

Kitchens

Ummm something smells nice...

The kitchen is often the focal point of the home. It's the place where we cook, wash, eat and often entertain. It's also a source of heat, steam, and odours. Cooking smells can wet your appetite but unchecked they drift and linger throughout the house. Condensation can damage furnishings and too much heat can be a real problem in modern well-insulated dwellings.

Properly ventilated, the kitchen can remain a fresh environment in which to work and live.

Utility rooms are often a mix of heat from laundry equipment and VOC's from cleaning materials. They are subject to a variety of uses from clothes drying to washing the dog! Ventilation effectively extracts this water vapour and odours.

For installations that fall within the scope of Building Regulations the unit ventilation extract requirements are Kitchens 60l/s (30l/s with a cooker hood) and Utility rooms 30l/s. If the room does not have an

opening window then a fan with a built in timer should be selected. This will continue to run for at least 15 minutes after the room has been vacated.

Older properties present a different challenge. With generally larger rooms, higher ceilings but poorer insulation, the effects of condensation are often more obvious. Here, a better method of selecting a fan is based on room volume multiplied by air change.

- Domestic kitchens 15-20 ach
- Utility rooms 15-20 ach

For kitchen canopies a speed selectable model with a high speed of over 450m³/h is often necessary to capture the heat and steam from a hob with four pans. For island installations this extract figure needs to be doubled.

The extract point should always be positioned to capture water vapour and odours at source. With the exception of kitchen canopies, it should be located as

high as possible and provide a flow across the room with air replacement usually coming from the doorway.

Axial fans are suitable for through the wall or window fitting in most homes. For high-rise and exposed (e.g. coastal) locations, centrifugal fans will cope better with gusty conditions. Centrifugal and mixed flow units have a better pressure characteristic, which makes them more suitable where a ducted solution is required.

If there is a fuel burning appliance in the room, ensure that there is adequate air replacement for both the fuel burning appliance and the fan.

In a kitchen, the right position will usually be an external wall or a window, but keep away from direct heat sources over 40°C, such as an eye level grill.

And don't forget the fan needs to be accessible for regular cleaning. Ventilation, working effectively, will pick airborne particles, which would otherwise deposit to your décor.

Kitchen Product selector



Page Number	32	32	32	34	34	36-38	42	42
Fan Type	Axial	Axial	Axial	Centrifugal	Centrifugal	Centrifugal	Axial	Centrifugal
Positioning	Window / Wall	Window / Wall	Window / Wall	Wall	Wall	Wall	Ceiling	Ceiling
Max extract rate (m ³ /h)	266	266	549	245	250	851	329	286
Duct dia (mm)	n/a	n/a	n/a	100	100	125	200	102/150
Control Options								
Timer	■	■		■	■			
Pullcord		■	■	■	■			
Humidistat	■				■			



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www.applied-energy.com



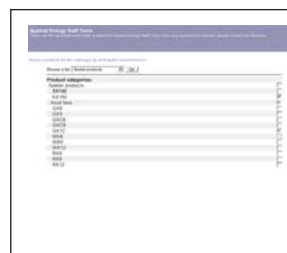
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Xpelair GX6, GXC6 & GXC9

Kitchen axial fans



Key features

Type:	Axial extract fan for wall or window mount
Application:	Domestic kitchens & utility rooms
Control options:	Pull cord Timer Humidistat
Legislation:	Conforms to Building Regulations
Hole size:	203mm (GX6 wall) 184mm (GX6 window) 266mm (GX9 wall) 257mm (GX9 window)



The Range

For over forty years the Xpelair **GX series** has remained the specifiers' classic solution to domestic ventilation applications. Today's 5th generation of **GX** units remains in tune with the times. They retain their hallmark rugged reliability and styling, and the range has been expanded to include innovations for a range of specialist tasks.

Xpelair **GX** models are purpose designed for use in domestic kitchens, utility rooms, large bathrooms and commercial applications such as small offices. They are highly efficient axial fans suitable for direct ventilation to the outside. Window, wall or panel mounting options are available using the universal mounting kit provided. All have a stylish white housing with integrated safety finger guard and silent shutter operation using an electro-thermal actuator (except **GXC6** where it is pullcord operated).

GXC models have an integral pullcord actuator. Timer and humidistat versions are also available along with multi-speed models. **GXC6SC** is also suitable for professional speed adjustment where there is a fuel burning appliance in the room. A trickle ventilation facility is available for background ventilation when not in use.

Xpelair **GX** and **GXC6** fans conform to Building Regulations mechanical ventilation for kitchens. They are designed for easy cleaning and maintenance, are BEAB approved and are rated as Class 1 earthed appliance.

For larger kitchens, especially in older properties, a larger volume of air flow may be appropriate in order to achieve the recommended air change rates. For these applications the **GXC9** may be more appropriate. Refer to page 68 for more details on larger wall and window models.

Select the right product for your application

		GX6	GX6T	GX6HT	GX6HT2	GXC6	GXC6T	GXC6SC	GXC9
Reference number		90800AW	90812AW	90814AW	90863AW	90850AW	90861AW	91142AW	8995AW
Integral electrothermal shutter		■	■	■	■		■	■	
Integral pullcord shutter						■	■	■	■
Integral adjustable run-on timer (2 to 20 mins)			■	■	■		■		
Humidity sensor (50-90% RH)				■	■				
Speeds		1	1	1	2	1	1	variable	1
Extract performance (FID, m ³ /h)	high	266	266	266	266	266	266	260	549
	low				222			83	
Extract performance (FID, l/s)	high	74	74	74	74	74	74	72	153
	low				62			23	
Sound pressure level (dB(A)@3m)	high	37	37	37	37	37	37	34	44
	low				34			25	
Electrical power rating (W)		30	30	30	30	30	30	30	32
Weight (kg)		1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.9
Hole Ø (mm)		184	184	184	184	184	184	184	257
Hole Ø with wall liner (mm)		203	203	203	203	203	203	203	266*
Guarantee (years, UK)		3	3	3	3	3	3	3	3

*for wall kit WK9/8, increase to 330mm for WK9/11

Models

GX6

Ref. 90800AW

- Single speed extract fan
- Operated by remote switch (not supplied)

GX6T

Ref. 90812AW

- Single speed extract fan
- Integral run on timer (adjustable from 2-20mins) operated by lighting circuit

GX6HT

Ref. 90814AW

- Single speed extract fan
- Automatic humidistat operation adjustable between 50-90% RH
- Integral run-on timer operated by the lighting circuit
- Timer adjustable from 2-20mins

GX6HT2

Ref. 90863AW

- Two speeds and humidistat or manual control selectable using an Xpelair TBS control (not supplied)
- Silent electrothermal shutter
- Automatic humidistat operation adjustable between 50-90% RH
- Integral run-on timer operated by room lighting circuit
- Timer adjustable from 2-20mins

GXC6

Ref. 90850AW

- Single speed extract fan
- Integral pullcord switches fan On and opens shutter

GXC6T

Ref. 90861AW

- Single speed extract fan
- Integral pullcord switches fan on and opens electrothermal shutter
- Pullcord off action actuates timer overrun (adjustable from 2-20mins) then closes shutter

GXC6SC

Ref. 91142AW

- Extract fan with adjustable speed control
- Integral pullcord switches fan On and opens shutter
- Built-in control allows performance to be set to suit room size or use
- Also suitable for professional speed adjustment where there is a fuel burning appliance in the room

