Wall and Ceiling Fans

BREEZE, MERA, VENA, HUSHVENT, AIRBEAM TRANSFAN AND LIMPET WALL & CEILING FAN UNITS

Quiet operation

Easy installation

Extensive options

VES WALL AND CEILING FANS

part of a complete range of innovative, flexible products from the HVAC experts

VES

Better air for the built environment

Why choose VES

VES has been supplying products for the HVAC industry for over 40 years, and have the in-depth knowledge and resources to provide solutions to all ventilation related requirements. We are a substantial British manufacturing company with over 200 employees, several factories plus a regional base in the north of England, and sales engineers located throughout the UK.

Complete range of products

The product range encompasses all types of ventilation products, including those required for commercial, industrial, public and domestic buildings. The emphasis is on low energy products and sophisticated controls to meet the requirements of the Building Regulations.

The range extends from a small bathroom extract fan up to a mighty central station air handling unit. There are specialist heat recovery units, high temperature fans for kitchen hood extract; duct, wall, ceiling and roof units; low noise products and silencers; fitted controls.

High quality, flexible solutions

VES operate a quality assurance system to ISO 9001, monitored by the BSI. The air movement products are tested in-house to BS 848 Part 1, and submitted for external testing and approval when necessary.

VES specialise in bespoke designs for ventilation units, and whatever the issue, be it space, noise, temperature etc, can provide a design solution to meet the requirements of the project.

Superior customer service

From the moment we receive your enquiry to delivery and beyond, we have the people in place to give excellent customer service. The VES after sales service covers the whole of the UK and is among the best in the industry.

Experience and expertise

VES employ a range of experts in disciplines including air movement, noise control, air conditioning, controls, electrics and product refurbishment, and we have key staff who have worked at VES for many years.

Manufactured in the UK

VES has over 12000m^2 of manufacturing and stores space, and has state of the art sheet metalworking equipment, plus a large powder coating plant. VES also has a substantial controls department, and makes components such as dampers and electric heaters in-house. This not only provides employment for local people, but also many suppliers around the UK.

VES
Better air for the built environment

Introduction

VES offer a wide range of wall and ceiling fans to suit a variety of applications. All have low acoustic properties and can be easy to install and maintain.

The wall fan range includes the Breeze supply and extract units, the Mera and Vena fans and wall mounted axial fans suitable for a range of light commercial applications.

The ceiling fan range includes the Hushvent warm air reclaim units, the Airbeam Transfan ceiling void air transfer units and the Limpet, ceiling mounted extract fan with air inlet grilles on underside and direct drive centrifugal fans.

VES wall and ceiling fans are part of a complete range of innovative, flexible products from VES.

Contents

Breeze Wall Units
Pages 4-5

Mera 250
Page 6

Vena 240/290
Page 7

Airbeam Transfan
Page 8

Hushvent
Page 9

Limpet
Page 10-11

BREEZE Wall Units

Reversible Walls Fans

Suitable for both large and small offices.

- Supply or extract airflow up to 1.1m^3/s.
- Easily removable louvre with non-visible fixings.
- Fitted G4 filter to supply units.
- Grille, discharge head or duct connection inside building.
- Standard louvre, colour Signal Grey to RAL 7004. Other colours available.
- Case fitted with acoustic lining, components removable via louvre.

MERA 250

Reversible Walls Fans

Suitable for a range of light commercial applications including sports centres and public toilets.

- Provide a robust 680 m^3/hr of air.
- Suitable for mounting on a wall with an external cowl or fixed blade louvre.
- Pull cord operation for supply or extract airflow.
- Closed blade when stopped to seal against draughts.

VENA 240/290

Wall Mounting Extract Fans

Suitable for commercial and light industrial use.

- Supply airflow up to 1000m^3/hr.
- Simple to operate using a pullcord with gravity operated shutters to prevent backdraughts when not in use.
- Manufactured in zinc coated steel with a powder coat finish.
- ABS plastic guard and impellor.
- The guard is easy to remove and clean.
- The units are designed to be mounted on a wall with a cowl or louvred outlet.

HUSHVENT

Warm Air Reclaim Units

Suitable for shopping centres, exhibition halls, factories and large warehouses.

- Warm air reclaim units providing airflow up to 2.5m^3/s.
- Fully automatic operation.
- Easy to install.
- 10% energy saving and 2$^{1}/_{2}$ years pay back period.

AIRBEAM TRANSFAN

Ceiling Void Air Transfer Units

Suitable for all offices, hotels and conference rooms.

- Air volume up to 0.80 m^3/s per unit.
- One size 4 way blow diffuser, fits standard 595 x 595mm tile grid.
- Quiet operation.
- Also available for extract applications.

LIMPET

Ceiling Mounted Extract Fans

Suitable for commercial and light industrial use.

- Extract airflow up to 140 l/s.
- Operate from PIR, time clock or light switch.
- Backdraught shutter to prevent return air leakage.
- Spring Clip on front cover easily removable for cleaning.

BREEZE

Wall Units

Breeze fan units are unobtrusive and meet architectural criteria, at the same time providing the duty you require. VES have developed this product range with a wide choice of options.

- Supply or extract airflow up to 1.1m³/s.
- Easily removable louvre with non-visible fixings.
- Fitted G4 filter to supply units.
- Grille, discharge head or duct connection inside building.
- Standard louvre, colour Signal Grey to RAL 7004. Other colours available.
- Case fitted with acoustic lining, components removable via louvre.

