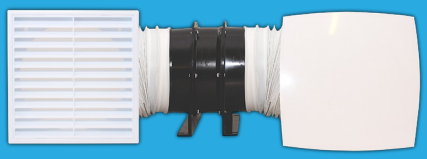
ELMARK™

AIR MOVEMENT

Ventilation Solutions 2023

ESC
ELECTRICAL SUPPLY CORP

Fans Styles:

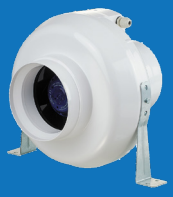


Inline Fan Pack: Quieter option as the motor is mounted in the ceiling away from the bathroom. The pack includes inline fan, PVC duct, inlet and outlet grilles.

Through Wall Fan Kit: This is a fan system that can be mounted through the room wall outside the wet zone. The pack includes fan, 375mm of rigid aluminium duct and gravity grille.

Ceiling or Wall Mount Fan: This fan can be mounted on the bathroom ceiling or wall outside the wet zone.

Mixed Flow Fan / Inline Fan: A mixed-flow fan is an axial flow impeller modified to generate a radial component of flow, which is added to the spiral flow, achieving a capacity for high volume and high pressure.



Centrifugal Fan: Centrifugal fans rely on blades to drag air into a circular motion with centrifugal forces speeding up airflow radially and outwards. These fans move air outward thorough ducts or tubes, and they provide a stronger and more stable air flow than axial fans do. Designed for runs of ducting 6 meters or more.

Axial Fan: A axial fan is a type of fan that causes air to flow through it in an axial direction, parallel to the shaft about which the blades rotate. The flow is axial at entry and exit. Designed for runs of ducting 6 meters or less.

HEALTHY HOUSES/G4 ICONS

These icons refer to the fans compliance to both the G4 and Healthy Homes Regulations.
See more information on page 18

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AIR MOVEMENT

Contents

CONTRACTOR FAN PACKS

Axial inline contractor fan packs are a great way to choose your style all packed into one convenient package.

Duct Size	ESC Code	Description	Fan Type	Grilles		Fan Watt (W)	Air Performance	
				Interior	Exterior		l/s	M³/Hr
150mm	FANCP003	230vac Inline Fan, 3m Aluminium Duct, Duct Tape, Surface Socket	Axial	Round White	Square Fixed White	36	97	350
150mm	FANCP007*	230vac Inline Fan, 6m Aluminium Duct, Duct Tape, Surface Socket	Axial	Square Fixed White	Weather Cowl White	36	97	350
150mm	FANCP009 ***Surface Mount Fan Pack***	230vac Surface Fan, 3m Aluminium Duct, Duct Tape, Surface Socket	Axial	Round White	Square Fixed White	36	95	342
150mm	FANCP011*	230vac Inline Fan, 6m Aluminium Duct, Duct Tape, Surface Socket	Axial	Round White	Square Fixed White	36	97	350
150mm	FANCP013	230vac Inline Fan, 6m Aluminium Duct, Duct Tape, Surface Socket	Axial	LD White	Square Fixed White	36	97	350

**Available with Black Weather Cowls on request*

Refer to accessories (page 16) section for timers and replacement parts

INLINE PREMIUM FAN PACKS

5 YEAR WARRANTY

Axial fans are great for continuous or periodic exhaust ventilation of bathrooms, kitchens, showers etc, offers low to medium airflow over shorter distances

