



# Experts in HVAC Solutions

**Working towards a better environment**







# Weatherite

## Innovative, Energy-Efficient, Sustainable HVAC Solutions

**Delivering high-performance air conditioning and air handling systems with precision, quality, and reliability.**

At Weatherite Air Conditioning Ltd, we recognise the impact our products have on the environment and take this responsibility seriously. We are committed to developing energy-efficient solutions that help reduce carbon footprints and operational costs for our clients.

As one of the UK's leading manufacturers of bespoke HVAC equipment, we continuously innovate to stay ahead in an increasingly competitive global market. Our focus on cutting-edge technology and precision engineering ensures that every system we produce is built to the highest standards of quality.

With over 50 years of experience, we have developed a deep understanding of the industry and our customers' unique requirements. Our expertise allows us to provide reliable, high-performance equipment that meets and exceeds expectations - every time.

At Weatherite, we believe in continuous investment, both in our state-of-the-art production facilities and in our people. This commitment allows us to develop innovative, energy-efficient, and long-lasting HVAC solutions that meet the highest quality standards. Our team's expertise and dedication ensure that every system we design, manufacture, test, and pre-commission is tailored to our customers' exact needs, delivering cost-effective and sustainable performance.

We have built strong, long-term partnerships with some of the UK's most prestigious companies, earning their trust through reliability and precision. In a competitive market, we understand that every detail matters, and we take nothing for granted.

When you partner with Weatherite, you gain a dedicated team committed to delivering the best HVAC solutions, designed for performance, efficiency, and longevity.



## State-of-the-Art Manufacturing

We continuously invest in advanced manufacturing technology and processes to produce high-quality, energy-efficient HVAC equipment. This commitment ensures our products meet the highest industry standards while delivering long-term performance.

## Integrated Production Systems

Our sales, design, and purchasing systems are fully integrated with our production facilities, creating a seamless and efficient workflow. This approach allows us to improve productivity, reduce lead times, and maintain exceptional quality control.



## Commitment to Innovation

By constantly reviewing and enhancing our manufacturing capabilities, we stay at the forefront of the HVAC industry. Our focus on innovation ensures we deliver the most advanced, cost-effective, and sustainable solutions to our clients.

## Research & Development

We collaborate with industry-leading partners to develop next-generation HVAC solutions tailored to evolving market demands. By incorporating high-efficiency motors, EC Fans, and thermal wheels, we maximise energy efficiency and sustainability.





## Our Product Solutions

**As one of the UK's leading air conditioning and air handling equipment manufacturers, Weatherite offers a comprehensive range of products to suit almost any application.**

- Packaged Rooftop Solutions
- Data Centre Cooling Solutions
- Air Handling Units
- Packaged AHU Heat Pump Solutions
- Heat Recovery Solutions
- Packaged Air Cooled Chiller Solutions
- Packaged Plantroom Solutions
- Hydrocarbon Packaged Equipment
- Replacement Solutions
- Refurbishment Solutions