GXC9 features over the GX6

Ref. 89995AW

- Nine inch high performance extract axial flow ventilation unit
- As GX6 with integral pullcord
- Integral pullcord turns fan On and operates shutter

Controllers

Timer and Boost Switch TBS

Ref. 90202AW

- Switch 1: switches between humidity control and manual operation
- Switch 2: High-low speed
- Suitable for use with GXC6HT2

Remote Humidistat XRH

Ref. 21856AW

- Stand alone humidistat switches fan On/Off when RH reaches pre-set levels
- Complete with pullcord override switch
- Suitable for use with GX6

Remote Time Controller DT20B

Ref. 21850AW

- Provides continued ventilation run-on period after light has been switched Off
- User adjustable run on timer (2-20 mins)

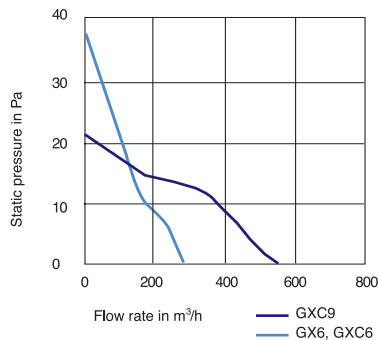
Passive Infrared Sensor XPIRA

Ref. 21871AA

- Activates fan via body movement. Ideal for infrequently used public spaces.
- Built in timer to prevent nuisance tripping
- Suitable for use with GX6

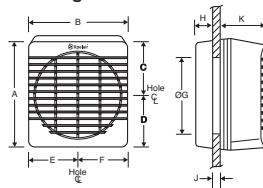
Typical Specifications on page 129.
Wiring Diagrams on page 143.

Performance

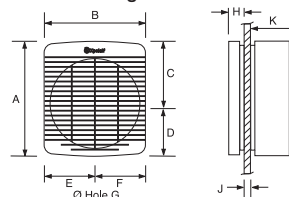


Dimensions

GX6 Range



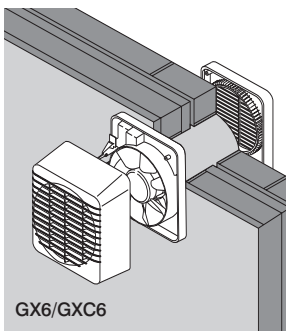
GXC9 Range



Dimensions (mm)

Model	A	B	C	D	E	F	ØG	H	J	K
GX6, GX6C	226	210	119	107	109	101	184/203	32	4-25	112
GXC9	312	294	165	147	147	147	257/266	32	4-25	117

Installation and Accessories

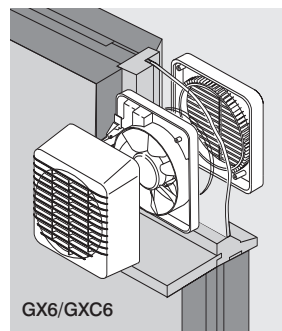


Wall Mounting

Hole diameter: 203mm

Installation Accessories

Wall Kit 200mm Ref. 89369AA
Wall Kit 280mm Ref. 89370AA
Longer ladder strips* Ref. 89382AA
Protective Wall Grille PG6
Ref. 89375AA

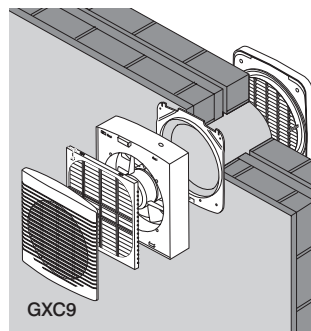


Window Mounting

Hole diameter: 184mm

Installation Accessories

Longer ladder strips*
Ref. 89382AA

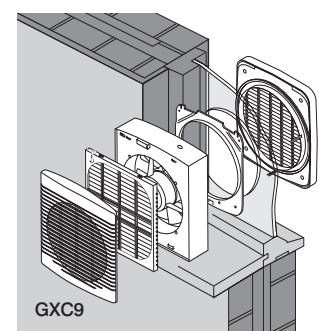


Wall Mounting

Hole diameter: 266mm

Installation Accessories

Wall Kit 200mm Ref. 89371AA
Wall Kit 280mm Ref. 89372AA
Longer ladder strips* Ref. 89382AA
Protective Wall Grille PG9
Ref. 89376AA



Window Mounting

Hole diameter: 257mm

Installation Accessories

Longer ladder strips*
Ref. 89382AA

*for walls/windows over 25mm thick, longer ladder strips are required (see page 79)

Xpelair Premier DX400 & CF40

Centrifugal extract and condensation control fans



Key features

Type:	DX centrifugal extract and CF condensation control fans
Application:	Domestic kitchens, utility rooms and larger bathrooms; commercial bathroom, small offices and public toilets
Control options:	Pull cord, timer and humidistat
Legislation:	Conforms to Building Regulations
Hole size:	115mm



Select the right product for your application

	DX400	DX400T	DX400PC	DX400RS	CF40	CF40TD	CF40RSTD
Reference number	91083AW	91084AW	91100AW	91085AW	91086AW	91087AW	91188AW
Remote switch (supplied separately)	■	■		■			
Remote switch (supplied)							■
Integral pullcord			■		■	■	
Integral adjustable run-on timer (30s to 20 mins)		■				■	■
Humidity sensor (50-90% RH)					■	■	■
Quick visit facility (2 minutes)		■				■	
Speeds	2	3	3	3	5	5	5
Trickle ventilation facility		■	■	■	■	■	■
Extract performance (FID, m³/h)	boost				250	250	250
	speed 3				174	174	174
	speed 2	245	245	245	143	143	143
	speed 1	143	143	143	90	90	90
Extract performance (FID, l/s)	trickle		61	61	61	61	61
	boost				69	69	69
	speed 3				48	48	48
	speed 2	68	68	68	40	40	40
Sound pressure level (dB(A)@3m)	speed 1	40	40	40	25	25	25
	trickle		17	17	17	17	17
	boost				55	55	55
	speed 3				46	46	46
Electrical power rating (W)	speed 2	55	55	55	40	40	40
	speed 1	42	42	42	33	33	33
Weight (kg)	trickle		27	27	27	27	27
	Electrical power rating (W)	78	78	78	78	77	77
Weight (kg)	3	3	3	3	3	3	3
IP rating	IPX5	IPX5	IPX5	IPX5	IPX5	IPX5	IPX5
Guarantee (years, UK)	3	3	3	3	3	3	3

The Range

Kitchen ventilation has never looked so good. Since its launch, Premier has taken the ventilation market by storm. **DX400** extract and **CF40** condensation control fans are no exception. These pressure developing centrifugal fans are sleekly styled and are ideally suited for use in kitchens, utility rooms and larger bathrooms and toilets and individual offices.

They can be surface or flush mounted in walls and ceilings using the universal mounting accessories provided, and include a back draught shutter and outlet grille. Both models have their inlet discreetly concealed behind a stylish white front cover. This cover is held in position by clips for easy removal for cleaning.

Control options include integral pullcord and timer. Models with an integral humidistat offer automatic control. **CF40TD** features a delay start 'quick visit' facility preventing the fan from coming on should the light be switched on and then off within 2 minutes.

