



# Rytons Background Ventilators

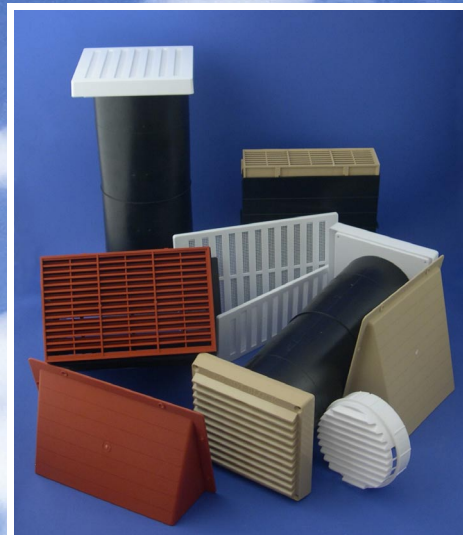
## Contains Approved Document F 2010 Update

Product guides and technical data sheets can be downloaded from our website.

Look out for:  
Rytons Acoustic Ventilators  
Rytons Cavity Weeps and Slim Vents®

For more information call **01536 511874**  
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# Approvals, Choice and Quality

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\* Consignments sent 16/03/09-20/03/09

## Verifiable Testing and Independent Approvals



Rytons has the largest range of **BBA approved** ventilators on the market. BBA approval is third party evaluation and accreditation, and approved products are accepted by building control, architects, engineers and surveyors, and by the NHBC. It's your assurance that our products meet the Standards and will last – something not offered by all manufacturers.



**HETAS** is the official body for approving solid fuel domestic heating appliances. Rytons ventilators are the only products on the market with HETAS approval and the only ventilators recommended by HETAS to their registered engineers.



**The Building Research Establishment Ltd** is an independent testing authority. BRE Acoustics measurements were conducted using procedures accredited by UKAS.



**Advantica Technologies**, previously known as British Gas Technologies, developed the dynamic test procedure for calculating the equivalent area of a ventilator.

## Can't find the Size, Colour or Finish you Require?

Call 01536 511874 and talk to Rytons Sales Office about colour matching and specials. Most of Rytons external cowls, grilles and all Multifix® Air Bricks are available to order in non-standard colours, choosing from either a standard Rytons colour or supplying a RAL number.

### Standard Colours



Rytons technical specifications are listed on **NBS Plus**, part of the NBS industry standard specification software used by architects, building surveyors and other construction industry professionals. Live NBS Plus data is also available to paste straight into your project specification, free of charge, from **www.vents.co.uk**.

## Environmental Policy

Where practicable, and where the product quality can be maintained, Rytons plastic products are made from or incorporate recycled material. Where possible product packaging is made of degradable recycled cardboard and the minimum packaging possible is used. To avoid unnecessarily bulky product literature, information is available in a variety of paper free formats.



Please recycle cardboard packaging, product guides and printouts.



If you are unable to use excess products on another project they may be recycled where facilities exist.

**Rytons Building Products Ltd Design House, Kettering Business Park, Kettering, NN15 6NL**  
**T: 01536 511874 F: 01536 310455 E: admin@rytons.com Online: www.vents.co.uk**

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Calls to and from Rytons are recorded to help us maintain and improve our service.

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# Extracts from The Building Regulations

## Approved Document F, Means of ventilation, 2010 edition

Approved Document F is a complex document with many criteria for working out the background ventilation requirements of a dwelling. The following extracts are a brief introduction as to why ventilation is required and to which ventilation systems Rytons products are best suited. A free download of Approved Document F is available at [www.planningportal.gov.uk](http://www.planningportal.gov.uk).

### Section 4: Introduction to the provisions

#### The purpose of ventilation

**4.6** Ventilation is simply the removal of 'stale' indoor air from a building and its replacement with 'fresh' outside air. It is assumed within the Approved Document that the outside air is of reasonable quality.

**4.7** Ventilation is required for one or more of the following purposes:

- provision of outside air for breathing;
- dilution and removal of airborne pollutants, including odours;
- control of excess humidity (arising from water vapour in the indoor air);
- provision of air for fuel-burning appliances (which is covered under Part J of the Building Regulations).

#### Control of ventilation

**4.18** It is important that ventilation is controllable so that it can maintain reasonable indoor air quality and avoid waste of energy. These controls can be either manual (i.e. operated by the occupant) or automatic.

**4.19** Manually controlled trickle ventilators (the most common type of background ventilators) can be located over the window frames, in window frames, just above the glass or directly through the wall. They are positioned typically 1.7m above floor level to avoid discomfort due to cold draughts.

#### Equivalent areas of ventilators

**4.26 Equivalent area** is used in the Approved Document instead of free area for the sizing of background ventilators (including trickle ventilators) because it is a better measurement of the air flow performance of the ventilator. BS EN 13141-1:2004 (Clause 4) includes a method of measuring the equivalent area of background ventilation openings. All Rytons background ventilator sets (including acoustic) have equivalent area measurements calculated by the BRE at 1Pa to BS EN 13141-1:2004.

### Section 5: New Dwellings

#### Ventilation systems for new dwellings without basements

Select one of the four ventilation systems. Rytons background ventilators are most suited to System 1 and System 3.

**System 1: Background ventilators and intermittent extract fans.** Guidance on minimum provisions for extract and whole dwelling ventilation is set out in Table 5.2a. Note that it includes separate guidance for dwellings with habitable rooms having only a single exposed façade. Rytons is able to supply the non-mechanical aspects to achieve System 1.

**System 3: Continuous mechanical extract (MEV).** Guidance on minimum provisions for extract and whole dwelling ventilation is set out in Table 5.2c. Rytons is able to supply the non-mechanical aspects to achieve System 3.

Refer to Approved Document F for details of System 2: Passive stack ventilation (PSV) and System 4: Continuous mechanical supply and extract with heat recovery (MVHR).

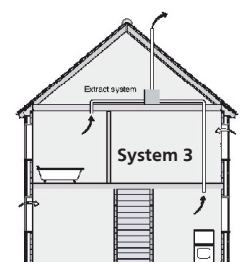
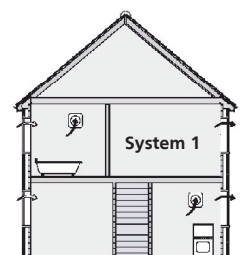
#### Equivalent Area Calculations

At Rytons we realise how daunting the task of calculating background ventilation can be and can help you. Simply email your drawings to [admin@rytons.com](mailto:admin@rytons.com) and we can work out the amount of ventilation required and recommend the most suitable Rytons background ventilator for each room.

