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 450 m³/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

<table>
<thead>
<tr>
<th>Page Number</th>
<th>Fan Type</th>
<th>Positioning</th>
<th>Max extract rate (m³/h)</th>
<th>Duct dia (mm)</th>
<th>Control Options</th>
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Brochure Builder

Allows you to create your own e-brochure. It is an invaluable tool for specification work or for e-mailing product information. For further details visit www.Xpelair.co.uk and follow the steps outlined below:

www.applied-energy.com

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www.Xpelair.co.uk

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E-brochure

Once you have selected your products the electronic brochure is created so you can either print it yourself or e-mail to a customer.
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

<table>
<thead>
<tr>
<th>Reference number</th>
<th>GX6</th>
<th>GX6T</th>
<th>GX6HT</th>
<th>GX6HT2</th>
<th>GX6C</th>
<th>GXC6T</th>
<th>GXC6SC</th>
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</table>

*For wall kit WK8/8, 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

GX6/GXC6
- GXC6
  - Ref. 90850AW
    - Single speed extract fan
    - Integral pullcord switches fan On and opens shutter

GX6/GXC9
- GXC6
  - 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

GXC9
- Ref. 89995AW
  - Nine inch high performance extract axial flow ventilation unit
  - As GX6 with integral pullcord
  - Pullcord turns fan On and operates shutter

---

## Dimensions

### GX6 Range

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
</table>

### GXC9 Range

### 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.

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### Installation and Accessories

#### GX6/GXC6

- **Wall Mounting**: Hole diameter: 203mm
- **Window Mounting**: Hole diameter: 184mm

#### GX6/GXC9

- **Wall Mounting**: Hole diameter: 266mm
- **Window Mounting**: Hole diameter: 257mm

#### Installation Accessories

- **Wall Kit 200mm**: Ref. 89369AA
- **Wall Kit 280mm**: Ref. 89370AA
- **Longer ladder strips**: Ref. 89382AA
- **Protective Wall Grille PG6**: Ref. 89375AA
- **Protective Wall Grille PG9**: Ref. 89376AA

---

*X 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

---

**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.

---

**Select the right product for your application**

<table>
<thead>
<tr>
<th>Reference number</th>
<th>DX400</th>
<th>DX400T</th>
<th>DX400PC</th>
<th>DX400RS</th>
<th>CF40</th>
<th>CF40TD</th>
<th>CF40RSTD</th>
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</table>
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

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

Premier CF40
Ref. 91086AW
- Automatic operation through integral humidistat
- 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

Installation and Accessories

Wall Mounting

Hole diameter: 115mm
Ducting size: 100mm

Installation Accessories

Easy fit kit EFT
Ref. 90427AA
Wall Tube WD100
Ref. 89543AA

Ducted Applications

Hole diameter: 115mm
Ducting size: 100mm

Installation Accessories

Flexible ducting FD100
Ref. 89910AA
Condensation trap XCT100
Ref. 89749AA
Ceiling mounting kit XCMK
Ref. 90066AA

Performance

DX400 Range

Flow rate in m³/h
0 25 50 75 100 125 150 175 200 225 250
Performance - High Speed
Performance - Low Speed
Performance - Trickle

CF40 Range

Flow rate in m³/h
0 25 50 75 100 125 150 175 200 225 250
Performance - High Speed
Performance - Condensation Speed 1
Performance - Condensation Speed 2
Performance - Condensation Speed 3
Performance - Trickle Speed

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. 21855AW
- 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

DX400/CF40 Range

Hole diameter: 115mm
Ducting size: 100mm

Installation Accessories

Profile 60

Xcelair Premier DX400 and CF40 | Centrifugal extract and condensation control fans

35
Xpelair Nouvelle Cuisine
Kitchen canopies

Key features

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

Key features

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.

Wiring Diagrams on page 144.

The Range

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
Finish stainless steel & glass
Max extraction rate (m³/h) 480
Motor rating (W) 200
Speeds 3
Recirculation electronic
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

Splashbacks

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</tbody>
</table>

Wiring Diagrams on page 144.
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

<table>
<thead>
<tr>
<th>Models</th>
<th>90 Island</th>
<th>60 / 90 Flat</th>
<th>70 / 90 Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ref.</td>
<td>91203AW</td>
<td>91200AW / 91201AW</td>
<td>91198AW / 91199AW</td>
</tr>
<tr>
<td>Colour</td>
<td>Stainless Steel &amp; Glass</td>
<td>Stainless Steel &amp; Glass</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Duct size</td>
<td>125mm</td>
<td>125mm</td>
<td>125mm</td>
</tr>
<tr>
<td>Speeds</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Motor</td>
<td>240W</td>
<td>200W</td>
<td>200W</td>
</tr>
<tr>
<td>Lights</td>
<td>2 x 50W</td>
<td>2 x 50W</td>
<td>2 x 40W</td>
</tr>
<tr>
<td>Filters</td>
<td>Optional carbon filter system</td>
<td>Optional carbon filter system</td>
<td>Optional carbon filter system</td>
</tr>
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</table>
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

