

Commercial Ventilation

Why unit ventilation?

When it comes to air quality, there is nowhere more important than the workplace. At home the environment in which we live is largely within our control. At work the air we breathe and our thermal comfort is provided by others. Small wonder then that a World Health Organisation report suggests that up to 30% of new and refurbished buildings may be subject to excessive complaints relating to indoor air quality. The symptoms include headaches, eye, nose and throat irritation, dry coughs, dizziness and nausea, difficulty concentrating, fatigue and sensitivity to odours.

Since the 1970's as energy costs have risen, so buildings have become more airtight and in many cases the amount of recirculated fresh air has been reduced in order to improve energy efficiency. These reduced rates have been found to be, in many cases, inadequate to maintain the comfort and health of building

occupants. Frequently, problems result when the occupants activities are different from that which the building was originally intended.

Central systems can, in some cases, be energy wasteful as they ventilate all areas whether they are occupied or not. Studies have also shown that we react better to a varying air circulation than a carefully controlled consistent environment. The ability to control our own 'air space' to suit the activity or the number of people reduces the symptoms often referred to as sick building syndrome.

In retail and the hospitality sector, employers have an additional duty of care towards their staff with regard to passive smoking. Satisfactory air quality and thermal comfort is not just good for employee health, it's good for business too.

Localised heat, smells and moisture can be effectively removed with extract fans installed as close to the source as possible. In staff rooms, photocopying rooms, toilets etc. usually a window or wall fan can be extremely effective.

In general office environments 4-6 air changes per hour is sufficient to provide circulation and remove volatile organic compounds from furnishings, cleaning agents and biological contaminants.

Unit ventilation can effectively extract tobacco smoke although specific provision of tempered air to the staff is recommended.









Commercial Ventilation













Page Number	90	92	94	96	98	100
Fan Type	Axial	Axial	Axial	Axial	Axial	Kitchen Canopies
Positioning	Window / Wall	Ceiling / Panel	Roof	Wall	Wall	Over hob
Models	3	3	3	4	6	3
Max extract performance (m³/h)	1614	1712	1100	1715	5000	2800
Max intake performance (m³/h)	1002	1037	915	969	5000	n/a
Max power (W)	85	85	87	85	245	940
Duct dia (mm)	n/a	200-315	n/a	n/a	n/a	See product

For Commercial Sensors, Switches & Accessories see pages 102 - 105 $\,$

Xpelair GX6, GX9 & GX12

Commercial window fans



Key features

Type: Commercial duty ventilation unit

Application: Pubs, restaurants, offices, kitchens, factories, schools

factories, schools and shops

Control options: Extensive range of optional controllers

available .

Legislation: Conforms to Building Regulations Part F1

Hole diameter: 184mm (GX6 window)

257mm (GX9 window) 324mm (GX12 window) 203mm (GX6 wall) 266mm (GX9 wall)

330mm (GX12 wall)



Select the right product for your application

The Range

Tried and tested, the Xpelair **GX6**, **GX9** and **GX12** window fans have remained a byword for commercial window fans for over forty years. The latest **GX** range is no exception – continuing that reputation for rugged reliability, whilst introducing a host of refinements to make the range safer, faster to install and easier to clean. Now supplied with longer ladder strips.

The contoured high gloss white housing is styled to blend in cleanly with modern décor. A shadow grey external grille is supplied for unobtrusive external appearance. For safety, a finger guard is integrated into the housing and the window grille design. On **GX9** & **GX12** range units, a tamper proof positive plug and socket assembly provides a means of isolation for service access without the safety risk of accidental disconnection.

Installation in single and sealed double glazed windows (up to 25mm) is rapid using Xpelair's unique metal ladder strip / screw system, ensuring a secure and watertight seal against the glass.

Both the GX9 & GX12 ranges are reversible and now feature totally enclosed external rotor motors providing constant volume outputs, even in gusty external conditions. Prebalanced sickle bladed impellers eliminate 'fan judder' and ensure quiet trouble free operation. Sealed for life maintenance free bearings ensure suitability for running at any angle. Running costs are impressively low, and when not in use the silent electrothermal shutter cassette closes silently against backdraughts. And cleaning has never been easier. The housing, shutter cassette and impeller are all removed in seconds.

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		GX6	GX9	GX12	
Reference number		90800AW	89994AW	90012AW	
Remote switch (supplied separately)					
Selectable intake, extract or controller	operation		•	•	
Speeds		1	2*	2*	
Extract performance (FID, m³/h)	high	266	728	1614	
	low		618	1214	
Extract performance (FID, I/s)	high	74	202	448	
	low		172	337	
Intake performance (FID, m ³ /h)	high		456	1002	
	low		412	819	
Intake performance (FID, I/s)	high		127	278	
	low		114	228	
Sound pressure level (dB(A)@3m)	high	37	50	55	
	low		48	50	
Max. electrical power rating (W)		30	41	85	
Hole diameter (mm)		184	257	324	
Hole diameter with wall liner (mm)		203	266	330	
Weight (kg)		1.9	4	7.9	
Guarantee (years, UK)		3	3	3	

^{*}low speed only applies if fan used with FR22/30 controller. If controller not used fan is only single (high) speed



GX6

Ref. 90800AW

- 6" high performance extract axial ventilation unit
- · Operated by remote On/Off switch (not supplied)
- Suitable for single and sealed double glazing windows and panels up to 25mm
- · Sealed for life maintenance free bearings, suitable for running at any angle. Integrated safety thermal overload protection
- · Built-in silent action electro-thermal shutter cassette
- · Passive tricklevent facility for background ventilation with fan Off
- · Easy clean high gloss ABS housing with integral finger safety guard
- Shadow grey external grille for unobtrusive external appearance
- Unique metal ladderstrip / screw connection to external grille for security and weather tight seal
- IPX4 rated motor

Typical Specifications on page 169. Wiring Diagrams on page 186. Controller Details on page 102.

