



Introducing the R290 Package Heat Pump Unit

Next-Generation Efficiency Meets Sustainable Innovation

Weatherite is proud to unveil our latest breakthrough in HVAC technology: the new R290-based heat pump package unit.

Engineered to meet today's environmental demands and tomorrow's regulations, this system provides energy-efficient heating and cooling for commercial and light-industrial applications.

Developed using the latest innovations in natural refrigerant systems, the unit combines outstanding performance, industry-leading safety, and flexible integration, all in a compact, modular format. It's a solution designed to reduce carbon footprints without compromising on output, reliability, or control.

Key Features:

✓ Natural Refrigerant (R290)

Utilises propane with an ultra-low GWP of just 3, making it one of the most climate-conscious choices on the market.

✓ Built-In Safety Systems

Includes integrated leak detection, explosion-proof emergency ventilation, visual/audible alarms, and pressure protection protocols, ensuring safe operation under all conditions.

✓ Integrated Controls

BMS-compatible control system allows seamless integration for smart, efficient facility management.

✓ High-Efficiency EC Plug Fans

Delivers optimal airflow with reduced power consumption and noise.

✓ Custom Configurations

Flexible ducting layouts, left/right-hand design options, and modular capacity sizing.

✓ Hydronic System with Thermal Storage:

Improves defrost cycle efficiency and stabilises

Performance & Practical Advantages

- Low Operational Costs: High COP values reduce running costs over the lifetime of the unit.
- Ultra-Quiet Operation: Fully hermetic compressors and EC fan technology deliver whisper-quiet performance.
- Sustainability-Focused: Engineered with recyclability and regulatory compliance in mind.
- Factory-Tested: Each unit is pre-piped, pre-charged, and factory commissioned, ensuring faster, simpler installation.

Technical Specifications

- Operating Temp Range: Designed for year-round reliability, including sub-zero conditions.
- Heating Capacity: Multiple unit sizes available to meet diverse project requirements.
- Refrigerant Charge: Optimised for performance and safety compliance.

Construction:

- Durable, weather-resistant casing
- Integrated high-efficiency heat recovery (plate or rotary)
- Digital control solutions available

Compliance:

- PED 2014/68/EU & PSSR 2000
- BS EN 378
- ERP Directive
- Machinery Directive 2006/42/EC
- EMC Directive 2014/30/EU



A Heat Pump Built for Real-World Demands

Weatherite's Advanced R290 Heat Pump Delivers Safety, Efficiency & Compliance

Typical Applications

- Supermarkets & Retail Stores – Optimised comfort for customers and staff
- Warehouses & Distribution Centres – Maintains storage conditions and working environments
- Commercial & Light Industrial Buildings – A low-carbon solution for high-demand spaces

Why Choose Weatherite?

With over five decades of engineering excellence, Weatherite is a trusted partner in bespoke HVAC solutions. Our in-house design, manufacturing, and commissioning capabilities ensure total control from concept to completion, backed by a deep commitment to sustainability and innovation.

Ready to Reduce Your Carbon Footprint?

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