BREEZE
Wall Louvre

BREEZE Extract Unit
with grille and wall trim

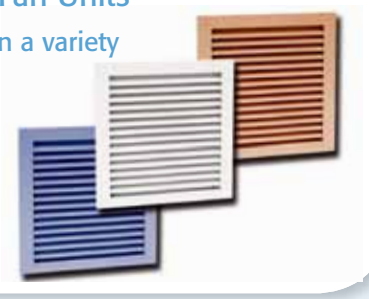
BREEZE Extract Unit
with louvre removed

BREEZE Supply Unit
showing filter - lourve removed

BREEZE Supply Unit
with flanged spigot

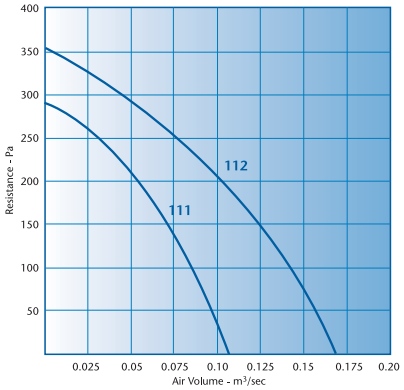
BREEZE Supply Unit
with fitted silencer

BREEZE Fan Units
available in a variety of colours

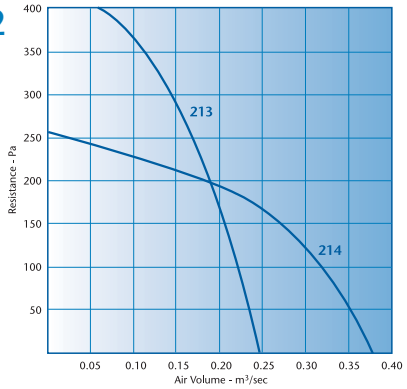


Selection Charts

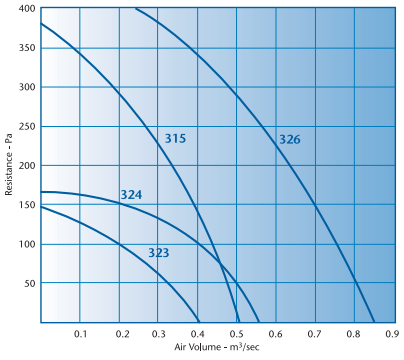
BRE / BRS 1



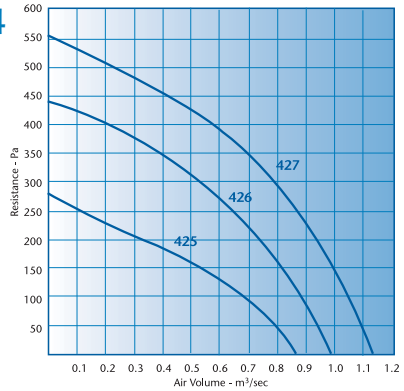
BRE / BRS 2



BRE / BRS 3



BRE / BRS 4



BREEZE

Technical Details

Model BRE/ BRS	Fan Speed RPM	Motor Voltage Phase/Hz	Motor Input Watts	FLC Amps Max	SPL dB(A)*
111	1590	230/1/50	117	0.47	54
112	1365	230/1/50	230	0.96	57
213	1945	230/1/50	330	1.33	61
214	1280	230/1/50	400	1.75	58
315	1380	230/1/50	698	3.33	67
323	860	230/1/50	339	1.66	38
324	860	230/1/50	508	2.4	53
326	1380	230/1/50	1115	4.9	64
425	860	230/1/50	775	3.7	58
426	1380	230/1/50	1260	5.55	64
427	1380	230/1/50	1780	7.7	62

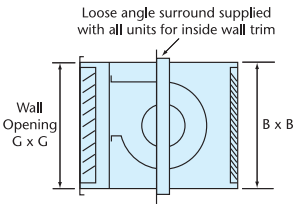
*At 3 metres from louvre, free field

Dimensions

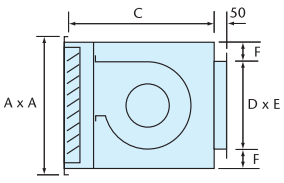
Model BRE/ BRS	A Louvre Overall	B Height x Width	C Length	D Spigot Height	E Spigot Width	F	G Wall Opening	H Fixing Centres	J	K Grille Box	Unit Weight (kg)	MTR Power (Watts)	FLC (AMPS)
111	380	310	310	100	250	105	320	340	17.5	150	10	117	0.47
112	380	310	310	100	250	105	320	340	17.5	150	11	230	0.96
213	550	450	450	300	300	75	460	500	22.5	175	21	330	1.33
214	550	450	450	300	300	75	460	500	22.5	175	24	400	1.75
315	700	600	600	400	350	100	610	650	21.0	200	36	698	3.33
323	700	600	600	400	350	100	610	650	21.0	200	36	339	1.66
324	700	600	600	400	350	100	610	650	21.0	200	33	508	2.4
326	700	600	600	400	350	100	610	650	21.0	200	34	1115	4.9
425	800	700	700	600	450	50	710	750	21.0	250	51	775	3.7
426	800	700	700	600	450	50	710	750	21.0	250	50	1260	5.55
427	800	700	700	600	450	50	710	750	21.0	250	54	1780	7.7

Note: All dimensions in mm.