Duct Size	ESC Code	Description	Fan Type	Grilles		Fan Watt (W)	Air Performance	
				Interior	Exterior		l/s	M³/Hr
100mm	VIFP100LD	230vac Inline Fan, 3m PVC Duct, Duct Tape, Surface Socket	Axial	LD White	Square Fixed White	14	29	107
100mm	VIFP100	230vac Inline Fan, 3m PVC Duct, Duct Tape, Surface Socket	Axial	Round White	Square Fixed White	14	29	107
125mm	VIFP125LD	230vac Inline Fan, 4m PVC Duct, Duct Tape, Surface Socket	Axial	LD White	Square Fixed White	16	52	190
125mm	VIFP125	230vac Inline Fan, 4m PVC Duct, Duct Tape, Surface Socket	Axial	Round White	Square Fixed White	16	52	190
150mm	VBIFP150	230vac Inline Fan, 5m PVC Duct, Duct Tape, Surface Socket	Axial	Round White	Square Fixed White	32	108	389
150mm	VBIFP150LD	230vac Inline Fan, 4m PVC Duct, Duct Tape, Surface Socket	Axial	Square Fixed White	Square Fixed White	32	108	389
150mm	VBIFP150LDD	230vac Inline Fan, 5m PVC Duct, Duct Tape, Surface Socket	Axial	LD White	Weather Cowl	32	108	389

MIXED FLOW FAN PACKS - 2 SPEED UNITS

5 YEAR WARRANTY

Mixed Flow fans are great for continuous or periodic exhaust ventilation of bathrooms, kitchens, showers etc, offers powerful airflow over longer distances

Duct Size	ESC Code	Description	Fan Type	Grilles		Fan Watt (W)	Air Performance	
				Interior	Exterior		l/s	M³/Hr
100mm	MFP100LD	230vac Inline Fan, 1 x 6m Aluminium Duct, Duct Tape	Axial	LD White	Square Fixed White	21/33	40/51	415 / 565
150mm	MFP150LD	230vac Inline Fan, 2 x 3m Aluminium Duct, Duct Tape	Axial	LD White	Square Fixed White	42/50	155 / 156	415 / 565
150mm	MFP150FG	230vac Inline Fan, 2 x 3m Aluminium Duct, Duct Tape	Axial	Square Fixed White	Square Fixed White	42/50	115 / 156	415 / 565

IPX4

AXIAL FAN - THROUGH WALL

5 YEAR WARRANTY

Mixed Flow fans are great for continuous or periodic exhaust ventilation of bathrooms, kitchens, showers etc, offers powerful airflow over longer distances

	Duct Size	ESC Code	Description	Fan Type	Grilles		Fan Watt (W)	Air Performance	
					Interior	Exterior		l/s	M^3/Hr
	100mm	VFP100LDL	230vac Surface Fan, 375mm Aluminium Rigid Duct	Axial	LD White	Square Gravity White	14	24	88
	100mm	VFP100SL	230vac Surface Fan, 375mm Aluminium Rigid Duct	Axial	Square White	Square Gravity White	14	26	95
	125mm	VFP125SLW	230vac Surface Fan, 375mm Aluminium Rigid Duct	Axial	Square White	Weather Cowl White	16	50	180
	125mm	VFP125SL	230vac Surface Fan, 375mm Aluminium Rigid Duct	Axial	Square White	Square Gravity White	16	50	180
	125mm	VFP125LDL	230vac Surface Fan, 375mm Aluminium Rigid Duct	Axial	LD White	Square Gravity White	16	46	167
	150mm	VFP150SL	230vac Surface Fan, 375mm Aluminium Rigid Duct	Axial	Square White	Square Gravity White	24	81	292
	150mm	VFP150LDLT	230vac Surface Fan, 375mm A Aluminium Rigid Duct	Axial	LD White	Square Gravity White	24	86	310
	150mm	VFP150LDA	230vac Surface Fan, 375mm Aluminium Rigid Duct	Axial	LD Aluminium	Square Gravity White	24	86	310

AXIAL FAN - THROUGH CEILING & WALL

Axial fans are great for continuous or periodic exhaust ventilation of bathrooms, kitchens, showers etc, offers low to medium airflow over shorter distances

	Duct size	ESC code	Description	Fan Type	Grilles		Fan Watt (W)	Air Performance	
					Interior	Exterior		l/s	M³/Hr
	150mm	VFK150LD	230vac Surface Fan, 5mtr PVC Duct, 375mm Aluminium Rigid Duct, Duct Connector, Duct Tape	Axial	LD White	Square Fixed White	29	86	310
	150mm	VFK150LDA	230vac Surface Fan, 5mtr PVC Duct, 375mm Aluminium Rigid Duct, Duct Connector, Duct Tape	Axial	LD Aluminium	Square Fixed White	29	86	310
	150mm	VFP150LDD	230vac Surface Fan, 5mtr PVC Duct, Duct Connector, Duct Tape	Axial	LD White	LD White	29	86	310
	150mm	VFK150WB	230vac Surface Fan, 5mtr PVC Duct, 375mm Aluminium Rigid Duct, Duct Connector, Duct Tape	Axial	LD White	Weather Cowl Black	29	86	310

