

'MAX'

BUILT-IN WALL FANS

axial fans for medium and large rooms

- Domestic/Commercial/Industrial Use
- 6 Models
- 2 Reversible Models
- 3 Models with Automatic Silent Shutters
- 5 Models with Speed Controller



ventilation





GENERAL

The range of six Vectaire "MAX" Built-in axial fans is the most comprehensive available. They are capable of extracting at rates of between 230m³/hr to 5,800m³/hr.

The "MAX" Built-in fans, designed for easy installation into solid or cavity walls, are complete with all the necessary fixings, including a speed controller (except the MAX150AB). They are ideal for kitchens, both domestic and commercial, offices, or pubs, restaurants, shops, leisure centres, etc.

The high performance rates of the larger sized fans make them particularly cost effective for installation in those areas where previously two or more fans would have been necessary to achieve the same extract capacity.

All models operate quietly.



THE RANGE

The range comprises 6 models:

- **MAX150AB**
6"/15cm, built-in, automatic shutters
- **MAX230ARB**
9"/23cm built-in, automatic, reversible with 5 speed controller
- **MAX300ARB**
12"/30cm built-in, automatic, reversible with 5 speed controller
- **MAX350B**
14"/35cm built-in with variable speed controller
- **MAX400B**
16"/40cm built-in with variable speed controller
- **MAX450B**
18"/45cm built-in with variable speed controller

The extensive choice of size and performance means that there is a fan available to cope with every installation situation.

Fans are complete with:

- a telescopic wall liner constructed from galvanised steel enabling the fans to be fitted into walls from 230mm to 390mm thick. The wall liner has a cut-out to allow concealed cable entry.
- a speed controller (**except** MAX150AB)
- an inside wall grille in an off-white colour to blend in with all surroundings.
- an outside, weatherproof, aluminium wall grille (not MAX350, MAX400 or MAX450).
- a recess box for the speed controller (not MAX350, MAX400 or MAX450)

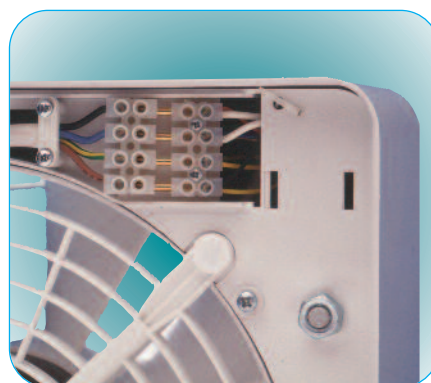
150mm, 230mm and 300mm (6", 9" and 12") MODELS

The MAX150AB, MAX230ARB and MAX300ARB all have internal, slow moving, delay action, silent opening backdraught shutters, which can be left open to provide trickle ventilation with complete safety.

These three fans have a neon indicator on the fan casing to show when the fan is energised.

The MAX230ARB and MAX300ARB are complete with reversible, five speed controller (VXCR), which incorporates a neon indicator (to show that the fan is energised) and a double pole on/off switch.

The fans combine innovative design with practical efficiency. They are formed from high quality, impact resistant, white thermoplastic material with a high mechanical strength.



Ease of Installation

The MAX230ARB and MAX300ARB are particularly easy to wire because they incorporate a plug and socket arrangement for cable connection.

Motors

Motors fitted with sealed-for-life bearings. The motor windings are insulated

to Class B Standard and incorporate an overload cut-out to protect against overheating.

The fans are double insulated, and are capable of operating in a maximum ambient temperature of 40°C.

5 Speed Controller (VXCR)

- Double pole on/off switch.
- Reversing.
- 5 speed plus [O] to allow shutters to stay open in safety.
- Neon light to show when fan is operating.

350mm, 400mm and 450mm (14", 16" and 18") MODELS

These fans are supplied complete with a variable speed controller (VC1 for MAX350 and MAX400; VC4M for MAX450).

Frame

The frames on these fans are constructed from robust, corrosion resistant material with a steel wire motor support. The blade is in reinforced polypropylene and the blade hub in die-cast aluminium.

Motors

Windings are insulated to Class F Standard and the motors incorporate thermal overload protection.