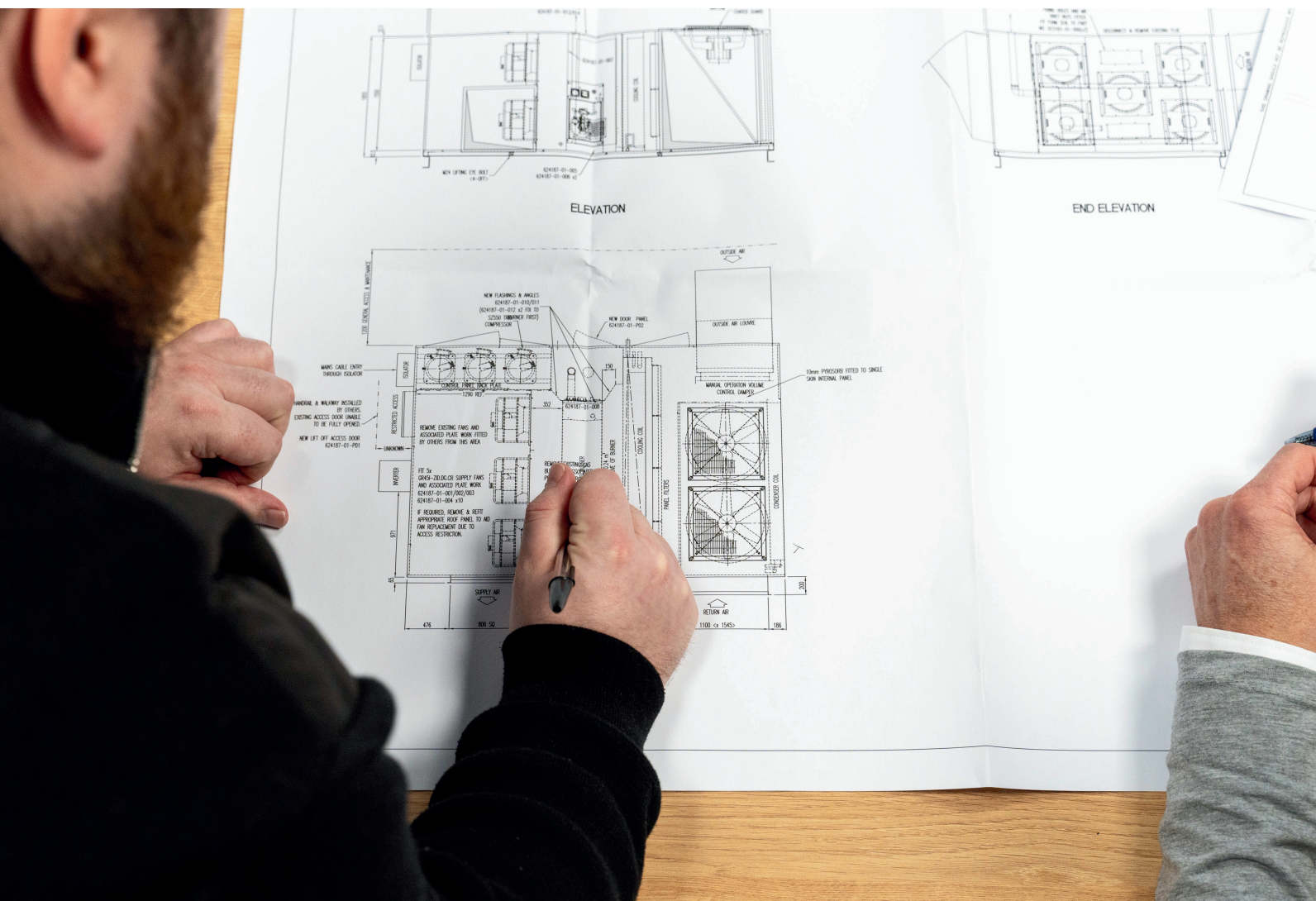


Weatherite's energy-efficient, high-quality packaged rooftop units are designed to meet the demands of today's fast-paced construction industry. Each unit is manufactured, tested, and pre-commissioned in our state-of-the-art facility before delivery, ensuring a seamless installation process.

Unlike many competitors, Weatherite offers a complete turnkey service, from initial design and manufacturing to installation and maintenance.

- EC Fans & variable speed drives
- High-efficiency scroll compressors
- IE2, IE3 & IE4 fan motors
- High-efficiency gas burners
- Advanced BMS control systems

For more information call us on **0121 665 2266**, email: **[sales@weatheritegroup.com](mailto:sales@weatheritegroup.com)**  
or visit our website **[www.weatheritegroup.com](http://www.weatheritegroup.com)**





# Data Centre Cooling Solutions

**As digital technologies like IoT, big data, and e-commerce evolve, the demand for efficient, reliable, high-performance data centre cooling systems grows.**

With over 35 years of experience, Weatherite specialises in efficient, low-energy cooling solutions for mission-critical IT environments. Our systems ensure low Power Usage Effectiveness (PUE) to meet the needs of data centres operating 24/7.

Data centres generate significant heat, requiring effective cooling to maintain uptime and prevent equipment failure. Our innovative systems are designed to meet these demands for both short, and long-term efficiency.

Weatherite offers complete cooling solutions, from new builds to refurbishments. We design, manufacture, and install systems tailored to your unique cooling needs, ensuring optimal performance.

Our cooling solutions provide top-tier energy efficiency and reliability, with options for various data centre needs, including:

- FreTec Direct Outside Air Cooling
- FreTec-r Rooftop / External Packaged Cooling
- AdTec-d Direct Outside Air Adiabatic Cooling
- AdTec-i Indirect Adiabatic Cooling
- In-Row Cooling
- Precision Cooling
- Cabin / Switchroom Cooling
- Pressure Tec Pressurisation Solutions
- AirBox Aisle Containment

**Partner with Weatherite for efficient, low-energy data centre cooling solutions tailored to your needs.**



# PureAir50

## Packaged AHU Heat Pumps

**Our Packaged AHU Heat Pumps prioritise energy efficiency and environmental impact, incorporating cutting-edge technology to deliver the most efficient solutions on the market.**

Weatherite Air Conditioning offers a comprehensive range of bespoke, packaged AHU heat pumps, featuring the latest advancements in heat pump technology.

