

# Xpelair Whispair

## Commercial ceiling fan range



### Key features

Type: **Commercial quality cooling and destratification fans**

Application: **Commercial/Industrial**

Control options: **Range of optional controllers available**



### The Range

Originally designed to provide a cool circulation of air during warm periods, Xpelair **Whispair** is a popular choice for winter applications too, where their use as heat destratification units can reduce heating costs. These commercial quality products are designed for use in public buildings, shops, theme pubs, restaurants, village halls, churches, hospitals, schools, farm buildings, factories, warehouses and other commercial buildings.

**Whispair** are designed for worldwide use, including hot and humid conditions. The units are rated for continuous operation in commercial applications at temperatures up to 40°C and are suitable for upwards or downwards airflow. The triple bladed units are available in four sizes with swept diameters from 900 to 1500mm. Fan blades are steel and are supplied in matched sets. **Whispair** products or fans are supplied with a choice of two lengths of suspension rod giving overall drops of 375 or 750mm.

In summer the atmosphere can become stifling hot. **Whispair** can provide immediate relief by quietly delivering a continuous cooling breeze over a wide area. To maximise the benefit it is good practice to introduce fresh air into the area.

In winter stratification will naturally occur in a room as hot air rises to

ceiling level (or the apex of the roof) and cooler air sinks to ground level. Xpelair **Whispair** fans will effectively destratify the hot air which gathers at ceiling height by pushing it downwards to mix with cooler air nearer to ground level, thus providing a more uniform temperature profile from floor to ceiling. This results in reduced heating costs as all the hot air does not gather at ceiling height, and thermal losses are reduced. The units should be set for downward airflow at low speed for optimum effect.

For automatic control all **Whispair** have integral anti-vibration bobbins and a continuously rated capacitor start and run external rotor motor. The motor incorporates two sets of caged ball bearings for extra long life.

The optional Xpelair ThermoMiser sensor control system can automatically compare high and low level temperatures and ensure that the fans are operated to maximise energy efficiency. This controller should be sited where the ambient is less than 35°C, with the two sensors fitted at high and low level and connected using the cables supplied. In summer the control knob can be used to manually override the sensors for manual control. For no-frills speed control the Xpelair **Whispair** controllers are available for the control of a single fan or groups of up to 6 fans.

### Select the right product for your application

	NWAN36	NWAN48	NWAN56	NWAN60
Reference number	90409AW	90410AW	90411AW	90412AW
Remote optional controllers available	■	■	■	■
Swept diameter (mm)	900	1200	1400	1500
Reversible operation	■	■	■	■
Maximum speed (rpm)	350	310	280	260
Air delivery (m <sup>3</sup> /h)	8761	10890	12474	13959
Air delivery (l/s)	2434	3025	3465	3878
Electrical power rating (W)	50	65	65	65
Overall drop options (mm)	375/750	375/750	375/750	375/750
Weight (kg)*	6.5	6.5	6.5	6.5
Guarantee (years, UK)	2	2	2	2

\*All models 6.5kg with marginal weight variance according to sweep diameter

## Models

### NWAN36

Ref. 90409AW

- 900mm diameter sweep fan for cooling or destratification

### NWAN48

Ref. 90410AW

- 1200mm diameter sweep fan for cooling or destratification

### NWAN56

Ref. 90411AW

- 1400mm diameter sweep fan for cooling or destratification

### NWAN60

Ref. 90412AW

- 1500mm diameter sweep fan for cooling or destratification

Tip! For optimum performance of Xpelair Whispair choose a dedicated Xpelair controller.