The fans are capable of operating in a maximum ambient temperature of 50°C, and have IP55 protection for great installation versatility.

Wall Grilles

The outside grilles on these models are of the gravity shutter type, giving the maximum protection against the elements.

ACCESSORIES

- **Dynamic Remote Humidistat (DRH)** - the fan will operate when the relative humidity in the room reaches the pre-set level, and stop when the moisture has been cleared.



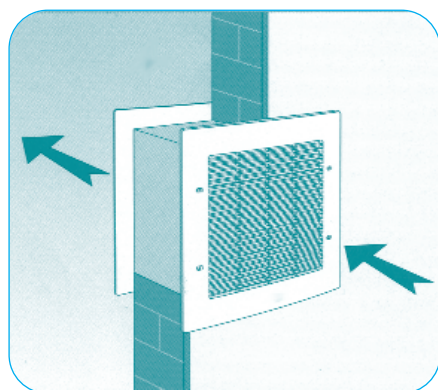
- **Air Quality Sensor (AQS)** - automatically senses polluted air and switches on the fan to replace the contaminated air.
- **Thermostat (TH)** - a sensor which will switch on the fan when the temperature rises above a pre-set level.
- **PIR (PIR)** - switches on the fan automatically when it senses the presence of someone in the room.
- **Multi Fan Controller (VXCR300)** - an additional, optional controller which can be used with a mix of several MAX230ARB or MAX300ARB fans up to a total power of 300 watts.
- **Multi Fan Controller** - an additional, optional controller is available for multiple use of the MAX350, MAX400 or MAX450 (speak to Sales Office for correct model).
- **Extra Strong Outside Wall Grille** - for 150mm, 230mm and 300mm (6", 9" and 12") models.

ALL FANS ARE BUILT TO THE HIGHEST STANDARDS AND COMPLY WITH

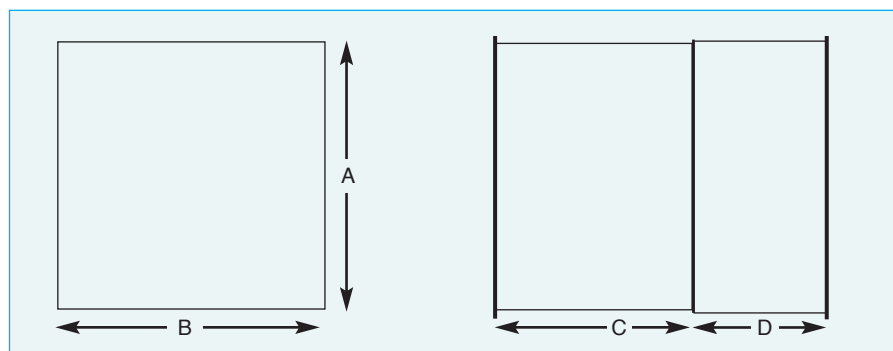
- CEI61/28 - IEC342-1
- EC Low Voltage Directive 73/23-93/68
- EC Directive EMC89/336
- CE marked



INSTALLATION

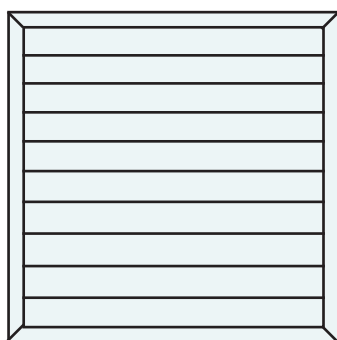


WALL LINER DIMENSIONS - Telescopic Wall Liner - min 230mm - max 390 mm



Model	Fan Size	A(mm)	B(mm)	C(mm)	D(mm)	Hole Size(mm)
MAX150AB	15cm/6"	265	265	230	160	275 x 275
MAX230ARB	23cm/9"	358	358	230	160	370 x 370
MAX300ARB	30cm/12"	435	435	230	160	447 x 447
MAX350B	35cm/14"	506	506	230	160	518 x 518
MAX400B	40cm/16"	556	556	230	160	568 x 568
MAX450B	45cm/18"	606	606	230	160	618 x 618

