

PAINTING KITCHENS AND BATHROOMS

FEBRUARY 1951

Do it yourself

FOR THE PRACTICAL MAN ABOUT THE HOUSE

14



FEATURES INCLUDE

- ◀ HOW TO CURE CONDENSATION
- HOUSE BUILDING FROM A TO Z
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- SAW BENCH PICTURE FRAMING
- BE YOUR OWN CHIMNEY SWEEP
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- A SHELF FOR A SHILLING
- CONCRETE POSTS & BLOCKS

FRESH AIR FOR THE KITCHEN

An extractor fan will ensure clean air at all times. And it will kill the bugbear of condensation

IN so many kitchens today the housewife is condemned to spend a great deal of her life in a damp atmosphere, full of unpleasant smells.

Because of the persistent dampness and greasiness of the air, decorations do not last long. And deposits are formed that soon prove to be a breeding ground for bacteria.

In my opinion, the standard methods of ventilation available, such as louvre windows and wall ventilators, are not adequate. The real answer is a kitchen extractor fan.

Not a luxury

In America, these fans are considered to be essential. But in Britain they are regarded as luxuries. Yet such a fan is about the only piece of kitchen equipment which does not carry purchase tax.

There are at least 25 different types of fan on the market. They vary considerably in price. The six firms mentioned make products representative of this selection. Unlike many other articles, price and quality are very closely interlinked.

The extras offered by the more expensive models will be a higher degree of finish and workmanship, greater power, perhaps a reversing device, and the inclusion of a manual or automatically operated shutter so that air does not blow into your kitchen from the outside when the fan is not operating. The latter advantage is provided in at least one of the cheaper models.

The kitchen fans can be mounted either in the window or through the wall. Window mounting, in general, is easier. But if the kitchen is already dark it may be better to consider wall mounting. Then the fan will

by
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Vent-Axio fan fitted into a modern kitchen

not shut out any light. And a fan is most effective when mounted as high as possible.

The fan should be fixed so that it is farthest away from doors and windows that are frequently opened. A right and wrong way of mounting a fan can be seen in fig. 1.

Before deciding what type of fan you will buy it is as well to make a few calculations. Remember that in a domestic kitchen the number of air changes per hour should be between 10 and 15.

If your kitchen, for example, is 10ft. long, 9ft. wide and 8ft. high, its total volume will be $10 \times 9 \times 8 = 720$ cubic feet.

The most effective type of fan should therefore have an extraction rate of at least 7,200 cubic feet per hour, that is, ten times as much.

Window fitting

The size of hole you will need in the window glass will be given to you by the firm that supplies your fan. Check to see if they specify weight of glass. If yours is not heavy enough, get your glazier to cut a piece to size and to cut the circular hole for you.

If your glass is suitable, it is advisable to remove the pane from the frame before attempting to cut a hole in it.

Place the glass on a table covered with a cloth and lay a plate or other circular object

of a suitable size upon the glass. Draw around the plate with a glass cutter making sure that you score the glass deeply.

Next, draw several more concentric circles within the original one, finishing off with a criss-cross pattern in the centre (fig. 2).

You can attempt to cut the glass while it is still in the window frame, using a similar method to that just described, but as you will appreciate, this is much more difficult.

Turn the scored glass over, then tap gently with a toffee hammer or similar tool, until a

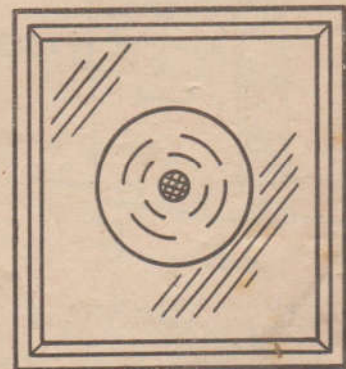
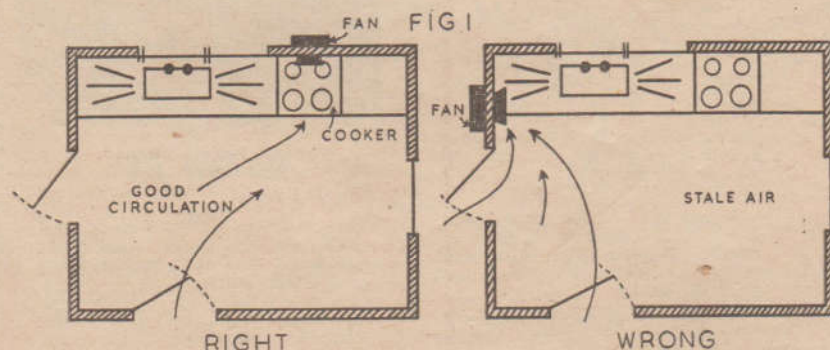


Fig. 2. Cutting the glass to take the fan unit



The fan should be fixed so that it is far away from doors and windows that are frequently opened

clean circle is left. Replace the pane securely before fitting the fan. Where a fairly heavy unit is to be installed, a narrow wood beading pinned in place, instead of tingles and putty, will give good support.

