



Sovereign Merlin Humidity Tracking Fan

The Merlin Humidity Tracking Extract Fan is a fully automatic 100mm (4") axial fan for wall, ceiling or window applications*.



Product Code **30605873**

Description

The Merlin Humidity Tracking Extract Fan is a fully automatic 100mm (4") axial fan for wall, ceiling or window applications*. This fan is iPx7 rated and is safety extra low voltage (SELV) as standard therefore being suitable for use in Zone 1 and 2. The energy efficient ball bearing 12V DC motor requires 2 watts of power when operating. Supplied with fan, remote humidity sensor & transformer.

Technical Data

Fan Motor:	12V DC 2 watts (trickle)
Extract Capacity:	90m ³ /h (25 ltrs/sec)
Trickle dB(A):	14
Humidity Range:	0-100% RH
Response Sensitivity:	5% RH @ 30% RH within 10 seconds
Night Time Setback:	70% RH between 18-25°C (+/- 1% per 1°C rise or fall)
Supply Voltage:	220/240V AC
Max. DC Ripple Voltage:	20mV RMS
Load (max switching):	50 watt @ 12 volt DC inductive

How the system works

The Dynamic Humidity sensor is designed to operate when any rapid increase in the humidity is sensed. When the water vapour has been extracted and the room returns to the previous humidity level, the Dynamic Controller will switch the fan off boost back to the present trickle rate..

Construction

Wall fan - The low profile 100mm fan is suitable for wall mounting ideally with the Sovereign through Wall Kit. The Isolation transformer forms an integral part of the dynamic humidity sensor controller and is contained within a single gang box. Supplied as a kit including fan, remote humidity sensor and transformer.

Motor

These fans include energy efficient, ball bearing DC motors that, when combined with the control platform, consume no more than 2 watts on trickle. Both 240V and low voltage options offer the same performance and energy consumption.



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INSTALLATION

The fan unit may be fitted in either Zone 1 or 2 of a bath/shower room. The humidity sensor/transformer must be fitted outside Zone 2 only. For maximum efficiency the fan should be sited at high level, as close as possible to the source of moisture. The sensor/transformer should be positioned to detect humidity as it is produced, ideally on an internal wall 100-150mm down from the ceiling and between the moisture source and the door of the room.

In many instances, a Sovereign Passive Vapour Vent, may need to be fitted to other cooler rooms within the property, in order to promote a good airflow throughout the dwelling.

FAN DIMENSIONS

Casing (mm)	A	B	C	D
	90	45	99	190
Hole Diameters (mm)	Walls		107	
	Ceilings		107	
	Windows		117	

SPECIAL FEATURES

MOTOR

- ✓ Energy Efficient - As low as 2 watts
- ✓ Ball Bearing Motor, provides long life performance
- ✓ Quiet operation
- ✓ Conforms to IEE 17th Edition SELV circuits

HUMIDITY SENSOR

- ✓ Dynamic sensor head guaranteed for life
- ✓ Transformer and humidity sensor housed in single remote uni
- ✓ Manually operated pull-cord for max boost and return to trickle operation
- ✓ LED function display

GENERAL

- ✓ Extract rate 90m³ per hour (25 ltrs/sec)
- ✓ SELV fan option can be positioned in Zone 1 or 2
- ✓ Transformer/Humidity sensor unit must be positioned outside Zone 2

BENEFITS

- ✓ 5 Year Guarantee
- ✓ Lower cost for tenant in keeping with Government Directive regarding energy efficient electrical appliances in Social Housing.
- ✓ No maintenance required.

HEALTH & SAFETY

This product is classified as non hazardous.



Health & safety information
available on request



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