With 50 years of expertise in designing and manufacturing custom air movement solutions, each unit is meticulously configured to meet the specific needs of every application, ensuring optimal performance, efficiency, and long-term reliability.

### Benefits Include:

- Exceptional quality, reliability, and performance.
- Cutting-edge technology incorporated as standard.
- Optimum air quality, 24/7, all year round.
- Wide range of options and functions available.
- Advanced control technology for maximum efficiency.
- Double-skinned unit construction, BS EN 1886 certified.
- Manufactured, tested, and pre-commissioned in our purpose-built facility.
- Available in single/multi-piece or flatpack for easy on-site assembly.
- Quick, easy installation with only ductwork and mains connections required.





## WispAir Air Handling Units

**WispAir is our range of advanced, energy efficient, fully compliant, quality Air Handling Units.**

The WispAir range offers a broad selection of air handling units (AHUs) designed with a focus on energy efficiency, reliability, and longevity.

Our AHUs are built using the latest construction techniques, advanced components, and control technologies, ensuring optimal system performance. We provide units with air flows ranging from 0.3m<sup>3</sup>/s to 35m<sup>3</sup>/s, and also offer bespoke solutions for larger units tailored to specific applications.

Each WispAir unit is constructed using a proven double-skinned, fully insulated method, enhancing durability and performance. Our units are tested to meet BS EN1886:2007 mechanical performance standards, ensuring they deliver the highest quality and reliability.



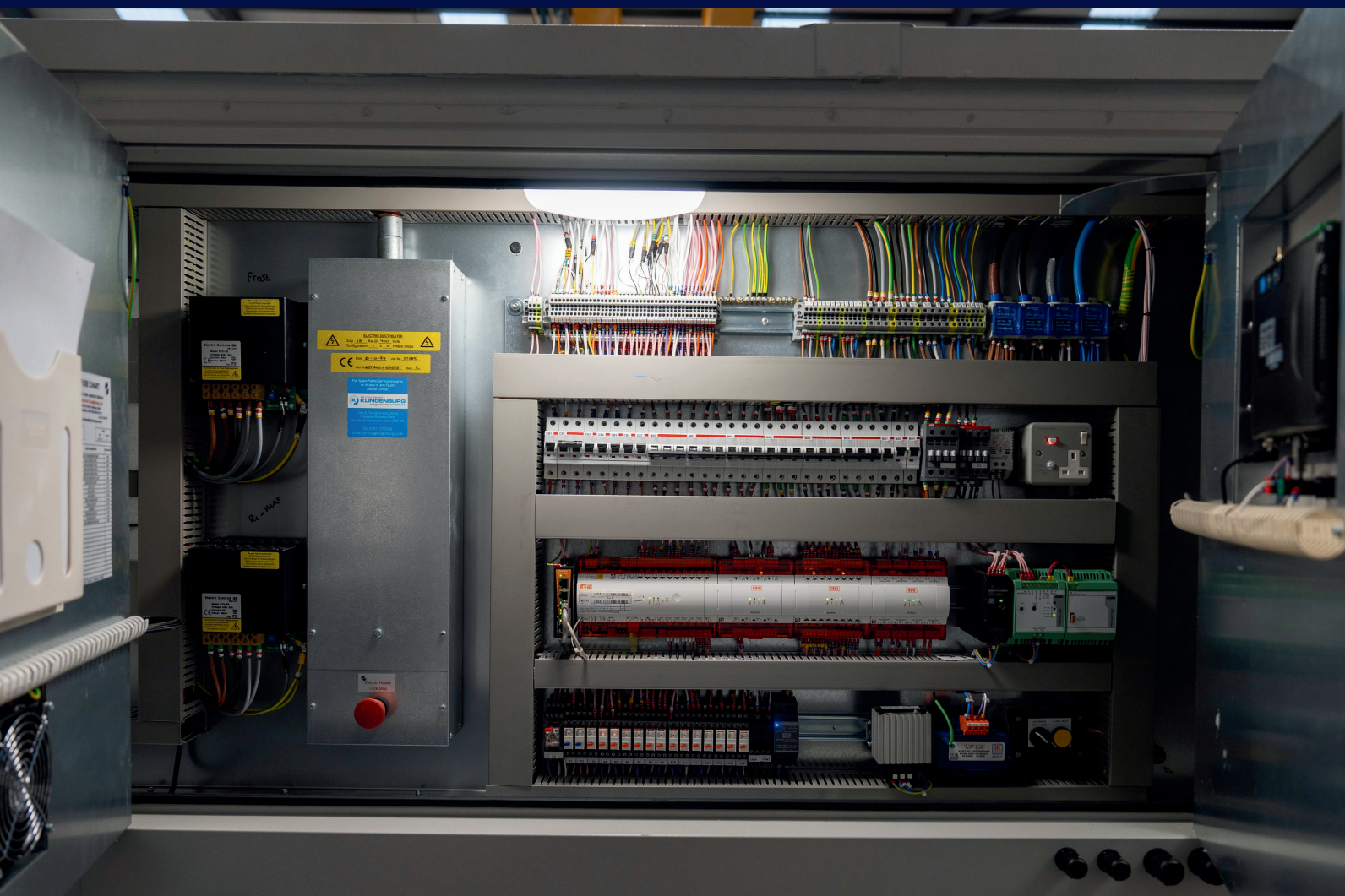
Built in full compliance with ISO 9001:2015 and ISO 14001:2015, the WispAir units are designed to meet the highest industry standards. They adhere to the latest ISO, BS, and EN standards, ensuring that every unit not only meets but exceeds quality and performance expectations. Our commitment to sustainability drives our focus on energy-efficient solutions, and all our units are fully aligned with the ErP Eco-Design Directives, ensuring minimal environmental impact while maximising operational efficiency.