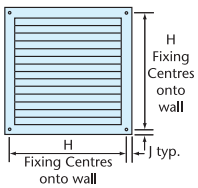
BREEZE Extract Unit
with inlet grille
Model BRE/GL



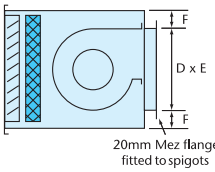
BREEZE Extract Unit
with flanged inlet spigot
Model BRE/SP



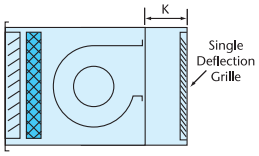
BREEZE
louvre detail



BREEZE Supply Unit
with flanged outlet spigot Model BRS/SP
with filter Model BRS/SP/F



BREEZE Supply Unit
with outlet grille box Model BRS/GB
with filter Model BRS/GB/F



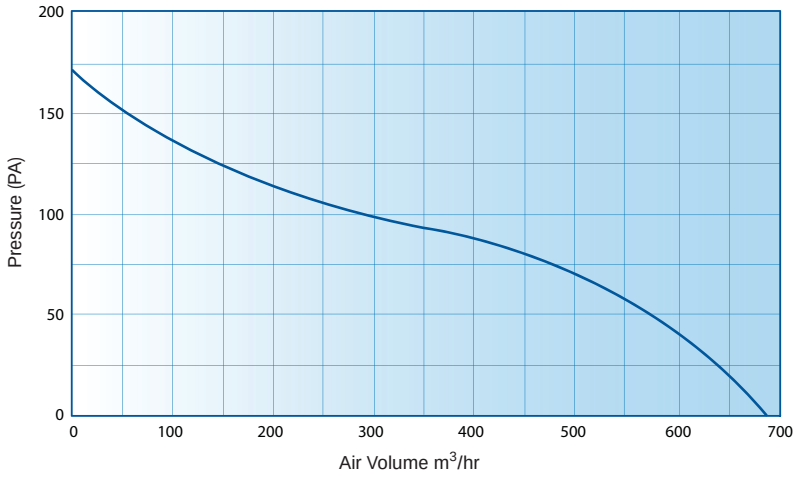
MERA 250

Reversible Wall Fans

Suitable for a range of light commercial applications including sports centres and public toilets.

- Provide a robust 680 m^3/hr of air.
- Suitable for mounting on a wall with an external cowl or fixed blade louvre.
- Pull cord operation for supply and extract airflow.
- Closed blade when stopped to seal against draughts.

Fan Performance



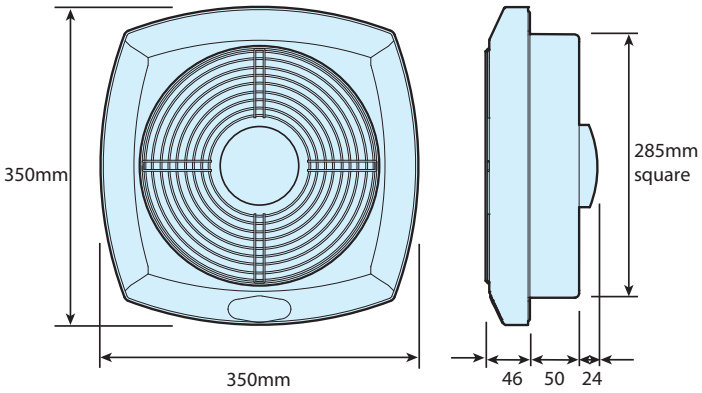
Technical Details

Model MERA	Fan Speed RPM	Motor Voltage Phase/Hz	Motor Input Watts	FLC Amps Max	Specific Fan Power W/l/s	SPL dB(A)*	Weight kg
250	1420	230/1/50	36	0.15	0.189	42	3

*At 3 metres from louvre, free field

Dimensions

Wall Louvre



Model MERA250/PC

Nominal size mm	Part No.
300 x 300	DMEX 7304

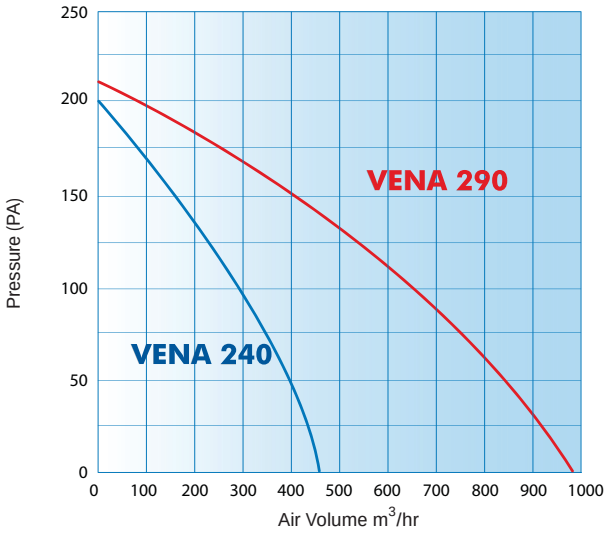
VENA 240/290

Wall Mounting Extract Fans

Suitable for commercial and light industrial use.

- Supply airflow up to 1000m^3/hr.
- Simple to operate using a pullcord with gravity operated shutters to prevent backdraughts when not in use.
- Manufactured in zinc coated steel with a powder coat finish.
- ABS plastic guard and impellor.
- The guard is easy to remove and clean.
- The units are designed to be mounted on a wall with a cowl or louvred outlet.

Fan Performance



Technical Details

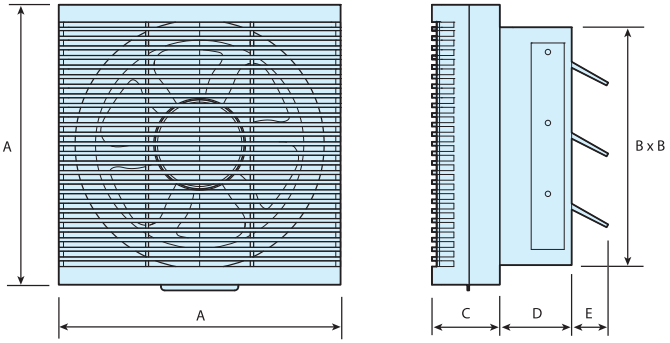
Model VENA	Fan Speed RPM	Motor Voltage Phase/Hz	Motor Input Watts	FLC Amps Max	Specific Fan Power W/l/s	SPL dB(A)*	Weight kg
240	1420	230/1/50	30	0.13	0.25	51	2
290	1420	230/1/50	50	0.16	0.185	57	3

