



SUNBELT[®]
RENTALS

CLIMATE CONTROL

Cooling and Air Quality
Management Solutions
for Healthcare Facilities



WE HAVE THE EXPERTISE TO MEET YOUR TEMPERATURE CONTROL AND AIR QUALITY MANAGEMENT REQUIREMENTS

Our highly trained team works with you to design efficient, eco-friendly and cost-effective solutions suited to your environment.

TURNKEY

Our cooling specialists deliver, install, test and demonstrate how to use your equipment – so you have nothing to worry about.

EXPERTISE

We have over 40 years of experience in temporary cooling solutions.

SAFETY

At Sunbelt Rentals, we incorporate the highest safety standards in our products, solutions and services.

QUALITY

Our experts go over and above to give you quality products and quality customer service.

PERSONALISED

We work with you to assess your cooling requirements, design a customised solution and deliver on time, every time.

EMERGENCY SERVICE

We're here when you need emergency cooling. As well as offering same day or next day delivery for all your temporary cooling requirements, we offer a 4hr delivery window for critical sites 24/7, 365 days a year.

EFFECTIVE CLIMATE STRATEGIES TO REDUCE THE RISK OF AIRBORNE TRANSMISSION

When a person has an infection, they release viral aerosols which can linger in the air for several hours. Having the correct engineered controls in place, such as ventilation, can reduce the risk of airborne transmission and exposure time.

Although the NHS has a working standard to supply clean air within its facilities (set out in Code of Practice HTM 03), the COVID-19 pandemic requires more reinforced measures to protect the health of both staff and patients. These include, where possible, using a building's existing system to increase the fresh air supply and dilute contaminated air. However, this can cause issues in the summer months when limited cooling capacity compromises the ability to maintain a comfortable environment.

Sunbelt Rentals Climate Control can help you to create a safe and cool environment for your staff and patients.



Our experts follow the latest guidelines outlined by recognised industry bodies, such as the World Health Organisation and CIBSE, to plan and provide effective cooling and air management solutions during COVID-19. With the UK's largest fleet of temporary cooling equipment, portable ventilation and medical-grade air sanitisation units, we work closely with healthcare facilities to provide:

- Free survey and contingency planning for a quick response when you need it.
- Assistance with COVID-19 risk assessments to ensure the air dilution/ACH are achieved.
- Advice on the best use of cooling and air management solutions to clean the air, control the spread of viruses, limit exposure time, and intercept contagions closer to the source.
- Innovative and easy to install equipment from leading manufacturers.



What the experts say

CIBSE Journal 'Recirculation of air within a single area where this is complemented by an outside air supply is acceptable as this helps to provide more outside air to occupants and can help to maintain thermal comfort.'



COOLING SOLUTIONS

As Climate Control experts, we can help you to achieve comfortable working conditions with cost-effective, efficient and market-leading equipment. Our specialists follow guidelines from WHO and REHVA to ensure we provide cooling solutions that limit the risk of infection transmission.

Portable Air Conditioning Units Can Be Used Safely

Compared to a building's existing system, portable air con units have more control over the safest placement within a room and can direct airflow away from patients.

Minimal Airflow Disruption

Running air conditioning units at lower speed settings reduces turbulence to the airflow. Our units are highly efficient and cool a room effectively, even at the lowest settings.

Negative Air Pressure

Inducing negative air pressure in communal areas reduces the potential for airborne viruses to escape the room. Our exhausted air conditioning units can be used in conjunction with standalone negative air pressure units, allowing both temperature and airflow control.

Complete Air Control

In conjunction with air conditioning units, IAQ monitoring equipment helps to further the control within the environment, with real-time measurements of the quality of outdoor air supply (CO2) and the rooms RH% - ensuring temperature, humidity and ventilation all meet the required 'safe points'.

Regular Cleaning Schedules

All of our equipment is fully disinfected, cleaned and serviced before delivery. We can advise on the best maintenance and cleaning schedule for all units.

COOLING EQUIPMENT

At Sunbelt Rentals, our climate experts tailor cooling solutions to suit your environment. Each portable air conditioning unit can be positioned safely within the room and airflow can be directed away from patients and staff.



FRAL SC14 AC

Induces negative air pressure, used in rooms shared by inpatients, waiting rooms and single occupied areas.

- 4.1kW/14,000 Btu/hr
- Suitable cooling area: 40m²
- Hose diameter: 150mm
- Hose length: 3m



Fral Avalanche Split AC

Available in a 6.7kW and 15kW model. Used in areas shared by inpatients and individually occupied.

