



Ryttons Acoustic Ventilators

For Background Room Ventilation and Ventilating Heat Producing Appliances

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

Look out for:
Ryttons Background Ventilators
Ryttons Heat Producing Appliance Ventilators

For more information call **01536 511874**
or go to:

www.vents.co.uk



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Approvals, Choice and Quality

Fast, Free Delivery

Fast delivery means shorter lead times as orders confirmed before 3pm are dispatched the same day and 99.2%* arrive the next working day at no extra charge. Free delivery is available on orders of just £50 nett to any address on the UK mainland – including sites. Orders to Northern Ireland and the Republic of Ireland will normally be delivered in 2-3 working days.

* 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.

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All Rytons products are neither hazardous to health nor harmful to the environment when used correctly. Rytons reserve the right to improve specifications from time to time without prior notice. All information is given in good faith and to the best of our knowledge is true and accurate. Since delivery dates, the use of products and control of the labour involved is outside our control, no warranty is given nor should Rytons representatives or agents imply any warranty. Customers should also satisfy themselves that the products are suitable for the intended purpose.

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

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Any communication regarding the above should be directed to Rytons Building Products Ltd, Design House, Kettering Business Park, Kettering, NN15 6NL



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?

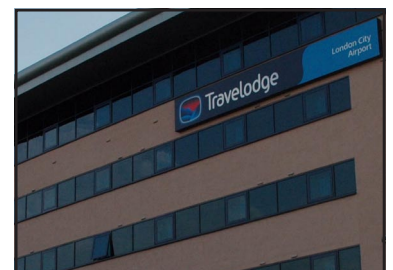
There are now ventilation products available to help you meet the requirements of The Building Regulations Approved Document E *Resistance to the passage of sound*. However Rytons believe it shouldn't be necessary to sacrifice the appearance of the building, or the provision of effective and vital ventilation 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.



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Extracts from The Building Regulations Approved Document F, Means of ventilation, 2006 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.

Section 0: General guidance

The purpose of ventilation

0.6 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.

0.7 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

0.16 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.

0.17 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 area and free area of ventilators

0.24 Equivalent area has been introduced into the Approved Document instead of free area for the sizing of background ventilators (including trickle ventilators). Equivalent area is a better measure of the airflow performance of a ventilator. A new European Standard, BS EN 13141-1:2004 (Clause 4) includes a method of measuring the equivalent area of background ventilation openings. **Note: All Rytons background ventilator sets (including acoustic) have equivalent area measurements calculated by the BRE at 1Pa to BS EN 13141-1:2004.**

Section 1: Dwellings

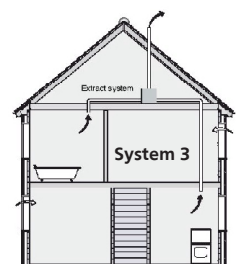
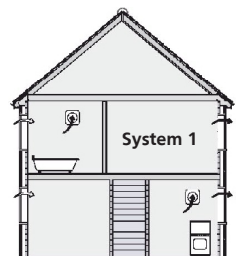
Ventilation systems for dwellings without basements

Step 1: Select one of the four ventilation systems. **Note: 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 building ventilation is set out in Table 1.2a. Note that it includes separate guidance for dwellings with only a single exposed façade. See Appendix E for installation guidance for intermittent extract fans. **Note: Rytons is able to supply the non-mechanical aspects to achieve System 1.**

System 3: Continuous mechanical extract. Guidance on minimum provisions for extract and whole building ventilation is set out in Table 1.2c. **Note: Rytons is able to supply the non-mechanical aspects to achieve System 3.**

Note: Please refer to Approved Document F for details of System 2: Passive stack ventilation and System 4: Continuous mechanical supply and extract with heat recovery.



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 and we can work out the amount of ventilation required and recommend the most suitable Rytons background ventilator for each room.

Alternatively, if you don't have drawings just tell us the following information:-

- Total floor area: In M² (all floor areas combined).
 - Dwelling Type: Single storey located up to 4 storeys above ground level.
Multi storey or located above 4 storeys above ground level.
 - No of Bedrooms:
 - No of Façades:
- Please also make us aware of any acoustic conditions 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.

