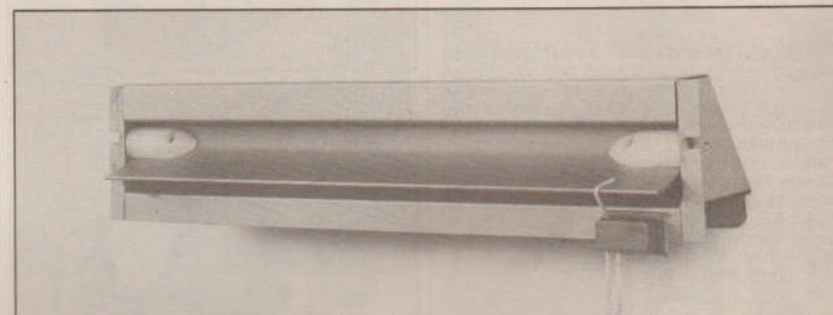


Aidelle Wallfan 9 impeller centrifugal extractor fan



Aidelle Loovent bathroom and w.c. extractor

Argosy Fenton Ltd. Non-mechanical window-fitting ventilators. Slimline ventilators in aluminium or steel fit at the top of a window which can be single or double glazed. Cord operated vanes give a variable degree of ventilation. Minislim ventilators are similar, but are designed to give permanent ventilation for gas appliances. The Airflow ventilator in clear plastic can be fitted in a circular aperture in a window frame to give ventilation without draughts or appreciable loss of light. The ventilator is 7 1/4 in. in diameter and is suitable for use with gas appliances in kitchens and bathrooms. This ventilator is burglar resistant and has an optional wind shield. There is also the Chevron window ventilator for fitting into timber sashes or frames keeping the glazing area completely free.
Island Farm Avenue, East Molesey, Surrey, KT8 0TP.



Argosy Fenton Slimline window ventilator

R. W. Beach & Co. Ltd. A range of extractor fans in anodised aluminium and galvanised steel. The Ventwall is for wall mounting and direct replacement of 9 x 6 in. or 9 x 9 in. airbricks. The Ventwin is for window mounting into 6 3/4 in. or 8 3/4 in. diameter holes in single or double glazed windows. The RWB Duct Fan is a cylinder fan for direct connection to a ducting system. Anti back-draught shutters can be supplied.
Ventholm, 37 The Common, Earlswood, Solihull, Warwickshire.

Channel Electronics (Sussex) Ltd. The Delaymatic electronic time delay switch gives controlled ventilation of internal bathrooms and w.c.s. after their vacation with variable delays of up to 30 minutes. Connected to an extractor fan, it ensures clean air for subsequent occupiers.
P.O. Box 58, Seaford, Sussex, BN25 3JE.



Channel Delaymatic electronic time delay switch

GEC-Xpelair Ltd. An extensive range of extractor fans and cooker hoods. Extractor fans are available for window, wall, and roof mounting and come in a wide range of extract capacities. All fans are guaranteed for two years. The Xpelair range starts with easy to install window fans with extract capacities of 6000 and 8000 cu. ft. of air per hour. For larger rooms there are 6 in. and 9 in. fans which are fitted with anti back-draught shutters which



GEC-Xpelair GXCB 6in. window or wall extractor fan

automatically open when the fan is switched on.

There is also a wide range of cooker hoods which may be either direct extract or recirculation types. Xpelair make an in-built cooker hood which is installed behind a fitted kitchen cabinet front. This model has infinitely variable speed control, hob lighting, carbon filter cassette and washable grease filter.

P.O. Box 516, Deykin Avenue, Witton, Birmingham, B6 7HZ.

Glante Electrical Ltd. A new extractor hood which must be mounted on an outside wall to give direct extraction of steam, fumes and odour. Available in two sizes. The extractor fan is switched on by opening the sliding door which exposes the grilled outlet.

c/o Model and Pattern Productions Ltd., Portsmouth Road, Peasmarsh, Guildford, Surrey.

Greenwood Airvac Ventilation Ltd. Mechavent extractor fan systems are specifically designed for ventilating internal bathrooms and w.c.s. The Mechavent P has a single fan and motor assembly, while the Mechavent PD has a standby fan and motor actuated by an integral automatic changeover relay which switches from one fan to the other in the event of fan failure. The fans can be fitted to pipe ducts of 2 1/2 and 4in. diameters. An automatic integral timer unit is available to ensure that the fan will run for a minimum of 20 minutes after switching off.

P.O. Box 3, Brookside Industrial Estate, Rustington, Littlehampton, Sussex, BN16 3LH.

MAP (Hardware and Plastic Sales) Ltd. A wide range of interior hit and miss wall ventilators in nylon for mounting over a wall aperture. All sizes have integral fly screens. The two largest sizes have over 7 sq. in. of free air flow and comply with the Building Regulations. There is also a range of louvre ventilators which are suitable for installations calling for fixed ventilation, as required by gas boards, and so on. For 9 x 6in., 9 x 3in. and 6 x 3in. openings. The largest size has over 20 sq. in. of free air flow.