Mount your fan in the hole, using the rubber packing pieces supplied, to make a firm joint. This will usually involve two people, one on either side of the glass, each with part of the securing ring.

Do not over-tighten the screws or nuts or you may crack the glass. And make sure that the fan sits centrally in the hole.

Connect the fan to the power supply by

Continued overleaf

means of a 3-core cable. The green covered earth wire is connected to the metal casing of the fan, or to an earth point provided if the fan is all-plastic.

Wall fitting

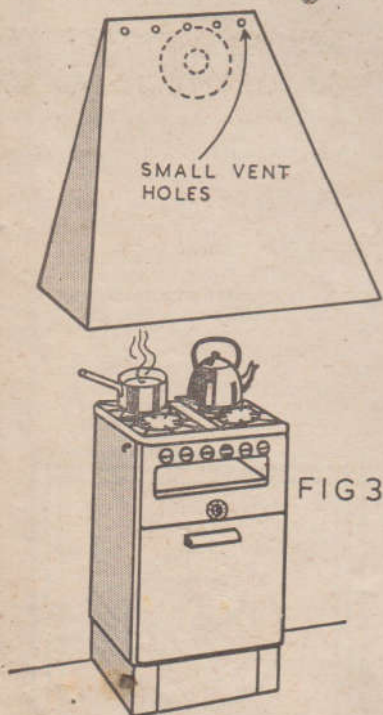
For wall fixing, the firm from which you buy your fan will supply you with special bolts. They are long enough to hold the two parts of the fan together across the thickness of the wall.

Trace the required size of hole on the inside of your wall. By means of a steel chisel and a masonry drill continue the line of the centre through the wall. In this way it is possible to locate the shape of the opening on the outside wall so that it lines-up with the tracing on the inside.

Working alternatively from the inside and the outside of the wall, use a chisel to remove the brickwork. If, as is usually the case, the outside wall is of the cavity type, it is necessary to seal up the gap around the whole area.

I have found this is best done by stuffing glass fibre or a similar inert material all round the gap and mortaring over it. Or you can make a cylinder of aluminium to go through the wall.

The fan can now be fixed in position. One excellent way of mounting the fan is underneath a fume hood. The rising fumes



are localised and removed direct. When a hood is used, it is possible to fit a smaller fan. There may still be need for a shutter to prevent in-draught when the fan is not in use.

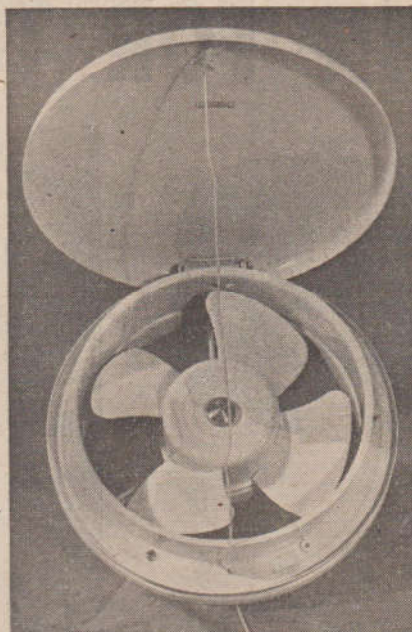
It is important to note that a line of holes should be drilled along the top of the hood, as shown in fig. 3, so that air outside the confines of the hood can also be drawn out. Failure to do this will result in a pocket of stale air accumulating at ceiling level.

Word of warning

The fitting of an extractor fan may well upset the burning of a boiler situated in the same room—especially if doors and windows are shut when the fan is on.

This may be remedied by adjusting the throat and air inlet of the boiler.

Failing this, it may be necessary to give the boiler its own air supply by means of a small ventilator situated in the wall or floor close to it.



COOLERWAY

SOME OF THE FANS ON THE MARKET

(this does not represent the full range of fans stocked by each manufacturer)

Coolerway. (illustrated here and pictured on the cover of this issue) Metway Electrical Industries Ltd., Kemp Town, Brighton, 7. 7½in. fan blade, A.C. only. 16,000 cu. ft. per hour. Shutter fitted as standard. Price £5 19s. 6d.