*At 3 metres from louvre, free field

Dimensions

Wall Louvre

Size mm	Part No.
250 x 250	DMEX 7254
300 x 300	DMEX 7304



Model	A	B	C	D	E
VENA 240/BS/PC	295	240	81	90	37
VENA 290/BS/PC	340	290	85	90	30

HUSHVENT

Warm Air Reclaim Units

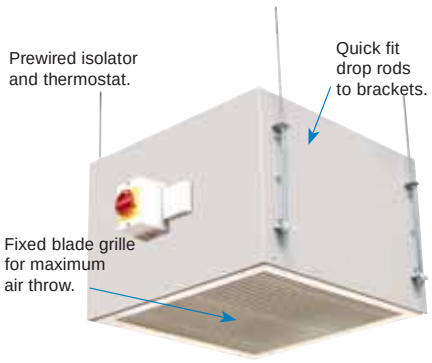
The Hushvent is a destratification fan which reclaims warm air from large buildings. Suitable for shopping centres, exhibition halls, factories and large warehouses.

- Air volume up to 2.25m^3/s.
- Hushvent units should not be installed in factories where an industrial process produces fumes or dust.
- Hushvent units have fitted automatic on/off control which operates to an adjustable temperature setting. In addition, manual or automatic fan speed controllers are available, with single or multiple units being controlled by one control unit if required.
- The fitted fixing brackets are designed to accept 8mm threaded studding.
- The removable outlet grille is fixed bar anodised aluminium type, finished white.
- The fans are plate mounted axial fans with external rotor motors, class F insulation, IP 54 rating, with fitted motor side guard. The motors are prewired to the adjustable thermostat and a local isolator.

Quick Selection Guide

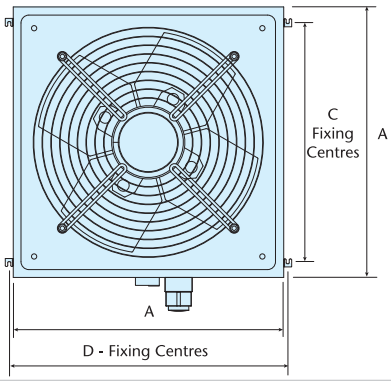
- Determine floor area and height to roof. Units wil be suspended 1.0 metre below roof.
- Even spacing of units is required throughout the heated area.
- Select units from following table, based on mounting height and floor area per unit.

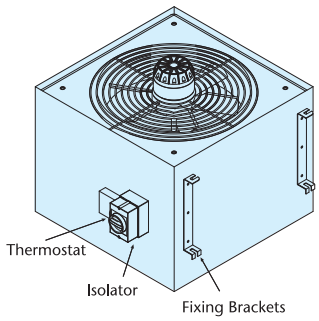
Technical Details

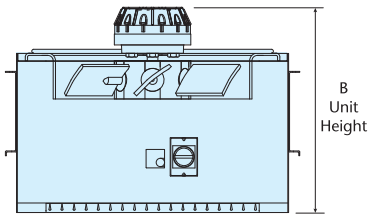


Model HUSHVENT	Fan Speed RPM	Motor Voltage Phase/Hz	Motor Input Watts	FLC Amps Max	Specific Fan Power W/l/s	SPL dB(A)*	Average Floor Area per Unit m^2	Ideal Mounting Height Metres
355/6	900	230/1/50	100	0.44	0.18	47	150	6
400/6	900	230/1/50	120	0.54	0.14	47	250	7.5
450/6	900	230/1/50	170	0.74	0.14	52	500	12
560/6	700	230/1/50	1340	1.34	0.15	51	750	15
630/6	700	230/1/50	147	1.47	0.14	52	1350	20
630/8	900	230/1/50	2400	2.4	0.17	58	900	15

*At floor level in a reverberant environment ^Based on a terminal velocity of 1.0 m/s at floor level







Dimensions

Model	A	B	C	D	Weight kg
HV 355/6-1	510	450	410	545	20
HV 400/6-1	555	455	455	590	25
HV 450/6-1	605	475	505	640	35
HV 560/8-1	805	530	705	840	45
HV 630/6-1	855	530	755	890	55
HV 630/8-1	855	530	755	890	55

Note: All dimensions in mm.

AIRBEAM TRANSFAN

Plate Mounted Axial Fans

The Airbeam Transfan takes conditioned supply air from a pressurised ceiling void or plenum and distributes it into the occupied space.

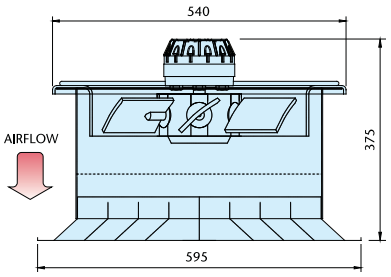
- Air volume up to 0.8m^3/s.
- Plate mounted axial fan, model ABM 400/6-1, 900 rpm, 120 watts, 230 volts, 1 phase, FLC 0.54 amps at full speed. External rotor motor, class F, IP 54 rating, high temperature thermal cutout protection.
- 4 way blow contemporary diffuser, finished white polyester powder coated, RAL 9010, semi-gloss, removable centre core for ease of cleaning.
- Support sleeve between diffuser and fan, with safety fan guard.
- Optional integral tapped transformer providing 5 speeds and genuine energy saving. For commissioning purposes only.

