

Triton Flat PPU

Slimline, whole house, mechanical extract ventilation



- Energy efficient EC motor
- Efficient, low energy solution to controlling condensation and pollution
- Provides low level continuous ventilation in a kitchen and up to 5 wet rooms
- Variable choice of low (trickle) and boost speed at installation
- Compact ultra-low profile unit
- For loft, void, false ceiling or cupboard
- Requires only one discharge grille
- Low noise levels and running costs
- Available with 204 x 60mm spigot
- Available with humidistat
- Compliant with building regulations Parts L1 2010 and F 2010
- Manufactured in UK to ISO 9001

General Features

- Up to 97 litre/sec at 50Pa – max 100 litre/sec capacity
- Suitable for areas up to 270m²
- Easy and economical installation and maintenance
- Can be angled horizontally or vertically
- Variable low (trick) and boost options
- Boost speed triggered by a switched live connections from:
 - A light switch (if more than one light switch is used, each one must be a double pole switch)
 - DRH240 (dynamic remote humidistat)
 - PIRFF (Passive infra-red)
 - THM (Thermostat)
 - A remote switch/pull cord
- Low noise levels (below 20dB(A))
- Low running costs
- Extra security – no need to open windows
- 3 year warranty

Technical Features

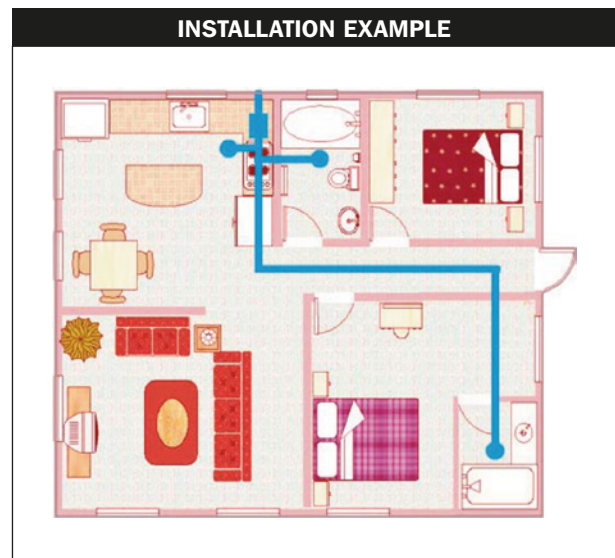
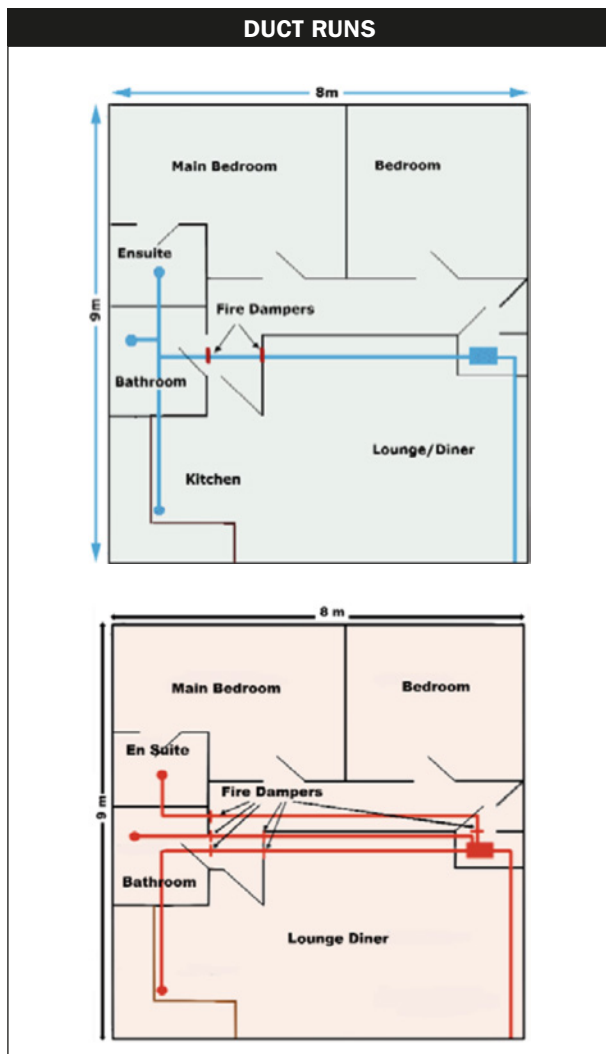
- Compact, ultra-low profile
- Casting from steel, lined with acoustic material
- Low energy EC external rotor motor with sealed life bearings
- Backward curved impellers dynamically balanced
- Thermal overload protection
- Service and maintenance panel easily accessible
- Pre-wired for easy electrical connection
- Complete with mounting bracket and anti-vibration plate
- Operates in temperature up to 60°C
- Manufactured in UK to ISO 9001
- IPX4 rated