Alternatively, tell us the following information:-

- Total floor area in m<sup>2</sup> (all floor areas combined).
- Dwelling Type: Single-storey dwelling located up to and including the fourth storey above ground level.  
Multi-storey dwelling or a single-storey dwelling that is located more than four storeys above ground level.
- No of Bedrooms.
- No of Façades.
- Design air permeability.

Please also make us aware of any acoustic ventilation requirements as early as possible.



Should you have any queries or concerns regarding any of the information contained within this article please do not hesitate to contact Rytons technical team on 01536 511874 or email [admin@rytons.com](mailto:admin@rytons.com).



# Vents you can shout about

## How to give your clients a quiet life but still maintain aesthetic appearance in all types of buildings.

The number of official noise related complaints has increased more than 300% over the last few years, making them the majority of complaints to local authorities. Approximately 4,000,000 people in Britain feel they suffer from noisy neighbours and almost a quarter of occupants of dwellings rate their privacy as poor or very poor as a result of inadequate sound insulation. The amount of brown field sites is also growing with residential developments very close to railway lines, motorways, airports and industrial estates.

### But how do you get adequate ventilation into a building with minimum noise transmission?

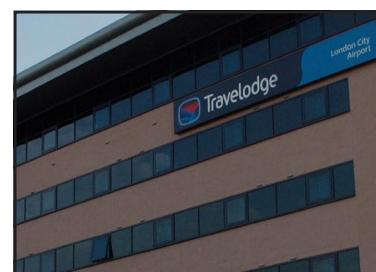
There are now ventilation products available to help you meet the requirements of The Building Regulations Approved Document E *Resistance to the passage of sound*. However Rytons believe it shouldn't be necessary to sacrifice the appearance of the building, or the provision of effective and vital ventilation under Part F of The Building Regulations *Means of ventilation*, in order to meet these requirements. As a result Rytons have designed and manufactured acoustic versions of their popular 125mm and 150mm Diameter AirCore® Ventilators, '9x3' AirLiners®, '9x6' AirLiners® and '9x9' AirLiners® that appear exactly as normal from the outside and to the occupier of the building, but in fact hide an intricate and efficient system of acoustic panels and foam which greatly reduce the amount of sound transferred.



Not only is there a variety of styles and sizes, but also a wide range of colours as standard and a choice of suitable fitments for the inside i.e. adjustable Hit & Miss Vent for background venting or fixed open Louvre Vent for appliance and general venting – ensuring the safety of the building's occupants whilst still improving levels of sound insulation between one building and another, and within buildings. One type can even be retrofitted entirely from the inside of the building – ideal for existing high rise situations.

However, Rytons don't just expect you to just take their word for it. A large proportion of their acoustic range is British Board of Agrément approved (only new products pending approval), **all** acoustic products have been fully tested by the Building Research Establishment with comprehensive test data freely available, and the original Telescopic Acoustic AirLiner® received an Innovation Award from the BBA when it was launched in 2002. Those acoustic ventilators within Rytons range that can be used to ventilate heat producing appliances have also undergone testing by Advantica and the BRE to BS 5440-2:2000 and been accredited with a calculated Equivalent Free Area. Plus, in 2009 Rytons was delighted to receive HETAS approval on their range of acoustic ventilators suitable for use with solid fuel appliances and are proud to have the only ventilators HETAS recommend to their registered engineers.

Most major house builders including Charles Church Developments, Countryside Properties, Bryant Homes Social Housing, Bellway Homes, Barratt Homes and Redrow Homes have used Rytons acoustic ventilators. They have also been successfully installed in many non-domestic situations including City Airport Travelodge, London E16 and Tesco's Store, Islington Green, London N1. They have even travelled further afield such as a private project for a resident of New York who was so impressed with one he encountered in his Dublin hotel on a visit that he ordered one over the internet upon his return home!



Rytons Acoustic Vents used in London City Airport Travelodge

Should you have any queries or concerns regarding any of the information contained within this article please do not hesitate to contact Rytons technical team on 01536 511874 or email [admin@rytons.com](mailto:admin@rytons.com).



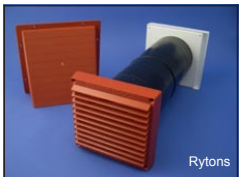



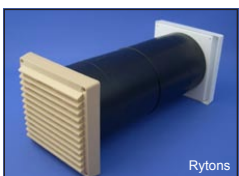

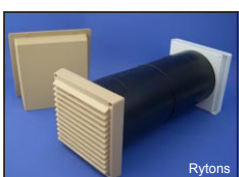

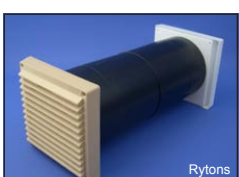

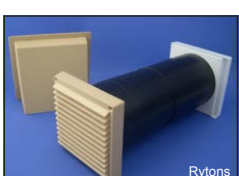

## Quick view guide to Rytons Acoustic Ventilators for Background Ventilation

Rytons Product	Product Code	D n,e,w	Equivalent Area	Page
Rytons 125mm Acoustic AirCore® with Hit & Miss Ventilator	AAC5HM	39 dB	3633mm <sup>2</sup>	6
Rytons Cowled 125mm Acoustic AirCore® with Hit & Miss Ventilator	AAC5HMCW	39 dB	3856mm <sup>2</sup>	6
Rytons 125mm Acoustic High Rise AirCore® with Hit & Miss Ventilator	AAH5HM	39 dB	3248mm <sup>2</sup>	6
Rytons 150mm Acoustic AirCore® with Hit & Miss Ventilator	AAC625HM	36 dB	5187mm <sup>2</sup>	6
Rytons Cowled 150mm Acoustic AirCore® with Hit & Miss Ventilator	AAC625HMCW	38 dB	4991mm <sup>2</sup>	6
Rytons 150mm Acoustic AirCore® with Hit & Miss Ventilator	AAC635HM	41 dB	4350mm <sup>2</sup>	6
Rytons Cowled 150mm Acoustic AirCore® with Hit & Miss Ventilator	AAC635HMCW	42 dB	3752mm <sup>2</sup>	6
Rytons '9x3' Acoustic AirLiner® Set with Hit & Miss Ventilator	TAL4H&M	38 dB	2305mm <sup>2</sup>	7
Rytons '9x3' Cowled Acoustic AirLiner® Set with Hit & Miss Ventilator	TAL4HMCWL	39 dB	2213mm <sup>2</sup>	7
Rytons '9x6' Acoustic AirLiner® Set with Hit & Miss Ventilator	TALH&M	39 dB	3749mm <sup>2</sup>	7
Rytons '9x6' Cowled Acoustic AirLiner® Set with Hit & Miss Ventilator	TALHMCW	42 dB	3642mm <sup>2</sup>	7
Rytons '9x9' Acoustic AirLiner® Set with Hit & Miss Ventilator	TAL9H&M	38 dB	5580mm <sup>2</sup>	7
Rytons '9x9' Cowled Acoustic AirLiner® Set with Hit & Miss Ventilator	TAL9HMCWL	40 dB	5000mm <sup>2</sup>	7




