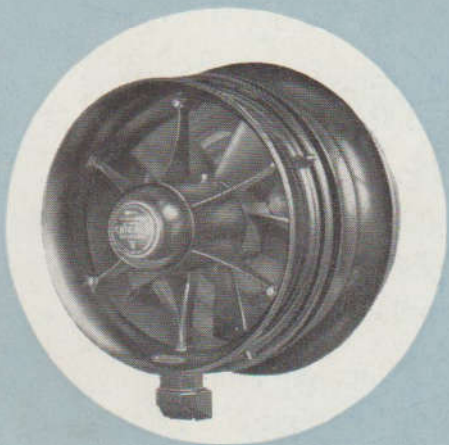


Vent-Axia



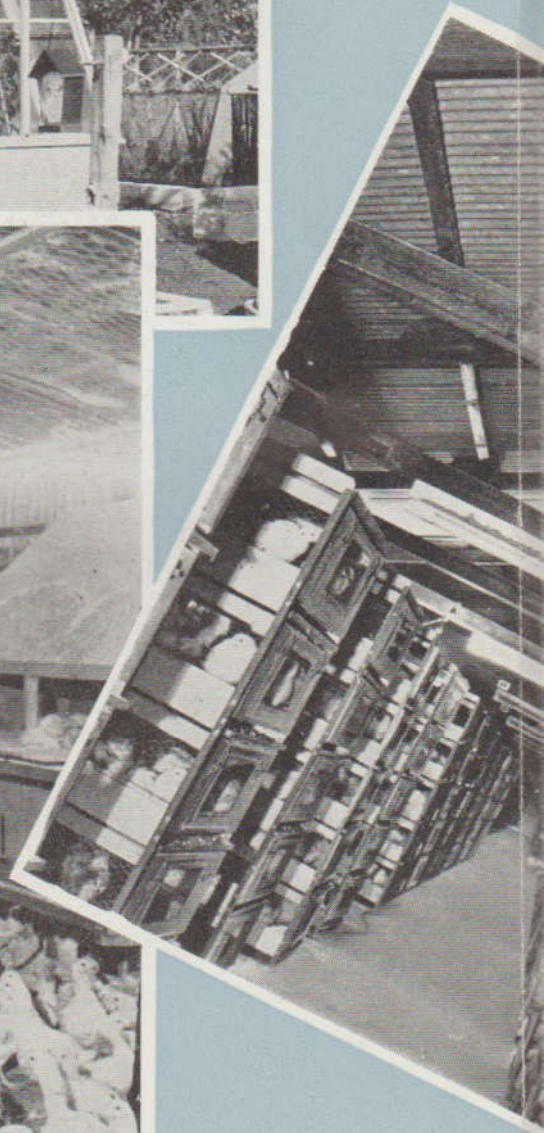
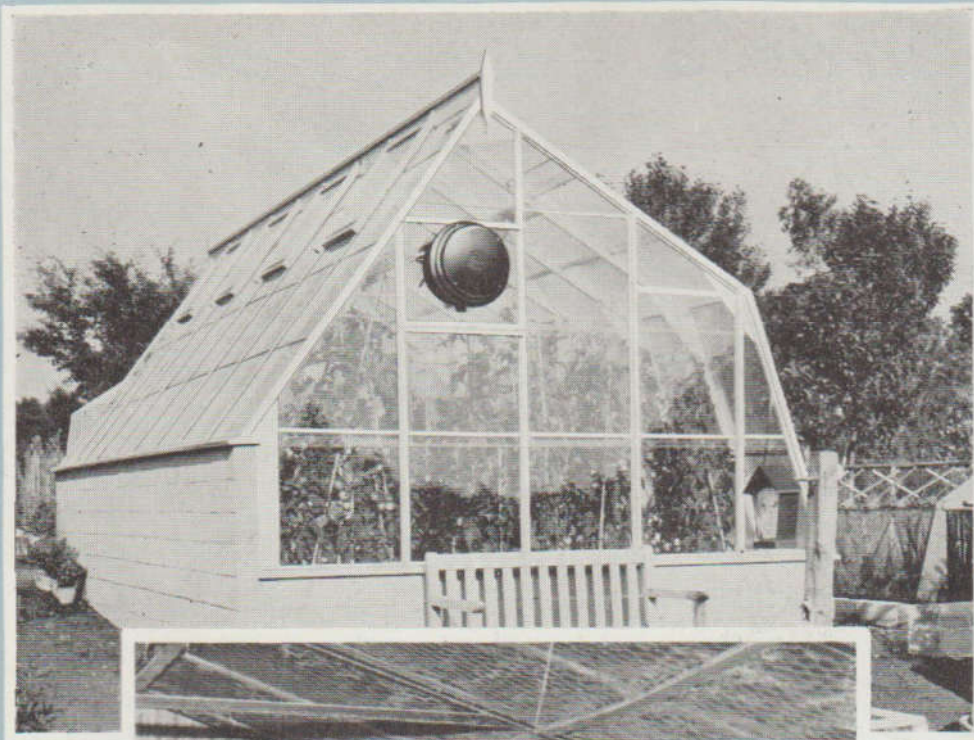
IN AGRICULTURE

TYPICAL INSTALLATIONS OF

Vent-Axia is used with success in many other types of Farm buildings which are too numerous to illustrate here.