GX9 with sickle blade Ref. 89994AW GX12 with sickle blade Ref. 90012AW

- · High performance intake/extract axial ventilation unit
- · Choice of optional controllers
- Suitable for single and sealed double glazing windows and panels up to 25mm
- Balanced external rotor motor and sickle blade impeller for quiet efficiency
- · Sealed for life maintenance free bearings, suitable for running at any angle
- · Built-in silent action electro-thermal shutter cassette
- · Passive tricklevent facility for background ventilation with fan Off
- · Easy clean high gloss ABS housing with integral finger safety guard
- · Shadow grey external grille for unobtrusive external appearance
- Tamperproof internal connection safety plug and socket
- Unique metal ladderstrip / screw connection to external grille for security and weather tight seal
- · IPX4 rated motor

Controllers

Single Fan Controller FR22/30 Ref. 21868AW

- For use with GX9 and GX12
- · On/Off control with neon indicator. Used to select between high and low speed, intake

Group Fan Controller EC6H Ref. 21854AW

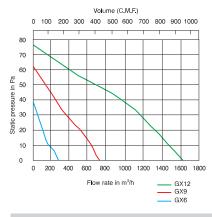
- For use with GX9 and GX12
- On/Off control with neon indicator. Infinitely variable speed selection controls extract and intake air flow. For use with up to four fans (not mixed sizes)

Group Fan Controller XCC1 Ref. 21859AW

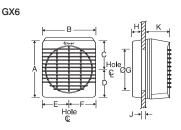
- For use with GX9 and GX12
- · On/Off control with neon indicator

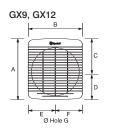


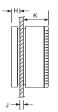
Performance



Dimensions (mm)



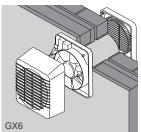


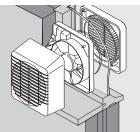


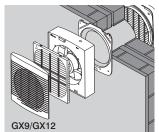
	Dime	ension	s (mn	1)						
Model	Α	В	C	D	Е	F	G	Н	J	K
GX6	226	210	119	107	109	101	184/203	32	4-35	112
GX9	312	294	165	147	147	147	257/266	32	4-35	117
GX12	408	380	216	192	190	190	324/330	34	4-35	161

Installation and Accessories

The GX6, GX9 & GX12 ranges come complete with a universal mounting kit for window installations







GX9 unit can be used for a variety of medical and photographic applications where light protection is required by replacing the external grille with a Darkroom Cowl.

Wall Mounting

Window Mounting

Wall Mounting

Darkroom installation

Hole diameter: 203mm

Installation Accessories

Hole diameter:

184mm (GX6) 257mm (GX9) 324mm (GX12) Hole diameter: 266mm (GX9)

330mm (GX12)

Installation Accessories

Installation Accessories

Darkroom Cowl DC9 Ref. 98409AK

Wall Kit 280mm Ref. 89370AA

Wall Kit Ref. 89372AA (GX9) Wall Kit Ref. 89374AA (GX12)

Xpelair PX6, PX9 & PX12

Commercial ceiling fans



Key features

Type: Commercial duty ceiling and panel mount axial ventilation unit

Application: Kitchens, restaurants, pubs, offices, schools, shops and kiosks

Control options: Extensive range of

optional controllers available

Legislation Conforms to Building Regulations Part F1

Hole diameter: w246 x h268 (PX6)

w345 x h375 (PX9) w434 x h434 (PX12)

Duct Size: 200/250/315



Select the right product for your application

The Range

Introducing a new addition to the Xpelair commercial range. The PX range introduces even greater flexibility into the design of commercial and larger domestic ventilation systems. Based on the proven WX range, PX fans are perfect for ceiling and panel applications in kitchens, restaurants, pubs, offices, schools, shops and kiosks.

They can be installed at any angle in ceilings, voids and wall panels of any thickness. The ceiling hugging, low profile white fascia is styled to blend into any ceiling type, whether smooth, tiled or textured. For safety, a finger guard is integrated into the ultra slim high gloss ABS fascia. An integral spigot allows the attachment of flexible ducting, such as XFlex. Installation in ceilings and wall panels is rapid thanks to the concealed fixing points provided. Both the **PX9** & **PX12** are reversible making them ideal

for ducted input systems in the hospitality industry. On PX9 & PX12 units a positive plug and socket assembly provides a means of isolation for service access without the safety risk of accidental disconnection.

PX9 & PX12 models feature totally enclosed external rotor motors providing constant volume outputs, even in gusty external conditions. Pre-balanced sickle bladed impellers eliminate' fan judder' and ensure quiet trouble free operation. Sealed for life maintenance free bearings ensure suitability for running at any angle. Running costs are impressively low, and when not in use the silent electro-thermal shutter cassette closes silently against backdraughts. And cleaning has never been easier. The housing, shutter cassette and impeller are all removed in seconds.

,				
		PX6	PX9	PX12
Reference number		91300AW	91299AW	91298AW
Remote switch (not supplied)		•	•	
Extract only		•		
Selectable intake, extract or controller operati	ion			
Speeds		1	2*	2*
Extract performance (FID, m³/h)	high	246	790	1712
	low		685	1290
Extract performance (FID, I/s)	high	68	219	476
	low		190	358
Intake performance (FID, m³/h)	high		458	1037
	low		433	845
ntake performance (FID, I/s)	high		127	288
	low		120	235
Sound pressure level (dB(A)@3m)	high	39	50	54
	low		47	48
Ducting size (mm)		200	250	315
Electrical power rating (W)		34	41	85
Hole diameter (w x h mm)		245 x 268	345 x 375	434 x 434
Spigot size (mm)		200	250	315
Weight (kg)		2.8	4.7	7.9
Guarantee (years, UK)		2	2	2

^{*}low speed only applies if fan used with FR22/30 controller. If controller not used fan is only single (high) speed



PX6

Ref. 91300AW

- High performance extract only axial flow ventilation unit
- Operated by remote On/Off switch (not supplied)
- Suitable for installation at any angle in ceilings, voids and wall panels of any thickness
- · Totally enclosed motor
- Sealed for life maintenance free bearings, suitable for running at any angle
- Built in silent action electrothermal shutter cassette
- Ultra slim high gloss ABS fascia with integral safety finger guard