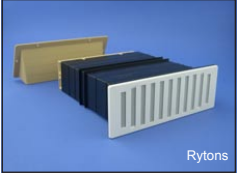


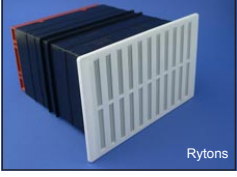


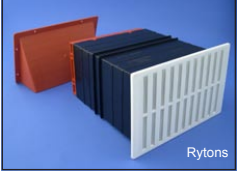


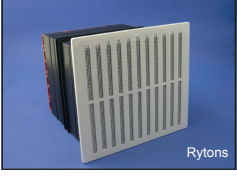


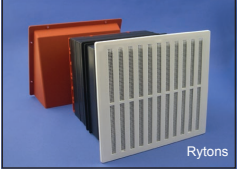


Product Code	D n,e,w (dB)	Converted Octave Band Value (dB)						
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
AAC5HM	39	34.7	43.2	35.1	32.6	46.3	59.6	65.9
AAC5HMCW	39	33.8	42.7	33	33	52	63.2	68.3
AAH5HM	39	34.3	43.3	35.5	32.7	46.8	60.6	64.4
AAC625HM	36	34.4	40.9	32.1	29	44.3	54.2	59.9
AAC625HMCW	38	33.5	40.3	30	31.9	53	57.2	62.5
AAC635HM	41	33.8	41.6	34.7	35.1	52.6	58.7	64.9
AAC635HMCW	42	33.5	40.9	32.7	38.3	56.7	63.2	68.2
TAL4H&M	38	34.5	42.6	42.3	35.7	37.3	40	44.8
TAL4HMCWL	39	34.9	43.3	43.1	37.5	38.2	40.4	47.8
TALH&M	39	35.8	38.4	35.8	34.4	41.1	49	53.9
TALHMCW	42	36.1	39.2	36	36	43.8	51.7	58
TAL9H&M	38	34.6	37.3	31.3	33.8	39.7	46.5	52.5
TAL9HMCWL	40	34.5	37.8	31.8	33.8	43.4	52	56.8

All test data for controllable ventilators relates to the 'hit & miss' part in the **open** position.  
 All figures are reproduced in good faith and to the best of our knowledge are true and accurate.  
 Customers should satisfy themselves that the products are suitable for the intended purpose by using this information  
 in conjunction with Rytons Technical Data Sheets and BRE Acoustic Test Reports available from [www.vents.co.uk](http://www.vents.co.uk).

# Rytons 125mm Dia. and 150mm Dia. Acoustic AirCores® for Background Ventilation

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Equivalent Area	Colours	Approvals & Testing
<b>Note: Converted octave band data for low, medium and high level frequency bands can be found on page 5.</b>					
Code: AAC5HM 	<b>Rytons 125mm Acoustic AirCore® with Hit &amp; Miss Ventilator (39 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>39 dB (open)</b> , 40 dB (closed). Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 127mm Dia. x 358mm L <b>Hit &amp; Miss:</b> 177mm L x 173mm H	3633mm <sup>2</sup> 36.33cm <sup>2</sup>  U.V. stabilised	<b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AAC5HMCW 	<b>Rytons Cowed 125mm Acoustic AirCore® with Hit &amp; Miss Ventilator (39 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>39 dB (open)</b> , 40 dB (closed). Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. External cowl reduces light and draughts. Core drilled - suitable for retrofit installations. Cowl/grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 127mm Dia. x 358mm L <b>Cowl:</b> 217mm L x 210mm H x 93mm D	3856mm <sup>2</sup> 38.56cm <sup>2</sup>  U.V. stabilised	<b>Cowl:</b> WH, B/S, TC <b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AAH5HM 	<b>Rytons 125mm Acoustic High Rise AirCore® with Hit &amp; Miss Ventilator (39 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>39 dB (open)</b> , 40 dB (closed). Fitted from the inside for high level installations. Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 127mm Dia. x 358mm L <b>Hit &amp; Miss:</b> 177mm L x 173mm H	3248mm <sup>2</sup> 32.48cm <sup>2</sup>  U.V. stabilised	<b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AAC625HM 	<b>Rytons 150mm Acoustic AirCore® with Hit &amp; Miss Ventilator (36 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>36 dB (open)</b> , 37 dB (closed). Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 151mm Dia. x 358mm L <b>Grilles:</b> 177mm L x 173mm H	5187mm <sup>2</sup> 51.87cm <sup>2</sup>  U.V. stabilised	<b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AAC625HMCW 	<b>Rytons Cowed 150mm Acoustic AirCore® with Hit &amp; Miss Ventilator (38 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>38 dB (open)</b> , 39 dB (closed). Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. External cowl reduces light and draughts. Core drilled - suitable for retrofit installations. Cowl/grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 151mm Dia. x 358mm L <b>Cowl:</b> 217mm L x 210mm H x 93mm D	4991mm <sup>2</sup> 49.91cm <sup>2</sup>  U.V. stabilised	<b>Cowl:</b> WH, B/S, TC <b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AAC635HM 	<b>Rytons 150mm Acoustic AirCore® with Hit &amp; Miss Ventilator (41 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>41 dB (open)</b> . Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 151mm Dia. x 358mm L <b>Grilles:</b> 177mm L x 173mm H	4350mm <sup>2</sup> 43.5cm <sup>2</sup>  U.V. stabilised	<b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AAC635HMCW 	<b>Rytons Cowed 150mm Acoustic AirCore® with Hit &amp; Miss Ventilator (42 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>42 dB (open)</b> . Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. External cowl reduces light and draughts. Core drilled - suitable for retrofit installations. Cowl/grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 151mm Dia. x 358mm L <b>Cowl:</b> 217mm L x 210mm H x 93mm D	3752mm <sup>2</sup> 37.52cm <sup>2</sup>  U.V. stabilised	<b>Cowl:</b> WH, B/S, TC <b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre

# Rytons Acoustic AirLiner® Sets for Background Ventilation

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Equivalent Area	Colours	Approvals & Testing
Note: Converted octave band data for low, medium and high level frequency bands can be found on page 5.					
Code: TAL4H&M 	<b>Rytons '9x3' Acoustic AirLiner® Set with Hit &amp; Miss Ventilator (38 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>38 dB (open)</b> , 39 dB (closed). Equivalent area BRE tested to Approved Document F. Internal baffle reduces light and draughts. Manually controlled internal hit & miss ventilator. Grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-368mm L with air brick <b>Hit &amp; Miss:</b> 271mm L x 95mm H	2305mm <sup>2</sup> 23.05cm <sup>2</sup>	<b>Air Brick:</b> GR, BL, B/S, TC, WH, BR, B/B <b>Hit &amp; Miss:</b> WH	 Irish Reg. Stat. 
Code: TAL4HMCWL 	<b>Rytons '9x3' Cowled Acoustic AirLiner® Set with Hit &amp; Miss Ventilator (39 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>39 dB (open)</b> , 40 dB (closed). Equivalent area BRE tested to Approved Document F. Cowl and internal baffle reduce light and draughts. Manually controlled internal hit & miss ventilator. Cowl/grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-368mm L with air brick <b>Cowl:</b> 255mm L x 96mm H x 44mm D	2213mm <sup>2</sup> 22.13cm <sup>2</sup>	<b>Cowl:</b> B/S, TC <b>Air Brick:</b> B/S, TC <b>Hit &amp; Miss:</b> WH	 Irish Reg. Stat. 
Code: TALH&M 	<b>Rytons '9x6' Acoustic AirLiner® Set with Hit &amp; Miss Ventilator (39 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>39 dB (open)</b> , 40 dB (closed). Equivalent area BRE tested to Approved Document F. Internal baffles reduce light and draughts. Manually controlled internal hit & miss ventilator. Grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-404mm L with air brick <b>Hit &amp; Miss:</b> 271mm L x 171mm H	3749mm <sup>2</sup> 37.49cm <sup>2</sup>	<b>Air Brick:</b> GR, BL, B/S, TC, WH, BR, B/B <b>Hit &amp; Miss:</b> WH	 Irish Reg. Stat. 
Code: TALHMCW 	<b>Rytons '9x6' Cowled Acoustic AirLiner® Set with Hit &amp; Miss Ventilator (42 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>42 dB (open and closed)</b> . Equivalent area BRE tested to Approved Document F. Cowl and internal baffles reduce light and draughts. Manually controlled internal hit & miss ventilator. Cowl/grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-404mm L with air brick <b>Cowl:</b> 255mm L x 154mm H x 74mm D	3642mm <sup>2</sup> 36.42cm <sup>2</sup>	<b>Cowl:</b> WH, B/S, TC <b>Air Brick:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	 Irish Reg. Stat. 
Code: TAL9H&M 	<b>Rytons '9x9' Acoustic AirLiner® Set with Hit &amp; Miss Ventilator (38 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>38 dB (open and closed)</b> . Equivalent area BRE tested to Approved Document F. Internal baffles reduce light and draughts. Manually controlled internal hit & miss ventilator. Grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-404mm L with air brick <b>Hit &amp; Miss:</b> 271mm L x 247mm H	5580mm <sup>2</sup> 55.8cm <sup>2</sup>	<b>Air Brick:</b> GR, BL, B/S, TC, WH, BR, B/B <b>Hit &amp; Miss:</b> WH	 Irish Reg. Stat. 
Code: TAL9HMCWL 	<b>Rytons '9x9' Cowled Acoustic AirLiner® Set with Hit &amp; Miss Ventilator (40 dB)</b> Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - <b>40 dB (open)</b> , 41 dB (closed). Equivalent area BRE tested to Approved Document F. Cowl and internal baffles reduce light and draughts. Manually controlled internal hit & miss ventilator. Cowl/grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-404mm L with air brick <b>Cowl:</b> 274mm L x 235mm H x 103mm D	5000mm <sup>2</sup> 50cm <sup>2</sup>	<b>Cowl:</b> WH, B/S, TC <b>Air Brick:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	 Irish Reg. Stat. 

## Colour Key

GR Grey	BL Black	BS Buff/Sand	TC Terracotta	WH White	BR Brown	B/B Blue/Black
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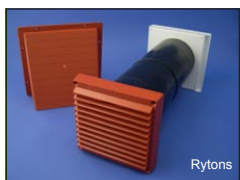