THE AIR WITH VENT-AXIA



DROPLETS SPREAD INFECTION, CHANGE

IN AGRICULTURE . . .

IT is now accepted that, to preserve general health and prevent the spread of respiratory diseases, ventilation is essential in agricultural buildings.

“ Natural ” methods, depending so much on outside weather conditions, frequently prove least effective when most required. Thus an ever increasing number of successful Farmers are now using Vent-Axia—because it ensures a proper control of ventilation throughout the four seasons of the year.

Vent-Axia is controlled ventilation in its simplest form. It commends itself, particularly to the Farmer, for the following reasons :—

SIMPLICITY

The patented screw ring fixing method ensures easy and safe fitting direct to window glass; or to a fixing plate for installation in a partition, wall or roof.

CONTROL

Each unit handles a definite quantity of air and can be provided with variable speed control. Reversible models also give a choice of Extract or Intake ventilation as required.

EFFICIENCY

The design gives maximum air movement for minimum current consumption. All motors are totally enclosed against dust, dirt and moisture, are quiet in operation and rated for continuous running.

ECONOMY

All units are electrically driven—current consumption is so low that they may be incorporated in the lighting circuit.

DURABILITY

Outside casings, louvres and impellers are of the highest quality plastic—unaffected by weathering and entirely rust proof.

MAINTENANCE

Bearings are of long life, oil retaining type and require only occasional inspection. For thorough cleaning, the motor and attached impeller can be simply removed from the unit without disturbing the remainder of the installation.

AIR CHANGE PER HOUR

Satisfactory ventilation depends on many variable factors and the accompanying table is given only as a guide for normal conditions; where condensation is a major problem, a higher rate of air change may be required.

Brooder House, Deep Litter House, Laying Battery	8-10
Incubator Rooms	10-12
Broiler Houses	15-20
Calves Pens and Pig Houses	8-10
Cow Houses and Dairies	6-8

(Greenhouses . . . see separate leaflet)

EXAMPLE 1 Deep Litter House (20 ft. long \times 15 ft. wide \times 9 ft. average height) requiring eight air changes per hour.

Cubic Capacity of house = $20 \times 15 \times 9 = 2,700$ cu. ft.

Total air movement required per hour = $2,700 \times 8 = 21,600$ cu. ft.

\therefore One 9-inch Type "X" (capacity 25,000 cu. ft. per hour) *or* one 9-inch Reversible (capacity 30,000 cu. ft. per hour) would be selected according to the flexibility of ventilation required.

EXAMPLE 2 Pig House (130 ft. long \times 20 ft. wide \times 7 ft. high) requiring ten air changes per hour.

Cubic Capacity of house = $130 \times 20 \times 7 = 18,200$ cu. ft.

Total air movement required per hour = $18,200 \times 10 = 182,000$ cu. ft.

\therefore Four 12-inch Type "X" (capacity $4 \times 55,000 = 220,000$ cu. ft. per hour) *or* three 12-inch Reversible (capacity $3 \times 62,000 = 186,000$ cu. ft. per hour) would be selected according to the flexibility of ventilation required.

N.B. *In all cases where livestock are involved, it will be necessary to provide draught-free air inlets at the minimum rate of 3 sq. ft. of FREE AIR SPACE for every 60,000 cu. ft. of air moved per hour.*

FREE TECHNICAL SERVICE

Experienced technical representatives will call by appointment almost anywhere in the United Kingdom and will, without obligation, discuss any ventilating problem on site.

CONTROLLED VENTILATION PAYS

Vent-Axia GENERAL SPECIFICATION

The Vent-Axia Reversible and Type "X" (for Extract or Intake) are contained in the same plastic mouldings and are therefore of the same physical appearance.

SIZE.—The units are made in four sizes, with impellers of 6", 7½", 9" and 12" diameter. The size of the circular hole to be cut for installation is ¼" larger than the diameter of the impeller in all cases, and the overall diameter of the unit on the face of the glass or fixing plate is 2" larger than the impeller, except for the 12" unit, which is 14½" in this dimension.

REVERSIBLE	6"	7½"	9"	12"
Air Moved per hour in cubic feet ..	11,000	18,000	30,000	62,000
Top Speed (R.P.M.)	2,000	1,650	1,500	1,300
Watts Input at Top Speed	20	30	35	55

N.B. The Vent-Axia Reversible *can only be used in conjunction with the Controller*, which contains the capacitor, auto-transformer with tapped voltage inputs and a reversing switch, providing a choice of five speeds in either direction of air flow. Terminals are provided for wiring up to all normal single phase A.C. voltages from 100 to 250 volts.

TYPE "X"	6"	7½"	9"	12"
Air Moved per hour in cubic feet ..	7,500	14,500	25,000	55,000
Top Speed (R.P.M.)	1,290	1,280	1,275	1,150
Watts Input at Top Speed	25	30	50	90

N.B. Type "X" motors are wound either for Extract or Intake and can be supplied for use on all normal A.C. voltages from 100 to 250 volts, single phase.

Orders should state whether required for Extract or Intake and give details of supply voltage.

WEATHER COWLS, SHUTTERS AND OTHER SPECIAL ITEMS AVAILABLE AS REQUIRED.

For further particulars, see separate leaflet.

Vent-Axia

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