All models are IPX5 rated and BEAB approved. They are all suitable for 220-240V 50Hz mains operation and feature external rotor motors with integral balanced impellers, sealed for life maintenance free bearings and safety thermal cut out protection.

Models

Premier DX400

Ref. 91083AW

- Two speed centrifugal fan
- Pre-select speed to suit application
- Alternatively use optional COS switch to change between speeds and On/Off
- Includes external wall grille

Premier DX400T

Ref. 91084AW

- Two speed centrifugal fan with timer
- Pre-select speed to suit application
- Alternatively use optional COS switch to change between speeds
- Timer is typically connected to lighting circuit
- Built in run-on period after the light has been switched Off, user adjustable from 30s-20min
- 'QuickVisit' delay feature prevents the fan from running should the light be switched On/Off again within two minutes
- Fan running status lights
- Includes external wall grille

Premier DX400PC

Ref. 91100AW

- High, Low, On/Off with tricklevent operated by integral 3 position pullcord switch
- Fan running status lights
- Includes external wall grille

Premier DX400RS

Ref. 91085AW

- Two speed centrifugal fan
- Pre-select speed to suit application
- Alternatively use optional COS switch to change between speeds and On/Off
- Trickle vent option is activated by a preset switch on the unit

- Fan running status lights
- Includes external wall grille

Premier CF40

Ref. 91086AW

- Condensation Control Range with humidistat
- Automatic operation through integral humidity sensor
- Pullcord selects High, Low, Off or Trickle

Premier CF40TD

Ref. 91807AW

- Automatic operation through integral humidistat
- Pullcord selects High, Low, Off or Trickle
- Timer is typically connected to a lighting circuit
- Built-in run-on period after the light has been switched Off, user adjustable from 30s-20min
- 'QuickVisit' delay feature prevents the fan from running should the light be switched On/Off again within two minutes
- Fan running status lights
- Includes external wall grille

Premier CF40RSTD

Ref. 91088AW

- Automatic operation through integral humidistat
- MOS remote switch (supplied) selects high or low speed and can switch the unit Off (or to tricklevent).
- Timer is typically connected to a lighting circuit
- Built in run on period after the light has been switched off
- User adjustable from 30sec-20min
- Fan running status lights
- Includes external wall grille

Note: For kitchen applications a grease filter PDXGF4 is recommended **Ref. 91145AA**

Controllers

Manual Override Switch MOS

Ref. 90199AW

- Switch 1 controls the high/low speed levels and Switch 2 controls On/Off and the tricklevent option

Change Over Switch COS

Ref. 90108AW

- Used to select between high and low speed operation

Remote Humidistat XRH

Ref. 21856AW

- Stand alone humidistat switches fan On/Off when RH reaches pre-set levels. Complete with pullcord override switch

Remote Time Controller DT20B

Ref. 21850AW

- User adjustable run-on timer (2-20mins)

Passive Infrared Sensor XPIRA

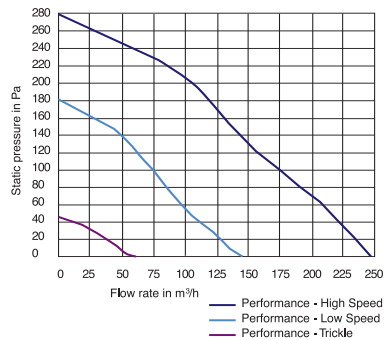
Ref. 21871AA

- Activates fan via body movement
- Ideal for infrequently used public spaces
- Built in timer to prevent nuisance tripping

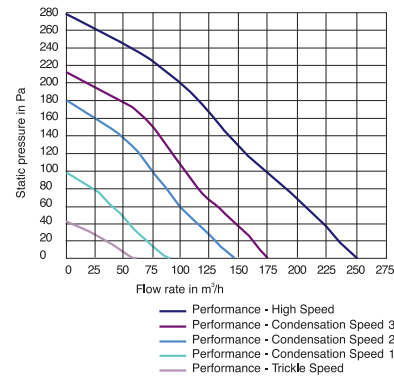
Typical Specifications on page 129.
Wiring Diagrams on page 144.

Performance

DX400 Range

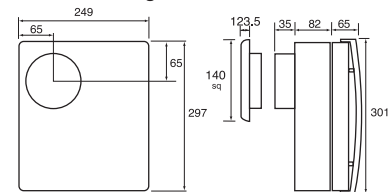


CF40 Range

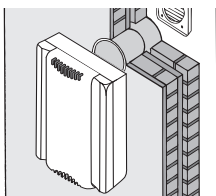


Dimensions

DX400/CF40 Range



Installation and Accessories



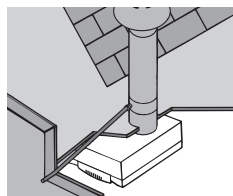
Wall Mounting

Hole diameter: 115mm
Ducting size: 100mm

Installation Accessories

Easy fit kit EFT
Wall Tube WD100

Ref. 90427AA
Ref. 89543AA

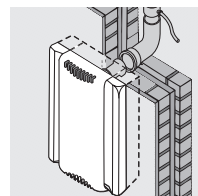


Ceiling Mounting

Hole diameter: 115mm
Ducting size: 100mm

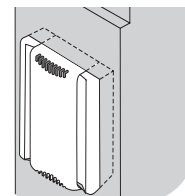
Installation Accessories

Flat ducting XFP
Flexible ducting FD100
Condensation trap XCT100
Vent cowl VC10
Ceiling mounting kit XCMK



Ducted Applications

see **Profile 60**
Ref. 89910AA
Ref. 89749AA
Ref. 89531AA
Ref. 90066AA



Ventilation Shaft Mounting

Hole diameter: 115mm
Ducting size: 100mm

Xpelair Nouvelle Cuisine

Kitchen canopies



Key features

Type:	Kitchen canopy
Application:	Domestic kitchens
Control options:	Integral
Legislation:	Conforms to Building Regulations



Wiring Diagrams on page 144.

Splashbacks

	60	70	90	100	110
Reference number	91204AW	91205AW	91206AW	91207AW	91208AW
Colour	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Size (mm)	600x750	700x750	900x750	1000x750	1100x750

The Range

For many households the kitchen is the busiest room in the home. As well as an area for cooking, it is often the main focal point for family and guests.

But with cooking odours, steam and condensation continually building up, keeping the kitchen fresh and pleasant is a constant problem. The **Nouvelle Cuisine** range of kitchen canopies is elegantly designed to suit every kitchen design and budget.

Using powerful extraction and filters every model in the range will keep rooms free of steam and odour – leaving behind a fresh and comfortable environment.

Crafted from high quality materials such as stainless steel and glass and equipped with push button controls and built-in spotlights, the **Nouvelle Cuisine** kitchen canopies are a stylish addition to any kitchen.

With wall fix, island and built-in models available, the **Nouvelle Cuisine** range provides flexibility and choice for the perfect fit, practicality and ease of use.