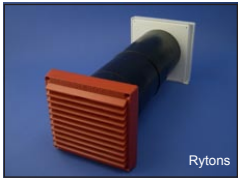

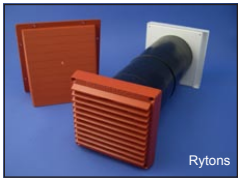



Quick view guide to Rytons Acoustic Ventilators for Background Ventilation

Rytons Product	Product Code	D n,e,w	Equivalent Area	Page
Rytons 125mm Acoustic AirCore® with Hit & Miss Ventilator	AAC5HM	39 dB	3633mm ²	6
Rytons Cowled 125mm Acoustic AirCore® with Hit & Miss Ventilator	AAC5HMCW	39 dB	3856mm ²	6
Rytons 125mm Acoustic High Rise AirCore® with Hit & Miss Ventilator	AAH5HM	39 dB	3248mm ²	6
Rytons 150mm Acoustic AirCore® with Hit & Miss Ventilator	AAC625HM	36 dB	5187mm ²	7
Rytons Cowled 150mm Acoustic AirCore® with Hit & Miss Ventilator	AAC625HMCW	38 dB	4991mm ²	7
Rytons 150mm Acoustic AirCore® with Hit & Miss Ventilator	AAC635HM	41 dB	4350mm ²	7
Rytons Cowled 150mm Acoustic AirCore® with Hit & Miss Ventilator	AAC635HMCW	42 dB	3752mm ²	7
Rytons '9x3' Acoustic AirLiner® Set with Hit & Miss Ventilator	TAL4H&M	38 dB	2305mm ²	8
Rytons '9x3' Cowled Acoustic AirLiner® Set with Hit & Miss Ventilator	TAL4HMCWL	39 dB	2213mm ²	8
Rytons '9x6' Acoustic AirLiner® Set with Hit & Miss Ventilator	TALH&M	39 dB	3749mm ²	8
Rytons '9x6' Cowled Acoustic AirLiner® Set with Hit & Miss Ventilator	TALHMCW	42 dB	3642mm ²	8
Rytons '9x9' Acoustic AirLiner® Set with Hit & Miss Ventilator	TAL9H&M	38 dB	5580mm ²	8
Rytons '9x9' Cowled Acoustic AirLiner® Set with Hit & Miss Ventilator	TAL9HMCWL	40 dB	5000mm ²	8

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.

Rytons 125mm Dia. Acoustic AirCores® for Background Ventilation

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Equivalent Area	Colours	Approvals & Testing
Code: AAC5HM 	Rytons 125mm Acoustic AirCore® with Hit & Miss Ventilator (39 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 39 dB (open) , 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.	Tube: 127mm Dia. x 358mm L Hit & Miss: 177mm L x 173mm H	3633mm ² 36.33cm ²	Ext. Grille: WH, B/S, TC Hit & Miss: WH	
Code: AAC5HMCW 	Rytons Cowlled 125mm Acoustic AirCore® with Hit & Miss Ventilator (39 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 39 dB (open) , 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.	Tube: 127mm Dia. x 358mm L Cowl: 217mm L x 210mm H x 93mm D	3856mm ² 38.56cm ²	Cowl: WH, B/S, TC Ext. Grille: WH, B/S, TC Hit & Miss: WH	
Code: AAH5HM 	Rytons 125mm Acoustic High Rise AirCore® with Hit & Miss Ventilator (39 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 39 dB (open) , 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.	Tube: 127mm Dia. x 358mm L Hit & Miss: 177mm L x 173mm H	3248mm ² 32.48cm ²	Ext. Grille: WH, B/S, TC Hit & Miss: WH	

Note: Converted octave band data for low, medium and high level frequency bands can be found on page 5.



