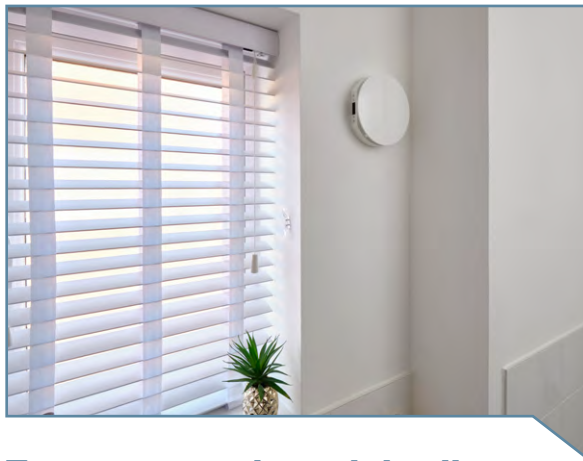


Titon Ultimate® dMEV

Decentralised Mechanical Extract Ventilation
or highly efficient constant flow intermittent extract fan



For use in residential dwellings and light commercial applications

The new high performing Titon Ultimate® dMEV is an ultra quiet low profile fan, which is suitable for new build or refurbishment projects. It can be either wall or ceiling mounted and is ideal for bathrooms, kitchens and utility room applications.

With adjustable continuous and boost speed settings available. The patent applied fan utilises an efficient DC motor and uniquely designed impeller/guide vane combination to produce high flow rates and pressure.

The Titon Ultimate® dMEV uses a boost overrun and boost delay timer that is adjustable between 0 - 60 minutes. The unit has optional humidity control, constant flow and optional data logging.



Exceeds stringent
20 Pa*
back pressure
requirement

Features & Benefits

- One of the quietest solutions and best performing dMEV fan on the market
- Low specific fan power down to 0.11 W/l/s
- Airflow up to 30 l/s (108 m³/h)
- Extremely low running costs
- 3 configurable speed options (Trickle, Boost and High Boost)
- Constant flow technology
- 4 button & LED display to allow for simple control
- Extract fan designed to run continuously (24/7)
- Integral pressure sensor to maintain constant flow to overcome external back pressures of up to 20Pa
- Unit running time and average RH Data Logging
- Fast straightforward commissioning and set up
- Ideal for removing condensation which can lead to mould and ill health
- Low profile aesthetic circular design
- Easy clean design
- Quiet running, only 10 dB(A) at 3m, low speed
- Unique high performance impeller and guide vane design
- IPX4 rated (Ceiling mounted TP646 Kit required)**
- Double insulated (requires no earth)
- Designed and manufactured in accordance with EN60335-2-80 Low Voltage Directive and the EMC Directive (Electromagnetic Compatibility)
- Complies with Building Regulations Part F (England and Wales)
- High performance brushless DC motor
- 18 months guarantee (UK only)
- PCDB listed for inclusion within SAP
- Patent applied
- Exceeds newly proposed stringent 20 Pa back pressure requirement*

The Ultimate Choice

* Results as Consp10 - Future SAP/PCDB proposal, as tested by the BRE. The future requirements of Consp10 require a maximum of 30% reduction in flow with a pressure of 20Pa, many dMEV and small continuous fans are unable to comply with this requirement.

** To maintain the IPX4 rating when ceiling mounted, a kit must be used. Please contact us for availability of ceiling mounting kits.

For use with Titon Trickle Ventilators - See page 106.

Description

Titon Ultimate® dMEV constant flow decentralised mechanical extract ventilation fan.

Product Codes

- TP640** – Basic version
- TP640H** – Humidity Control
- TP640HD** – Humidity Control with Data Logging

Standards

Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility). Air performance measured according to ISO 5801 at 230V 50Hz, air density 1,2 Kg/m³. CE marked.

Specification

Dimensions:

Ø195mm with 45mm projection

Weight: 0.5Kg

Finish: Gloss White

Materials: ABS, PCB's, LED display & brushless motor.

Controls: Onboard 4 button controls with 4 digit LED display

Guarantee period: 18 months (UK only)

Electrical: 220-240 V ~ 50/60Hz

Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

Maintenance: Service, clean, replace subject to local environment - see product manual.