FAN / HEAT / LED LIGHT

All in one unit, with integrated LED lighting - Complies to AS/NZS 60335.2.80

	Duct Size	ESC Code	Description	Fan Type	Light		Fan Watt (W)	Air Performance	
					Led	Heat		L/S	M³/Hr
	125mm	VHFL-2	230vac Ceiling Unit, 3mtr Aluminium Duct, Backdraught Shutter, 3 Gang Switch	160mm Centrifugal	1 x 13W 4200K Downlight	2 x 275W E27	35	108	390

IPX4

AXIAL FAN - WINDOW

5 YEAR WARRANTY

Surface mounted fan, suited for directly mounting into window applications - High quality ABS plastic and UV Resistant, high efficiency impeller design for long life and silent operation - IP24 rated

Duct Size	ESC Code	Description	Fan Type	Grilles		Fan Watt (W)	Air Performance	
				Interior	Exterior		l/s	M³/Hr
150mm	V150WA	230vac Surface Fan, Silent Operation, Thermal Actuator	Axial	Auto Shutter White	Square Fixed White	29	81	295

AXIAL FAN - SURFACE

5 YEAR WARRANTY

Axial fans are great for continuous or periodic exhaust ventilation of bathrooms, kitchens, showers etc, offers low to medium airflow over shorter distances

	Duct Size	ESC Code	Description	Fan Type	Grilles		Fan Watt (W)	Air Performance	
					Interior	Exterior		l/s	M³/Hr
	100mm	V100SL	230vac Surface Fan	Axial	Square White	–	14	26	95
	100mm	V100LDL	230vac Surface Fan	Axial	LD White	-	14	24	88
	150mm	V150MA	230vac Surface Fan, Silent Operation, Thermal Actuator	Axial	Auto Shutter White	-	29	95	345
	125mm	V125SL	230vac Surface Fan	Axial	Square White	-	16	50	180
	125mm	V125LDL	230vac Surface Fan	Axial	LD White	-	16	46	167
	150mm	V150SL	230vac Surface Fan	Axial	Square White	-	24	81	292
	150mm	V150LDLT	230vac Surface Fan	Axial	LD White	-	30	86	310
	150mm	V150PFLT	230vac Surface Fan	Axial	Round White	-	24	81	342

AXIAL FAN - SURFACE (Low Voltage Solutions)

	LOW VOLTAGE SOLUTIONS								
	Duct Size	ESC Code	Description	Fan Type	Grilles		Fan Watt (W)	Air Performance	
					Interior	Exterior		l/s	M³/Hr
	150mm	V150MALV	12v Surface Fan, Silent Operation, Thermal Actuator	Axial	Auto Shutter White	-	24	73	263
	100mm	V100LDLV	12v Surface Fan, TRW50 TX 230/12v	Axial	LD White	-	14	25	93
	125mm	V125LDLV	12v Surface Fan, TRW50 TX 230/12v	Axial	LD White	-	24	49	175
	150mm	V150SLV	12v Surface Fan, TRW50 TX 230/12v	Axial	Square White	-	24	72	260
	150mm	V150LDLV	12v Surface Fan, TRW50 TX 230/12v	Axial	LD White	-	29	65	236

TT PRO SERIES - 2 SPEED UNITS

Mixed Flow fans are great for continuous or periodic exhaust ventilation of bathrooms, kitchens, showers etc, offers powerful airflow over longer distances