U.V. stabilised

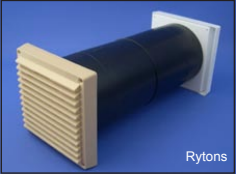


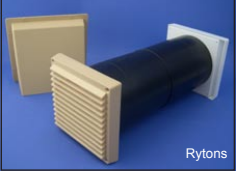


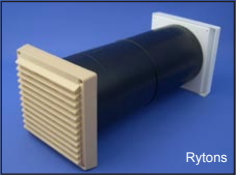


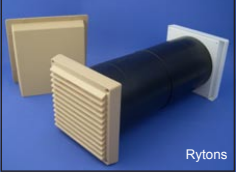




U.V. stabilised



U.V. stabilised

Rytons 150mm Dia. Acoustic AirCores® for Background Ventilation

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Equivalent Area	Colours	Approvals & Testing	
Code: AAC625HM 	Rytons 150mm Acoustic AirCore® with Hit & Miss Ventilator (36 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 36 dB (open) , 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.	Tube: 151mm Dia. x 358mm L Grilles: 177mm L x 173mm H	5187mm ² 51.87cm ²	Ext. Grille: WH, B/S, TC Hit & Miss: WH	 U.V. stabilised	
Code: AAC625HMCW 	Rytons Cowlled 150mm Acoustic AirCore® with Hit & Miss Ventilator (38 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 38 dB (open) , 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.	Tube: 151mm Dia. x 358mm L Cowl: 217mm L x 210mm H x 93mm D	4991mm ² 49.91cm ²	Cowl: WH, B/S, TC Ext. Grille: WH, B/S, TC Hit & Miss: WH	 U.V. stabilised	
Code: AAC635HM 	Rytons 150mm Acoustic AirCore® with Hit & Miss Ventilator (41 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 41 dB (open) . 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.	Tube: 151mm Dia. x 358mm L Grilles: 177mm L x 173mm H	4350mm ² 43.5cm ²	Ext. Grille: WH, B/S, TC Hit & Miss: WH	 U.V. stabilised	
Code: AAC635HMCW 	Rytons Cowlled 150mm Acoustic AirCore® with Hit & Miss Ventilator (42 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 42 dB (open) . 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.	Tube: 151mm Dia. x 358mm L Cowl: 217mm L x 210mm H x 93mm D	3752mm ² 37.52cm ²	Cowl: WH, B/S, TC Ext. Grille: WH, B/S, TC Hit & Miss: WH	 U.V. stabilised	






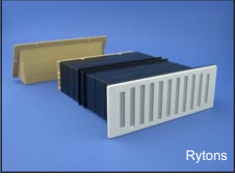


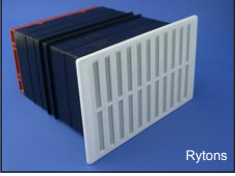


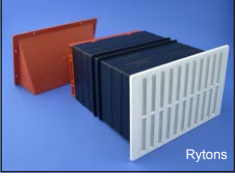


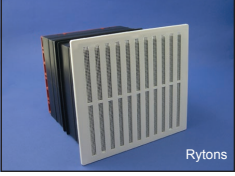

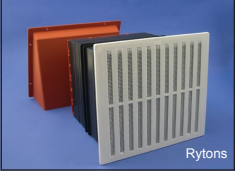

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Rytons Acoustic AirLiner® Sets for Background Ventilation

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Equivalent Area	Colours	Approvals & Testing
Code: TAL4H&M 	Rytons '9x3' Acoustic AirLiner® Set with Hit & Miss Ventilator (38 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 38 dB (open) , 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.	Extends from 250-368mm L with air brick Hit & Miss: 271mm L x 95mm H	2305mm ² 23.05cm ²	Air Brick: GR, BL, B/S, TC, WH, BR, B/B Hit & Miss: WH	 Irish Reg. Stat. 
Code: TAL4HMCWL 	Rytons '9x3' Cowlled Acoustic AirLiner® Set with Hit & Miss Ventilator (39 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 39 dB (open) , 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.	Extends from 250-368mm L with air brick Cowl: 255mm L x 96mm H x 44mm D	2213mm ² 22.13cm ²	Cowl: B/S, TC Air Brick: B/S, TC Hit & Miss: WH	 Irish Reg. Stat. 
Code: TALH&M 	Rytons '9x6' Acoustic AirLiner® Set with Hit & Miss Ventilator (39 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 39 dB (open) , 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.	Extends from 250-404mm L with air brick Hit & Miss: 271mm L x 171mm H	3749mm ² 37.49cm ²	Air Brick: GR, BL, B/S, TC, WH, BR, B/B Hit & Miss: WH	 Irish Reg. Stat. 
Code: TALHMCWL 	Rytons '9x6' Cowlled Acoustic AirLiner® Set with Hit & Miss Ventilator (42 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 42 dB (open and 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.	Extends from 250-404mm L with air brick Cowl: 255mm L x 154mm H x 74mm D	3642mm ² 36.42cm ²	Cowl: WH, B/S, TC Air Brick: WH, B/S, TC Hit & Miss: WH	 Irish Reg. Stat. 
Code: TAL9H&M 	Rytons '9x9' Acoustic AirLiner® Set with Hit & Miss Ventilator (38 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 38 dB (open and 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.	Extends from 250-404mm L with air brick Hit & Miss: 271mm L x 247mm H	5580mm ² 55.8cm ²	Air Brick: GR, BL, B/S, TC, WH, BR, B/B Hit & Miss: WH	
Code: TAL9HMCWL 	Rytons '9x9' Cowlled Acoustic AirLiner® Set with Hit & Miss Ventilator (40 dB) Acoustic background ventilator for a habitable room. BRE tested $D_{n,e,w}$ - 40 dB (open) , 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.	Extends from 250-404mm L with air brick Cowl: 274mm L x 235mm H x 103mm D	5000mm ² 50cm ²	Cowl: WH, B/S, TC Air Brick: WH, B/S, TC Hit & Miss: WH	