PX9 with sickle blade Ref. 91299AW

- High performance intake / extract axial flow ventilation unit
- · Choice of optional controllers
- Suitable for installation at any angle in ceilings, voids and wall panels of any thickness

- Balanced external rotor motor and sickle impeller for quiet efficiency
- Sealed for life maintenance free bearings, suitable for running at any angle
- Built in silent action electrothermal shutter cassette
- Ultra slim high gloss ABS fascia with integral safety finger guard

PX12 with sickle blade Ref. 91298AW

- High performance intake / extract axial flow ventilation unit
- · Choice of optional controllers.
- Suitable for installation at any angle in ceilings, voids and wall panels of any thickness
- Balanced external rotor motor and sickle impeller for quiet efficiency
- Sealed for life maintenance free bearings, suitable for running at any angle
- Built in silent action electrothermal shutter cassette
- Ultra slim high gloss ABS fascia with integral safety finger guard

Typical Specifications on page 170. Wiring Diagrams on page 186. Controller Details on page 102.

Controllers

Single Fan Controller FR22/30 Ref. 21868AW

- For use with PX9 and PX12
- On/Off control with neon indicator. Used to select between high and low speed, intake and extract

Group Fan Controller EC6H Ref. 21854AW

- For use with PX9 and PX12
- On/Off control with neon indicator.
 Infinitely variable speed selection controls extract and intake air flow. For use with up to four fans (not mixed sizes)

Group Fan Controller XCC1 Ref. 21859AW

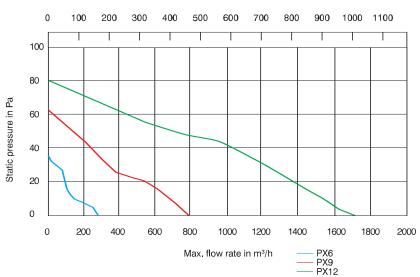
- For use with PX9 and PX12
- · On/Off control with neon indicator



Performance

PX6, PX9, PX12

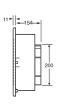
Volume (C.M.F.)

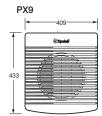


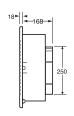
Dimensions (mm)

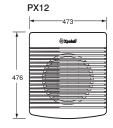
PX6

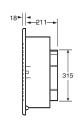












Xpelair RX6, RX9 & RX12

Commercial roof fans



Key features Commercial duty roof Type: mount axial ventilation unit with roof cowl Application: Pubs, restaurants, offices, kitchens, factories, squash courts, schools and shops Control options: Extensive range of optional controllers available Legislation: **Conforms to Building Regulations Part F1** 184mm (RX6) Hole diameter: 257mm (RX9) 324mm (RX12)



Select the right product for your application

The Range

With commercial wall space at a premium, sometimes the only way is up!

Xpelair **RX** models are a neat way of ventilating through glazed and solid roofs and can be used vertically in windows on exposed sites such as coastal areas and high rise buildings. The commercial duty roof fans are particularly suitable for pubs, restaurants, offices, kitchens, factories, and squash courts, schools in areas like changing rooms, and kiln rooms and a wide range of shops.

The contoured high gloss white housing is sleekly styled. For safety, a finger guard is integrated into the ultra slim high gloss ABS fascia. The UV stabilised roof cowl assembly is a generous size to provide weather protection at all angles. They are suitable for single and sealed double glazed windows and panels up to 25mm. Installation in wire cast and sealed double glazed roof lights is rapid using Xpelair's unique metal ladderstrip and screw system, ensuring a secure and weather-tight

compression seal. For flat roofs an optional roof mounting plate allows **RX** models to be fitted to dressed curbs.

Both the RX9 & RX12 are reversible. All models offer a passive trickle vent option for background ventilation when the fan is off. On RX9 & RX12 units a positive plug and socket assembly provides a means of isolation for service access without the safety risk of accidental disconnection.

RX9 & RX12 models feature totally enclosed external rotor motors providing constant volume outputs, even in gusty external conditions. Prebalanced sickle bladed impellers eliminate' fan judder' and ensure quiet trouble free operation. Sealed for life maintenance free bearings ensure suitability for running at any angle. Running costs are impressively low, and when not in use the silent electrothermal shutter cassette closes silently against backdraughts. And cleaning has never been easier. The housing, shutter cassette and impeller are all removed in seconds.

		RX6	RX9	RX12
Reference number		90818AW	90424AW	90425AW
Remote switch (not supplied)		50010/W	30121/11	00120/11
Extract only				
Selectable intake, extract or controller operation	on			
Speeds		1	2*	2*
Extract performance (FID, m³/h)	high	206	511	1100
	low		430	807
Extract performance (FID, I/s)	high	57	142	306
, , , ,	low		119	224
ntake performance (FID, m³/h)	high		438	915
	low		384	709
Intake performance (FID, I/s)	high		122	254
	low		107	197
Sound pressure level (dB(A)@3m)	high	39	52	56
	low		49	48
Electrical power rating (W)		35	41	87
Hole diameter (Ømm)		184	257	324
Max wall thickness (mm)		25	25	25
Weight (kg)		3.8	4.5	7.9
Guarantee (years, UK)		3	3	3

^{*}low speed only applies if fan used with FR22/30 controller. If controller not used fan is only single (high) speed



RX6

Ref. 90818AW

- High performance extract only axial flow ventilation unit
- Operated by remote On/Off switch (not supplied)
- Suitable for single and sealed double glazed windows and panels up to 25mm
- Built in electrothermal shutter cassette
- Passive trickle vent option for background ventilation with fan Off
- Easy clean high gloss ABS housing
- Roof cowl assembly in UV stabilised material provides weather protection at all roof angles
- Unique metal ladderstrip/screw connection to external grille for security and weathertight seal
- Supply voltage 220-240V 50Hz

RX9 Ref. 90424AW RX12

Ref. 90425AW

- High performance intake/extract axial flow ventilation unit
- Balanced external rotor motor and sickle bladed impeller for quiet efficiency
- · Choice of optional controllers
- Tamper-proof internal connection safety plug and socket

Typical Specifications on page 170. Wiring Diagrams on page 186. Controller Details on page 102.