Technical Details

Model AIRBEAM TRANSFAN	Fan Speed RPM	Motor Voltage Phase/Hz	Motor Input Watts	FLC Amps Max	Specific Fan Power W/l/s	SPL dB(A)*	Weight kg
Speed 1	900	230/1/50	9	0.1	0.024	37	15
Speed 2	900	230/1/50	25	0.2	0.049	42	15
Speed 3	900	230/1/50	45	0.3	0.0.74	44	15
Speed 4	900	230/1/50	54	0.4	0.077	46	15
Speed 5	900	230/1/50	120	0.5	0.15	48	15

*At 3 metres from louvre, free field

Dimensions



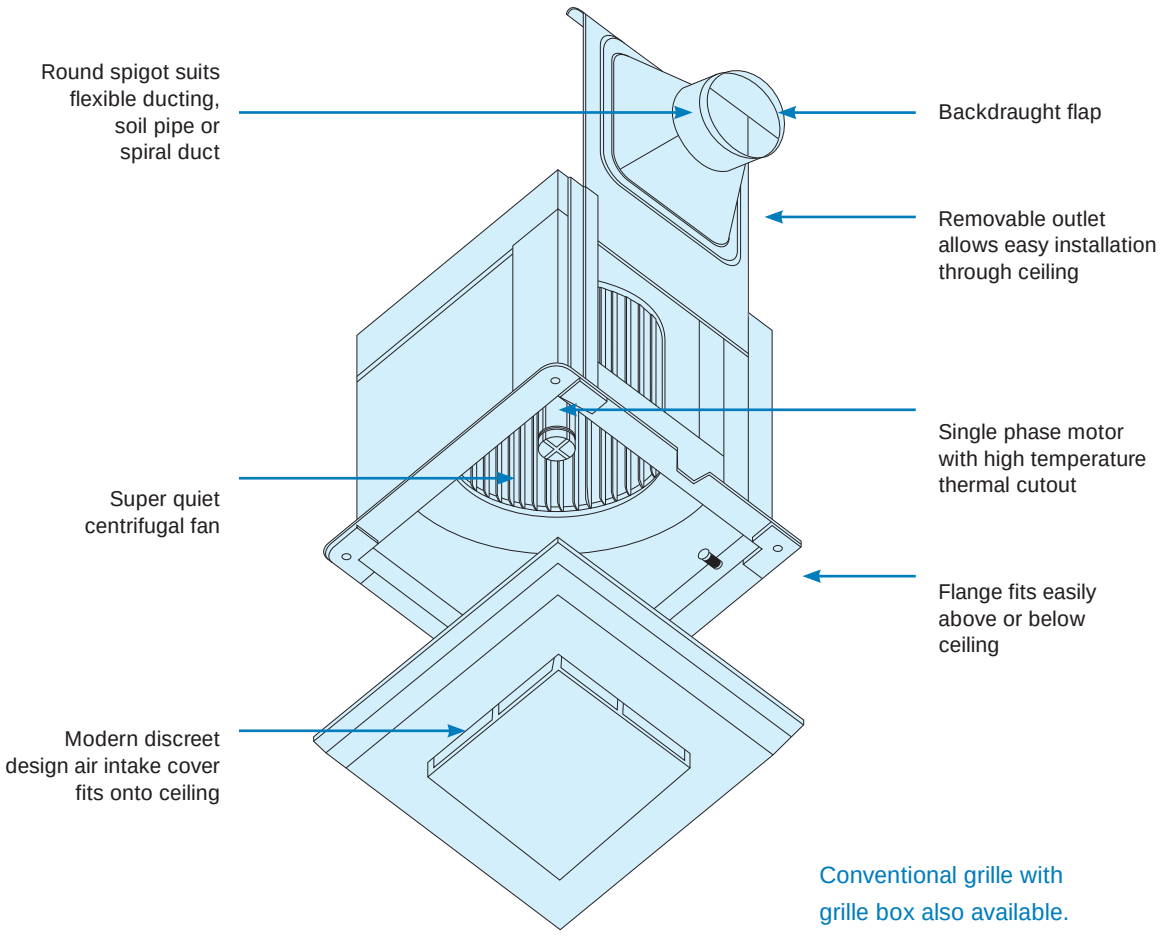
Model ABM400/6-1/TR

LIMPET

Ceiling Mounted Extract Fans

Ceiling mounted extract fan with inbuilt grille suitable for toilet area extract in schools, offices and other applications.

- Extract airflow up to 120 l/s.
- Operate from PIR, time clock or light switch.
- Backdraught shutter to prevent return air leakage.
- Spring Clip on front cover easily removable for cleaning.



Conventional grille with grille box also available.

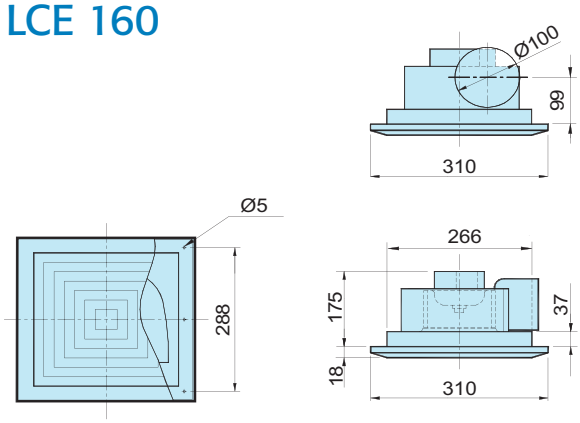
Technical Details

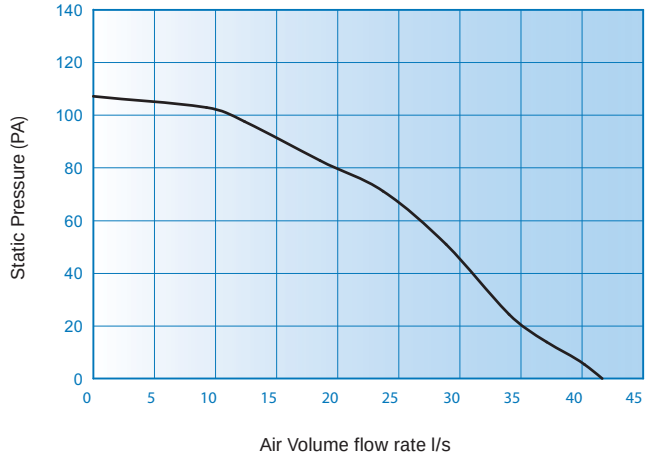
Model LIMPET	Fan Speed RPM	Motor Voltage Phase/Hz	Motor Input Watts	FLC Amps Max	SPL dB(A)*	Weight kg
LCE160	1250	230/1/50	35	0.09	40	1.5
LCE250	1250	230/1/50	60	0.16	44	2.6
LCE400	1221	230/1/50	45	0.21	42	6.5