Models

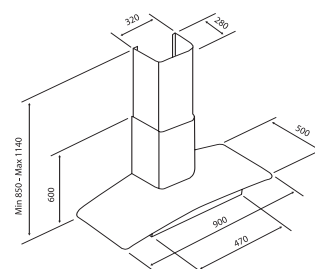
90 Curved Ref. 91202AW

Description: 90cm Curved Glass Canopy
Colour: Stainless Steel and Glass
Duct size: 125mm

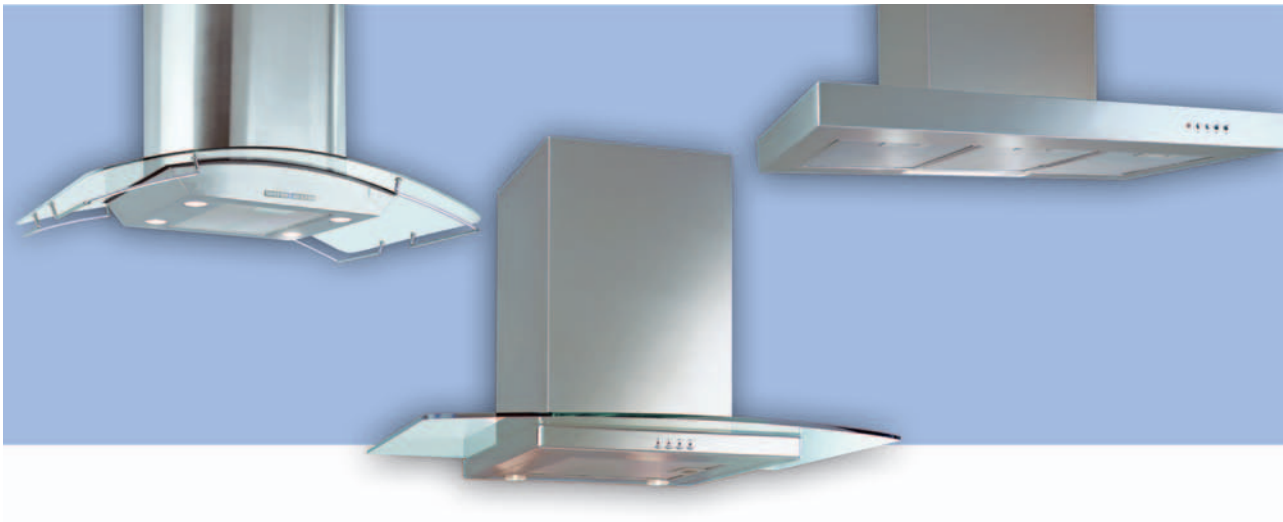
Features / Specification

- 90cm Curved Glass Canopy
- 3 speed levels
- Stainless steel finish
- Recirculation or extraction
- Maximum extraction rate 480m³/h
- Electronic touch control & built in timer
- 200W motor
- Twin 50W halogen spotlights
- Aluminium grease filter
- Optional carbon filter system

Dimensions



	90 Curved
Reference number	91202AW
Maximum width (mm)	900
Freestanding	■
Finish	stainless steel & glass
Max extraction rate (m ³ /h)	480
Max extraction rate (l/s)	133
Motor rating (W)	200
Speeds	3
Speed adjustment	electronic
Recirculation	■
Extraction	■
Duct size (mm)	125
No. grease filters	1
Grease filter type	aluminium
Additional carbon filter system	optional
Built-in lighting	
Built-in spotlights	2 x 50W
Guarantee (years, UK)	3



Models

90 Island

Ref. 91203AW

Description: 90cm Island Glass Canopy
Colour: Stainless Steel and Glass
Duct size: 125mm

Features / Specification

- 90cm Island Glass Canopy
- 3 speed levels
- Stainless steel finish
- Recirculation or extraction
- Maximum extraction rate 851m³/h
- Electronic touch control & built in timer
- 240W motor
- Twin 50W halogen spotlights
- Aluminium grease filter
- Optional carbon filter system

60 / 90 Flat

Ref. 91200AW / Ref. 91201AW

Description: 60/90cm Flat Glass Canopies
Colour: Stainless Steel and Glass
Duct size: 125mm

Features / Specification

- 60/90cm Flat Glass Canopies
- 3 speed levels
- Stainless steel finish
- Recirculation or extraction
- Maximum extraction rate 480m³/h
- Electronic touch control & built in timer
- 200W motor
- Twin 50W halogen spotlights
- Aluminium grease filter
- Optional carbon filter system

70 / 90 Box

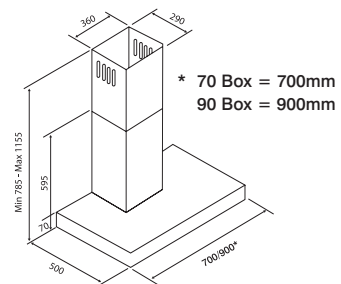
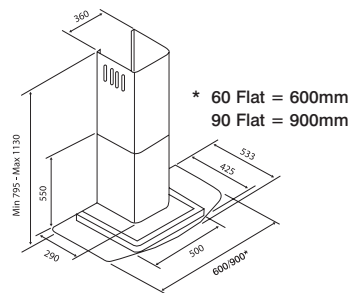
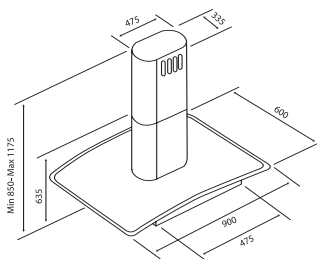
Ref. 91198AW / Ref. 91199AW

Description: 70/90cm Box Canopies
Colour: Stainless Steel
Duct size: 125mm

Features / Specification

- 70/90cm Box Canopies
- 3 speed levels
- Stainless steel finish
- Recirculation or extraction
- Maximum extraction rate 480m³/h
- Push button control panel
- 200W motor
- Built in twin spotlights
- Twin aluminium grease filters
- Optional carbon filter system

Dimensions



90 Island	60 Flat	90 Flat	70 Box	90 Box
91203AW	91200AW	91201AW	91198AW	91199AW
900	600	900	700	900
■	■	■	■	■
stainless steel & glass	stainless steel & glass	stainless steel & glass	stainless steel	stainless steel
851	480	480	480	480
236	133	133	133	133
240	200	200	200	200
3	3	3	3	3
electronic	electronic	electronic	push button	push button
■	■	■	■	■
■	■	■	■	■
125	125	125	125	125
1	1	1	2	3
aluminium optional	aluminium optional	aluminium optional	aluminium optional 2 x 40W	aluminium optional 2 x 40W
2 x 50W	2 x 50W	2 x 50W	3	3
3	3	3		

Xpelair Nouvelle Cuisine

Kitchen canopies



Models

60 / 90 Tonda

Ref. 91196AW / Ref. 91197AW

Description: 60/90cm Tonda Canopies

Colour: Stainless Steel

Duct size: 125mm

Features / Specification

- 60/90cm Tonda Canopies
- 3 speed levels
- Stainless steel finish
- Recirculation or extraction
- Maximum extraction rate 480m³/h
- Sliding control panel
- 200W motor
- Built in twin spotlights
- Twin aluminium grease filters
- Optional carbon filter system

60 / 90 Chimney

Ref. 91194AW / Ref. 91195AW

Description: 60/90cm Chimney Canopies

Colour: Stainless Steel

Duct size: 125mm

Features / Specification

- 60/90cm Chimney Canopies
- 3 speed levels
- Stainless steel finish
- Recirculation or extraction
- Maximum extraction rate 480m³/h
- Push button control panel
- 200W motor
- Built in twin spotlights
- Twin aluminium grease filters
- Optional carbon filter system