<table>
<thead>
<tr>
<th>Models</th>
<th>Reference number</th>
<th>Maximum width (mm)</th>
<th>Freestanding / Integrated</th>
<th>Finish</th>
<th>Max extraction rate (m³/h)</th>
<th>Max extraction rate (l/s)</th>
<th>Motor rating (W)</th>
<th>Speeds</th>
<th>Speed adjustment</th>
<th>Recirculation</th>
<th>Extraction</th>
<th>Grill size (mm)</th>
<th>No. grease filters</th>
<th>Grease filter type</th>
<th>Additional carbon filter system</th>
<th>Built-in lighting</th>
<th>Guarantee (years, UK)</th>
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</thead>
<tbody>
<tr>
<td>60 Tonda</td>
<td>91196AW</td>
<td>600</td>
<td>■</td>
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<td>480</td>
<td>133</td>
<td>200</td>
<td>3</td>
<td>slider</td>
<td>■</td>
<td>■</td>
<td>125</td>
<td>2</td>
<td>aluminium</td>
<td>optional</td>
<td>2 x 40W</td>
<td>3</td>
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<tr>
<td>90 Tonda</td>
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<td>480</td>
<td>133</td>
<td>200</td>
<td>3</td>
<td>slider</td>
<td>■</td>
<td>■</td>
<td>125</td>
<td>2</td>
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<td>optional</td>
<td>2 x 40W</td>
<td>3</td>
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<tr>
<td>60 Chimney</td>
<td>91194AW</td>
<td>600</td>
<td>■</td>
<td>stainless steel</td>
<td>480</td>
<td>133</td>
<td>200</td>
<td>3</td>
<td>push button</td>
<td>■</td>
<td>■</td>
<td>125</td>
<td>2</td>
<td>aluminium</td>
<td>optional</td>
<td>2 x 40W</td>
<td>3</td>
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<tr>
<td>90 Chimney</td>
<td>91195AW</td>
<td>900</td>
<td>■</td>
<td>stainless steel</td>
<td>480</td>
<td>133</td>
<td>200</td>
<td>3</td>
<td>push button</td>
<td>■</td>
<td>■</td>
<td>125</td>
<td>2</td>
<td>aluminium</td>
<td>optional</td>
<td>2 x 40W</td>
<td>3</td>
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<tr>
<td>Inset</td>
<td>91192AW</td>
<td>525</td>
<td>■</td>
<td>silver</td>
<td>229</td>
<td>64</td>
<td>140</td>
<td>3</td>
<td>slider</td>
<td>■</td>
<td>■</td>
<td>125</td>
<td>2</td>
<td>aluminium</td>
<td>acrylic filter in metal grid casing</td>
<td>2 x 40W</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional information**
- Colour: Stainless Steel
- Duct size: 125mm
- Features: Stainless steel finish, Recirculation or extraction, Maximum extraction rate 480m³/h or 229m³/h, Sliding control panel, 200W motor, Built in twin spotlights, Twin aluminium grease filters, Optional carbon filter system, Acrylic grease filter in metal grid casing

**Specifications**
- Speeds: 3
- Speed adjustment: slider or push button
- Recirculation or extraction
- Grill size: 125mm
- No. grease filters: 2
- Grease filter type: aluminium
- Additional carbon filter system: optional
- Built-in lighting: 2 x 40W
- Guarantee (years, UK): 3
Xpelair Nouvelle Cuisine  |  Kitchen canopies

**Dimensions**

<table>
<thead>
<tr>
<th></th>
<th>Integrated</th>
<th>Standard</th>
<th>Standard</th>
<th>Standard Plus</th>
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<td>91199AW</td>
<td>91190AB</td>
<td>91191AW</td>
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<tr>
<td>Maximum width (mm)</td>
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<td>600</td>
<td>600</td>
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<tr>
<td>Finish</td>
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<td>white</td>
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<td>200</td>
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<td>Max extraction rate (l/s)</td>
<td>97</td>
<td>56</td>
<td>56</td>
<td>56</td>
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<tr>
<td>Speed adjustment</td>
<td>slider</td>
<td>slider</td>
<td>slider</td>
<td>slider</td>
</tr>
<tr>
<td>Recirculation</td>
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<td></td>
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</tr>
<tr>
<td>Extraction</td>
<td></td>
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<td></td>
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<tr>
<td>Duct size (mm)</td>
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<td>125</td>
<td>125</td>
<td>125</td>
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<tr>
<td>No. grease filters</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Grease filter type</td>
<td>metallic grease filter in aluminium grille</td>
<td>acrylic filter in metal casing</td>
<td>acrylic filter in metal casing</td>
<td>aluminium</td>
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<tr>
<td>Additional carbon filter system</td>
<td>optional</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Built-in lighting</td>
<td>2 x 40W</td>
<td>2 x 40W</td>
<td>2 x 40W</td>
<td>2 x 40W</td>
</tr>
<tr>
<td>Guarantee (years, UK)</td>
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</table>
Xpelair Profile 60
Flat ducting system