*At 3 metres from louvre, free field

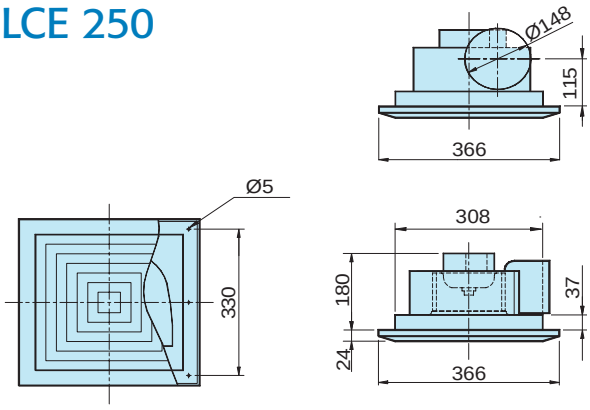
LIMPET
Dimensions and Performance

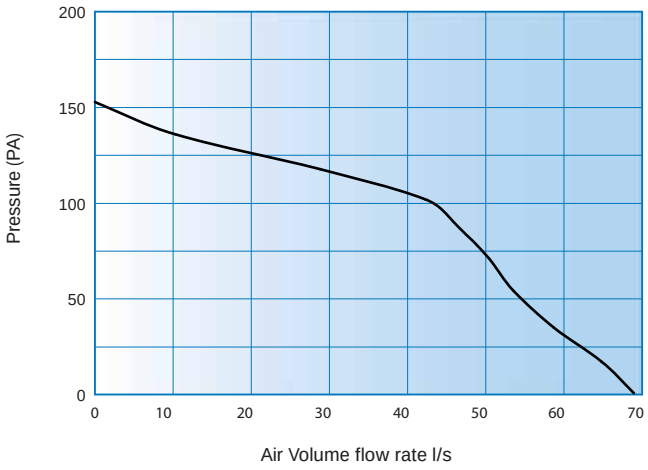
LCE 160



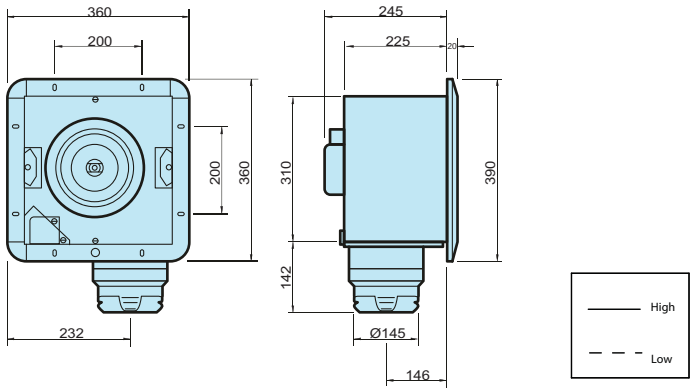


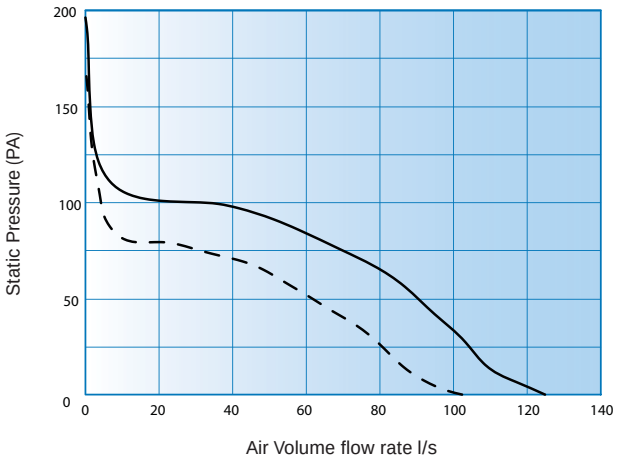
LCE 250





LCE 400





Note: All dimensions in mm.

Product Specification

BREEZE Supply and Extract Wall Units

1.1 General

A. Provide a centrifugal wall fan unit to meet the performance and configuration as indicated in the schedule and detail drawings. The wall fan unit shall be tested to BS848 and shall be of the Breeze centrifugal fan type as manufactured by VES Andover Ltd a company accredited with BS EN ISO 9001:2008.

1.2 Unit Construction

A. The unit shall be provided pre-assembled comprising of a single skinned galvanised sheet steel case, centrifugal scroll fan with direct drive motor, wall louvre with birdmesh screen and removable room louvre or flanged spigot as indicated in the schedule and detail drawings.

B. The external wall louvre shall be fitted with secure tamper-resistant fixings.

C. The unit shall be fitted with flame retardant acoustic lining as standard to ensure thermal insulation and reduced noise transmission.

D. The unit designed for supply air shall be fitted with a G4 pleated panel filter as standard. Filter to be in accordance with schedule and detail drawings.

E. Access for maintenance shall be via removal of the wall louvre.

F. The unit casework, wall louvre and room louvre/spigot shall be powdercoated as standard Signal grey to RAL7004. Colour to be in accordance with schedule.