VTTPRO125,
VTTPRO150,
VTTPRO250,
VTTPRO315

Duct Size	ESC Code	Description	Fan Type	Fan Watt (W)	Air Performance	
					l/s	M³/Hr
125mm	VTTPRO125	230vac 2 Speed	Mixed Flow	23	61	220
				37	77	280
150mm	VTTPRO150	230vac 2 Speed	Mixed Flow	23	115	415
				33	156	565
250mm	VTTPRO250	230vac 2 Speed	Mixed Flow	26	305	1100
				33	388	1400
250mm	VTTPRO315	230vac 2 Speed	Mixed Flow	26	305	1100
				33	388	1400

Speed 1 Speed 2

ELF PRO SERIES - 2 SPEED UNITS

Mixed Flow fans are great for continuous or periodic exhaust ventilation of bathrooms, kitchens, showers etc, offers powerful airflow over longer distances

Duct Size	ESC Code	Description	Fan Type	Fan Watt (W)	Air Performance	
					l/s	M³/Hr
150mm	ELFPRO150	230vac 2 speed	Mixed Flow	46	144	520
				58	180	650

Speed 1 Speed 2

AXIAL FAN SERIES

Continuous or periodic exhaust ventilation of bathrooms, showers, kitchens and other utility spaces. Low to medium airflow for short distances at low air resistance

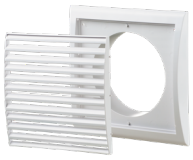
VIF100, VIF125

VIF150

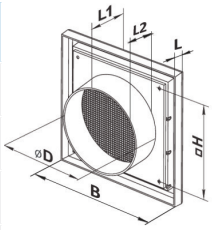
Duct Size	ESC Code	Description	Fan Type	Fan Watt (W)	Air Performance	
					l/s	M³/Hr
100mm	VIF100	230vac Inline Fan	Axial	14	29	107
125mm	VIF125	230vac Inline Fan	Axial	16	52	190
150mm	VIF150	230vac Inline Fan	Axial	28	108	389
150mm	VIFECO	230vac Inline Fan	Axial	36	97	350

FIXED GRILLE

Fixed Grille for internal and external mounting - ABS Plastic



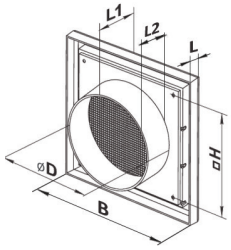
Duct Size	ESC Code	Description	Dimensions					
			B mm	H mm	L mm	L1 mm	L2 mm	Flange (⌀D) mm
100mm	VFG100	Fixed Grille Square White	140	140	15	47	32	100
125mm	VFG125	Fixed Grille Square White	174	174	15	47	32	125
150mm	VFG150	Fixed Grille Square White	174	174	15	47	32	150
200mm	VFG200	Fixed Grille Square White	250	215	12	43	30	200



EGGCRATE GRILLE

Eggrate Grille for external mounting - ABS Plastic

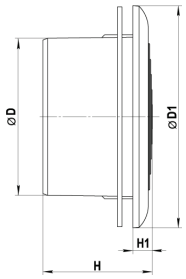
Duct Size	ESC Code	Description	Dimensions					
			B mm	H mm	L mm	L1 mm	L2 mm	Flange (⌀D) mm
100mm	EG100	Eggcrate Fixed White	140	140	15	47	32	100
125mm	EG125	Eggcrate Fixed White	174	174	15	47	32	125
150mm	EG150	Eggcrate Fixed White	174	174	15	47	32	150



ROUND GRILLE

Round Grille Fixed - ABS Plastic

Duct Size	ESC Code	Description	Dimensions			
			D1 mm	H mm	H1 mm	Flange (⌀D) mm
100mm	VRG100	Round Grille White	141	71	12.5	100
125mm	VRG125	Round Grille White	166	72	14	125
150mm	VRG150	Round Grille White	188	72	15	150