Inset

Ref. 91192AW

Description: 60cm Inset Canopy

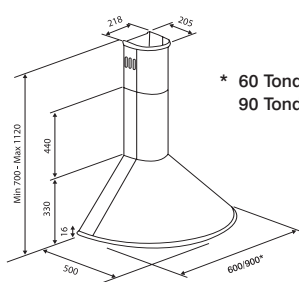
Colour: Stainless Steel

Duct size: 125mm

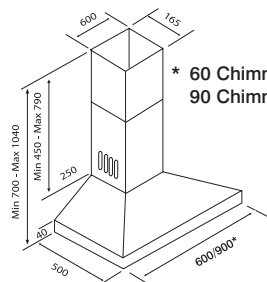
Features / Specification

- 60cm Inset Canopy
- 3 speed levels
- Available in silver finish
- Recirculation or extraction
- Maximum extraction rate 229m³/h
- Sliding control panel
- 140W motor
- Built in twin spotlights
- Carbon filter system
- Acrylic grease filter in metal grid casing

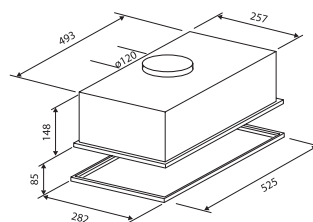
Dimensions



* 60 Tonda = 600mm
90 Tonda = 900mm



* 60 Chimney = 600mm
90 Chimney = 900mm



	60 Tonda	90 Tonda	60 Chimney	90 Chimney	Inset
Reference number	91196AW	91197AW	91194AW	91195AW	91192AW
Maximum width (mm)	600	900	600	900	525
Freestanding	■	■	■	■	■
Integrated					■
Finish	stainless steel	stainless steel	stainless steel	stainless steel	silver
Max extraction rate (m ³ /h)	480	480	480	480	229
Max extraction rate (l/s)	133	133	133	133	64
Motor rating (W)	200	200	200	200	140
Speeds	3	3	3	3	3
Speed adjustment	slider	slider	push button	push button	slider
Recirculation	■	■	■	■	■
Extraction	■	■	■	■	■
Duct size (mm)	125	125	125	125	125
No. grease filters	2	2	2	2	1
Grease filter type	aluminium	aluminium	aluminium	aluminium	acrylic filter in metal casing
Additional carbon filter system	optional	optional	optional	optional	■
Built-in lighting	2 x 40W	2 x 40W	2 x 40W	2 x 40W	2 x 40W
Guarantee (years, UK)	3	3	3	3	3



Models

Integrated

Ref. 91193AW

Description: 60cm Integrated Canopy
Colour: Silver
Duct size: 125mm

Features / Specification

- 60cm Integrated Canopy
- 3 speed levels
- Available in silver finish
- Recirculation or extraction
- Maximum extraction rate 350m³/h
- Sliding control panel
- 125W motor
- Built in twin spotlights
- Metallic grease filter in aluminium grille
- Optional carbon filter system

Standard

Ref. 91189AW - White

91190AB - Brown
Description: 60cm Standard Canopy
Colour: White or Brown
Duct size: 125mm

Features / Specification

- 60cm Standard Canopy
- 3 speed levels
- Available in white or brown finish
- Recirculation or extraction
- Maximum extraction rate 200m³/h
- Sliding control panel
- 125W motor
- Built in twin spotlight
- Additional carbon filter system
- Acrylic grease filter in metal grid casing

Standard Plus

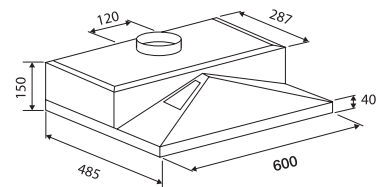
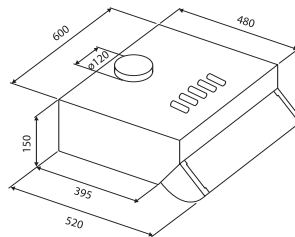
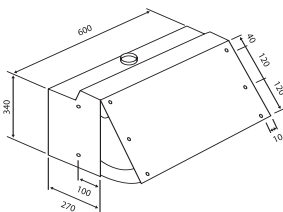
Ref. 91191AW

Description: 60cm Standard Plus Canopy
Colour: Stainless Steel
Duct size: 125mm

Features / Specification

- 60cm Plus Canopy
- 3 speed levels
- Stainless steel finish
- Recirculation or extraction
- Maximum extraction rate 200m³/h
- Sliding control panel
- 125W motor
- Built in twin spotlights
- Twin aluminium grease filters
- Additional carbon filter system

Dimensions



	Integrated	Standard	Standard	Standard Plus
Reference number	91193AW	91189AW	91190AB	91191AW
Maximum width (mm)	600	600	600	600
Freestanding	■	■	■	■
Integrated	■			
Finish	silver	white	brown	stainless steel
Max extraction rate (m ³ /h)	350	200	200	200
Max extraction rate (l/s)	97	56	56	56
Motor rating (W)	125	125	125	125
Speeds	3	3	3	3
Speed adjustment	slider	slider	slider	slider
Recirculation	■	■	■	■
Extraction	■	■	■	■
Duct size (mm)	125	125	125	125
No. grease filters	1	1	1	2
Grease filter type	metallic filter in aluminium grille	acrylic filter in metal casing	acrylic filter in metal casing	aluminium
Additional carbon filter system	optional	■	■	■
Built-in lighting	2 x 40W	2 x 40W	2 x 40W	2 x 40W
Guarantee (years, UK)	3	3	3	3

Xpelair Profile 60

Flat ducting system



Key features

Type:	Low profile flat plastic ducting
Application:	Kitchen canopies & Premier range, particularly DX400 & CF40
Size options:	60mm plastic
Installation:	Simple push fit & easily concealed



The Range

Where space is limited for conventional duct systems, Xpelair **Profile 60** provides an innovative solution to connect internally fitted extract units to the outside world.

A common problem when fitting ductwork in the average kitchen is the lack of space left by large kitchen cupboards. The

Profile 60 provides the ideal solution – an adaptable, lightweight system that can be tailored to fit individual room layouts.

Fast and easy to install, the clean white components of the system can be wall or ceiling mounted. It can be fitted between concrete floor slabs and plasterboards ceilings, as vertical risers in stud partitioning or under the floor.

Profile 60 components are manufactured in flame retardant PVC conforming to DIN4102/B1.M1. The lightweight and easy to handle straight duct can be cut to length using a conventional cross cut saw and the system includes a full range of vertical and horizontal bends for easy installation.

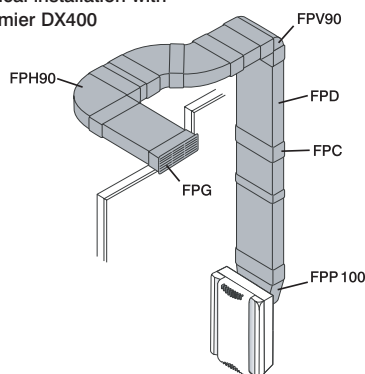
Quick-fit support clips hold the system in place and the whole system can be concealed behind plasterboard for discreet functionality.

Profile 60 is designed to work with a number of kitchen canopies, wholehouse systems and extract systems to make up the complete ducting solution.