Key features

<table>
<thead>
<tr>
<th>Type:</th>
<th>Low profile flat plastic ducting</th>
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</thead>
<tbody>
<tr>
<td>Application:</td>
<td>Kitchen canopies &amp; Premier range, particularly DX400 &amp; CF40</td>
</tr>
<tr>
<td>Size options:</td>
<td>60mm plastic</td>
</tr>
<tr>
<td>Installation:</td>
<td>Simple push fit &amp; easily concealed</td>
</tr>
</tbody>
</table>

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

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

Additional Accessories

- Acoustic Airbrick XAAB Ref. 91166AW
- Acoustic Airbrick XAABW with white grille Ref. 91162AW
- Acoustic Airbrick XABB with brown grille Ref. 91163AW
- Acoustic Airbrick XABC with Cotswold stone grille Ref. 91164AW
- Acoustic Airbrick XABT 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. 89943AA
  - 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.

Select the right product for your application

<table>
<thead>
<tr>
<th>Reference number</th>
<th>CX10</th>
<th>CMF171</th>
<th>CMF241</th>
<th>CMF271</th>
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<tbody>
<tr>
<td>Remote switch (not supplied)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Extract performance (FID, m³/h)</td>
<td>329</td>
<td>63</td>
<td>146</td>
<td>286</td>
</tr>
<tr>
<td>Extract performance (FID, l/s)</td>
<td>91</td>
<td>18</td>
<td>41</td>
<td>79</td>
</tr>
<tr>
<td>Sound pressure level (dB(A)@3m)</td>
<td>44</td>
<td>38</td>
<td>41</td>
<td>41</td>
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<tr>
<td>Electrical power rating (W)</td>
<td>34</td>
<td>30</td>
<td>33</td>
<td>48</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>1.8</td>
<td>2.7</td>
<td>3.8</td>
<td>6.9</td>
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<tr>
<td>Hole size (mm)</td>
<td>300</td>
<td>185x185</td>
<td>248x248</td>
<td>273x273</td>
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<tr>
<td>Ducting size (mm)</td>
<td>200</td>
<td>102</td>
<td>102</td>
<td>150</td>
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<tr>
<td>Guarantee (years, UK)</td>
<td>3</td>
<td>3</td>
<td>3</td>
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</tbody>
</table>
Please be aware that fan performance will be affected by the use of ducting, grilles and shutters.

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

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.
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
- Suitable for ambient temperatures up to 40ºC
- 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 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 40ºC
- 160 x 86mm
- 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 40ºC
- 100 x 86mm
- 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
- Switch 2: On/Off (or Off/trickelvent 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
- 85x85mm
- 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
## Flexible Ducting Xflex FD

<table>
<thead>
<tr>
<th>Dia</th>
<th>Length</th>
<th>Ref.</th>
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<td>100mm</td>
<td>3m</td>
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<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td>4.5m</td>
<td>Ref. 89910AA</td>
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<tr>
<td></td>
<td>6m</td>
<td>Ref. 89669AA</td>
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<tr>
<td>FD125</td>
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<td></td>
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<td>Ref. 89670AA</td>
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<td>Ref. 89671AA</td>
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<tr>
<td></td>
<td>6m</td>
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</table>

- 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

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<thead>
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<th>Ref.</th>
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<tr>
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<td>5m</td>
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<tr>
<td>TFD200</td>
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<td>5m</td>
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</table>

- 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

<table>
<thead>
<tr>
<th>Dia</th>
<th>Length</th>
<th>Ref.</th>
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<tr>
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<tr>
<td>ALU200</td>
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<td></td>
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</table>

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

## Worm Drive Clips WDC

<table>
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<tr>
<td>100-125mm</td>
<td>Ref. 89684AA</td>
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<tr>
<td>150-200mm</td>
<td>Ref. 89685AA</td>
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## 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

- 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
- Complete 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
- Push-fit 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

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

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 Kit CFWG
CFWG100 - Grey Ref. 89215AB
CFWG100 - White Ref. 89742AW
CFWG150 - Grey Ref. 89895AB
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)
- Used 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