G. The unit shall be designed for mounting in a wall cutout, incorporating the use of a supplied flashing angle as indicated in the detail drawings.

1.3 Fan

A. The fan impeller shall be of galvanised steel forward curved blade construction for rigidity and long life. The impeller shall be statically and dynamically balanced to VDE2060 G2.5 for smooth running and extended life.
B. The fan impeller shall be mated with an aerodynamic fan scroll for high efficiency and low noise generation.
C. The fan impeller is supplied as standard in natural galvanised finish. The fan scroll shall be supplied epoxy painted black to RAL9005.

1.4 Motor

A. The unit shall be provided with a 230V single phase fan incorporating an external rotor motor to insulation class F, IP44 environmental protection rating & shall be supplied with thermal protection cutout as standard.
B. The motor and attached fan impellor shall be fully AV isolated from the fan scroll, ensuring optimal mechanical isolation and maximum possible noise reduction.

1.5 Operating Environment

A. The unit shall be designed to operate in ambient temperatures from -20°C up to 50°C, and can run continuously at up to 80% humidity level.

1.6 Controls

A. The unit shall be supplied with a 1m pre-wired flying lead to facilitate on-site installation.
B. The unit shall be designed to be fully compatible with speed control systems designed to operate from a 0-10v BMS i.e Air Quality or Temperature sensor according to schedule.

1.7 Silencers

A. The unit shall be fully compatible with a standard range of spigot mounted silencers and attenuating inlet plenums. The silencers/plenums shall be suitable for direct mounting to the unit.
B. The silencer shall be a rigidly constructed single skinned galvanised sheet steel case lining incorporating internal splitting vanes lined with resin bonded mineral wool.
C. The silencer casework shall be provided naturally finished in high quality galvanised steel as standard. Colour to be in accordance with schedule.

MERA 250 Reversible Wall Fan

1.1 General

A. Provide a wall mounted Axial fan for installation in ceilings, walls and panels. Unit to meet the performance and configuration as indicated in the schedule and detail drawings. The wall mounted Axial fan shall be of the Mera type as supplied by VES Andover Ltd a company accredited with BS EN ISO 9001:2008.

1.2 Unit Construction

A. The fan shall be provided pre-assembled comprising an ABS plastic case, steel wire fan guard, plastic axial fan impeller and hub mounted direct drive motor.
B. The case shall be anti-static treated for reduced dust attraction.
C. The case shall be designed with a square wall spigot.

D. The fan shall be supplied with pull cord switch for manual activation.
E. The fan casework and guard shall be finished gloss white.
F. The fan shall be designed for wall mounting in a square cutout.

1.3 Fan Impeller

A. The fan shall be fitted with an ABS plastic adjustable blade axial fan impeller finished to match the unit casework.
B. The fan shall incorporate movable shutter blades for automatic air shutoff when the fan is not running.
C. The fan shall be designed to provide supply or extract airflow, selectable by the user via the pull cord.

1.4 Motor

A. The fan shall be provided with a 230V single phase double insulated motor with IPX2 environmental protection rating.
B. The motor is ball bearing mounted for extended life and reduced noise.

1.5 Operating Environment

A. The fan is designed to operate in ambient temperatures from 0°C up to 40°C.

1.6 Controls

A. The unit shall be controlled via pull cord, with a single pull providing extract airflow, a second pull providing supply airflow, and a third pull stopping the fan.

1.7 Ancillaries

A. The unit shall be suitable for use with an external wall cowl or fixed louvre as supplied by VES Andover Ltd. The unit is not suitable for use with movable shutter backdraught louvres.
B. The unit shall be available with an optional wall mounting kit as supplied by VES Andover Ltd.

VENA 240/290 Wall Mounting Extract Fans

1.1 General

A. Provide a wall mounted extract axial fan for installation in walls. Fan to meet the performance and configuration as indicated in the schedule and detail drawings. The wall mounted extract axial fan shall be of the Vena type as supplied by VES Andover Ltd a company accredited with BS EN ISO 9001:2008.

1.2 Unit Construction

A. The fan shall be provided pre-assembled comprising a galvanised sheet steel case, backdraught shutters, ABS plastic removable guard and axial fan impeller, and hub mounted direct drive motor.
B. The ABS guard shall be anti-static treated for reduced dust attraction.
C. The ABS guard shall be removable for access and maintenance.
D. The backdraught shutters shall be gravity operated.
E. The case shall be designed with a square discharge spigot, size as indicated in the schedule and detail drawings.
F. The case shall be powdercoated black, the plastic guard shall be finished gloss white.
G. The fan shall be suitable for wall mounting in a square cutout.

1.3 Fan Impeller

A. The fan shall be fitted with an ABS plastic forward curved blade axial fan impeller finished gloss white.

1.4 Motor

A. The fan shall be provided with a 230V single phase double insulated motor with IPX2 environmental protection rating.
B. The motor is ball bearing mounted for extended life and reduced noise.

1.5 Operating Environment

A. The fan is designed to operate in ambient temperatures from -10°C up to 40°C.

1.6 Controls

A. The unit shall be controlled via pull cord.

1.7 Ancillaries

A. The unit shall be suitable for use with an external fixed louvre as supplied by VES Andover Ltd.
B. The unit is not suitable for use with movable shutter backdraught louvres.

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Product Specification

AIRBEAM TRANSFAN Ceiling Void Air Transfer Units

1.1 General

A. Provide a ceiling mounted supply unit to meet the performance and configuration as indicated in the schedule and detail drawings. The unit shall be tested to BS848 and shall be of the Airbeam Transfan ceiling fan type as manufactured by VES Andover Ltd a company accredited with BS EN ISO 9001:2008. Airbeam axial fan performance is certified to AMCA 210.