Colour Key

GR Grey	BL Black	BS Buff/Sand	TC Terracotta	WH White	BR Brown	B/B Blue/Black
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Ventilating Heat Producing Appliances ... Don't Take a Chance!

Carbon Monoxide (CO) – you can't taste it, smell it or see it but it is a highly poisonous gas and undetected it can and *has* caused death and lasting health problems. CO forms when a fuel-burning appliance has an insufficient air supply – any fuel (gas, oil, coal, wood) any appliance (boiler, stove, room heater, water heater).

Sufficient and efficient ventilation is paramount to safe combustion. Rytons believe manufacturers have an absolute responsibility for providing accurate and **verifiable** air space calculations for their products. Taking the lead **all** Rytons through-wall appliance ventilators are independently tested by Advantica (previously known as British Gas Technologies and now GL Industrial Services) or the BRE (Building Research Establishment) and have an **equivalent free area** calculation as opposed to just a *free area*, which is simply a physical measurement and found by British Standards to be inaccurate in many instances.

HETAS agrees telling Rytons "It is very important to select the correct vent for the job. This means the actual air that can be provided through the vent in order to meet the requirements of Building Regulations and Standards. Installers should take care to ensure they are using a ventilator with an air provision based on 'Equivalent Area' rather than "Free Area". We are supportive of manufacturers who provide the right information with their products in order to assist our engineers in making the right choices."



Jim Lambeth, Technical Manager for the Solid Fuel Association told Rytons, "What is important to note is the actual air which can be transported through the vent not its physical size. Installers should take care to ensure they note the ventilator's 'Equivalent Area', sometimes also known as 'Effective Free Area', rather than simply 'Free Area' often quoted in sales literature."

Once installed it is essential that the ventilators remain clear, however with energy prices so high there may be a temptation to block the vents to keep the house warm. Rytons internal and external grilles are stamped with DO NOT BLOCK as a reminder to homeowners, and ventilation sets are offered with a wide range of cowls and internal baffle systems to alleviate draughts and keep the atmosphere comfortable.



Rytons aim is to make their ventilators as unobtrusive as possible with sets available in two styles (127mm and 151mm dia. AirCores® for retrofit installations and '9x3', '9x6' and '9x9' AirLiner® Sets for new build) and a choice of external grille to maintain the aesthetic appearance.

Rytons is proud to have 28 through-wall appliance ventilation sets approved by HETAS for use with solid fuel. These are the only products on the market with HETAS approval and the **only** ventilators recommended by HETAS to their registered engineers. Many also have BBA (British Board of Agrément) approval - independent assurances that products perform.

Other preventative steps recommended by the Carbon Monoxide – Be Alarmed! campaign

- Fit an audible alarm
- Have your appliance checked regularly
- Note any signs of change around your appliance
- Learn to recognise the symptoms of CO poisoning



For more information see www.co-bealarmed.co.uk

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.