GRILLE DIMENSIONS - mm

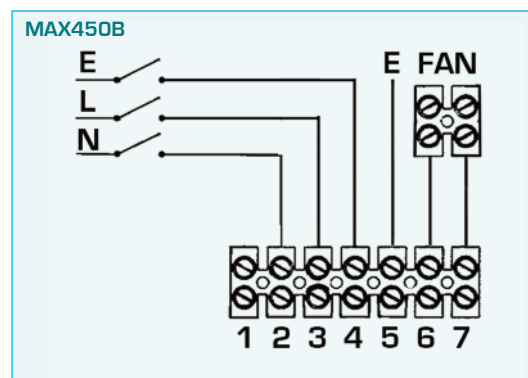
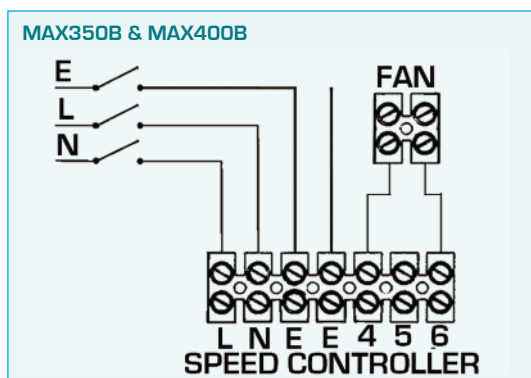
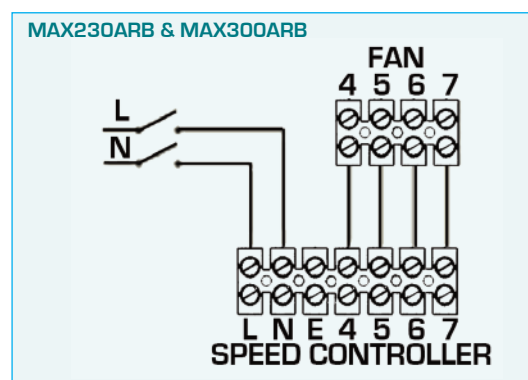
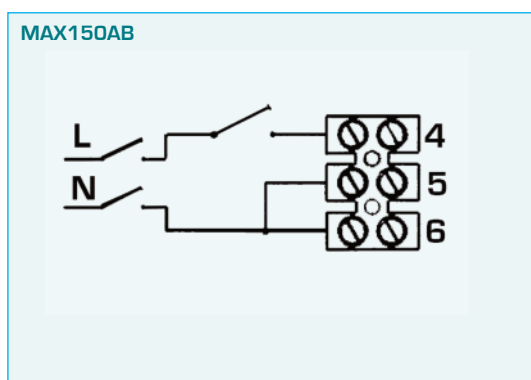


Model	Inside Linear Bar	Outside Louvre	Outside Gravity
MAX150AB	305 x 305	312 x 312	-
MAX230ARB	398 x 398	405 x 405	-
MAX300ARB	475 x 475	482 x 482	-
MAX350B	545 x 545	-	630 x 630
MAX400B	595 x 595	-	630 x 630
MAX450B	645 x 645	-	660 x 660

TECHNICAL CHARACTERISTICS

Model	max m ³ /hr	max litres/sec	Volts	Hz	Watts	Current Amps	Max dbA	Hole dia mm
MAX150AB	230	64	230	50	20	.15	40	275 x 275
MAX230ARB	800	222	230	50	42	.20	49	370 x 370
MAX300ARB	1,500	417	230	50	102	.50	56	447 x 447
MAX350B	3,000	833	230	50	120	1.0	54	518 x 518
MAX400B	4,100	1,139	230	50	120	1.1	55	568 x 568
MAX450B	5,800	1,611	230	50	250	1.5	58	618 x 618

WIRING DIAGRAMS



Vectaire Ltd

Lincoln Road
Cressex Business Park
High Wycombe
Buckinghamshire
HP12 3RH

Tel: +44(0)1494 522333
Fax: +44(0)1494 522337

Email: sales@vectaire.co.uk
Web: www.vectaire.co.uk