## Controllers

### Xpelair Single Whispair Controller WAC1

Ref. 21852AW

- Two slide switches provides On/Off operation and 5 speed settings. Complete with transformer controller for quiet operation and 'fan running' indicator light

### Xpelair Group Whispair Controller WAC6

Ref. 21853AW

- For the simultaneous speed control of 1 to 6 Whispair units. Two slide switches provides On/Off operation and infinitely available speed settings
- Complete with 'fan running' indicator light

### Xpelair Group Whispair Reversing Controller WAC6R

Ref. 21878AW

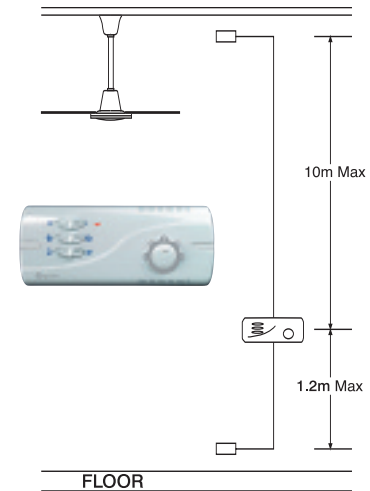
- For the simultaneous speed control of 1 to 6 Whispair units. Two slide switches provides On/Off operation and infinitely variable speed settings. Complete with 'fan running' indicator light and choice of winter/summer upwards or downwards airflow

### Xpelair Whispair Auto Temperature Controller AWC

Ref. 21857AW

- De-stratification controller supplied with two thermo sensors at high / low level monitoring between preset minimum and maximum values. For the simultaneous speed control of

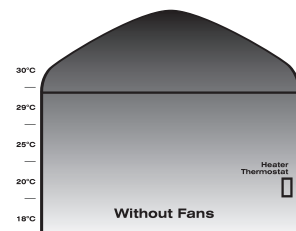
- 1 to 10 Whispair units. Three slide switches provides On/Off operation and upwards or downwards rotation, manual override
- Complete with fan running light
- w210 x h86 x d45mm



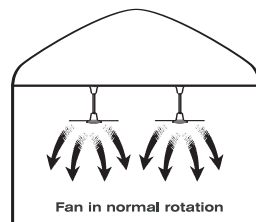
Typical Specifications on page 174.  
Wiring Diagrams on page 188.

## Air Movement

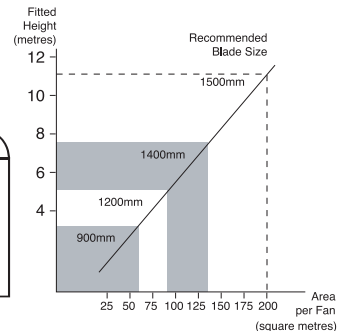
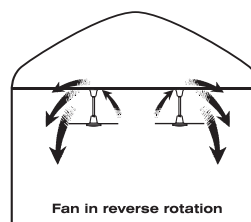
### Heat Layers



### Summer cooling

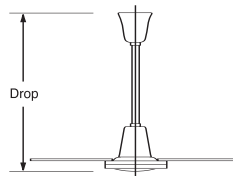
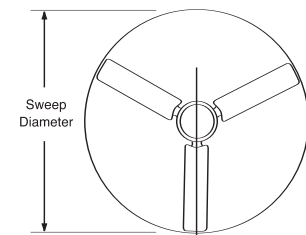


### Heat conservation



## Dimensions (mm)

### Whispair Range



	Dimensions (mm)			
	NWAN36	NWAN48	NWAN56	NWAN60
Sweep Diameter	900	1200	1400	1500
Overall Drop	All models, ceiling to bottom of fan: 375 or 750 (two down rods supplied)			

## Installation

### Which fan diameter do I choose?

Whispair units are delivered with two suspension rods. Ideally the fan blade should be at 2700mm or more from the floor (but never less than 2400mm) and a minimum of 375mm from the ceiling.

Spacing will vary according to individual building layout. As a rule of thumb, in the majority of temperate climate applications Xpelair Whispair should be spaced 4500 – 6000mm between blade tips apart. In hot and humid applications this should be reduced by a third. The units should be no closer than one

and a half diameters from pillars and walls in order to avoid turbulence unbalancing the unit and causing it to sway. Check that the units are clear of lighting to avoid strobe effects.

A speed controller is recommended particularly for multi unit installations.