Quick view guide to Rytons Acoustic Ventilators for Heat Producing Appliance and Room Ventilation

Rytons Product	Product Code	D n,e,w	Equivalent Area	Page
Rytons 125mm Acoustic AirCore®	AAC5	39 dB	3970mm ²	11
Rytons Cowled 125mm Acoustic AirCore®	AAC5CWL	40 dB	3940mm ²	11
Rytons 125mm Acoustic High Rise AirCore®	AAH5	41 dB	3880mm ²	11
Rytons 150mm Acoustic AirCore®	AAC625	36 dB	7906mm ²	12
Rytons Cowled 150mm Acoustic AirCore®	AAC625CW	38 dB	7511mm ²	12
Rytons 150mm Acoustic AirCore®	AAC635	41 dB	5412mm ²	12
Rytons Cowled 150mm Acoustic AirCore®	AAC635CW	42 dB	5248mm ²	12
Rytons '9x3' Acoustic AirLiner® Set with Flush Louvre Ventilator	TAL4SET	38 dB	2590mm ²	13
Rytons '9x3' Cowled Acoustic AirLiner® Set with Flush Louvre Ventilator	TAL4CWL	39 dB	2580mm ²	13
Rytons '9x6' Acoustic AirLiner® Set with Flush Louvre Ventilator	TALSET	39 dB	3965mm ²	13
Rytons '9x6' Cowled Acoustic AirLiner® Set with Flush Louvre Ventilator	TALCWL	42 dB	4033mm ²	13
Rytons '9x9' Acoustic AirLiner® Set with Louvre Ventilator	TAL9SET	38 dB	7171mm ²	13
Rytons '9x9' Cowled Acoustic AirLiner® Set with Louvre Ventilator	TAL9CWL	40 dB	6954mm ²	13

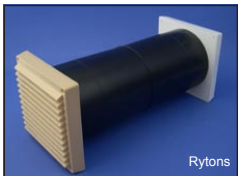
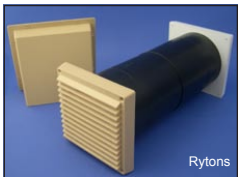

Product Code	D n,e,w (dB)	Converted Octave Band Value (dB)						
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
AAC5	39	34.5	42.9	35	32.7	46.5	59.5	64.7
AAC5CWL	40	34.5	41.8	32.9	33.6	51.6	63.8	68.1
AAH5	41	-	43.8	40.2	35.9	42.1	63.9	62.9
AAC625	36	33.4	40.9	32.8	29.9	45.8	52.3	57.9
AAC625CW	38	33.6	40.3	29.9	32	52.6	57.8	61.9
AAC635	41	33.8	41.8	35.1	34.8	51.9	60.5	63.9
AAC635CW	42	33.6	41.1	32.6	38.6	56.3	65.4	68.7
TAL4SET	38	35.1	43	42.3	35.8	37.7	40.2	45.1
TAL4CWL	39	35	43.2	42.8	37.1	37.8	40.9	49
TALSET	39	35.8	38.3	35.2	34.4	41.2	48.8	53.8
TALCWL	42	36.2	38.9	35.7	36.2	43.7	51.7	57.8
TAL9SET	38	35	37.4	31	33.8	39.5	46.2	52.3
TAL9CWL	40	34.6	38.2	31.7	33.9	43.3	51.6	56.6

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.



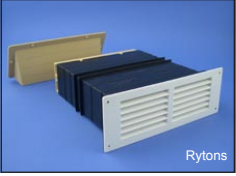

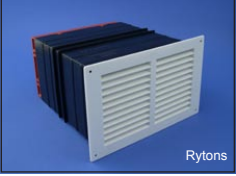


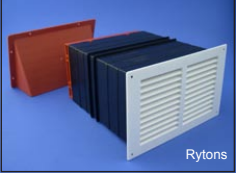


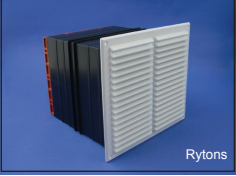


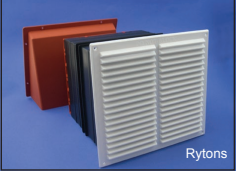


Rytons 125mm Dia. Acoustic AirCores® for Heat Producing Appliance and Room Ventilation

