

How does the AUREN meet the requirements of BS 3632:2023 - Residential park homes?

The AUREN 160 single-room MVHR unit meets BS 3632:2023 by delivering continuous, balanced ventilation and superior energy efficiency, crucial for modern airtight park homes. It uses a ceramic heat exchanger to recover up to 93% of heat and runs for as little as £5-£7 annually. Furthermore, it features automatic humidity control to actively prevent condensation and mould, supporting the standard's focus on resident health and structural integrity.

The £7-a-Year Guarantee: How AUREN Secures Your BS 3632:2023 Park Home Promise



Navigating the BS 3632:2023 Imperative

The principles of **BS 3632:2023**, the British Standard for **residential park homes**, demand a shift in perspective. It moves the park home from the status of a glorified caravan to a high-quality, permanent dwelling, comparable to conventional bricks-and-mortar housing. This updated standard focuses relentlessly on three core areas: **Thermal Performance**, **Resident Health**, and **Durability**.

For manufacturers and park operators, the 2023 update is a genuine opportunity. It's a chance to silence the lingering anxieties about quality and status, proving that a park home is not just an affordable choice, but a *smart, legitimate* choice. However, as homes become more airtight to meet tighter thermal targets (lower U-values), the burden on ventilation systems increases dramatically. This is where the AUREN unit becomes less of a technical detail and more of a strategic necessity.

The Airtight Reality: Why Controlled Ventilation is Non-Negotiable

Modern park homes, particularly those built with advanced Modular Method of Construction (MMC) techniques, excel at keeping heat in—a primary goal of the new standard. This improved

airtightness, however, creates a critical problem: where does the moisture from daily living go?

Every resident, whether they are cooking, showering, or simply breathing, adds litres of water vapour to the air every day. In a well-sealed home, this moisture has nowhere to go. It reaches cold spots, condenses, and eventually leads to dampness, mould, and the dreaded musty smell that betrays the home's quality. This is a direct assault on the aspirational, low-maintenance lifestyle your residents seek.

BS 3632:2023 specifically requires improved and controlled ventilation to manage this. Passive measures, like simple trickle vents, are often insufficient and uncontrollable. The standard, therefore, points builders towards **continuous mechanical ventilation with heat recovery (MVHR)** as the ideal solution.

AUREN: The Triad of Compliance and Performance

The AUREN 160 single-room Heat Recovery Ventilation (srMVHR) unit is engineered to deliver compliance with high-performance metrics, specifically addressing the key principles of the British Standard.

1. Energy Efficiency and Running Cost (The Thermal Principle)

The 2023 standard tightens requirements for U-values, forcing manufacturers to ensure less heat escapes the building fabric. The AUREN supports this aim without sacrificing air quality.

- **Heat Recovery Efficiency:** The unit incorporates a sophisticated **ceramic heat exchanger**. This allows it to capture up to **93% of the heat** from the air being extracted and use it to pre-warm the fresh air entering the home. This crucial mechanism means the ventilation system is not acting as a massive hole in your thermal envelope.
- **Minimal Energy Consumption:** Despite its powerful performance, the AUREN is designed to run continuously on minimal power. Running 24 hours a day, 365 days a year, the unit operates for as little as **£5 to £7 per year**. This is a powerful, bankable fact for park operators who promise affordable living and need to protect their residents from spiralling energy costs. For manufacturers, this low running cost eliminates a primary anxiety point for their customers.
- **Performance Data:** On its standard low setting, the AUREN consumes just **3.9 Watts (W)**, a negligible draw that easily aligns with the standard's emphasis on reduced environmental impact and cost of ownership.

2. Health, Ventilation, and Moisture Control (The Health Principle)

BS 3632:2023 mandates better moisture management to protect health and the structure. The AUREN delivers **controlled air exchange** that goes well beyond the passive systems.

- **Continuous, Balanced Airflow:** The unit works on a **70-second alternating cycle**, extracting stale, moist air for 70 seconds and then recovering the heat before supplying fresh, pre-warmed air for the next 70 seconds.⁹ This continuous action ensures constant air changes,

preventing the build-up of moisture that leads to condensation and the lingering, stale odours often associated with sealed, unoccupied homes.

- **Automatic Humidity Management:** This is the critical feature for park homes. The AUREN includes **Automatic Humidity Control** via intelligent sensors. When humidity reaches a pre-set threshold (e.g., from cooking or showering), the unit automatically boosts its fan speed to quickly remove the excess moisture. This *proactive* approach arrests condensation before it can even form, safeguarding paintwork, furniture, and the health of the residents.
- **Air Filtration:** The unit includes **washable dual dust filters**. By filtering the incoming air, the AUREN improves indoor air quality by reducing external pollutants and allergens, contributing directly to the standard's focus on resident well-being.

3. Installation and Durability (The Durability Principle)

Residential park homes require equipment that is durable and easily integrated into their construction methods, which often involves thinner wall assemblies than traditional builds.

- **Robust Construction:** The AUREN 160 is certified with an **IPX4 protection rating**, meaning its external components are protected against splashing water. It is designed to operate across a broad temperature range (-30°C to +50°C), confirming its resilience and suitability for year-round permanent residency across all UK climates.
- **Refurbishment and Retrofit Suitability:** Its single, through-the-wall design means installation is straightforward, minimising disruption during the manufacturing process or for existing park home upgrades. This simplicity is vital for manufacturers needing to maintain efficiency on the production line.
- **A Quiet Comfort:** With noise levels as low as **4 dB(A)** on its quietest setting, the unit respects the resident's desire for peace, enhancing comfort and the overall quality of life, which is a subtle yet powerful component of the standard's core intent.

Moving Beyond Compliance

The BS 3632:2023 standard demands that residential park homes offer not just housing, but a genuine **lifestyle solution**. This means the home must be comfortable, cost-effective to run, and maintain a pristine internal environment without constant intervention from the resident.

The AUREN 160 is more than a compliant fan; it is a **low-cost insurance policy** protecting your brand promise against the high cost of mould, damp, and resident dissatisfaction. It ensures that the aspirational, affordable lifestyle you sell is backed by uncompromised, maintenance-lite performance.

Specify the AUREN to future-proof your park homes against moisture damage, protect your brand's quality promise, and deliver the low-cost, healthy lifestyle your buyers expect from a BS 3632:2023 compliant dwelling.