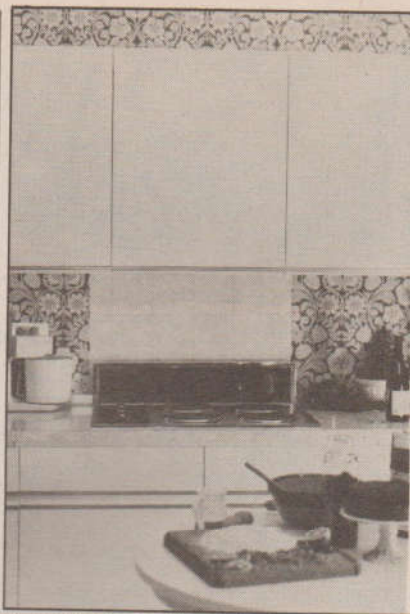
King Alfred Way, Cheltenham, Gloucestershire, GL52 6QP.

NEFF (U.K.) Ltd. NEFF specialise in built-in appliances and cooker hoods. The latter are available in a variety of models for use over both gas and electric hobs. All the hoods can be used as recirculation or extraction type and come in various widths. All models have three extraction speeds, and lights to illuminate the cooking area.

The Quadrangle, Westmount Centre, Uxbridge Road, Hayes, Middlesex.

Philips Electrical Ltd. The range consists of two reversible flow electric window fans. Both fans are easy to fit into circular holes in window panes. A nylon pull cord opens and closes the draught and rainproof shutter which automatically switches the fan on and off. A bar at the centre of the fan can be turned to alter the angle of the blades so that the fan will either extract air, or bring fresh air from outside into the room.

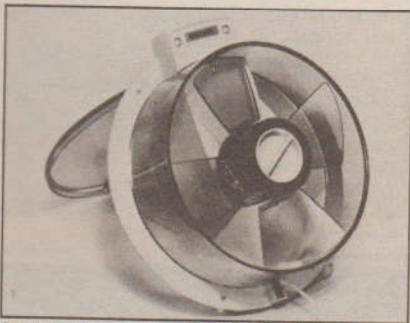
Electrical Appliances Division, City House, 420-430 London Road, Croydon, CR9 3QR.



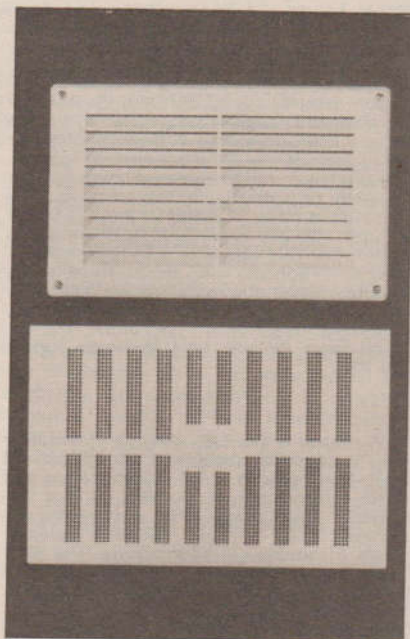
GEC-Xpelair HU55 in-built cooker hood



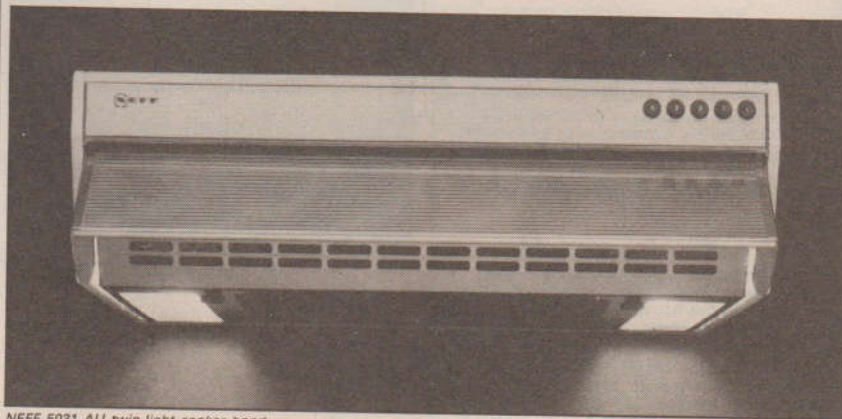
Greenwood Airvac Mechavent type P extractor fan



Philips HR3404 single-speed reversible window fan



MAP nylon wall ventilators



NEFF 5031 AU twin-light cooker hood

Power-lectric Ltd. Two models of cooker hoods. The H8 is an economical re-circulating model which has twin fans to draw the dirty air over the cleaning filters. Fans operate at two speeds and there is a built-in light. The XL model can be used as either a re-circulating or ducted type. The latter exhausts the air direct to the outside. All hoods have two fans and may run at two or three speeds depending on the size of the hood.
Church Street, Stroud, Gloucestershire, GL5 1JL.