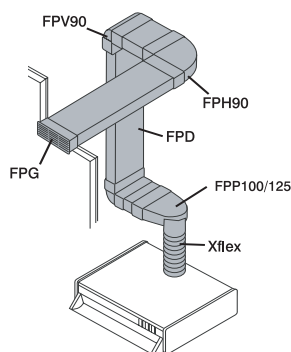
Profile 60 Flat Plastic Ducting - 204 x 60mm

Product	Product Ref	Description	Dimensions (mm)	Spigot Ø (mm)	Ref.
	FPD100	Flat ducting, 1 metre length	204 x 60		89755AA
	FPD150	Flat ducting, 1.5 metre length	204 x 60		91188AA
	FPA	Horizontal bend adjustable	204 x 60		89750AA
	FPG	Wall outlet grille	204 x 60		89751AA
	FPP100	Plenum box	204 x 60	100	89752AA
	FPP125	Plenum box	204 x 60	125	91259AA
	FPV90	Vertical 90° bend	204 x 60		89753AA
	FPH90	Horizontal 90° bend	204 x 60		89754AA
	FPB	Mounting bracket (boxed in 5's)	204 x 60		89756AA
	FPC	Coupling	204 x 60		89757AA
	FPT	T piece	204 x 60		90091AA

Typical installation with Premier DX400



Typical kitchen canopy installation



Additional Accessories

Acoustic Airbrick XAAB Ref. 91166AW

Acoustic Airbrick XAABW with white grille Ref. 91162AW

Acoustic Airbrick XAABB with brown grille Ref. 91163AW

Acoustic Airbrick XAABC with Cotswold stone grille Ref. 91164AW

Acoustic Airbrick XAABT with terracotta grille Ref. 91165AW

- Suitable for use adjacent to noise nuisance areas including roads, railways and airports
- Weighted Sound Reduction Index Rw BS EN ISO717-1:1997 = 7

Ceiling Kit XCMK Ref. 90066AA

- Use with ceiling mounted ducted products
- Complete with tube, rubber gasket and foam strip

Condensation Trap XCT100 Ref. 89749AA

- For use with 100mm diameter ducting
- Prevents condensed water running back towards the fan in vertical PVCu ducted applications
- Collected water must be piped away to a convenient disposal point
- 20mm outlet

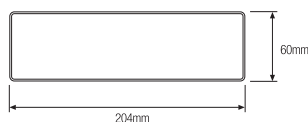
Fire Damper XFC100 Ref. 89843AA

- Provides 1 hour fire check in either direction
- Can be mounted at any angle

100mm Xflex FD100 Ref. 89663AA

- Wire helix flexible ducting
- 3m length

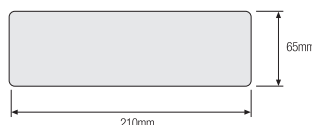
Dimensions



Profile 60

Flat channel outer dimensions are 204 x 60mm and fit into system parts sockets.

Cross section: 11200mm²



Minimum space required for installation: 210 x 65mm

Typical Specifications on page 130.

Xpelair CX10 & CMF

Ceiling mounted fans



Key features

Type: **Ceiling mounted axial and centrifugal fans**

Application: **Domestic kitchens, bathrooms and shower rooms**

Legislation: **Conforms to Building Regulations**



The Range

Where wall space is tight or at a premium, fitting an extraction system drawing air from the ceiling is the convenient and secure solution. What's more, ducted ceiling extract systems free you to position the unit for maximum benefit.

Suitable for domestic kitchens, larger utility rooms and power shower rooms. Light commercial applications include customer waiting areas, changing rooms, payment and ticket kiosks, smoking rooms, office kitchens, storage rooms, small meeting rooms and offices. Commercial applications include pub bars, factories, schools and shops.

Flush mounted, Xpelair **CX10** and **CMF** units have a white finish to blend into the ceiling décor.

Behind this neat fascia are efficient fan units, which connect directly to Xflex ductwork to exhaust to the outside. The **CX10** units are axial fans and the **CMF** units are pressure developing centrifugal fans.

In many commercial applications such as kiosks, retail clothing changing booths and copying rooms where heat build up is a problem it may be sufficient simply to dilute the air about the ceiling.

The **CX10** is especially suitable for dilution applications and short duct runs. **CMF** models are ideal for longer ducted extract systems.

Shallow in depth, several models will fit between the ceiling of the room and the floor above. In many of these applications it is good practice to consider sensor control. This operates automatically and only when necessary, saving energy.

All models are suitable for high humidity applications and have an unobtrusive flush design with finger-guard protection. Lubricated for life motors, with maintenance free bearings and safety thermal overload protection are standard across the range.

Select the right product for your application

	CX10	CMF171	CMF241	CMF271
Reference number	90209AB	89955AW	89956AW	89957AW
Remote switch (not supplied)	■	■	■	■
Extract performance (FID, m ³ /h)	329	63	146	286
Extract performance (FID, l/s)	91	18	41	79
Sound pressure level (dB(A)@3m)	44	38	41	41
Electrical power rating (W)	34	30	33	48
Weight (kg)	1.8	2.7	3.8	6.9
Hole size (mm)	300	185x185	248x248	273x273
Ducting size (mm)	200	102	102	150
Guarantee (years, UK)	3	3	3	3

Models

CX10

Ref. 90209AB

- Single speed axial flush mounted extract ceiling fan with stylish circular flush design.
- Unit comes complete with integral finger-guard and fly screen
- Lightweight two piece construction
- Moulded pre-balanced axial bladed impeller
- Suitable for steam and condensation applications
- Vertical spigot with 200mm diameter connection
- Operated by remote switch (not supplied)

CMF 171 Ref. 89955AW

CMF 241 Ref. 89956AW

CMF 271 Ref. 89957AW

- Flush mounted extract ceiling fans
- High performance single speed centrifugal pressure developing motor/fan/scroll assemblies
- Stylish square grille design with integral finger-guard
- Lightweight two piece construction with horizontal spigot outlet
- Cassette design allows ducting to be installed prior to the fan itself

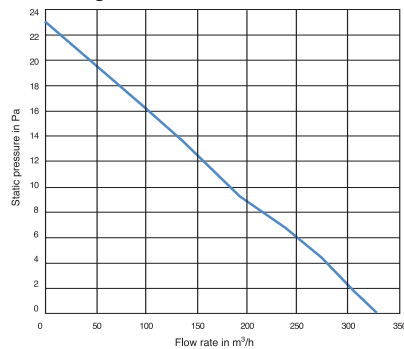
Tip

- In situations where there is a tight closing bathroom or kitchen door, air circulation can be prevented. To remedy the situation fit a slimline air-grille in white (89529AA) or brown (89530AA) in door thicknesses up to 35mm.

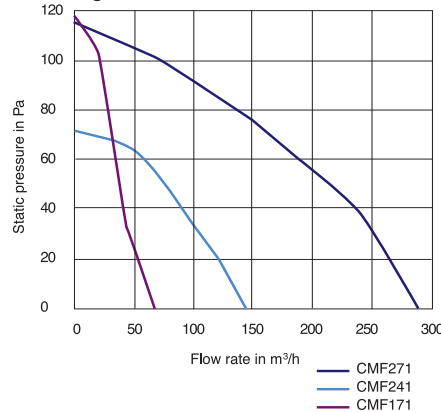
Typical Specifications on page 130.
Wiring Diagrams on page 144.