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Equivalent Area	Colours	Approvals & Testing
Code: AAC5 	<p>Rytons 125mm Acoustic AirCore® (39 dB) Combustion air vent for heat producing appliances. Acoustic lining reduces sound to 39 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by Advantica. HETAS approved for use with solid fuel appliances. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.</p> <p>New Gold and Chrome effect Internal Louvres Available Now - see below</p>	<p>Tube: 127mm Dia. x 358mm L Grilles: 166mm L x 160mm H</p>	3970mm ² 39.7cm ²	<p>Ext. Grille: WH, B/S, TC Int. Grille: WH</p>	   
Code: AAC5CWL 	<p>Rytons Cowed 125mm Acoustic AirCore® (40 dB) Combustion air vent for heat producing appliances. External cowl reduces light and draughts. Acoustic lining reduces sound to 40 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by Advantica. HETAS approved for use with solid fuel appliances. Core drilled - suitable for retrofit installations. Cowl/grilles U.V. stabilised to protect against fading.</p> <p>New Gold and Chrome effect Internal Louvres Available Now - see below</p>	<p>Tube: 127mm Dia. x 358mm L Cowl: 217mm L x 210mm H x 93mm D</p>	3940mm ² 39.4cm ²	<p>Cowl: WH, B/S, TC Ext. Grille: WH, B/S, TC Int. Grille: WH</p>	   
Code: AAH5 	<p>Rytons 125mm Acoustic High Rise AirCore® (41 dB) Combustion air vent for heat producing appliances. Fitted from the inside for high level installations. Acoustic lining reduces sound to 41 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by Advantica. HETAS approved for use with solid fuel appliances. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.</p> <p>New Gold and Chrome effect Internal Louvres Available Now - see below</p>	<p>Tube: 127mm Dia. x 358mm L Int. Grille: 166mm L x 160mm H</p>	3880mm ² 38.8cm ²	<p>Ext. Grille: WH, B/S, TC Int. Grille: WH</p>	   
Code: LV110GLD LV110CHR 	<p>Rytons Deep Profiled Louvre Ventilator '6x6' Plastic louvre grille with quality gold and chrome effect finish. Stylish alternative to a white internal grille. Features fixed open louvres for use with Rytons 125mm Dia. combustion air vents. Simple replacement for white internal grille supplied. Embossed with DO NOT BLOCK. For internal use only.</p>	166mm L x 160mm H x 34mm D (inc. louvres)	10600mm ² 106cm ² Free Area	Gold, Chrome	 <p style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;">new</p>

Rytons 150mm Dia. Acoustic AirCores® for Heat Producing Appliance and Room Ventilation

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Equivalent Area	Colours	Approvals & Testing
Code: AAC625 	Rytons 150mm Acoustic AirCore® (36 dB) Combustion air vent for heat producing appliances. Acoustic lining reduces sound to 36 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by the BRE. HETAS approved for use with solid fuel appliances. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.	Tube: 151mm Dia. x 358mm L Grilles: 177mm L x 173mm H	7906mm ² 79.06cm ²	Ext. Grille: WH, B/S, TC Int. Grille: WH	 
Code: AAC625CW 	Rytons Cowlled 150mm Acoustic AirCore® (38 dB) Combustion air vent for heat producing appliances. External cowl reduces light and draughts. Acoustic lining reduces sound to 38 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by the BRE. HETAS approved for use with solid fuel appliances. Core drilled - suitable for retrofit installations. Cowl/grilles U.V. stabilised to protect against fading.	Tube: 151mm Dia. x 358mm L Cowl: 217mm L x 210mm H x 93mm D	7511mm ² 75.11cm ²	Cowl: WH, B/S, TC Ext. Grille: WH, B/S, TC Int. Grille: WH	 
Code: AAC635 	Rytons 150mm Acoustic AirCore® (41 dB) Combustion air vent for heat producing appliances. Acoustic lining reduces sound to 41 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by the BRE. HETAS approved for use with solid fuel appliances. Core drilled - suitable for retrofit installations. Grilles U.V. stabilised to protect against fading.	Tube: 151mm Dia. x 358mm L Grilles: 177mm L x 173mm H	5412mm ² 54.12cm ²	Ext. Grille: WH, B/S, TC Int. Grille: WH	 
Code: AAC635CW 	Rytons Cowlled 150mm Acoustic AirCore® (42 dB) Combustion air vent for heat producing appliances. External cowl reduces light and draughts. Acoustic lining reduces sound to 42 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by the BRE. HETAS approved for use with solid fuel appliances. Core drilled - suitable for retrofit installations. Cowl/grilles U.V. stabilised to protect against fading.	Tube: 151mm Dia. x 358mm L Cowl: 217mm L x 210mm H x 93mm D	5248mm ² 52.48cm ²	Cowl: WH, B/S, TC Ext. Grille: WH, B/S, TC Int. Grille: WH	 