Minex. Jones and Stephens Ltd., Eastern Bypass, Littlemore, Oxford. 6½in. fan blade, A.C. only. No shutter. Fan price £4 12s. 6d. Air excluder 15s. extra.

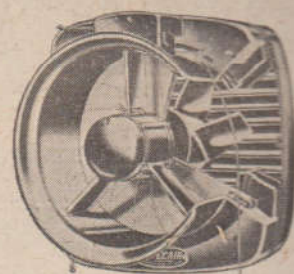
Queen Bee. Queen Bee, 42 Bright-street, Birmingham 1. Fan enclosed in metal casing with grille front. Size 9in. long, 6½in. deep, 6in. front to back. Price £8 5s. This new unit is designed to fit in place of an existing air ventilator grille by removing the inside grille and inserting the fan casing into the cavity.

Vent-Axia. Vent-Axia Ltd., 9 Victoria-street, London, SW1. 6in. fan blade. 11,000 cu. ft. per hour. A.C. D.C. optional extra. Complete with 5-speed reversible switch. £13 10s. 0d. Shutter £3 extra.

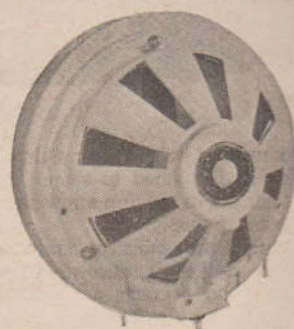
Also 7½in. fan blade. 18,000 cu. ft. per hour. A.C. D.C. optional extra. Complete with 5-speed reversible switch, £17 5s. 0d. Shutter £3 7s. extra.

Ventmaster. Mastervent Engineering Co., 11 Mauldeth Road, Manchester. 6½in. fan blade. 8,000 cu. ft. per hour. A.C. only. No shutter, price £6 19s. 6d.

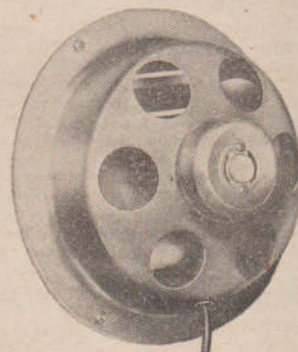
Xpelair. Woods of Colchester Ltd., Magnet House, Kingsway, London,



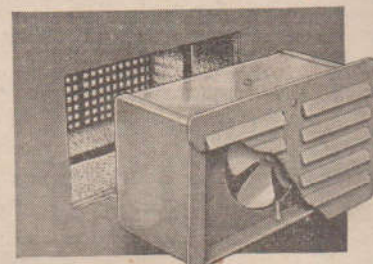
XPELAIR



VENTMASTER



MINEX



QUEEN BEE

WC2. 6in. fan blade. 7,500 cu. ft. per hour. A.C. only. Price complete with shutter £11 3s. 0d.

Also 7½in. fan blade. 15,000 cu. ft. per hour. A.C. and D.C. Price complete with shutter £16 0s. 0d.

Do it yourself... fit it yourself!

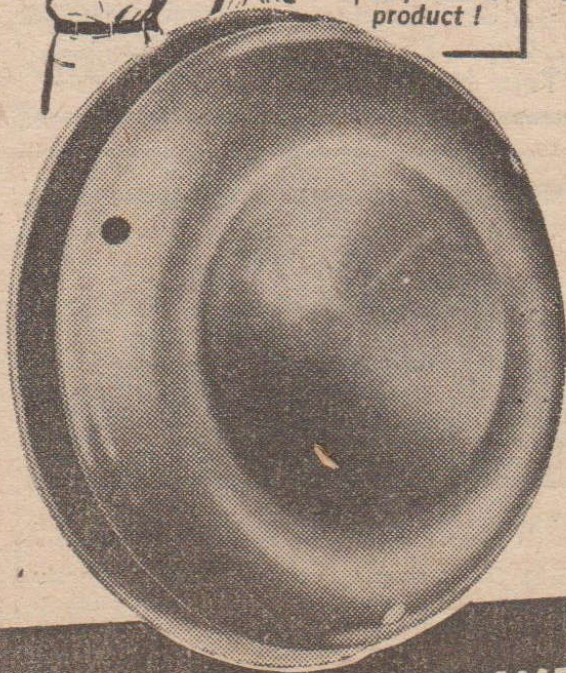
install the

min·ex

**Extractor Fan
in your kitchen!**



Sales
exceed
those of
any similar
product!