The WispAir range is specifically engineered to provide a quiet, compact, and cost-effective solution for a wide range of applications. Whether you need a unit for a small office space or a large commercial building, our units deliver long-lasting, high-performance results. With a variety of customisation options and rigorous testing to meet unique project requirements, we guarantee that each WispAir unit is tailored to provide the optimal solution for your needs.

## Features

- Comprehensive range of configurations.
- Customisable shape, size, and performance.
- Supply, extract, and heat recovery options.
- Extensive range of operating duties.
- Exceptional acoustic and vibration control.
- Robust construction with quiet operation.
- Independently tested to BS EN1886:2007.
- Fully ErP compliant.
- Available in multi-sections or flat-pack for easy installation.
- UK designed and manufactured.

**Partner with Weatherite for reliable, energy-efficient AHU solutions tailored to your needs. Contact us today to discuss your project!**





## Heat Recovery Solutions

**All our heat recovery systems are individually designed and built to deliver exactly the right solution to ensure optimum, prolonged performance.**

Our equipment features the latest heat recovery technology to optimise energy efficiency and reduce CO2 emissions. At the core of each system is the heat exchanger, with solutions tailored to meet specific efficiency requirements. We offer a range of options including plate heat exchangers, rotary wheels, heat pipes, and run-around systems, all designed to enhance performance.

Equipped with advanced components like EC Fans, inverter-driven motors, and the latest control technologies, our systems ensure maximum energy savings. Remote interrogation control systems further allow real-time monitoring, enabling ongoing optimisation and efficient performance across the board.



### Commercial Heat Recovery Systems

Weatherite designs and manufactures high-efficiency commercial heat recovery systems that deliver fresh air and enhanced climate control while reducing energy consumption. These systems capture and reuse energy that would otherwise be lost, lowering heating and cooling demands, improving comfort, and cutting operational costs. By optimising energy use, our heat recovery solutions help create a more sustainable and cost-effective environment for your building.

### Custom Design and Build

Each of our heat recovery units is custom-designed and built to order, allowing us to offer tailored configurations, including left or right-hand setups, horizontal or vertical duct outlets, and integrated intelligent controls. We also incorporate high-efficiency filters to ensure optimal performance. This bespoke approach guarantees that we deliver the most effective solution, perfectly suited to the specific requirements of each application.

**Speak to our team today, and we'll help you design the perfect heat recovery solution tailored to your needs.**



## Packaged Air Cooled Chillers

Our chillers deliver ultra-quiet performance while integrating cutting-edge technology, including:

- High-efficiency plate heat exchangers.
- Coated condenser fins for enhanced protection.
- Optimised condensers.
- High-efficiency scroll compressors for HFC refrigerants and semi-hermetic for HC refrigerants.
- Precise digital control systems.