Performance

CX10 Range



CMF Range



Controllers

Remote Humidistat XRH

Ref. 21856AW

- Stand alone humidistat switches fan On/Off when RH reaches pre-set levels. Complete with pullcord override switch

Remote Time Controller DT20B

Ref. 21850AW

- User adjustable run-on timer (2-20mins)

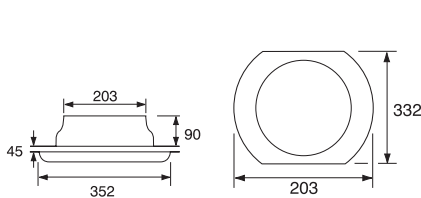
Passive Infrared Sensor XPIRA

Ref. 21871AA

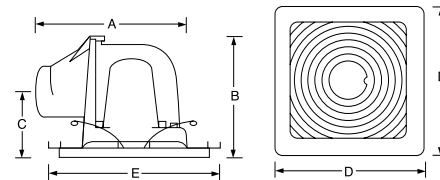
- Activates fan via body movement. Ideal for infrequently used public spaces. Built in timer to prevent nuisance tripping

Dimensions

CX10



CMF Range



Dimensions (mm)					
Model	A	B	C	D	E
CMF171	277	226	123	230	240
CMF241	343	260	133	290	319
CMF271	420	318	133	320	350

Installation and Accessories

Please be aware that fan performance will be affected by the use of ducting, grilles and shutters.

Termination Ducting Kit TDK8

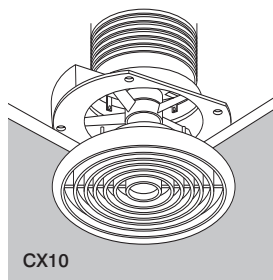
Ref. 89384AA

- For use with CX10
- Roof space ducting kit from fan to soffit board.
- Comprised flexible ducting, exterior grille, duct tie and fixings
- 2.5m duct length comprising 0.5m formed rectangular and 2m of 200mm diameter
- Grille dimensions 294 x 193mm

Back Draught Shutter CXS

Ref. 00150AB

- For use with CX10
- Prevents back draughts
- Used in conjunction with TDK8 termination ducting kit

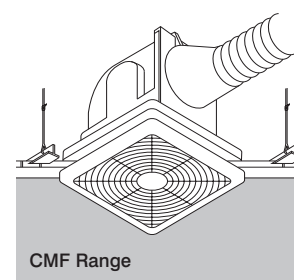


Ceiling Mounting

Hole diameter: 300mm
Ducting size: 200mm

Installation Accessories

Termination Ducting Kit TDK8
Ref. 89384AA
Back Draught Shutter CXS
Ref. 00150AB



Ceiling Mounting

Hole size: 185 x 185mm (CMF171)
248 x 248mm (CMF241)
273 x 273mm (CMF271)
Ducting size: 102mm (CMF171/241)
150mm (CMF271)

Xpelair Domestic Sensors & Switches



Remote Humidistat XRH
Ref. 21856AW

- Automatically switches On when the relative humidity reaches an adjustable preset point and switches off when the relative humidity drops
- Pullcord override switch
- Fan indicator light
- Surface or recess mounting
- Suitable for ambient temperatures up to 40°C
- 160 x 86mm
- Supply voltage 220-240V 50Hz
- Used with: Premier DX180, DX200, DX400, DX100, XIL, CMF, CX10, GX6



LoVolt Remote Humidistat LVH
Ref. 21863AW

- A 12V SELV LoVolt humidistat
- Automatically switches On when the relative humidity reaches an adjustable pre set point and switches Off when the relative humidity drops
- Pullcord override switch
- Fan indicator light
- Surface or recess mounting
- Suitable for ambient temperatures up to 40°C
- 160 x 86 mm
- Supply voltage 12V SELV
- Used with: Premier LoVolt DX200, LoVolt CF20, LoVolt DX100



Time delay unit DT20B
Ref. 21850AW

- Connected to a switching circuit such as a bathroom lighting
- Provides adjustable run on time delay after the light has been switched Off
- Time adjustable up to 20 minutes
- Surface or recess mounting
- Suitable for ambient temperature up to 40°C
- 100 x 86 mm
- Supply voltage 200 - 240V 50Hz
- Used with: Premier DX180, DX200, DX400, DX100, XIL, CMF, CX10, LoVolt DX100



Change Over Switch COS
Ref. 90108AW

- Used to select between high and low speed operation
- Surface or recess mounting
- 85x85mm
- Used with: DX400, DX400T, DX400RS



Manual Override Switch MOS
Ref. 90199AW

- Switch 1: high/low speed
- Switch2: On/Off (or Off/tricklevent according to fan option selected)
- Surface or recess mounting
- 85x85mm
- Used with: Premier DX200 and Premier DX400, DX400RS in conjunction with XRH Remote Humidistat.



Passive Infrared Sensor XPIRA
Ref. 21871AW

- For indoor use
- Automatically switches a fan on when body movement is detected
- Incorporates a delay timer
- 86x86mm
- Supply voltage 220-240V 50Hz
- Used with: Premier DX200, DX400, DX100, CMF, CX10, GX6



Timer and Boost Switch TBS
Ref. 90202AW

- Provides switching between humidity control / manual operation
- Manual operation at a high / low speed
- Surface or recess mounting
- 85x85mm
- Used with: GX6 and GXC6HT2

Xpelair Domestic Accessories



Flexible Ducting Xflex FD

	Dia	Length	
FD100	100mm	3m	Ref. 89663AA
		4.5m	Ref. 89910AA
		6m	Ref. 89669AA
FD125	125mm	3m	Ref. 89664AA
		6m	Ref. 89670AA
FD150	150mm	3m	Ref. 89665AA
		6m	Ref. 89671AA
FD200	200mm	3m	Ref. 89666AA
		6m	Ref. 89672AA

- Glass fibre fabric on a PVC coated close pitch steel wire helix. 54 minute fire integrity from within as measured to BS 476:Part 20 - (1987)
- Can be interlocked and sealed with duct tape to form an airtight seal. Attached to spigots using worm drive clips



Thermal Flexible Ducting Xflex TFD

	Dia	Length	
TFD100	100mm	5m	Ref. 89847AA
		10m	Ref. 91459AA
		10m	Ref. 89848AA
TFD125	125mm	5m	Ref. 91460AA
		10m	Ref. 89849AA
TFD150	150mm	5m	Ref. 91461AA
		10m	Ref. 89850AA
TFD200	200mm	5m	Ref. 91462AA
		10m	

- Double skinned insulated aluminium duct with high density fibreglass insulation to minimise condensation formulation
- 25 minute fire integrity from within as measured to BS 476: Part 20 - (1987)
- Can be interlocked and sealed with duct tape to form an airtight seal



New Aluminium Flexible Ducting Xflex ALU

	Dia	Length	
ALU100	100mm	10m	Ref. 91435AA
ALU125	125mm	10m	Ref. 91436AA
ALU150	150mm	10m	Ref. 91437AA
ALU200	200mm	10m	Ref. 91438AA

- Tough foil construction on a high strength wire helix
- Over 40 minute fire rating BS 476: Part 20 (1987)



Worm Drive Clips WDC

WDC5
Ref. 89684AA
Dia. 100-125mm

WDC8
Ref. 89685AA
Dia. 150-200mm

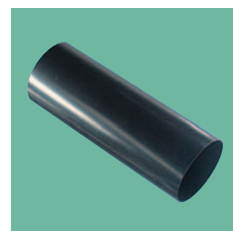
- For connection of flexible ducting to spigots
- Supplied in packs of 10