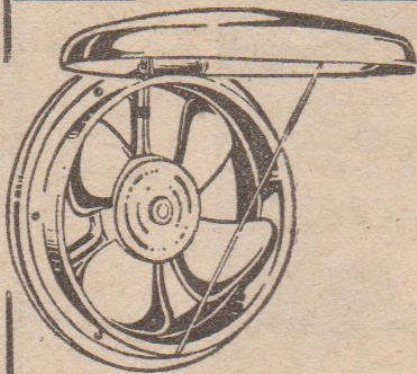
The Min-ex Extractor Fan is the original inexpensive window extractor fan. With its powerful, specialist motor designed and manufactured by us, the Min-ex alleviates condensation, steamy walls and windows, cooking odours and stale air. It is easy to fit and economical to run. Every home needs this attractive, efficient unit. Fully illustrated brochure available upon request.

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**MORE THAN 20,000 HOMEMAKERS HAVE PROVED
THAT THE MIN-EX EXTRACTOR FAN GIVES
BETTER VALUE - MORE POWER!**



**“COOLERWAY”
EXTRACTOR WINDOW FAN**

PRICE £5-19-6

As illustrated on the front cover of this issue

- No more unpleasant cooking odours
- No more steam to spoil your decorations
- Draught proof cover, closes when not in use
- Simple to install—supplied with full installation instructions
- 12 months guarantee
- Rustproof
- White enamelled
- No TV interference
- 40 hours use on one unit of electricity

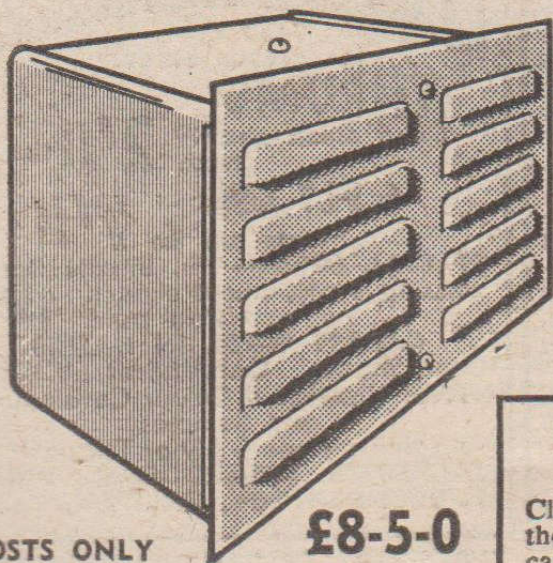
Obtainable from all Stores, Electrical Dealers and Electricity Showrooms

Write for leaflet DAR/12/DIY

METWAY WORKS • BRIGHTON

Keeps my kitchen beautifully fresh!

No longer need you put up with a kitchen atmosphere that's as steamy and hot as a Turkish bath! No longer need the odour of boiling cabbage spread through the whole house! A Fresh Air Ventilator Fan in your kitchen draws out steam and cooking smells, keeps the atmosphere pleasantly fresh and healthy. What's more, Fresh Air Ventilator Fan prevents condensation spoiling paintwork, walls and curtains. And it costs so little . . . to buy and to run



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£8-5-0

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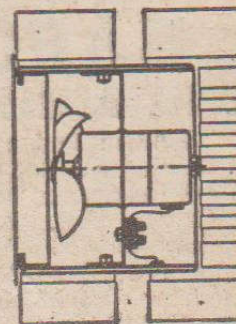
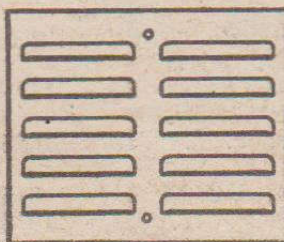
EASY TO FIT. Remove existing air vent grille. The ventilator fan then slips easily into the cavity, which is standard size. All that remains is to clip on to the fan the patent metal grille supplied and plug into your nearest electrical point. Total time 30 minutes.

UNSEEN. The fan unit runs smoothly . . . silently.

LOW COST RUNNING. Electrically operated, uses amazingly little current. Guaranteed—12 months.

STRONG METAL CASING HIGH QUALITY MOTOR

Clip-on grille is instantly detachable to allow the casing to be fitted into the ventilation cavity. Dimensions: 9in. long x 6½in. deep x 6in. front to back.



**Fresh air
VENTILATOR
FAN**



TAKE ADVANTAGE OF THIS INTRODUCTORY BARGAIN PRICE. FORWARD YOUR REMITTANCE TODAY YOUR FAN WILL BE DESPATCHED

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255 Caledonian Road, London, N.1.

• 306 Deansgate, Manchester.
• 24 Ridley Place, Newcastle-on-Tyne. (EP)