Complies with

- Part L1 2010 of Building Regulations for enhanced energy saving capability
- Part F 2010 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant
- Conforms to requirements of EC Council directives relating to Electromagnetic Compatibility and Electrical Safety: 2006/95/CE (LVD), 2004/108/CE (EMC), EN60335-2-80
- CE marked
- SAP Q eligible
- Energy Saving Trust Best Practice Compliant

Control Features

- Variable Adjustment – trickle and boost speeds set at installation
- Boost Setting (via switched live)



Triton Systems can supply all accessories for use with these units including air filter cassettes, silencers, fire dampers, air valves, ducting, outside grilles and wall cowls. Additionally, Triton Systems offers a design service to ensure that the unit installed is the best possible to provide efficient, effective, low energy and low running cost ventilation. Triton Systems can also organise installation, commissioning and maintenance of these products.

| Technical Characteristics | | | | | | | | | | |
|---------------------------|---------------|-------------|-----|-----|-----|---------------|-------------|-----|-----|-----|
| Model | Airflow l/sec | | | | | Power – Watts | | | | |
| | Max Boost | Max trickle | 80% | 60% | 40% | Max Boost | Max Trickle | 80% | 60% | 40% |
| Triton Flat PPU | 100 | 100 | 90 | 60 | 30 | 46 | 45 | 26 | 12 | 6 |

| Results for SAP Calculations Energy Level Performance – using rigid ducting only | | | Results for Approved Document F | | |
|---|----------------------------|---|---------------------------------|--|--------------------------------|
| Exhaust Terminal Configuration | Specific Fan Power [W/l/s] | EST Best Practice Performance Compliant | Total Flow Rate [l/sec] | Total Flow Rate [wind condition] [l/sec] | % reduction of Total Flow Rate |
| Kitchen + 1 additional wet room | 0.20 | Yes | 21.0 | 19.3 | 8 |
| Kitchen + 2 additional wet rooms | 0.26 | Yes | 29.0 | 27.9 | 4 |
| Kitchen + 3 additional wet rooms | 0.34 | Yes | 37.0 | 36.3 | 2 |
| Kitchen + 4 additional wet rooms | 0.44 | Yes | 45.0 | 44.2 | 2 |
| Kitchen + 5 additional wet rooms | 0.55 | Yes | 53.0 | 52.5 | 1 |

Figures from BRE test results at minimum flow rate conditions.