Premier Grease Filter PDXGF

For Premier DX200 models
Ref. 90548AA
For Premier DX400 models
Ref. 91145AA

- For Premier units in kitchen applications
- Fits behind the inlet
- Material: Self extinguishing black polyester foam

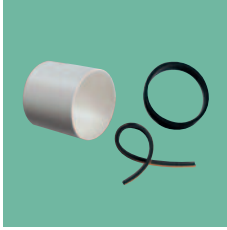


100mm Wall Duct WD100

Ref. 89543AA

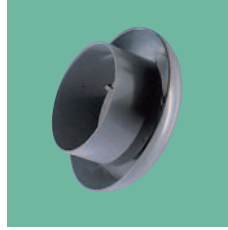
- Dia. 100mm
- Length 279mm
- For bridging cavities or lining solid exterior walls
- Mortared into position
- Used with: Premier DX200, CF20, Premier DX400, CF40
- The premier models above come complete with external grille. Premier DX180 also requires wall grille

Xpelair Domestic Accessories



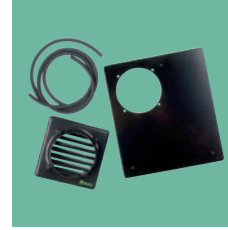
Ceiling Kit XCMK
Ref. 90066AA

- Allows a sealed ceiling mounting of ducted products
- Compete with ceiling adaptor tube 105.7mm dia, rubber gasket and foam strip
- Used with: Premier DX180, DX200, DX400



Vent Cowl VC10
Ref. 89531AA

- Provides weather protection for a 100mm PVCu rigid ducted outlet
- Pushfit and should be secured with solvent adhesive
- Cowl diameter: 200mm
- Material: PVCu
- Colour: Grey
- Used with: Premier DX180, DX200, DX400, DX100 axial models in exposed situations.

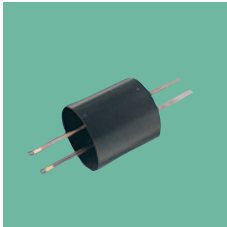


Glass Mounting Kits GMK & DXDG
Premier glass mounting kit GMK
Ref. 90546AA

- Used for installing Premier DX180, DX200 and CF20 models in a window
- Glass thickness: 4-28mm

DX100 double/triple glazing kit DXDG
Ref. 07439AA

- Allows DX100/LV100 to be mounted in double glazed panels from 6 to 46mm thick



GX Wall Kit WK
For GXC9 models
Ref. 89372AA

For GX6/GXC6 models
Ref. 89370AA

- For bridging cavity walls or lining solid double brick walls
- Steel wall liner. Length 280mm
- Set of 508 mm ladder strips



Condensation Trap XCT100
Ref. 89749AA

- For use with 100mm dia ducting
- Prevents condensed water running back down the duct towards the fan in vertical PVCu pipe ducted applications. (Not suitable for use in a flexible duct run)
- Collected water must be piped to a convenient disposal point
- Length: 85mm
- 20mm drain off point
- Colour: Grey
- Material: PVCu



Easy-Fix Termination Kit EFT
Ref. 90427AA

- Designed to be installed from inside a building through a cored out to Ø115mm (nominal) hole drilled in brickwork
- Easily cut to length
- Simple installation save times and cost
- Four sealing rings provide a watertight seal in the external wall
- Length: 350mm
- Used with: Premier DX180, DX200, CF20. Not suitable for 100mm axial fans



Airbrick Adaptor XAA
Ref. 89777AA

- A fabricated G.S.M 340mm sleeve to bridge a cavity and line a solid wall
- Connects to 100mm duct
- Includes an air brick
- GSM adaptor
- Used with all 100mm fans.



Spigot Plate SP100
Ref. 89697AA

- Connects a duct to the wall face
- 100mm spigot
- Material: Plastic
- Used with: All ducted 100mm fans.
- For larger diameter spigot plates see page 81



Fire Damper XFC
XFC100 Dia. 100mm Ref. 89843AA
XFC125 Dia. 125mm Ref. 89844AA
XFC150 Dia. 150mm Ref. 89845AA
XFC200 Dia. 200mm Ref. 89846AA

- Can be installed at any angle without affecting the operation
- Provides full 1 hour fire check in either direction



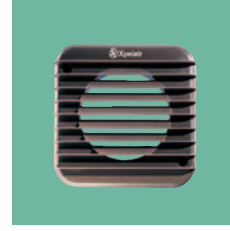
Wall Grille Gravity Shutter XXWG4
White Ref. 90174AW
Grey Ref. 90140AA

- Protected duct outlet fitted with gravity flaps
- 100mm dia connection
- Dimensions: 155 x 155 x 15mm



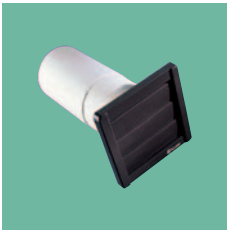
Wall Kit XXSWK4
Ref. 90333AW

- 100mm wall kit consists of wall duct, internal and external grilles foam strips and wall fixings
- Used with: XXS100



Wall Grille CFWG
CFWG100 - Grey Ref. 89215AB
CFWG100 - White Ref. 89742AW
CFWG150 - Grey Ref. 89690AB
CFWG150 - White Ref. 89857AW

- Surface mounted exterior wall outlet grille
- For use with 100mm / 150mm nominal size ducting
- Fixing screws provided
- Dimensions: 150 x 150 x 13mm (CFWG100)
217 x 217 x 24mm (CFWG150)
- Use with: 100mm axial variants.



Wall Vent Kit VK10
Ref. 89120AW

- To bridge a cavity or line a solid wall hole
- Complete with wall duct (WD), 155mm square external back-draught shutter, foam strip and wall fixings



Termination Ducting Kit WT
WT10 100mm Ref. 89538AA
WT15 150mm Ref. 89687AA

- For use in through wall applications, ducting can be terminated on the spigot
- Complete with exterior wall grille (CFWG), wall duct (WD), spigot plate (SP), fixing screws and plugs



Exterior Storm Cowl XXSCW XXSCB
XXSCW White Ref. 90461AW
XXSCB Brown Ref. 90462AB

- Provides protection against severe backdraughts and water ingress
- Fitted with gravity flap damper
- Wall mounted
- 100mm spigot
- Used with: 100mm axial fans.



Air Replacement Door Grilles DG-W DG-B
DG-W White Ref. 89529AA
DG-B Brown Ref. 89530AA

- Tight closing bathroom / toilet doors prevent air circulation to the fan. Air replacement grilles permit air to flow into the room with the door shut
- Slimline design
- Consists of two grilles and fixings
- Minimum door thickness 35mm
- Dimensions: 454 x 90mm overall
435 x 77mm hole



Slimline Wall Kit SLWK
SL100 Wall Kit Ref. 91232AW
SL150 Wall Kit Ref. 91233AW

- Wall kit consists of wall duct and external grille
- Used with: Slimline SL100 and SL150
- Adjustable length 215-380mm



Slimline Window Kit SLGK
SL100 Window Kit Ref. 91234AW
SL150 Window Kit Ref. 91235AW

- Window kit consists of internal housing and external grille box
- Used with: Slimline SL100 and SL150