Controllers

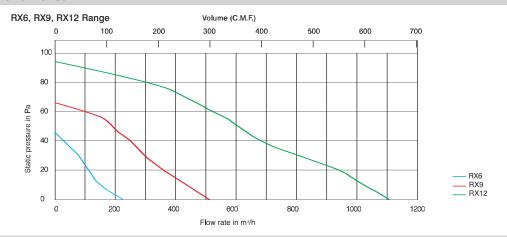
Single Fan Controller FR22/30 Ref. 21868AW

- For use with RX9 and RX12
- On/Off control with neon indicator. Used to select between high and low speed, intake and extract

Group Fan Controller EC6H Ref. 21854AW

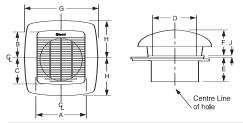
- For use with RX9 and RX12
- On/Off control with neon indicator. Infinitely variable speed selection controls extract and intake air flow. For use with up to four fans (not mixed sizes)

Performance



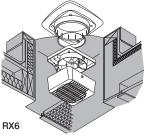
Dimensions (mm)

RX Range



Α	В	•						
	D	C	D	Е	F	G	Н	J
210	119	107	184	112	127	319	160	4/35
312	165	147	257	117	159	438	219	4/35
380	216	192	234	161	197	554	277	4/35
	312	312 165	312 165 147	312 165 147 257	312 165 147 257 117	312 165 147 257 117 159	312 165 147 257 117 159 438	210 119 107 184 112 127 319 160 312 165 147 257 117 159 438 219 380 216 192 234 161 197 554 277

Installation and Accessories



Kerb Mounting

Hole diameter: 184mm

Installation Accessories

Roof Mounting Plate **Ref. 00370AK** Kerb detail see **commercial accessories** on page 91



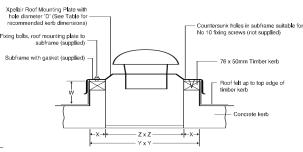
Kerb Mounting

Hole diameter: 257mm (RX9) 324mm (RX12)

Installation Accessories

Roof Mounting Plate **Ref. 00371AK** Kerb detail see **commercial accessories** on page 91

Roof Mounting Plate XRP for flat roof applications



Apply suitable sealing compound between roof mounting plate subframe, timber kerb and concrete kerb

Dimensions (mm)										
Model	W(min)	X	Y	Z	D hole					
RX6	152	76	527	375	184					
RX9	152	76	711	559	257					
RX12	152	76	711	559	324					

Xpelair WX6, WX9 & WX12

Commercial wall fans



Commercial duty ventilation unit
Pubs, restaurants, offices, kitchens, factories, schools and shops
Extensive range of optional controllers available
Conforms to Building Regulations Part F1
w245 x h268 WX6/WX6T w345 x h375 WX9 w434 x h434 WX12

The Range

Xpelair **WX** ventilation units – the 'classic' face of commercial wall fans. Discretely slim, tough and reliable within – a winning formula that has served generations of pubs, businesses and local authorities.

Stylish commercial duty unit ventilation designed for pubs, restaurants, offices, kitchens, factories, schools and shops. Suitable for single, cavity brick and current timber frame walls.

The wall hugging, low profile white fascia is styled to blend in cleanly with commercial surroundings. For safety, a finger guard is integrated into the Ultra slim high gloss ABS fascia and the exterior wall grille design. On WX9 & WX12 units a positive plug and socket assembly provides a means of isolation for service access without the safety risk of accidental disconnection.

All WX models come complete with a wall mounting kit which include a wall liner.

Both the WX9 & WX12 are reversible and now feature totally enclosed external rotor motors providing constant volume outputs, even in gusty external conditions. Pre-balanced sickle bladed impellers eliminate' fan judder' and ensure quiet trouble free operation. Sealed for life maintenance free bearings ensure suitability for running at any angle. Running costs are impressively low, and when not in use the silent electro-thermal shutter cassette closes silently against backdraughts. And cleaning has never been easier. The housing, shutter cassette and impeller are all removed in seconds.

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Select the right product for your application

		WX6	WX6T	WX9	WX12
Reference number		90822AW	90823AW	89996AW	90011AW
Remote switch (not supplied)			•		
Integral adjustable run-on timer (2 to 20 mir	ns)		•		
Extract only					
Selectable intake, extract or controller operation	tion			•	
Speeds		1	1	2*	2*
Extract performance (FID, m³/h)	high	246	246	783	1715
	low			663	1162
Extract performance (FID, I/s)	high	68	68	248	476
	low			184	179
Intake performance (FID, m ³ /h)	high			477	969
	low			437	815
Intake performance (FID, I/s)	high			133	269
	low			121	226
Sound pressure level (dB(A)@3m)	high	39	39	50	54
	low			47	48
Electrical power rating (W)		34	34	41	85
Hole diameter (w x h mm)		245 x 268	245 x 268	345 x 375	434 x 434
Max wall thickness (mm)		292	292	508	522
Weight (kg)		2.9	2.9	4.7	8.3
Guarantee (years, UK)		3	3_	3	3



WX6

Ref. 90822AW

- 6" high performance extract axial ventilation unit
- · Suitable for single, cavity brick and current timber frame walls
- · Sealed for life maintenance free bearings, suitable for running at any angle. Integrated safety thermal overload protection
- Built-in silent action electrothermal shutter cassette
- Passive tricklevent facility for background ventilation with fan Off
- Ultra slim high gloss ABS facia with integral finger safety guard
- Shadow grey external grille for unobtrusive external appearance with built-in weather protection
- IPX4 rated motor

WX6T

Ref. 90823AW

- · As WX6 with overrun timer which typically connects to a lighting circuit
- Timer adjustable from 2-20mins run on period after light has been switched off
- IPX4 rated motor

WX9 Ref. 89996AW

Ref. 90011AW

- High performance intake/extract axial ventilation unit
- Optional controller available
- · Suitable for single, cavity brick and current timber frame walls
- · Balanced external rotor motor and sickle bladed impeller for quiet efficiency
- · Sealed for life maintenance free bearings, suitable for running at any angle
- · Built-in silent action electro-thermal shutter cassette
- Passive tricklevent facility for background ventilation with fan Off
- Ultra slim high gloss ABS facia with integral finger safety guard
- Grey external grille for unobtrusive external appearance with built-in weather protection
- · Tamperproof internal connection safety plug and socket
- IPX4 rated motor

Typical Specifications on page 171. Wiring Diagrams on page 186. Controller Details on page 102.