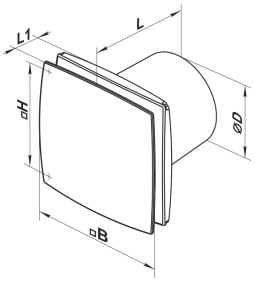


LD GRILLE

LD Grille - Decorative grille - UV Resistant, ABS Plastic

VLD100, VLD125, VLD150

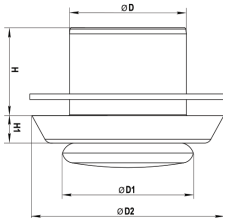
Duct Size	ESC Code	Description	Dimensions				
			B mm	H mm	L mm	L1 mm	Flange (⌀D) mm
100mm	VLD100	LD Grille Square White	149	149	58	30	100
125mm	VLD125	LD Grille Square White	206	206	63	34	125
150mm	VLD150	LD Grille Square White	206	206	70	36	150



DISC VALVE DIFFUSER

Disc Valve Diffuser is used to arrange correct and uniform air distribution, easy mount with lugs, flange and locking ring

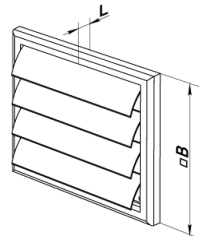
Duct Size	ESC Code	Description	Dimensions				
			H mm	H1 mm	ØD1 mm	ØD2 mm	Flange (ØD) mm
150mm	VDV150	Round Disc Valve Diffuser White	58	20	128	200	150

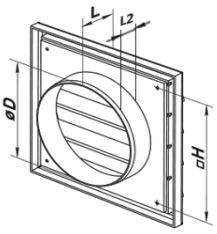


GRAVITY GRILLE

External Wall Mounted exhaust ventilation with gravity flaps - ABS Plastic

Duct Size	ESC Code	Description	Dimensions				
			B mm	H mm	L mm	L2 mm	Flange (ØD) mm
100mm	VGG100	Gravity Grille White	140	140	15	32	100
125mm	VGG125	Gravity Grille White	174	174	15	32	125
150mm	VGG150	Gravity Grille White	174	174	15	32	150

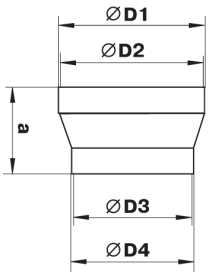




REDUCER

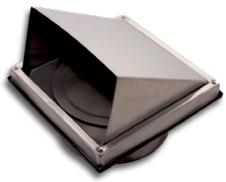
Reduces or increases the duct size when installed in Flexible duct - ABS Plastic

Duct Size	ESC Code	Description	Dimensions				
			A mm	ØD1 mm	ØD2 mm	ØD3 mm	ØD4 mm
125mm	VR100125	Reducer - 125 to 100	60	129	125	96	100
150mm	VR100150	Reducer - 150 to 100	60	154	150	96	100
150mm	VR125150	Reducer - 150 to 125	60	154	150	121	125
200mm	VR150200	Reducer - 200 to 150	71	204	200	146	150

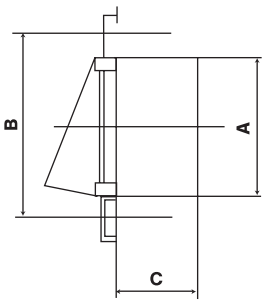


STAINLESS STEEL WEATHER COWL

Weather Cowls in Grade 304.

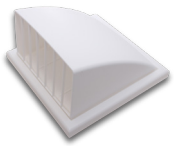


Duct Size	ESC Code	Description	Dimensions		
			A mm	B mm	C mm
125mm	VWC125SS	Stainless Steel Weather Cowl with Flap	120	167	52
150mm	VWC150SS	Stainless Steel Weather Cowl with Flap	145	167	62

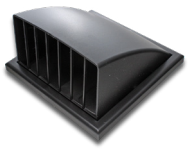


ABS WEATHER COWL

Weather Cowls come complete with backdraught shutter, also prevents access for Birds / Rodents etc - ABS Plastic