1.2 Unit Construction

A. The unit shall be provided pre-assembled comprising a square pressed sheet steel duct, plate axial fan with inlet guard and 4-way diffusion grille.
B. Access for maintenance shall be via removal of the fan mounting plate and diffusion grille.
C. The diffusion grille shall be fully removable for maintenance and cleaning.
D. The unit shall be designed for mounting within a standard 595x595 ceiling tile grid.
E. The diffusion grille shall be finished as standard white to RAL9010. The duct shall be finished natural galvanised.

1.3 Fan

A. The fan shall be constructed with an aluminium bladed axial impeller, statically and dynamically balanced to ISO 1940.
B. The fan shall be mated with an aerodynamic steel bell mouth mounting plate.
C. The fan and mounting plate shall be finished black to RAL9005.

1.4 Motor

A. The fan shall be supplied with a 230V single phase external rotor motor to insulation class F, IP54 environmental protection rating.
B. The motor shall be provided with thermal protection cutout as standard.
C. The motor shall be pre-wired to a die cast aluminium terminal box.

1.5 Operation Environment

A. The unit shall be designed to operate in ambient temperatures from -30°C up to 70°C, and can run continuously at up to 100% humidity level.

1.6 Controls

A. The unit shall be available with optional fitted tapped transformer.
B. The transformer shall provide 5 speed settings, adjustable on commissioning.

HUSHVENT Warm Air Reclaim Units

1.1 General

A. Provide a Warm air reclaim fan unit to meet the performance and configuration as indicated in the schedule and detail drawings. The reclaim fan unit shall be certified to AMCA 210 and shall be of the Hushvent type as manufactured by VES Andover Ltd a company accredited with BS EN ISO 9001:2008.

1.2 Unit Construction

A. The unit shall be provided pre-assembled comprising of a single skinned galvanised sheet steel case, plate axial fan with inlet mesh guard, and removable anodised aluminium construction outlet grille.
B. The unit shall be fitted with drop rod mounting brackets suitable for 8mm studding as indicated in the detail drawings.
C. The unit shall be supplied with a pre-wired thermostat controller & fan motor isolator.
D. Access for maintenance shall be via removal of the outlet grille.
E. The Unit casework shall be powdercoated as standard Signal grey to RAL7004. Colour to be in accordance with schedule. The anodised aluminium outlet grille shall be finished in white.
F. The Unit shall be designed to be suspended 1.0m from roof via drop-rods in accordance with schedule.

1.3 Fan Impeller

A. The fan shall be of aluminium blade construction for rigidity and long life. The impeller shall be statically and dynamically balanced to UNI ISO 1940. The fan shall be mated with an aerodynamic steel bell mouth wall plate for high efficiency and low noise generation.
B. The fan, mounting plate & mesh guard shall be finished in RAL9005 (Black).

1.4 Motor

A. The unit shall be provided with a 230V single phase external rotor motor to insulation class F, IP54 environmental protection rating and shall be supplied with thermal protection cutout as standard.
B. The motor shall be pre-wired to an external lockable isolator.
C. The motor shall be pre-wired to an automatic on/off thermostat controller. The controller shall have a fully adjustable temperature setting.

1.5 Operation Environment

A. The unit shall be designed to operate in ambient temperatures from -30°C up to 70°C, and can run continuously at up to 100% humidity level.

1.6 Controls

A. The unit shall be available with automatic speed control systems designed to operate from a 0-10v BMS i.e Air quality or Temperature sensor according to schedule.

LIMPET Ceiling Mounted Extract Fans

1.1 General

A. Provide an extract centrifugal fan for ceiling mounting. Fan to meet the performance and configuration as indicated in the schedule and detail drawings. The extract centrifugal fan shall be of the Limpet type as supplied by VES Andover Ltd a company accredited with BS EN ISO 9001:2008.

1.2 Unit Construction

A. The fan shall be provided pre-assembled comprising an ABS plastic case, backdraught shutters, removable plastic inlet grille as standard & centrifugal fan impeller incorporating hub mounted direct drive motor.
C. The standard plastic inlet grille shall be removable for installation, access & maintenance. The grille shall be secured with spring clips.
D. The fan shall include a backdraught shutter as standard.
E. The case shall be designed with a circular discharge spigot, size as indicated in the schedule and detail drawings.
F. The case shall be finished black, the standard plastic grille shall be finished gloss white.
G. The fan shall be suitable for ceiling mounting in a square cutout.
H. The fan shall be supplied with support angles for installation onto a ceiling tile grid.

1.3 Fan

A. The fan impeller shall be of galvanised steel forward curved blade construction. The impeller shall be statically and dynamically balanced.
B. The fan impeller shall be mated with an aerodynamic fan scroll.
C. The fan impeller is supplied as standard in natural galvanised finish.

1.4 Motor

A. The fan shall incorporate a 230V single phase external rotor motor to insulation class E and shall be supplied with thermal protection cut-out as standard.

1.5 Controls

A. The fan shall be available with optional 3 to 23 minute adjustable integrated run on timer as indicated in the schedule.
B. The fan shall be available with optional external PIR movement sensor for automated occupancy activation as indicated in the schedule.

1.6 Ancillaries

A. The unit shall be suitable for use with an external wall louvre as supplied by VES Andover Ltd.
B. The unit shall be available with optional ceiling installation kits as supplied by VES Andover Ltd.
C. The unit shall be available with optional vandal proof steel inlet grille as supplied by VES Andover Ltd. The grille shall have no visible fixings, and shall have a white epoxy powder coat finish.
D. The unit shall be available with optional flush fitting ‘eggcrate’ inlet grille as supplied by VES Andover Ltd. The grille shall include a box for unit mounting, and a removable grille to fit flush with ceiling.

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