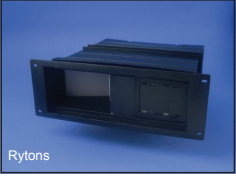

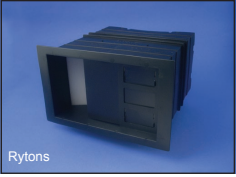

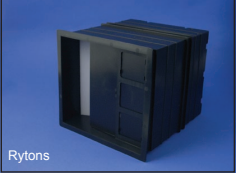
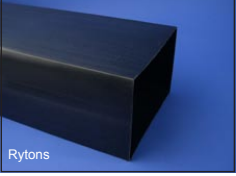
Rytons Acoustic AirLiner® Sets for Heat Producing Appliance and Room Ventilation

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Equivalent Area	Colours	Approvals & Testing
Code: TAL4SET 	Rytons '9x3' Acoustic AirLiner® Set with Flush Louvre Ventilator (38 dB) Combustion air vent for heat producing appliances. Acoustic panels reduce sound to 38 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by Advantica. HETAS approved for use with solid fuel appliances. Internal baffle reduces light and draughts. Internal vent fixed open flush fitting louvre. Grilles U.V. stabilised to protect against fading.	Extends from 250-368mm L with air brick Louvre: 270mm L x 97mm H	2590mm ² 25.9cm ²	Air Brick: GR, BL, B/S, TC, WH, BR, B/B Louvre: WH	 BRE Tested Advantica Tested
Code: TAL4CWL 	Rytons '9x3' Cowled Acoustic AirLiner® Set with Flush Louvre Ventilator (39 dB) Combustion air vent for heat producing appliances. Acoustic panels reduce sound to 39 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by Advantica. HETAS approved for use with solid fuel appliances. Cowl and internal baffle reduces light and draughts. Internal vent fixed open flush fitting louvre. Cowl/grilles U.V. stabilised to protect against fading.	Extends from 250-368mm L with air brick Cowl: 255mm L x 96mm H x 44mm D	2580mm ² 25.8cm ²	Cowl: B/S, TC Air Brick: B/S, TC Louvre: WH	 BRE Tested Advantica Tested
Code: TALSET 	Rytons '9x6' Acoustic AirLiner® Set with Flush Louvre Ventilator (39 dB) Combustion air vent for heat producing appliances. Acoustic panels reduce sound to 39 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by the BRE. HETAS approved for use with solid fuel appliances. Internal baffles reduce light and draughts. Internal vent fixed open flush fitting louvre. Grilles U.V. stabilised to protect against fading.	Extends from 250-404mm L with air brick Louvre: 264mm L x 166mm H	3965mm ² 39.65cm ²	Air Brick: GR, BL, B/S, TC, WH, BR, B/B Louvre: WH	 
Code: TALCWL 	Rytons '9x6' Cowled Acoustic AirLiner® Set with Flush Louvre Ventilator (42 dB) Combustion air vent for heat producing appliances. Acoustic panels reduce sound to 42 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by the BRE. HETAS approved for use with solid fuel appliances. Cowl and internal baffles reduce light and draughts. Internal vent fixed open flush fitting louvre. Cowl/grilles U.V. stabilised to protect against fading.	Extends from 250-404mm L with air brick Cowl: 255mm L x 154mm H x 74mm D	4033mm ² 40.33cm ²	Cowl: WH, B/S, TC Air Brick: WH, B/S, TC Louvre: WH	 
Code: TAL9SET 	Rytons '9x9' Acoustic AirLiner® Set with Louvre Ventilator (38 dB) Combustion air vent for heat producing appliances. Acoustic panels reduce sound to 38 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by the BRE. HETAS approved for use with solid fuel appliances. Internal baffles reduce light and draughts. Internal vent fixed open louvre. Grilles U.V. stabilised to protect against fading.	Extends from 250-404mm L with air brick Louvre: 271mm L x 247mm H	7171mm ² 71.71cm ²	Air Brick: GR, BL, B/S, TC, WH, BR, B/B Louvre: WH	 
Code: TAL9CWL 	Rytons '9x9' Cowled Acoustic AirLiner® Set with Louvre Ventilator (40 dB) Combustion air vent for heat producing appliances. Acoustic panels reduce sound to 40 dB D_{n,e,w} (BRE). Verifiable equivalent area calculation by the BRE. HETAS approved for use with solid fuel appliances. Cowl and internal baffles reduce light and draughts. Internal vent fixed open louvre. Cowl/grilles U.V. stabilised to protect against fading.	Extends from 250-404mm L with air brick Cowl: 274mm L x 235mm H x 103mm D	6954mm ² 69.54cm ²	Cowl: WH, B/S, TC Air Brick: WH, B/S, TC Louvre: 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 Acoustic AirLiners® and Accessories