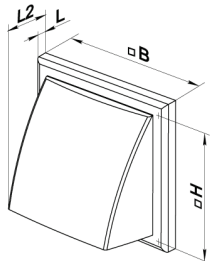


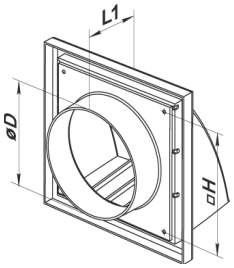
VWC100, VWC125
VWC150



VWC150B

Duct Size	ESC Code	Description	Dimensions					
			B mm	H mm	L mm	L1 mm	L2 mm	Flange (ØD) mm
100mm	VWC100	Weather Cowl With Flap White	186	142	15	45	101	100
100mm	VWC100B	Weather Cowl With Flap Black	186	142	15	45	101	100
125mm	VWC125	Weather Cowl With Flap White	186	142	15	45	101	125
150mm	VWC150	Weather Cowl With Flap White	186	142	15	45	101	150
150mm	VWC150B	Weather Cowl With Flap Black	186	142	15	45	101	150

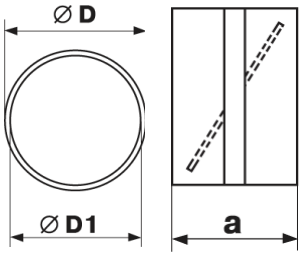




BACKDRAUGHT DAMPER

Inline fitted gravity shutter great for backdraught prevention - ABS Plastic

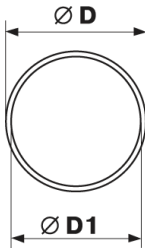
Duct Size	ESC Code	Description	Dimensions		
			A mm	D mm	D1 mm
100mm	VBD100	Back Draught Damper with Flap	62	100	96
125mm	VBD125	Back Draught Damper with Flap	62	125	123
150mm	VBD150	Back Draught Damper with Flap	62	150	148



DUCT CONNECTOR

Round connectors for supply and exhaust ventilation - ABS Plastic

Duct Size	ESC Code	Desciption	Dimensions		
			A mm	D1 mm	D mm
100mm	VDC100	Duct Connector	60	100	103
125mm	VDC125	Duct Connector	60	125	128
150mm	VDC150	Duct Connector	60	150	153



RIGID ALUMINIUM DUCT

Rigid spiral seam aluminium band air duct with high areodynamic and strength characteristics - Fire resistant (AS1530)

Duct Size	ESC Code	Description	Length mm	MAX Air Speed (m/s)	MAX Operating Pressure (pa)
100mm	RAD100	Rigid Aluminium Duct, Spiral Seam	375	30	3000
125mm	RAD125	Rigid Aluminium Duct, Spiral Seam	375	30	3000
150mm	RAD150	Rigid Aluminium Duct, Spiral Seam	375	30	3000

FLEXI ALUMINIUM DUCT

Flexible Aluminium ducting with laminated polyester, great for bathrooms, toilets, showers, range hoods and ducted heating systems

Duct Size	ESC Code	Description	Lengths m	MAX Air Speed (m/s)	MAX Operating Pressure (Pa)
100mm	AD1003	Flexible Air Duct - Aluminium Foil	3	30	3000
100mm	AD1006	Flexi Aluminium Duct, Spiral Seam	6	30	3000
125mm	AD1253	Flexi Aluminium Duct, Spiral Seam	3	30	3000
125mm	AD1256	Flexi Aluminium Duct, Spiral Seam	6	30	3000
150mm	AD1503	Flexi Aluminium Duct, Spiral Seam	3	30	3000
150mm	AD1506	Flexi Aluminium Duct, Spiral Seam	6	30	3000
200mm	AD2006	Flexi Aluminium Duct, Spiral Seam	6	30	3000
200mm	AD2003	Flexi Aluminium Duct, Spiral Seam	3	30	3000
250mm	AD2503	Flexi Aluminium Duct, Spiral Seam	3	30	3000
250mm	AD2506	Flexi Aluminium Duct, Spiral Seam	6	30	3000

FLEXI PVC DUCT

Flexible PVC duct wth spiral high carbon steel wire frame, great for bathrooms, toilets and showers

Duct Size	ESC Code	Description	Lengths m	MAX Air Speed (m/s)	MAX Operating Pressure (Pa)
100mm	PVCD1003	Flexible Air Duct - PVC	3	30	3000
125mm	PVCD1254	Flexible Air Duct - PVC	4	30	3000
150mm	PVCD1505	Flexible Air Duct - PVC	5	30	3000

ROOF COWL KIT

150mm through roof kit includes cowl and decktite seal.

