

# What's the Annual Running Cost of a Ventilation Fan at Trickle Rate in the UK?

The annual running cost of a ventilation fan at trickle rate in the UK typically ranges from **£5 to £15 per unit**, depending on wattage and energy prices. For example, VENTI's FLUXO 100 model consumes 1.2W-2.6W, costing roughly £5/year at 24p/kWh. Continuous operation balances energy efficiency with air quality improvements, making modern systems a cost-effective solution for damp prevention.

## Breaking Down Ventilation Fan Running Costs

Understanding the operational expenses of trickle ventilation requires analysing three key factors: **power consumption**, **energy tariffs**, and **usage patterns**. Here's how these elements interact in real-world scenarios:

### 1. Power Consumption: The Core Metric

Ventilation fans like VENTI's FLUXO and ARIA models operate at low wattages during trickle mode:

- **FLUXO 100:** 1.2W (minimum) to 2.6W (maximum).
- **ARIA DMEV:** 1.0W (trickle) to 5.8W (boost).

At trickle rates, these systems prioritise energy efficiency while maintaining airflow. For perspective:

- **Hourly consumption:**  $1.2\text{W} = 0.0012 \text{ kWh}$ .
- **Daily cost:**  $0.0012 \text{ kWh} \times 24\text{h} = 0.0288 \text{ kWh} \times 24\text{p/kWh} = \text{£}0.007$ .
- **Annual cost:**  $\text{£}0.007 \times 365 = \text{£}2.55$ .

However, VENTI's stated £5/year figure accounts for **real-world variables**, such as occasional boosts in airflow or regional tariff fluctuations.

### 2. Energy Tariffs: The Price of Power

As of 2023, UK electricity prices average **24-34p per kWh**, influenced by:

- **Geographic location** (e.g., higher costs in Southern England).
- **Energy supplier tariffs** (variable vs. fixed rates).
- **Government levies** (e.g., VAT, green taxes).

Using the FLUXO 100's **1.7W average consumption**:

- **Annual energy use:**  $1.7\text{W} \times 24\text{h} \times 365 = 14.9 \text{ kWh}$ .
- **Cost:**  $14.9 \text{ kWh} \times 24\text{p} = \text{£}3.58$ .

This aligns with VENTI's estimates when factoring in minor load variations.

### 3. Comparative Analysis: Trickle Vents vs. Mechanical Systems

While traditional trickle vents incur **zero energy costs**, they often lead to:

- **Heat loss:** Uncontrolled airflow increases heating demands.
- **Mould risk:** Inconsistent ventilation fails to manage humidity.

In contrast, mechanical systems like FLUXO recover **82% of heat** and reduce annual heating costs by £100-£300 in poorly insulated homes.

### Why Modern Ventilation Pays for Itself

1. **Health Savings:** Mitigating damp and mould prevents respiratory issues, reducing NHS expenses (estimated £1.4 billion/year in mould-related treatments).
2. **Energy Efficiency:** FLUXO's heat recovery offsets its £5-£15 running cost by slashing heating bills.
3. **Regulatory Compliance:** Building Regulations Part F mandates "adequate ventilation" - achievable cost-effectively via certified systems.

**Upgrade to VENTI's FLUXO or ARIA systems for annual running costs under £15 and transform your home into a healthier, energy-efficient space - request a free consultation today.**