Rytons Order/Specification Code	Main Uses, Features and Benefits	Size	Free Area	Colours	Approvals & Testing
Code: TAL4000 	Rytons '9x3' Acoustic AirLiner® Telescopic cavity liner featuring sound reducing panels. Internal baffles reduce light and draughts. Available as part of a set with Rytons Multifix® Air Bricks and an internal ventilator for background and appliance ventilation.	220mm W x 71mm H Extends from 250-368mm L with air brick fitted	4000mm ² 40cm ²	BL	 Irish Reg. Stat.
Code: TAL8000 	Rytons '9x6' Acoustic AirLiner® Telescopic cavity liner featuring sound reducing panels. Internal baffles reduce light and draughts. Available as part of a set with Rytons Multifix® Air Bricks and an internal ventilator for background and appliance ventilation.	220mm W x 140mm H Extends from 250-404mm L with air brick fitted	8100mm ² 81cm ²	BL	 Irish Reg. Stat.
Code: TAL9900 	Rytons '9x9' Acoustic AirLiner® Telescopic cavity liner featuring sound reducing panels. Internal baffles reduce light and draughts. Available as part of a set with Rytons Multifix® Air Bricks and an internal ventilator for background and appliance ventilation.	220mm W x 207mm H Extends from 250-404mm L with air brick fitted	5775mm ² 57.75cm ²	BL	
Code: TCL96EXT 	Rytons '9x6' AirLiner® Extension 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	

www.vents.co.uk

Visit our website for: Technical Data Sheets, Product Guides, BRE Acoustic Test Reports, BBA Certificates and more.

Notes

Can't find the size, colour or finish you require?

Call 01536 511874 and talk to Rytons Sales Office about colour matching and specials.

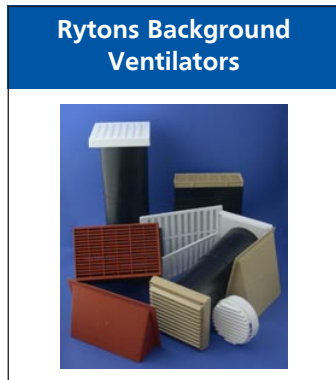


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Rytons Product Guides, Technical Data Sheets and AutoCAD Drawings

Rytons Product Guides are available to download free of charge from www.vents.co.uk/productguides.htm



Technical Data Sheets are available by email, fax or post, simply contact Rytons sales office on 01536 511874 or email lit@rytons.com with your request. You can also view, download and print out copies free of charge from www.vents.co.uk.

AutoCAD drawings are available for nearly every Rytons product by email, fax or post, simply contact us on 01536 511874 or email lit@rytons.com with your request.

Literature Request Form

Fax back your literature request to **01536 310455** or mail it to us at the address at the bottom of the page.

To enable us to process your request for information please complete **all** sections.

Please send me _____ **free** copies of Rytons pocket-size Product Guide

Name: _____

Telephone Number: _____

Position: _____

Fax Number: _____

Company: _____

Email: _____

Address: _____

Web Site: _____

Main Company Activity: _____

Number of Employees: _____

Whose ventilation products do you currently specify/use?

Postcode: _____

In line with our environmental policy of reducing printed matter, from time to time we would like to fax or email you with details of new product developments and special promotions. To continue to receive Rytons latest updates as soon as they happen, please tick here



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