



Introducing the R290 Package Heat Pump Unit

**Next-Generation Efficiency
Meets Sustainable Innovation**



Weatherite is proud to unveil their latest breakthrough in HVAC technology

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) 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:** Deliver optimal airflow using copywritten Weatherite algorithm for optimum performance in all seasons and including defrost cycles with reduced power consumption.
- ✓ **Custom Configurations:** Flexible ducting layouts, left/right-hand design options, and modular capacity sizing.
- ✓ **Hydronic System with Thermal Storage:** Optimises efficiency and guarantees reliable operation, especially during demanding winter defrost cycles.

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.
- **Factory-Tested:** Each unit is factory assembled and pre-charged with refrigerant and is factory pre-commissioned before dispatch, which ensures 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



Weatherite



BRITISH MANUFACTURER
FOR OVER 50 YEARS

**MADE IN
BRITAIN**

R1
RETAIL ONE

GWP3
GLOBAL WARMING POTENTIAL OF 3



Revolutionary Heat Pump AHU Safe, Complete, Sustainable

**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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