Duct Size	ESC Code	Description
150mm	VRK150	Roof Cowl Kit

TRANSFORMER

Wire Wound Transformer for 230 to 12vac applications

ESC Code	Description
TRW50	Wire Wound Transformer 60VA 230/12vac IP68

TIMERS

Electronic Timers for Delay On and OFF applications

ESC Code	Description
VBRTV490	Delay off timer (2 - 40 mins) **MAX wattage is 100w**
VBRTV492	Delay off timer (1 sec - 90mins) Delay on timer (0 sec - 5 mins) **Max wattage is 150w**

CONTROL UNITS

Automation and control units*

ESC Code	Description	Rated Voltage	Wattage Max	Max Load A	Operating Temp	IP Rating
VBU-1-60	Control Unit - Time, Humid, Motion, PE, PC	230vac	60w	0.3	-10°C~+50°C	34
BU-1-60 THRF	Control Unit - Time, Humid, Motion, PE	230vac	60w	0.3	-10°C~+50°C	34
BU-1-60 THF	Control Unit - Time, Humid, PE	230vac	60w	0.3	-10°C~+50°C	34
BU-1-60 TF	Control Unit - Time, PE	230vac	60w	0.3	-10°C~+50°C	34

Model	Time	Humidity	Motion	PE	Pull Cord
BU-1-60	x	x	x	x	x
BU-1-60 THRF	x	x	x	x	
BU-1-60 THF	x	x		x	
BU-1-60 TF	x			x	

Features	
Time	5 sec to 30 min
Humidity	40% to 100%
Motion Sensor	5m / 130°
Photoelectric	Dark / Light
Pull Cord	30cm

* Suits through wall and surface only

HEALTHY HOMES
Ventilation Standard

G4 BATHROOM KITCHEN

G4 BATHROOM

G4 KITCHEN

REQUIREMENTS FOR KITCHEN EXTRACTOR FANS

Installed FROM 1 July 2019: The fan and all exhaust ducting must have a diameter of at least **150mm** OR the fan and all exhaust ducting must have an exhaust capacity of at **least 50 litres** per second. The fan must vent extracted air to outdoors.

Installed BEFORE 1 July 2019: No minimum size or performance requirements but fans must be in good working order and ventilate to outdoors. This means that the range hood or extractor fan must not vent back into the kitchen, into a roof space or other space. Any ducting must be connected, intact (i.e. without tears or holes) and installed so that extracted air can flow freely through it (e.g. no unnecessary kinks or compressions). Any grills or filters must be unclogged.

REQUIREMENTS FOR BATHROOM EXTRACTOR FANS

Installed AFTER 1 July 2019: The fan and all exhaust ducting must either have a diameter of at least **120mm** OR the fan and all exhaust ducting must have an exhaust capacity of at **least 25 litres** per second. The fan must vent extracted air to outdoors. Continuously operating extractor fans that operate at a level of extraction below 25 litres per second, or do not have a fan and ducting diameter of at least 120mm, are not capable of providing the necessary level of moisture extraction during a shower.

Installed BEFORE 1 July 2019: No minimum size or performance requirements but fans must be in a good working order and ventilate to outdoors. This means that the extractor fan must not vent extracted air into a roof space or other space. Any ducting must be connected, intact (i.e. without tears or holes) and installed so that exhaust air can flow freely through it (e.g. no unnecessary kinks or compressions). Any grills or filters must be unclogged.