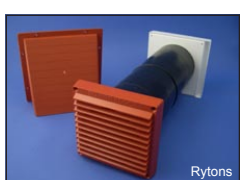



## Quick view guide to Rytons Standard Background Ventilators

Rytons Product	Product Code	Equivalent Area	Page
Rytons 125mm AirCore® with Hit & Miss Ventilator	AC10HM	5417mm <sup>2</sup>	9
Rytons Cowled 125mm AirCore® with Hit & Miss Ventilator	AC10HMCW	5440mm <sup>2</sup>	9
Rytons 125mm Baffled AirCore® with Hit & Miss Ventilator	AC7HM	5044mm <sup>2</sup>	9
Rytons Cowled 125mm Baffled AirCore® with Hit & Miss Ventilator	AC7HMCW	4404mm <sup>2</sup>	9
Rytons 125mm High Rise AirCore® with Hit & Miss Ventilator	ACH75HM	4371mm <sup>2</sup>	9
Rytons 150mm AirCore® with Hit & Miss Ventilator	AC11HM	5717mm <sup>2</sup>	10
Rytons Cowled 150mm AirCore® with Hit & Miss Ventilator	AC11HMCW	5236mm <sup>2</sup>	10
Rytons 150mm Baffled AirCore® with Hit & Miss Ventilator	AC9HM	5219mm <sup>2</sup>	10
Rytons Cowled 150mm Baffled AirCore® with Hit & Miss Ventilator	AC9HMCW	4353mm <sup>2</sup>	10
Rytons '9x3' Ventilation Set with Hit & Miss Ventilator	TC8H&M	4213mm <sup>2</sup>	11
Rytons '9x3' Cowled Ventilation Set with Hit & Miss Ventilator	TC8HMCW	4083mm <sup>2</sup>	11
Rytons '9x6' Ventilation Set with Hit & Miss Ventilator	TC18HM	8220mm <sup>2</sup>	11
Rytons '9x6' Cowled Ventilation Set with Hit & Miss Ventilator	TC18HCW	7936mm <sup>2</sup>	11
Rytons '9x9' Ventilation Set with Hit & Miss Ventilator	TC20HM	11196mm <sup>2</sup>	11
Rytons '9x9' Cowled Ventilation Set with Hit & Miss Ventilator	TC20HCW	11236mm <sup>2</sup>	11
Rytons Window Trickle Ventilator 440mm L	R4000	2580mm <sup>2</sup>	12
Rytons Window Trickle Ventilator 230mm L	R2000	1380mm <sup>2</sup>	12

All test data for controllable ventilators relates to the 'hit & miss' part in the **open** position.  
 All figures are reproduced in good faith and to the best of our knowledge are true and accurate.  
 Customers should satisfy themselves that the products are suitable for the intended purpose by using this information  
 in conjunction with Rytons Technical Data Sheets available from [www.vents.co.uk](http://www.vents.co.uk).



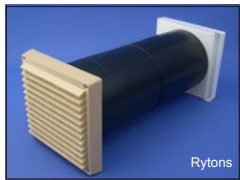

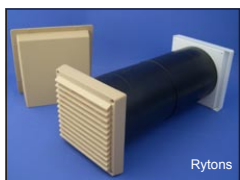

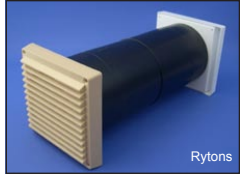

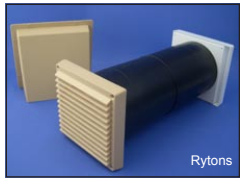

# Rytons 125mm Dia. AirCores® for Background Ventilation

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Equivalent Area	Colours	Approvals & Testing
Code: AC10HM 	<b>Rytons 125mm AirCore® with Hit &amp; Miss Ventilator</b> Background ventilator for a habitable room. Provides <b>over 5000mm²</b> equivalent area. Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 127mm Dia. x 358mm L <b>Hit &amp; Miss:</b> 177mm L x 173mm H	5417mm² 54.17cm²  U.V. stabilised	<b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AC10HMCW 	<b>Rytons Cowled 125mm AirCore® with Hit &amp; Miss Ventilator</b> Cowled background ventilator for a habitable room. Provides <b>over 5000mm²</b> equivalent area. Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Cowl reduces light and draughts. Core drilled - suitable for retrofit installations. Cowl/grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 127mm Dia. x 358mm L <b>Cowl:</b> 217mm L x 210mm H x 93mm D	5440mm² 54.4cm²  U.V. stabilised	<b>Cowl:</b> WH, B/S, TC <b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AC7HM 	<b>Rytons 125mm Baffled AirCore® with Hit &amp; Miss Ventilator</b> Background ventilator for a habitable room. Provides <b>over 5000mm²</b> equivalent area. Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Internal baffles reduce light and draughts. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 127mm Dia. x 358mm L <b>Hit &amp; Miss:</b> 177mm L x 173mm H	5044mm² 50.44cm²  U.V. stabilised	<b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AC7HMCW 	<b>Rytons Cowled 125mm Baffled AirCore® with Hit &amp; Miss Ventilator</b> Cowled background ventilator for a habitable room. Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Cowl and internal baffles reduce light and draughts. Core drilled - suitable for retrofit installations. Cowl/grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 127mm Dia. x 358mm L <b>Cowl:</b> 217mm L x 210mm H x 93mm D	4404mm² 44.04cm²  U.V. stabilised	<b>Cowl:</b> WH, B/S, TC <b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: ACH75HM 	<b>Rytons 125mm High Rise AirCore® with Hit &amp; Miss Ventilator</b> Background ventilator for a habitable room. Fitted from the inside for high level installations. Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Internal baffles reduce light and draughts. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 127mm Dia. x 358mm L <b>Hit &amp; Miss:</b> 177mm L x 173mm H	4371mm² 43.71cm²  U.V. stabilised	<b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre





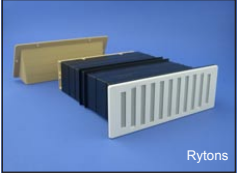



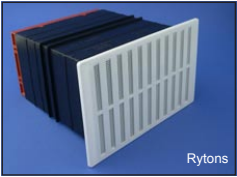



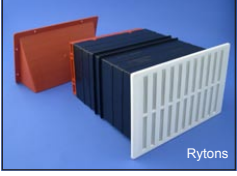



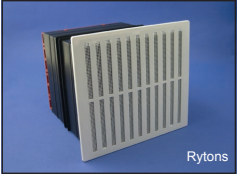


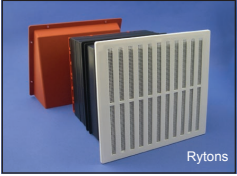


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# Rytons 150mm Dia. AirCores® for Background Ventilation