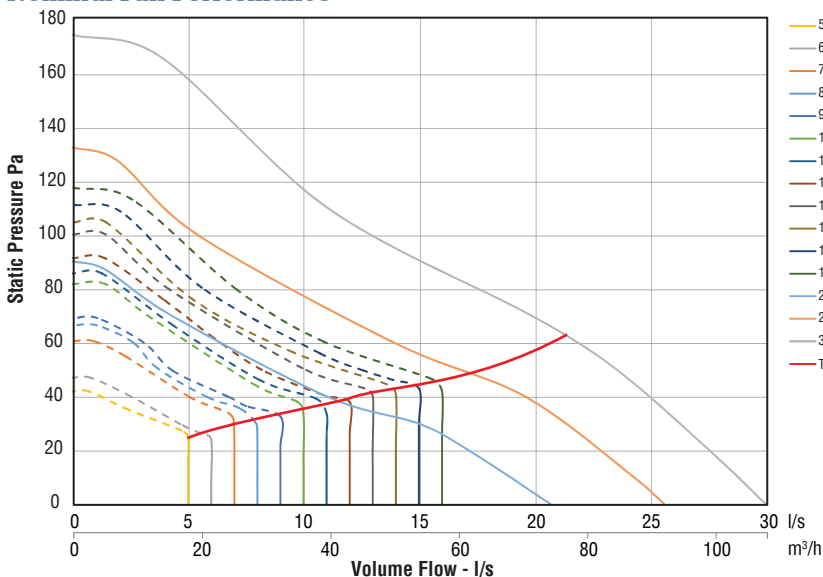
Accessories

- TP645/BR** - Telescopic Wall Kit (Brown)
- TP645/BE** - Telescopic Wall Kit (Beige)
- TP645/TC** - Telescopic Wall Kit (Terracotta)
- TP645/WH** - Telescopic Wall Kit (White)
- TP646** - IPx4 Ceiling Kit
- TP647** - Decorative Wall Plate

Ducting Kits

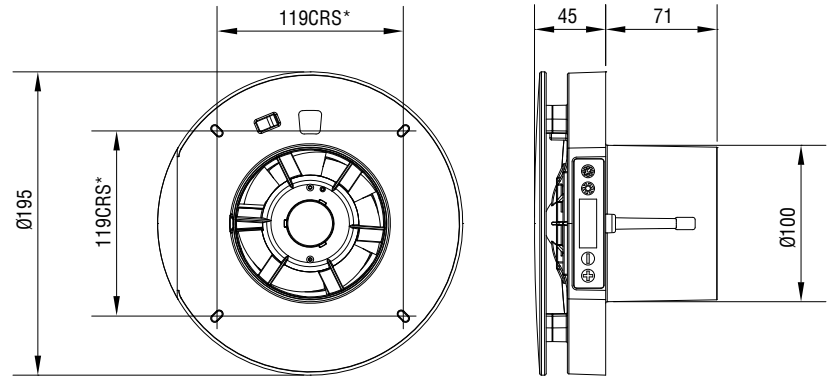
Our ducting kits are recommended to maintain flow rates and are available in Ø100mm and 110x54mm rectangular. Kits contain; 3m duct, bends, grille and accessories. Calculated resistance rates are also included in ducting kit literature.

Nominal Fan Performance



*Typical operating range (below red line)
Operating in the dotted line area will display "High Pressure" on the display

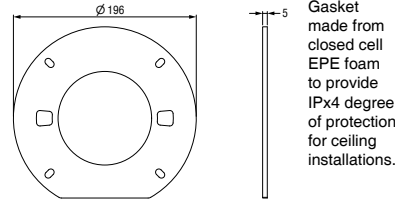
Drawing & Dimensions



*Fixing Holes

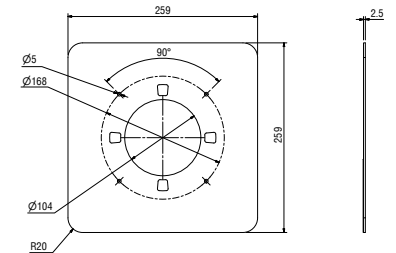
Dimensions in mm

Ceiling IPx4 Kit** (TP646)



Gasket made from closed cell EPE foam to provide IPx4 degree of protection for ceiling installations.

Decorative Wall Plate (TP647)



Performance

The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

Location	Ducted in room				Direct exhaust through wall			
	Kitchen		Wet room		Kitchen		Wet room	
	Rigid	Flexible	Rigid	Flexible	Rigid	Flexible	Rigid	Flexible
Fan speed setting	47 m³/h		29 m³/h		47 m³/h		29 m³/h	
	13l/s		8l/s		13l/s		8l/s	
SFP w/l/s	0.14	0.14	0.16	0.15	0.11	0.11	0.14	0.14

Figures taken from the BRE Test Results

Airflow m³/h	Airflow l/s	Max power (W)	Sound pressure dB(A) @ 3m***	Ambient temp °C
18	5	1.1	10	40
29	8		15	
43	13	1.5	26	
72	20		38	

***Acoustic results are measured with a 'through wall' installation.

Results as Consp10

Through Wall					
Wet room - Kitchen					
L/s	5	8	11	13	16
W/l/s	0.21	0.15	0.15	0.15	0.16
% reduction	6%	5%	2%	1%	2%
Maximum allowable % reduction	30%	30%	30%	30%	30%

In Duct		
Wet room - Kitchen		
L/s	8	13
W/l/s	0.14	0.11
% reduction	1%	1%
Maximum allowable % reduction	30%	30%

Results as Consp10 - Future SAP/PCDB proposal, as tested by the BRE.

The future requirements of Consp10 require a maximum of 30% reduction in flow with a pressure of 20Pa, many dMEV and small continuous fans are unable to comply with this requirement.