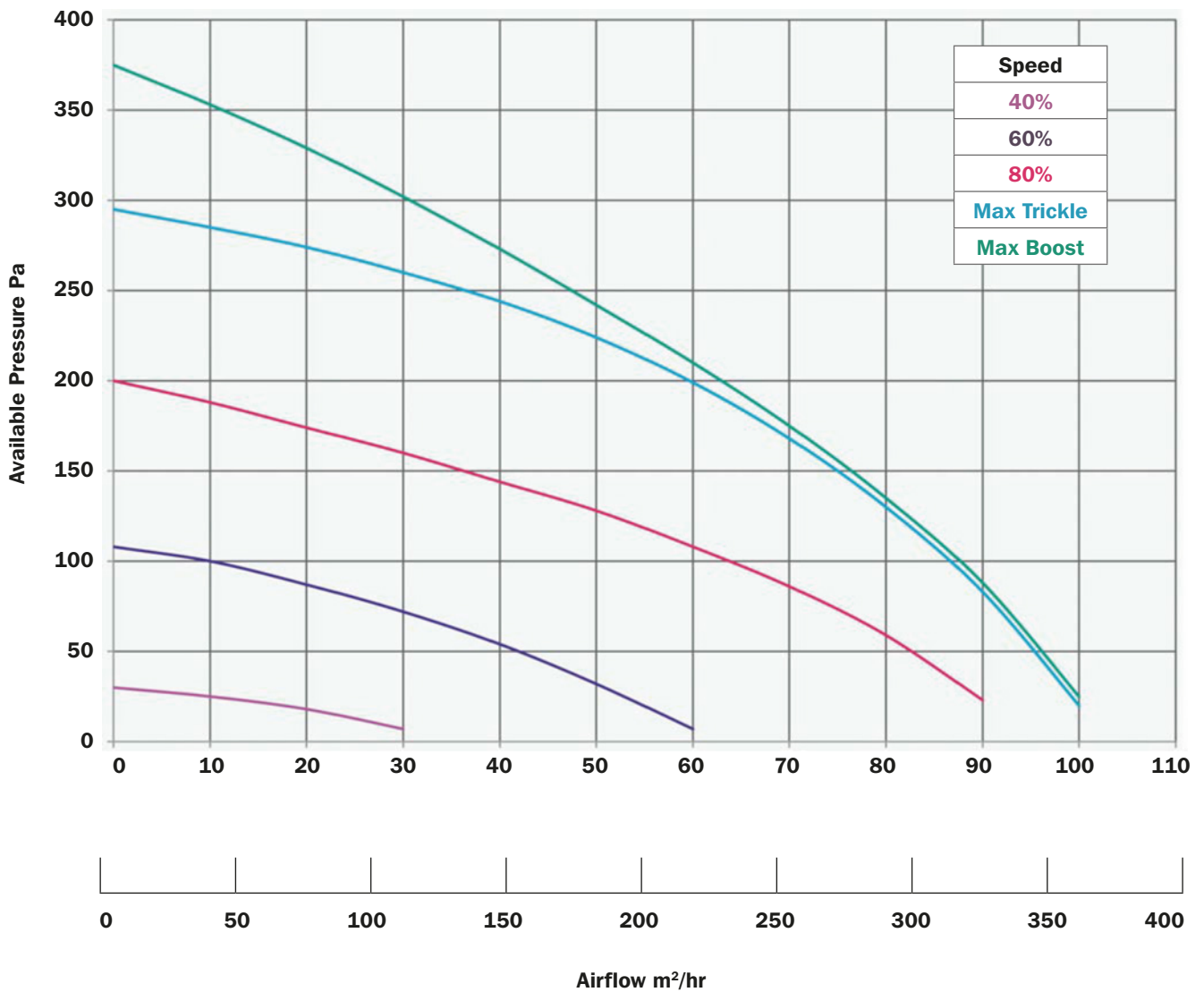
| Triton Flat PPU | | Characteristic in-Duct Sound Power Levels Mid Octave Frequency band | | | | | | | | Case-radiated LpA[dB] @ 3m* |
|-----------------|---------|--|-----|-----|-----|----|----|----|----|-----------------------------|
| Curve Ref | | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | |
| Max Boost | Extract | 85 | 83 | 79 | 68 | 67 | 60 | 52 | 45 | 39 |
| | Supply | 83 | 85 | 76 | 73 | 67 | 64 | 57 | 49 | |
| Max Trickle | Extract | 85 | 83 | 79 | 68 | 61 | 60 | 52 | 45 | 39 |
| | Supply | 83 | 85 | 76 | 73 | 67 | 64 | 57 | 49 | |
| 80% | Extract | 82 | 80 | 75 | 68 | 57 | 56 | 47 | 39 | 35 |
| | Supply | 80 | 83 | 73 | 69 | 63 | 60 | 52 | 44 | |
| 60% | Extract | 70 | 72 | 62 | 57 | 45 | 42 | 32 | 25 | 25 |
| | Supply | 69 | 74 | 59 | 57 | 50 | 45 | 36 | 27 | |
| 40% | Extract | 48 | 50 | 42 | 34 | 31 | 28 | 21 | 16 | 16 |
| | Supply | 47 | 51 | 40 | 39 | 34 | 30 | 24 | 17 | |

* Assumes spherical radiation under anechoic conditions

Typical Specification

Supply and install a Triton Flat PPU which gives low level, continuous ventilation to a kitchen and five other wet rooms. The unit should be for loft, void, false ceiling or cupboard installation and be no more than 184mm deep. The unit should incorporate a low energy EC external rotor motor with sealed for life bearings for low noise levels and low energy consumption with an SFP down to 0.20. It should have a variable choice of low (trickle) speed and boost options for optimum setting. The unit should be pre-wired for easy electrical connection. It should comply with all current IEE, EC and Building Regulations requirements, be SAP Q Eligible, be Energy Trust Best Practice Compliant and IPX4 rated and made in the UK by Triton Systems Ltd

PERFORMANCE (curves are for guidance only)



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