4 simple steps to help you select the right fan for your application

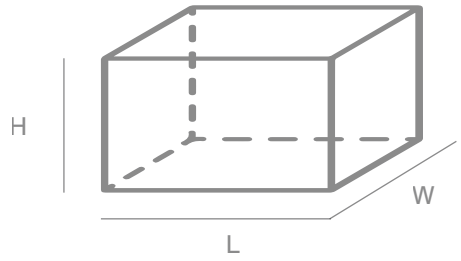
Step 1 Step 2 Calculate volume of your room & ACH

Step 1: Calculate the volume of your room

m
Length (L)
x
m
Width (W)
x
m
Height (H)
=
m^3
Room Size

x

Step 2: Once you have the volume of your room, then calculate air changes per hour



ACH = AIR CHANGE PER HOUR Measurement of the amount of air added or removed from a given area per hour. Please refer to the table below for a guide on selecting the correct solution.

Recommended ACH	Type of Room
10	*Toilet, Laundries, Office, Living Area*
15	*Ensuites, Showers, Bathrooms*
20	*Kitchens (excludes range hood), Laundries with dryer*

=

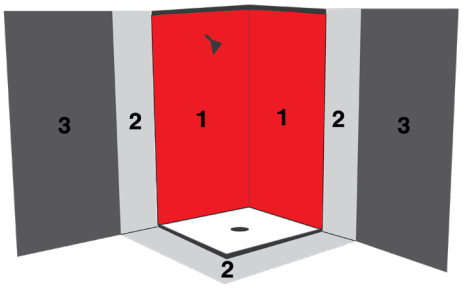
Room Calculations:

Living Room:	m^3/hr
Kitchen:	m^3/hr
Bathroom:	m^3/hr
Ensuite:	m^3/hr
Laundry:	m^3/hr
Toilet:	m^3/hr
Bedroom:	m^3/hr
Other:	m^3/hr

Step 3 Identify wet areas

Before installing an extractor fan into zone 1 or into a “wet area” complete step 1 and step 2 to ascertain the correct calculation of area and ACH. Then choose a suitable fan to preferably match the volume required. Then select the suitable location for the fan. Determined by AS/NZ3000.

Zone 1	Low Voltage Fan	Above Shower, Wet Areas
Zone 2	Any Fan	Bathroom
Zone 3	Any Fan	Bathroom



Step 4 Choosing the right fan type

Decide where is the most suitable position to locate the fan. This table determines what fan is suitable for which room. Ensure you have calculations from step one and two, then refer to the table below.

Tip: Select a fan that moves more than the amount of air calculated. (It is better to move more air rather than less).

Fan Type	Application	Zone
Contractor Packs	Laundry, Kitchen, Living Areas	2 & 3
Inline Ventilation Packs	Bathroom, Shower, Utility Spaces	2 & 3
Low Voltage Solutions	Bathroom, Above the Shower, Wet Areas	1
Wall & Ceiling Fans Packs	Walls, Ceiling, Living Areas	2 & 3
Ceiling Fans Packs	Bathroom (VHFL-2)	3
Window, Wall & Ceiling Fans	Windows, Walls, Ceilings	2 & 3

Name:

Sales Rep:

Contact:

(Volume of the room) x (Recommended ACH) = Fan max air capacity (M3h)

Calculate the volume of the room:

m	x	m	x	m	=	m³
Length		Width		Height		Room Size

Recommended ACH	Type of room
10	*Toilet, Laundries, Office, Living Area*
15	*Ensuites, Showers, Bathrooms*
20	*Kitchens (excludes range hood), Laundries with dryer*

Fan Max Air Capacity (M³h)

Living Room:	
Kitchen:	
Bathroom:	
Ensuite:	
Laundry:	
Toilet:	
Bedroom:	
Other:	

dB(a)	Characteristics	Sound Source
15	Hardly Audible	Medium Leaves Rustling Human Whisper (1m)
20		
25	Low Noise	Whisper, Wall Clock Ticking, Standard Sound Level for Residential Premises from 11pm - 7am
30		
35	Audible Enough	Low Speech, Standard Speech, Coventional Conversion
40		
45		
50	Definitely Audible	Conversion, Typing, Standard Sound Level for Offices
55		
60	Noisy	Office Standard Sound Level, Loud Conversation (>1m), Several Conversion (<1m), Loud Conversion (<1m)
65		

ELMARK™

AIR MOVEMENT

ESC

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