Additionally, our Air-Cooled Chiller range offers flexible hydronic pack solutions.

### High Efficiency Air Cooled Chillers

Weatherite Air Conditioning's Packaged Air-Cooled Chillers offer the very latest in quality, performance, innovation, energy efficiency and sustainability.

### Quality Design and Manufacturing

Weatherite Air Conditioning's chillers are built for easy serviceability, ensuring quick and efficient maintenance. Manufactured and fully tested in our purpose-built factory, we deliver tailored solutions for specific needs, including chiller replacements or space constraints.



# Packaged Plantrooms

## Pre-fabricated, off-site, construction

Demand for off-site manufacture of packaged plantrooms / energy centres within the construction industry has steadily increased over recent years.

More and more new build and refurbishment projects are also being designed with pre-fabricated, off-site plants, providing the optimum solution and it is more cost effective.

Work on configuring and building the plantroom can also commence in tandem with the main construction work and will be unaffected by on-site influences such as weather, health and safety issues and unforeseen disruption. A construction site is far from ideal to construct and install a plantroom and the benefits of undertaking the work within a clean and dedicated factory environment speaks for themselves.

## Bespoke Plantrooms - Multiple Services

At Weatherite, we design, build, test and pre-commission made to measure packaged plantrooms to suit each clients specific requirement and, with over 40 years expertise, we will deliver a highly efficient, energy saving, quality solution, incorporating the very latest components, innovation and energy saving capabilities.

Our range of Packaged Plantroom solutions can incorporate a range of services to suit the client including:

- Heating plant
- Hot water generation
- Cooling and refrigeration
- Switchgear distribution
- Chiller plant
- Pump rooms
- Generator plant
- Water filtration
- Air handling plant
- Steam plant for heating or process systems
- Self contained Biomass energy centres
- Combined heat & power (CHP) or combined cooling, heat & power (CCHP)





## Hydrocarbon Packaged Solutions

### Leading the Way in Energy-Efficient Cooling Solutions

With over 40 years of expertise, Weatherite Air Conditioning has established itself as a leader in designing and manufacturing innovative, high-quality, and energy-efficient cooling solutions.

We are committed to delivering sustainable products that meet the demands of both commercial and industrial sectors, while also embracing the latest advancements in environmental technology.



### Hydrocarbon Packaged Cooling Solutions

As part of our ongoing commitment to sustainability, Weatherite has developed a range of Hydrocarbon Packaged Cooling Solutions. These units utilize natural refrigerants, offering significant environmental benefits while maintaining high performance and energy efficiency.

We have successfully designed, manufactured, and installed rooftop 'free-cool' packaged air conditioning systems and chillers for both air conditioning and process applications across the UK. These solutions reduce carbon emissions and align with the global shift towards more sustainable and environmentally-friendly technologies.

### Energy-Efficient and Environmentally Friendly Design

Our Hydrocarbon systems reflect the growing global demand for energy-efficient solutions. By using natural refrigerants, we help businesses minimise their carbon footprint and reduce reliance on ozone-depleting and global warming substances.

Our engineered solutions provide exceptional energy savings, making them ideal for clients who are committed to sustainability.

**Weatherite**

## Replacement Air Conditioning Solutions

As air handling and air conditioning systems age, many units installed 15-20 years ago are now nearing the end of their effective lifespan. This creates a range of challenges for facility managers, including frequent breakdowns and performance issues. The rising energy costs associated with outdated equipment further exacerbate the situation, leading to a costly and inefficient system that is difficult to maintain.

For many businesses, replacing an entire air conditioning system can seem like the only option, but the associated infrastructure costs and downtime can be overwhelming. While a new system may be a significant investment, Weatherite's 'Direct Replacement Units' offer a more affordable alternative that minimises disruption and maximises efficiency. Our solution enables you to retain much of your existing system, avoiding costly infrastructure changes.

Our 'Direct Replacement Units' are designed to seamlessly fit into the footprint of your existing equipment, making the replacement process quick and hassle-free. We carry out a thorough survey of your current system to identify components that need replacement, allowing you to keep existing ductwork and services in place. This approach can save thousands of pounds on new installations, labor, and ancillary equipment.

### Energy Efficiency and Advanced Technology

Our replacement units incorporate cutting-edge technology to ensure maximum efficiency, including:

- High-efficiency EC Fans
- Variable speed drives
- High-efficiency scroll compressors with HFC refrigerants
- High-efficiency IE2 motors
- High-efficiency gas burners
- BMS controls for seamless integration with existing systems
- Double-skinned construction for enhanced weatherproofing

With Weatherite's pre-commissioned systems, installation times are kept to a minimum, reducing downtime and ensuring a smoother transition to a more energy-efficient solution.