Controllers

Single Fan Controller FR22/30 Ref. 21868AW

- For use with WX9 and WX12
- On/Off control with neon indicator. Used to select between high and low speed, intake and extract

Group Fan Controller EC6H Ref. 21854AW

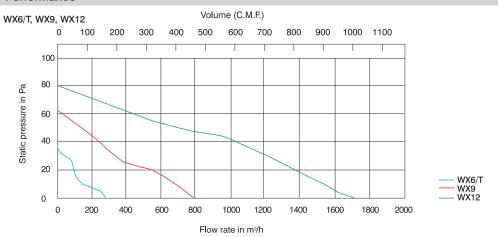
- For use with WX9 and WX12
- · On/Off control with neon indicator. Infinitely variable speed selection controls extract and intake air flow. For use with up to four fans (not mixed sizes)

Group Fan Controller XCC1 Ref. 21859AW

- For use with WX9 and WX12
- On/Off control with neon indicator

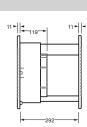


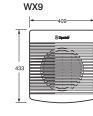
Performance

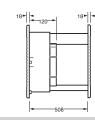


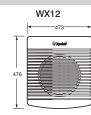
Dimensions (mm)

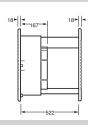




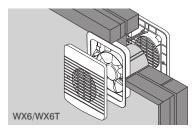






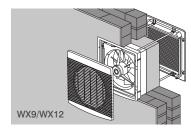


Installation





Hole diameter: w245 x h268mm



Wall Mounting

Hole size: w345 x h375mm (WX9) w434 x h434mm (WX12)

97

Xpelair WXXL350, WXXL400 & WXXL450

High performance extract and intake wall fans



Key features	
Туре:	Commercial duty ventilation unit
Application:	Pubs, restaurants, offices, kitchens, factories, schools and shops
Control options:	3 speed controller included
Legislation:	Conforms to Building Regulations Part F1
Hole size:	w400 x h400 WXXL350 w450 x h450 WXXL400 w500 x h500 WXXL450

The Range

The New Xpelair **WXXL** range is a designed for use in larger applications where extra extract or input performance is required.

Suitable for public areas in pubs, schools, municipal facilities and industry. Used in specialist applications such as squash courts, swimming pools, telephone exchanges, atriums.

Xpelair **WXXL** fans differ from comparable products in FOUR significant ways:

Size

Although the fan diameters are the same **WXXL** fans require a substantially smaller hole through the wall.

Security

Fitted with an electric shutter system and a tough flush fitting aluminium grille complete with bird guard on the external wall face.

Control

Every fan comes complete with a built in control system which requires connection to a simple switch (also included).

Ease of cleaning

The easy clean inner grille has a 'secret fixing' which allows the core of the grille to be removed for cleaning without the need to remove the frame.

Select the right product for your application	Extract wall fans			Intake wall fans			
	WXXL350	WXXL400	WXXL450	WXXLS350	WXXLS400	WXXLS450	
Reference number	91301AA	91302AA	91303AA	91383AA	91384AA	91385AA	
Extract wall fan							
Intake wall fan							
Electric shutter							
Speeds	3	3	3	3	3	3	
Supplied with 3 speed control							
Max extract performance (FID, m³/h)	2700	3600	5000				
Max extract performance (FID, I/s)	750	1000	1389				
Max intake performance (FID, m ³ /h)				2700	3600	5000	
Max intake performance (FID, I/s)				750	1000	1389	
Sound pressure level (dB(A)@3m)	54	59	63	54	59	63	
Electrical power rating (W)	130	160	245	130	160	245	
Weight (kg)	12	15	17	12	15	17	
Hole size (w x h mm)	400 x 400	450 x 450	500 x 500	400 x 400	450 x 450	500 x 500	
Max wall thickness (mm)	375	375	375	375	375	375	
Guarantee (years)	2	2	2	2	2	2	



WXXL350 Ref. 91301AA WXXL400 Ref. 91302AA WXXL450 Ref. 91303AA

- Extract wall fan
- G.S.M.telescopic wall liner is suitable for solid and cavity walls from 275mm to 375mm
- External rotor motor rated at IP44 with sealed for life maintenance free bearings
- Balanced motor and impeller for quiet efficiency
- Epoxy coated aluminium internal wall grille with removable core for easy cleaning
- Fan assembly is separately guarded for additional safety
- Electrically actuated heavy duty aluminium section gravity shutter system is housed behind an anodised aluminium external weather louvre and bird guard
- Built in three speed control. Separate slimline three position and Off selection switch provided for remote wall mounting
- Easy access terminal box

WXXLS350 Ref. 91983AA WXXLS400 Ref. 91384AA WXXLS450 Ref. 91385AA

- · Intake wall fan
- Built in washable filter accessible from within the building
- G.S.M.telescopic wall liner is suitable for solid and cavity walls from 275mm to 375mm
- External rotor motor rated at IP44 with sealed for life maintenance free bearings
- · Balanced motor and impeller for quiet efficiency
- Epoxy coated aluminium internal wall grille with removable core for easy cleaning fan assembly is separately guarded for additional safety
- Electrically actuated heavy duty aluminium section gravity shutter system is housed behind an anodised aluminium external weather louvre and bird guard
- Built in three speed control. Separate slimline three position and Off selection switch provided for remote wall mounting
- Easy access terminal box

Controllers

WXXL Integral Speed Control System

 A three speed transformer is located in the fan housing. The external slimline single gang speed selector provides three fan performances without motor 'hum' usually associated with electronic speed controls

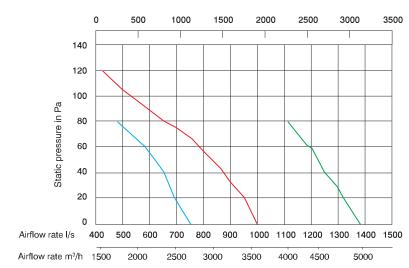
Three Speed Controller Ref. 91457AA



Typical Specifications on page 171.