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Equivalent Area	Colours	Approvals & Testing
Code: AC11HM 	<b>Rytons 150mm AirCore® with Hit &amp; Miss Ventilator</b> Background ventilator for a habitable room. Provides <b>over 5000mm²</b> equivalent area. Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 151mm Dia. x 358mm L <b>Grilles:</b> 177mm L x 173mm H	5717mm² 57.17cm²  U.V. stabilised	<b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AC11HMCW 	<b>Rytons Cowled 150mm AirCore® with Hit &amp; Miss Ventilator</b> Cowled background ventilator for a habitable room. Provides <b>over 5000mm²</b> equivalent area. Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Cowl reduces light and draughts. Core drilled - suitable for retrofit installations. Cowl/grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 151mm Dia. x 358mm L <b>Cowl:</b> 217mm L x 210mm H x 93mm D	5236mm² 52.36cm²  U.V. stabilised	<b>Cowl:</b> WH, B/S, TC <b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AC9HM 	<b>Rytons 150mm Baffled AirCore® with Hit &amp; Miss Ventilator</b> Background ventilator for a habitable room. Provides <b>over 5000mm²</b> equivalent area. Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Internal baffles reduce light and draughts. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 151mm Dia. x 358mm L <b>Grilles:</b> 177mm L x 173mm H	5219mm² 52.19cm²  U.V. stabilised	<b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre
Code: AC9HMCW 	<b>Rytons Cowled 150mm Baffled AirCore® with Hit &amp; Miss Ventilator</b> Cowled background ventilator for a habitable room. Equivalent area BRE tested to Approved Document F. Manually controlled internal hit & miss ventilator. Cowl and internal baffles reduce light and draughts. Core drilled - suitable for retrofit installations. Cowl/grilles U.V. stabilised to protect against fading.	<b>Tube:</b> 151mm Dia. x 358mm L <b>Cowl:</b> 217mm L x 210mm H x 93mm D	4353mm² 43.53cm²  U.V. stabilised	<b>Cowl:</b> WH, B/S, TC <b>Ext. Grille:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	bre

# Rytons AirLiner® Sets for Background Ventilation

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Equivalent Area	Colours	Approvals & Testing
Code: TC8H&M 	<b>Rytons '9x3' Ventilation Set with Hit &amp; Miss Ventilator</b> Background ventilator for a habitable room. Equivalent area BRE tested to Approved Document F. Internal baffle reduces light and draughts. Manually controlled internal hit & miss ventilator. Grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-368mm L with air brick <b>Hit &amp; Miss:</b> 271mm L x 95mm H	4213mm <sup>2</sup> 42.13cm <sup>2</sup>  U.V. stabilised	<b>Air Brick:</b> GR, BL, B/S, TC, WH, BR, B/B <b>Hit &amp; Miss:</b> WH	 Irish Reg. Stat. 
Code: TC8HMCW 	<b>Rytons '9x3' Cowled Ventilation Set with Hit &amp; Miss Ventilator</b> Cowled background ventilator for a habitable room. Equivalent area BRE tested to Approved Document F. Cowl and internal baffle reduces light and draughts. Manually controlled internal hit & miss ventilator. Cowl/grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-368mm L with air brick <b>Cowl:</b> 255mm L x 96mm H x 44mm D	4083mm <sup>2</sup> 40.83cm <sup>2</sup>  U.V. stabilised	<b>Cowl:</b> B/S, TC <b>Air Brick:</b> B/S, TC <b>Hit &amp; Miss:</b> WH	 Irish Reg. Stat. 
Code: TC18HM 	<b>Rytons '9x6' Ventilation Set with Hit &amp; Miss Ventilator</b> Background ventilator for a habitable room. Provides <b>over 8000mm<sup>2</sup></b> equivalent area. Equivalent area BRE tested to Approved Document F. Internal baffles reduce light and draughts. Manually controlled internal hit & miss ventilator. Grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-404mm L with air brick <b>Hit &amp; Miss:</b> 271mm L x 171mm H	8220mm <sup>2</sup> 82.2cm <sup>2</sup>  U.V. stabilised	<b>Air Brick:</b> GR, BL, B/S, TC, WH, BR, B/B <b>Hit &amp; Miss:</b> WH	 Irish Reg. Stat. 
Code: TC18HCW 	<b>Rytons '9x6' Cowled Ventilation Set with Hit &amp; Miss Ventilator</b> Cowled background ventilator for a habitable room. Provides <b>over 7000mm<sup>2</sup></b> equivalent area. Equivalent area BRE tested to Approved Document F. Cowl and internal baffles reduce light and draughts. Manually controlled internal hit & miss ventilator. Cowl/grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-404mm L with air brick <b>Cowl:</b> 255mm L x 154mm H x 74mm D	7936mm <sup>2</sup> 79.36cm <sup>2</sup>  U.V. stabilised	<b>Cowl:</b> WH, B/S, TC <b>Air Brick:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	 Irish Reg. Stat. 
Code: TC20HM 	<b>Rytons '9x9' Ventilation Set with Hit &amp; Miss Ventilator</b> Background ventilator for a habitable room. Provides <b>over 11000mm<sup>2</sup></b> equivalent area. Equivalent area BRE tested to Approved Document F. Internal baffles reduce light and draughts. Manually controlled internal hit & miss ventilator. Grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-404mm L with air brick <b>Hit &amp; Miss:</b> 271mm L x 247mm H	11196mm <sup>2</sup> 111.96cm <sup>2</sup>  U.V. stabilised	<b>Air Brick:</b> GR, BL, B/S, TC, WH, BR, B/B <b>Hit &amp; Miss:</b> WH	
Code: TC20HCW 	<b>Rytons '9x9' Cowled Ventilation Set with Hit &amp; Miss Ventilator</b> Cowled background ventilator for a habitable room. Provides <b>over 11000mm<sup>2</sup></b> equivalent area. Equivalent area BRE tested to Approved Document F. Cowl and internal baffles reduce light and draughts. Manually controlled internal hit & miss ventilator. Cowl/grilles U.V. stabilised to protect against fading.	<b>Extends from</b> 250-404mm L with air brick <b>Cowl:</b> 274mm L x 235mm H x 103mm D	11236mm <sup>2</sup> 112.36cm <sup>2</sup>  U.V. stabilised	<b>Cowl:</b> WH, B/S, TC <b>Air Brick:</b> WH, B/S, TC <b>Hit &amp; Miss:</b> WH	

## Colour Key

GR Grey	BL Black	BS Buff/Sand	TC Terracotta	WH White	BR Brown	B/B Blue/Black
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# Rytons Window Trickle Ventilators, Intumescent RytBlocks and Accessories