# Refurbishment Solutions

## Upgrade Your HVAC System with Weatherite

If your HVAC plant is showing signs of wear, Weatherite's refurbishment solutions offer a cost-effective, energy-efficient way to breathe new life into your system.

Our expert team can assess your equipment and determine the best solution to improve performance without the high costs of full replacement.

Our experienced refurbishment teams can often upgrade your equipment on-site, depending on its condition, ensuring minimal disruption and maximum efficiency. We can refurbish Weatherite systems as well as those from other manufacturers, providing a comprehensive service that fits your needs.

After a thorough site survey, we'll outline the most effective solution, then work with you to implement the plan.

### Benefits of Refurbishment:

- Cost - In most cases the cost of refurbishing equipment will undoubtedly be less than replacing it and solutions can be geared around the clients budget.
- Timing - Refurbishment is usually a quicker option, minimising downtime and possible disruption.
- Improved operational efficiencies.
- Less upheaval - as existing services are often unaltered.
- Opportunity to upgrade refrigerant in line with F Gas regulations.

**Before making any decisions call the Weatherite refurbishment team on 0121 665 2266 and we will discuss your requirements.**



# R290 Package Heat Pump Unit

**Next-Generation Efficiency Meets Sustainable Innovation**

## Weatherite is proud to unveil our 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)**  
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 using copywritten Weatherite algorithm for optimum performance in all seasons and including defrost cycles 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 heating during colder months.

### 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



# A Heat Pump Built for Real-World Demands

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

## Typical Applications:

### **Supermarkets & Retail Stores**

Our systems create stable, comfortable environments that enhance customer experience and staff wellbeing. With reliable temperature control, low noise, and high energy efficiency, they're ideal for busy retail spaces where performance and sustainability matter.

### **Warehouses & Distribution Centres**

Precise temperature and airflow control are vital in large spaces to protect products and ensure worker comfort. Weatherite units meet these demands efficiently.

### **Commercial & Light Industrial Buildings**

Whether for offices or light manufacturing, our solutions deliver dependable, low-carbon heating and cooling. Flexible designs and smart controls help meet sustainability goals while maintaining efficient operation across varied applications.

## Why choose Weatherite?

With more than 50 years of proven expertise, Weatherite is a leading name in innovative, energy-efficient HVAC solutions. We specialise in designing and delivering bespoke systems tailored to the specific needs of our clients across retail, commercial, and industrial sectors.

All our projects benefit from full in-house capability, covering everything from initial concept and design to manufacturing, installation, and aftercare. This end-to-end approach gives us complete quality control and ensures the highest levels of performance, safety, and compliance.

Our long-standing commitment to sustainability, technical excellence, and customer satisfaction has made us a trusted partner for some of the UK's best-known brands. Whether you're upgrading existing systems or delivering new-build projects, Weatherite delivers HVAC solutions that perform today and stand the test of time.

**Before making any decisions, call the Weatherite refurbishment team on 0121 665 2266 and we will discuss your requirements.**





Weatherite Group of Companies



## The Weatherite Group:

**Weatherite Air Conditioning**  
**Weatherite Service & Maintenance**  
**Weatherite Aluminium Solutions**  
**Weatherite Electrical**

Our philosophy is simple - to continue to invest in the development of the products and services we offer our customers and to deliver excellence throughout the whole Weatherite Group.

Our people are our greatest asset. They provide the skills, knowledge, expertise and enthusiasm to drive the Weatherite Group forward, within an ever-changing world. We will continue to invest in their future personal development and their working environment.

We have established ourselves as one of the UK's leading manufacturer of quality air conditioning and air handling equipment for all sectors of the industry. By combining innovative product design with state-of-the-art manufacturing facilities, a total commitment to quality and customer service that's second to none, we aim to stay one of the UK's leaders in this field.

Our success and continued growth is a direct result of our ability to respond to the needs of our customers and to the ever changing marketplace in which we compete.

For more information please contact our experts:

Weatherite Group H.Q. Weatherite House,  
Credenda Road, West Bromwich,  
West Midlands, B70 7JE, UK  
Tel: +44 (0)121 665 2266  
Email: [sales@weatheritegroup.com](mailto:sales@weatheritegroup.com)



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