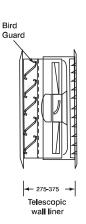
Performance

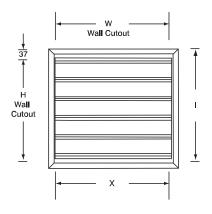
Volume (C.M.F)





Dimensions (mm)





	Dimensions (mm)			
Model	W	Н	Х	- 1
350	400	400	474	474
400	450	450	524	524
450	500	500	574	574



Telescopic wall duct

Xpelair ChefX

Professional kitchen canopies



Key features	
Type:	Commercial kitchen extract canopies
Application:	Kitchen extract
Control options:	Transformer speed control
Legislation:	Conforms to Building



The Range

A range of kitchen canopies designed for small professional catering and institutional applications.

Suitable for pub food preparation and wash up areas, club kitchens, cafeterias, smaller commercial kitchens, staff kitchenettes, student block kitchens, and a range of commercial applications.

ChefX canopies are an all in one solution to a range of standard commercial duty kitchen applications. Built to a professional specification. ChefX are designed for continuous heavy use and a more demanding environment.

ChefX Presto and Mezzo canopies are fabricated in brush finish stainless steel complete with condensafe channel and drain.

The three models in the range are manufactured complete with commercial duty filters and built in high pressure centrifugal fans allowing direct discharge to atmosphere or connection to ductwork.

When specifying, as a general guide, the hood should protrude outwards approximately 200mm beyond the working surface with the bottom of the hood 1900mm – 2000mm from the floor.

Select the right product for your application

	Tempo	Presto	Mezzo
Reference number	91309AA	91310AA	91311AA
Air delivery (m³/h@100Pa)	400	2200	2800
Electrical power rating (W)	100	830	940
Electrical current rating (A)	0.45	3.8	4.4
Washable mesh filters			
Width (mm)	600	1000	1000
Weight (kg)	6.5	44	43
Guarantee (years, UK)	2	2	2



ChefX Tempo Ref. 91309AA

- Robust design for institutional applications such as student block kitchens and staff rest room food preparation areas
- · Brushed stainless steel housing
- 400m³/h extraction capacity @100Pa
- Washable G.S.M mesh filters
- Built in lighting 1 x 11W CFL
- · Top LH outlet
- · Built in isolator and speed control with
- · Centrifugal fan / scroll assembly

ChefX Presto Ref. 91310AA

- · For cafeterias, fast food outlets, food preparation and wash up areas
- · Stainless steel housing with G.S.M support components
- · 2200m3/h extraction capacity @100Pa
- Washable 25mm G.S.M mesh filters

- Top centre outlet to accept rectangular or circular ductwork
- Centrifugal double inlet fan and scroll assembly
- · Speed controllable motor
- · IPX4 rated motor
- Max ambient temp 65°C

ChefX Mezzo Ref. 91311AA

- Higher duty model for cafeterias, fast food outlets, food preparation and wash up areas
- Stainless steel housing with G.S.M support components
- 2800m³/h extraction capacity @100Pa
- Washable 25mm baffle filters
- · Top centre outlet to accept rectangular or circular ductwork
- Centrifugal double inlet fan and scroll assembly
- · Speed controllable motor.
- IPX4 rated motor
- Max ambient temp 65°C

Controllers

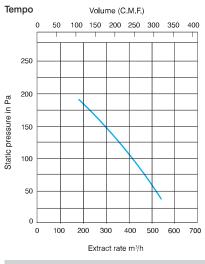
Five step auto transformer Ref. 91369AA

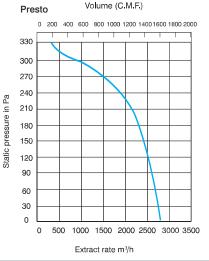
• Compatible with Presto and Mezzo models. 6 Amp transformer providing five speed operation. Robust ISO casing and IPX4 rated.

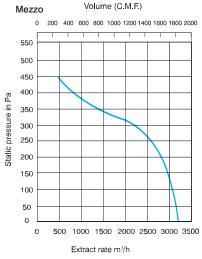


Typical Specifications on page 172. Wiring Diagrams on page 187. Remote Sensors on page 154.

Performance

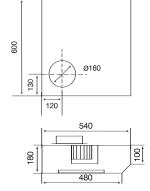




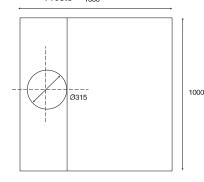


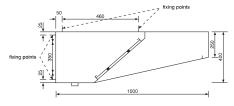
Dimensions (mm)

Tempo

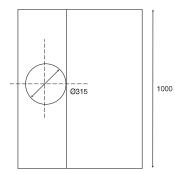


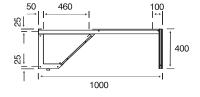






Mezzo





Xpelair Commercial Sensors and Switches



Single Fan Controller FR22/30 Ref. 21868AW

- · Sliding switches
- On/Off
- 2 speeds: low- high speed
- · Extract intake airflow
- · Power 'on' indicator
- · For surface or recess mounting
- Supply voltage: 220 -240V 50Hz
- · Gloss white
- Use with: GX9, GX12, WX9, WX12, PX9, PX12, RX9, RX12
- w210 x h86 x d41mm



Remote Humidistat XRH Ref. 21856AW

- Stand alone humidistat switches on when RH rises to preset level and Off when it declines
- Fan operation indicator light
- Pullcord operated override switch
- Surface or recess mounting
- White finish
- Supply voltage 220 240V 50Hz Use with: GX6, GX9, GX12, WX6, WX9, WX12, PX6, PX9, PX12, RX6, RX9 & RX12
- w160 x h86 x d41mm



Controller HC301 Ref. 21877AW

- · On/Off switch
- Fan only/fan and heater options
- Variable thermostatic control
- Suitable for surface or recessed installation
- Colour: White
- Used with WH30 and WHP30
- w210 x h86 x d41mm



Single Direction Group Fan Controller XCC1 Ref. 21859AW

- · Sliding switches and speed control knob
- On/Off
- Infinitely variable speed control
- Single direction: extract or intake selected at installation
- Power 'on' indicator
- For surface or recess mounting
- Supply voltage: 220 240V 50Hz
- Gloss White
- Use with: GX9, GX12, WX9, WX12, PX9, PX12, RX9, RX12

Note: do not mix fan size. For use with up to 4 - size 12 or 6 - size 9 fans units.