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Free Area	Colours	Approvals & Testing
Code: R4000 	<b>Rytons Window Trickle Ventilator</b> Through window ventilator for a habitable room. Equivalent area BRE tested to Approved Document F. Surface mounted over milled out slots in the frame. Manually controlled internal drum. Fixing screws and caps included. U.V. stabilised against deterioration by sunlight.	440mm L x 24mm D x 22mm H	<b>Equivalent Area</b> 2580mm <sup>2</sup> 25.8cm <sup>2</sup>  U.V. stabilised	WH, BR	
Code: R2000 	<b>Rytons Window Trickle Ventilator</b> Through window ventilator for a habitable room. Equivalent area BRE tested to Approved Document F. Surface mounted over milled out slots in the frame. Manually controlled internal drum. Fixing screws and caps included. U.V. stabilised against deterioration by sunlight.	230mm L x 24mm D x 22mm H	<b>Equivalent Area</b> 1380mm <sup>2</sup> 13.8cm <sup>2</sup>  U.V. stabilised	WH, BR	
Code: ACFIRE 	<b>Rytons 125mm AirCore® Intumescent RytBlock</b> Heavy duty intumescent grille for walls and ducts. Slats fuse together and seal in 2 minutes. Gives 3 hours protection preventing the passage of smoke and gases. Temperature increase insulated for 22 minutes. May be used in high humidity. Compatible with Rytons 125mm AirCores®.	118mm Dia. x 43mm D	5150mm <sup>2</sup> 51.5cm <sup>2</sup>  Fire retardant	Steel grey	
Code: TL8FIRE 	<b>Rytons '9x3' Intumescent RytBlock</b> Heavy duty intumescent grille for walls and ducts. Slats fuse together and seal in 2 minutes. Gives 3 hours protection preventing the passage of smoke and gases. Temperature increase insulated for 22 minutes. May be used in high humidity. Compatible with Rytons '9x3' AirLiners®.	206mm L x 58mm H x 44mm D	5330mm <sup>2</sup> 53.3cm <sup>2</sup>  Fire retardant	Steel grey	
Code: TL16FIRE 	<b>Rytons '9x6' Intumescent RytBlock</b> Heavy duty intumescent grille for walls and ducts. Slats fuse together and seal in 2 minutes. Gives 3 hours protection preventing the passage of smoke and gases. Temperature increase insulated for 22 minutes. May be used in high humidity. Compatible with Rytons '9x6' AirLiners®.	206mm L x 124mm H x 44mm D	13390mm <sup>2</sup> 133.9cm <sup>2</sup>  Fire retardant	Steel grey	
Code: TCL96EXT 	<b>Rytons '9x6' AirLiner® Extension</b> Horizontal extension for Rytons '9x6' AirLiners®. Easily installed with no extra fitting required. May be cut to length.	1000mm L x 222mm W x 140mm H	Not applicable	BL	

# Rytons AirCore® Components

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Free Area	Colours	Approvals & Testing
Code: ABC8 	<b>Rytons AirCore® Cowl</b> Surface mounted cover for openings, air bricks, grilles and vents. Protects against excessive weather conditions. Alleviates air blasts through the cavity. Textured roughcast finish. U.V. stabilised to protect against fading.	217mm L x 210mm H x 93mm D	16000mm <sup>2</sup> 160cm <sup>2</sup>  U.V. stabilised	B/S, TC, WH	
Code: LV110 	<b>Rytons 125mm AirCore® Louvre '6x6'</b> Multi-purpose louvre grille. Fixed open louvres allow high air flow. Compatible with Rytons '6x6' Backplate (APBACK). Embossed with DO NOT BLOCK. For internal and external use. U.V. stabilised to protect against fading.	166mm L x 160mm H x 34mm D (inc. louvres)	10600mm <sup>2</sup> 106cm <sup>2</sup>  U.V. stabilised	WH, B/S, TC	 Irish Reg. Stat.
Code: APBACK 	<b>Rytons '6x6' Louvre Backplate with 122mm Dia. Spigot</b> Backplate with 122mm dia. tube connector. Compatible with Rytons Louvre Ventilators '6x6' (LV110, LV103 and LV74F). Connects to Rytons 125mm AirCore® Tubes (AC10TUBE and AC7TUBE) and suits Rytons 125mm dia. RythHose range.	162mm L x 157mm H x 122mm Dia. male spigot	10900mm <sup>2</sup> 109cm <sup>2</sup>	WH	 Irish Reg. Stat.
Code: LVR75 	<b>Rytons 125mm Round Louvre Ventilator</b> Round louvre grille. Low profile fixed open louvres allow high air flow. Compatible with Rytons 125mm AirCore® Tubes (AC10TUBE and AC7TUBE). For external and internal use. U.V. stabilised to protect against fading.	124mm Dia. x 43mm D (inc. louvres)	8000mm <sup>2</sup> 80cm <sup>2</sup>  U.V. stabilised	WH, B/S, TC	 Irish Reg. Stat.
Available Bar Coded and Bagged for Display - Code LVR75BG					
Code: AC10TUBE 	<b>Rytons 125mm AirCore® Tube</b> Rigid tube. External baffle prevents water transfer across the cavity. Use Rytons Backplates (APBACK and HMBACK125) to connect Rytons vents LV110 and HM51F. Connects to Rytons Round Louvre Vent (LVR75).	124mm Internal Dia. 127mm External Dia. x 358mm L	11600mm <sup>2</sup> 116cm <sup>2</sup>	BL	 Irish Reg. Stat.
Code: AC7TUBE 	<b>Rytons 125mm Baffled AirCore® Tube</b> Rigid tube containing light and draught reducing baffles. External baffle prevents water transfer across the cavity. Use Rytons Backplates (APBACK and HMBACK125) to connect Rytons vents LV110 and HM51F. Connects to Rytons Round Louvre Vent (LVR75).	124mm Internal Dia. 127mm External Dia. x 358mm L	10300mm <sup>2</sup> 103cm <sup>2</sup>	BL	 Irish Reg. Stat.
Code: ACCONNECT 	<b>Rytons 125mm AirCore® Tube Connector</b> Connects Rytons 125mm AirCore® Tubes (AC10TUBE and AC7TUBE) together. Push fit connection.	122mm Dia.	10900mm <sup>2</sup> 109cm <sup>2</sup>	WH	

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# Rytons AirCore® Components