R. W. Simon Ltd. The Ventamatic window ventilator will provide ventilation without the need to open windows and doors. There are several models. Units are supplied with or without louvres operated by cords which allow the ventilation to be controlled. An introduction is the Ventamatic Aperture Adaptor to fit existing holes cut in glass between $7\frac{5}{32}$ to $7\frac{13}{32}$ in. diameter, to save the cost of reglazing.
System Works, 254/260 Sussex Way, London, N19 4HY.

Thermor Electrical Appliances Ltd. A wide range of window, wall and duct fans. The Turbinex centrifugal fan fits on a wall for through wall or duct installation and requires an outlet not much larger than a tennis ball (some extractors require a hole of about 9 x 12in.). The Refresh is a miniature ventilator fan for bathroom and w.c. extraction for connection to an air duct. The Extractair Canopy ventilator has a 15 blade nylon impeller fan which enables it to move air against a back pressure. This makes it suitable for fitting to a duct or disused chimney if it is not possible to take the outlet straight through the wall.
Madison House, Molesey Avenue, East Molesey, Surrey, KT8 0SA.

Thorn Domestic Appliances Ltd. Two cooker hoods are marketed under the Tricity brand. Both are the recirculating type with dual filters—one made of charcoal in two sections, and the other a foam grease filter. They have two-speed fans and built-in lights.
New Lane, Havant, Hampshire.

Vent-Axia Ltd. Two ranges of extract/intake ventilation units are available providing over 50 different models. The Universal range comprises 12, 9, 7, and 6in. fans, all available in window, roof, wall and panel units. All feature the Autospring shutter to exclude draughts when the fan is not in use. The Standard range is available in the same sizes and models as the Universal range, and available for both ranges are three speed reversible controllers in various designs. There is also a range of approved ventilation accessories in various materials comprising flexible and rigid ducting, plates, louvres, filters, grease eliminators, grilles and fire dampers. A new single speed extractor fan is the Vent-Axia 150 which has been specially designed for d-i-y installation in kitchens and bathrooms. For window fitting, the fan has a simple pull cord operation which also controls the draughtproof shutter. Extraction rate is 10,000 cu. ft. per hour. The company also offer a technical advisory service.
Fleming Way, Crawley, West Sussex, RH10 2NN.



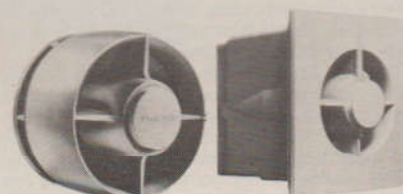
Power-lectric XL ducted or recirculating cooker hood



R.W. Simon Ventamatic window ventilator



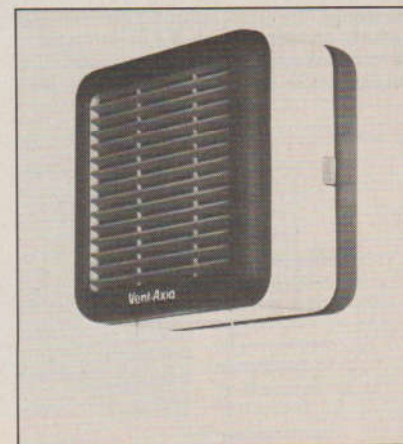
Thermor Extractair canopy ventilator



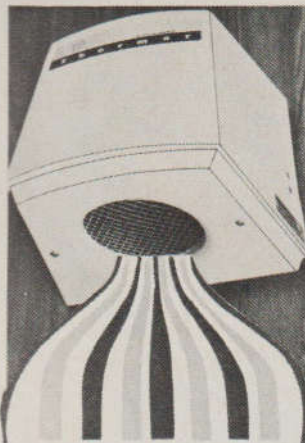
*WINDOW MODEL WALL MODEL
Vent-axia Universal extractors*



Tricity 9024 recirculating cooker hood from Thorn



Vent-Axia 150 new single speed extractor



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The efficient method to rid your kitchen and home of obnoxious, unhealthy, decor destructive smells, steam and grease vapours.

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Send for full details to:
**THERMOR, Madison House,
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East Molesey, Surrey.
Tel. 01-979 4461**



To Thermor, Madison House,
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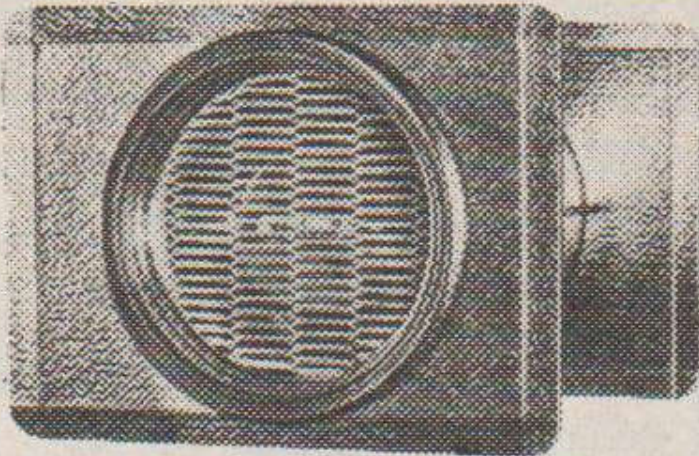
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