• w160 x h86 x d45mm



Passive Infrared Sensor XPIRA Ref. 21871AA

- · Position to switch the fan on when body movement is detected. Ideal for infrequently used public spaces
- Built in run on timer to avoid nuisance tripping
- · For indoor use only
- Use with: GX6, GX9, GX12, WX6, WX9, WX12, PX6, PX9, PX12, RX6, RX9 & RX12
- w86 x h86mm



Reversible Group Fan Electronic Controller EC6H

Ref. 21854AW

- Sliding switches and speed control knob
- On/Off
- Infinitely variable speed control
- Extract intake airflow
- · Power 'on' indicator
- · For surface or recess mounting
- Supply voltage: 220 240V 50Hz
- Gloss White
- Use with: GX9, GX12, WX9, WX12, PX9, PX12, RX9, RX12

Note: do not mix fan size. For use with up to 4 - size 12 or 6 - size 9 fans units.

• w160 x h68 x d45mm



Time Controller DT20B Ref. 21850AW

- · Usually connected to the lighting circuit. Fan switches On with the light. Provides continued ventilation run-on period after the light has been switched off
- User adjustable up to 20min
- Surface or recess mounting
- White finish
- Supply voltage 220-240V 50Hz
- Use with: GX6, GX9, GX12, WX6, WX9, WX12, PX6, PX9, PX12, RX6, RX9 & RX12
- w100 x h86 x d45mm



Air Quality Sensor AQS Ref. 92097AW

- · Provides fully automatic control
- Detects contaminants such as cigarette smoke, body odours, toilet odours and cooking smells
- Activates ventilation system when preset threshold level is exceeded
- Can control up to six fans and accessories
- Integral timer adjustable from 3 30 mins
- · LED status indicator
- Surface or recess mounting
- Supply voltage 220-240V 50Hz
- w160 x h86 x d41mm

Xpelair Commercial Accessories





GX Wall Kits WK

WK6/8 200mm (GX6) Ref. 89369AA WK6/11 280mm (GX6) Ref. 89370AA WK9/8 200mm (GX9) Ref. 89371AA WK9/11 280mm (GX9) Ref. 89372AA WK12/8 200mm (GX12) Ref. 89373AA WK12/11 280mm (GX12) Ref. 89374AA

- For bridging cavity walls and lining double brick walls
- Steel wall liner
- · Length: 200mm and 280mm
- · Set of 508mm ladder strips



Extendible Interlocking Wall Kits WK6 WK6/300 Ref. 90085AA WK6/450 Ref. 90086AA

- For bridging cavity wall constructions, or lining solid double brick walls
- Interlocking facility to build up to required length
- Available in 300mm or 450mm lengths
- Complete with 508mm ladder strips



Darkroom Cowl DC9 Ref. 98409AK

- For use in scientific and photographic applications
- Replaces the outer grille on GX9 and GXC9 models
- · Roof, window or wall mounting
- Hole Ø257mm
- Colour: black
- · Use with: GX9, GXC9
- w475Ø d144 x 117



Distance Pieces GXDP Ref. 56708AA

- Allows GX units to be fixed to distorted walls of 38mm minimum thickness
- By spacing the fan unit and outer grille away from the wall or panel, distortion through over tightening is prevented
- · Set of 6



Roof Cowls RC

RC6 Ref. 89997AW (GX6, GXC6) RC9 Ref. 90048AW (GX9, GXC9) RC12 Ref. 90092AW (GX12)

- For use in roof applications.
- The cowl is fitted in place of an exterior grille.
- Can also be used in exposed window or wall applications subject to strong prevailing winds



- Provides effective and secure installation in flat roof applications
- Flame retardant resin bonded fibre glass.
- Requires the installer to build a kerb onto which plate is fixed. Always use sealant to bed in the outer cowl seal for weatherproof joint
- Colour black



GX Longer Length Ladder Strips GXL GXL20 20 pack Ref. 89382AA GXL50 50 pack Ref. 89383AA

- Used when installing GX fans through walls
- Length 508mm
- Easy to cut
- GX6 & GXC6 2 strips
- GX9 & GXC9 3 strips
- GX12 4 strips



- For hinged double windows only
- For installation of GX fans into separate double windows spaced between 32mm and 102mm
- Allows inner casement window to be opened without dismantling the fan



Xpelair Commercial Accessories



Air-Replacement Grilles ARG
ARG20 w200 x h200 mm Ref. 89833AA
ARG30 w300 x h300 mm Ref. 89834AA

- · For use with all commercial fans
- Fitted to doors or partition walls to provide adequate air replacement for a fan
- Can be used in conjunction with FIRE BLOCK FB in fire doors and panels to prevent the breach of fire protected areas or compartments
- Each set comprises 2 grilles



Fire Blocks FB
FB20 w200 x h200 mm
Ref. 89835AA
FB30 w300 x h300 mm
Ref. 89836AA

- For use with air replacement grille (ARG)
- Fitted between two grilles in a fire door or compartment
- Spec fire rated 60 mins to BS478 Part 8



Protective Wall Grilles PG
PG6 (GX6, GXC6, WX6) Ref. 89375AA
PG9 (GX9, GXC9, WX9) Ref. 89376AA
PG12 (GX12) Ref. 89377AA
PGW12 (WX12) Ref. 90204AA