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Free Area	Colours	Approvals & Testing
Code: HMBACK125 	<b>Rytons '7x7' Hit &amp; Miss Backplate with 122mm Dia. Spigot</b> Backplate with 122mm dia. tube connector. Compatible with Rytons Hit & Miss Ventilator '7x7' (HM51F). Connects to Rytons 125mm AirCore® Tubes (AC10TUBE and AC7TUBE) and suits Rytons 125mm dia. RythHose range.	160mm L x 166mm H x 122mm Dia. male spigot	14100mm <sup>2</sup> 141cm <sup>2</sup>	WH	
Code: HM51F 	<b>Rytons Hit &amp; Miss Ventilator '7x7'</b> Adjustable background ventilator for rooms. Small space and cupboard ventilator. Flush faced for a neat internal appearance. Integral flyscreen with concealed fixings. Compatible with Rytons Hit & Miss Backplates (HMBACK125 and HMBACK150). U.V. stabilised against deterioration by sunlight.	177mm L x 173mm H x 23mm D	5166mm <sup>2</sup> 51.66cm <sup>2</sup>  U.V. stabilised Available Bar Coded and Bagged for Display - Code HM51FBG	WH	
Code: LV120 	<b>Rytons 150mm AirCore® Louvre '7x7'</b> Multi-purpose louvre grille. Fixed open louvres allow high air flow. Compatible with Rytons '7x7' Backplate (LVBACK150). Embossed with DO NOT BLOCK. For internal and external use. U.V. stabilised to protect against fading.	177mm L x 173mm H x 34mm D (inc. louvres)	11995mm <sup>2</sup> 119.95cm <sup>2</sup>  U.V. stabilised	WH, B/S, TC	
Code: LVBACK150 	<b>Rytons '7x7' Louvre Backplate with 144mm Dia. Spigot</b> Backplate with 144mm dia. tube connector. Compatible with Rytons Louvre Ventilator '7x7' (LV120). Connects to Rytons 150mm AirCore® Tubes (AC11TUBE and AC9TUBE) and suits Rytons 150mm dia. RythHose range.	173mm L x 169mm H x 144mm Dia. male spigot	15300mm <sup>2</sup> 153cm <sup>2</sup>	WH	
Code: AC11TUBE 	<b>Rytons 150mm AirCore® Tube</b> Rigid tube. External baffle prevents water transfer across the cavity. Use Rytons Backplates (LVBACK150 and HMBACK150) to connect Rytons vents LV120 and HM51F.	145mm Internal Dia. 151mm External Dia. x 358mm L	16500mm <sup>2</sup> 165cm <sup>2</sup>	BL	
Code: AC9TUBE 	<b>Rytons 150mm Baffled AirCore® Tube</b> Rigid tube containing light and draught reducing baffles. External baffle prevents water transfer across the cavity. Use Rytons Backplates (LVBACK150 and HMBACK150) to connect Rytons vents LV120 and HM51F.	145mm Internal Dia. 151mm External Dia. x 358mm L	13100mm <sup>2</sup> 131cm <sup>2</sup>	BL	
Code: HMBACK150 	<b>Rytons '7x7' Hit &amp; Miss Backplate with 144mm Dia. Spigot</b> Backplate with 144mm dia. tube connector. Compatible with Rytons Hit & Miss Ventilator '7x7' (HM51F). Connects to Rytons 150mm AirCore® Tubes (AC11TUBE and AC9TUBE) and suits Rytons 150mm dia. RythHose range.	160mm L x 166mm H x 144mm Dia. male spigot	15300mm <sup>2</sup> 153cm <sup>2</sup>	WH	



## Notes

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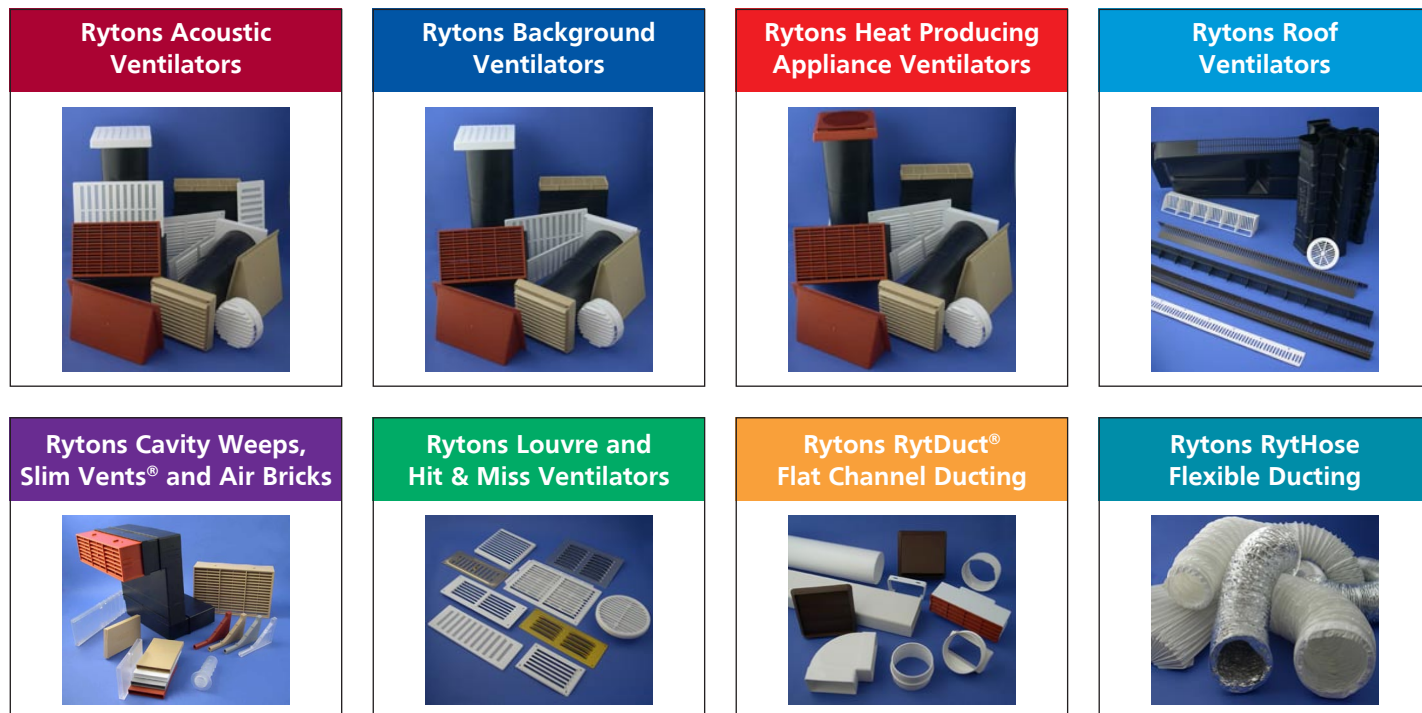


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