- For use with GX and WX fans to protect the exterior grille from damage by vandals
- Constructed from steel mesh and finished in black expoxy powder paint
- Surface mounted to exterior wall using fixing screws and wall plugs provided
- w356 x h305 x d67mm



Flexible	Ducting	Xtlex	FD

	Dia	Length	
FD100	100mm	3m	Ref. 89663AA
		6m	Ref. 89669AA
FD125	125mm	3m	Ref. 89664AA
		6m	Ref. 89670AA
Comme	ercial Dian	neters	
FD150	150mm	3m	Ref. 89665AA
		6m	Ref. 89671AA
FD200	200mm	3m	Ref. 89666AA
		6m	Ref. 89672AA
FD250	250m	3m	Ref. 89667AA
		6m	Ref. 89673AA
FD315	315mm	3m	Ref. 89668AA
		6m	Ref. 89674AA

- 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



New Aluminium Flexible Ducting Xflex ALU

	Dia	Length	
ALU100	100mm	10m	Ref. 91435AA
ALU125	125mm	10m	Ref. 91436AA
ALU150	150mm	10m	Ref. 91437AA
Commer	cial Diam	eters	
ALU200	200mm	10m	Ref. 91438AA
ALU250	250mm	10m	Ref. 91439AA
ALU315	315mm	10m	Ref. 91440AA
ALU400	400mm	10m	Ref. 91441AA
	ALU125 ALU150 Commer ALU200 ALU250 ALU315	ALU100 100mm ALU125 125mm ALU150 150mm Commercial Diam ALU200 200mm ALU250 250mm ALU315 315mm	Dia Length ALU100 100mm 10m ALU125 125mm 10m ALU150 150mm 10m Commercial Diameters ALU200 200mm 10m ALU250 250mm 10m ALU315 315mm 10m ALU400 400mm 10m

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



Thermal Flexible Ducting Xflex TFD

Dia L	ength.	
100mm	5m	Ref. 89847AA
	10m	Ref. 91459AA
125mm	5m	Ref. 89848AA
	10m	Ref. 91460AA
150mm	5m	Ref. 89849AA
	10m	Ref. 91461AA
cial Diam	eters	
200mm	5m	Ref. 89850AA
	10m	Ref. 91462AA
250mm	5m	Ref. 89851AA
	10m	Ref. 91463AA
315mm	5m	Ref. 89852AA
	10m	Ref. 91464AA
	100mm 125mm 150mm cial Diam 200mm 250mm	100mm 5m 10m 125mm 5m 10m 150mm 5m 10m cial Diameters 200mm 5m 10m 250mm 5m 10m 315mm 5m

- 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
- Attached to spigots using worm drive clips

Xpelair Commercial Accessories





Worm Drive Clips WDC

Dia
WDC5 100 -125mm Ref. 89684AA
WDC8 150 - 200mm Ref. 89685AA
WDC13 250 - 315mm Ref. 89686AA

- Steel clips for connecting flexible ductwork to spigots.
- Supplied in packs of 10



Grille Box GB

	Duct Dia	Square	
GB20/100	100mm	200mm	Ref. 89676AA
GB20/125	125mm	200mm	Ref. 89677AA
GB20/150	150mm	200mm	Ref. 89678AA
GB30/200	200mm	300mm	Ref. 89679AA
GB30/250	250mm	300mm	Ref. 89680AA
GB45/315	315mm	450mm	Ref. 89681AA
GB50/315	315mm	500mm	Ref. 89828AA
GB60/315	315mm	600mm	Ref. 90296AA

- Used in conjunction with egg-crate ceiling grille and ceiling diffuser grille to connect to ductwork
- Use Xflex FD or TFD to attach to spigot and secure with worm drive dip



Spigot Plates SP

Duct Dia Square				
	SP100	100mm	180mm	Ref. 89697AA
	SP125	125mm	175mm	Ref. 89698AA
	SP150	150mm	200mm	Ref. 89699AA
	SP200	200mm	250mm	Ref. 89700AA
	SP250	250mm	300mm	Ref. 89701AA
	SP315	315mm	365mm	Ref. 89702AA

- Fixes to the interior surface of wall to connect to Xflex ducting
- · Connect duct using worm drive clips
- Material: plastic



Egg-crate Ceiling Grilles CG

	Square	SATIN SILVER
CG20	200mm	Ref. 89675AA
CG30	300mm	Ref. 89532AA
CG45	450mm	Ref. 89533AA
CG50	500mm	Ref. 89827AA
CG60	600mm	Ref. 90295AA
	Square	WHITE
CG20	200mm	Ref. 89823AW
CG30	300mm	Ref. 89824AW
CG45	450mm	Ref. 89825AW
CG50	500mm	Ref. 89826AW

- Can be used on ceilings or internal walls as an air replacement grille with large free area
- Aluminium construction
- Fixing screws provided (not size 600)
- Use will grille boxes and Xflex ducting
- Colours: Satin silver or white



Ceiling Diffuser Grilles DG

	Square	SATIN SILVER
DG20	200mm	Ref. 89816AA
DG30	300mm	Ref. 89818AA
DG45	450mm	Ref. 89820AA
DG50	500mm	Ref. 89822AA
DG60	600mm	Ref. 90292AA
	Square	WHITE
DG20	Square 200mm	WHITE Ref. 89815AW
DG20 DG30	•	
	200mm	Ref. 89815AW
DG30	200mm 300mm	Ref. 89815AW Ref. 89817AW

- For air input systems terminating at ceilings and internal walls
- Adjustable grille vanes to set up direction of airflow for a particular area
- Fixing screws provided (not size 600)
- · Use with grille boxes and Xflex ducting
- · Aluminium construction
- Colours: Satin Silver or White



Air Volume Dampers AVD

	Square	
AVD20	200mm	Ref. 89829AA
AVD30	300mm	Ref. 89830AA
AVD45	450mm	Ref. 89831AA
AVD50	500mm	Ref. 89832AA

- Clips directly to an eggcrate grille or ceiling diffuser grille to adjust the volume of air entering the room
- Lever adjustment
- Depth 44mm
- Used together with Grille Box and Xflex ducting
- Material: Aluminium Mill finish