- 6.7kW -15kW/23,000 Btu/hr - 51,000 Btu/hr
- Suitable cooling area: 55m²/85m²
- Line diameter: 50mm/70mm
- Line length: Up to 30m/20m



Fral Blizzard Spot Cooler

Induces negative air pressure, used in corridors, waiting rooms and communal areas.

- 7.3kW/25,000 Btu/hr
- Suitable cooling area: 60m²
- Hose diameter: 305mm
- Hose length: 2m (Optional 6m)



Chillers, Heat Pumps and AHUs

Suitable for temporary structures or permanent installation when combined with air handling units.

- 14KW – 2MW in cooling capacity
- Air Handling Units – 20-200KW (Internal/External)
- Subject to site survey to provide the best solution.

AIR QUALITY MANAGEMENT SOLUTIONS

Each time an infected person breathes, speaks, coughs or sneezes, viral aerosols are released into the room. In poorly ventilated spaces, the risk of spreading viruses like COVID-19 is increased for people breathing the same air.

Ensuring there's an adequate supply of fresh air in enclosed spaces is not only required by law, but it also greatly reduces the risk of virus transmission and makes environments more COVID-secure. It does this by diluting the concentration of potentially infectious aerosols, limits exposure time and prevents the air from becoming stagnant.

This is crucial in Healthcare facilities, where the WHO recommends the below Air Changes per Hour (ACH) are achieved:

- 160 L/s/patient or 12 ACH where Aerosol-Generating Procedures are performed
- 60 L/s/patient or 6 ACH for other areas

How we can help

Our specialists work with you to design a unique solution that suits the size, occupancy and existing structure of your environment.

We provide temporary ventilation and air cleaning systems for all areas of your facility, including portable fans, air scrubbers and negative air pressure units.

All of our units are fitted with HEPA grade filters systems, with DOP calibration.

These can be fitted in-line, as a wall box or within the unit to meet the standards of filtration required. This ensures that the air supplied to the rooms is clean and also that any exhausted air from contaminated areas is delivered clean to a safe, dedicated area externally.



AIR QUALITY MANAGEMENT EQUIPMENT

Air quality management equipment, such as ventilation systems, carry out a number of roles in hospitals, including maintaining air quality, diluting contaminated air and protecting vulnerable patients from infection.



Axial Air Mover

This ventilation unit has an industrial grade, high volume fan and is used with ducting and filtration for the supply of outside air.

Airflow: Up to 7500m³/hr
Noise level: 67dB(A) @ 1m
Duct size: 400mm
Duct length: Up to 30m
Power: 110V 1Ph 50Hz, Run 8.8A 16 A 3Pin



DE500 Air Scrubber

An advanced efficiency air filtration unit, with H14 Filtration and variable air speed control. These units are ideal for creating negative air pressure in rooms.

Airflow: 562m³/hr to 713m³/hr
Noise level: 54dB (A) @ 1m
Duct size: 350mm Inlet/210mm Outlet
Duct length: Up to 10m
Power: 230V 1Ph 50Hz, Run 1.5A 13 A 3Pin



AC2000

Versatile and delivers clean air to an exhausted location. It features variable speed transmission, a 0.7m² pre-filter and a HEPA H13 micro filter of 10m².

Airflow: 1060m³/hr to 1850m³/hr
Noise level: 62 - 74 dB(A) @ 1m
Duct size: 350mm Inlet/Outlet
Power: 230V 1Ph 50Hz, 505W 13 A 3Pin



Centrifugal Fans

These fans can be linked in series to achieve larger distances and used in conjunction with air handling units.

Airflow: 5120m³/hr
Noise level: 86.6dB(A) @ 1m
Duct size: 305mm Inlet/Outlet
Duct length: Up to 40m
Power: 110V 1Ph 50Hz, Run 17A 32 A 3Pin

How clean is your air?

We supply Air Monitoring Systems, which give you a real-time indication of the quality of air in the room. These offer level reporting for each area in place and show the outdoor air supply in the rooms. They can also be used effectively in combination with localised AC Units.

Powerful air disinfecting 24/7 in occupied spaces like emergency rooms, intensive care units, operating rooms, patient rooms, compounding pharmacies, laboratories, food-service, waiting areas and much more.



DISINFECT THE AIR AND KILL 99.9995% OF VIRUSES IN MINUTES

15

The S400 Air Disinfectant Device is a compact, cost-effective and efficient solution for the sterilisation of air within enclosed spaces. Its compact size, yet high air sterilising capacity and quiet operation makes it perfectly suited to medical environments, including operating theatres and areas where Aerosol-Generating Procedures are performed.

Lab Tested Germicidal UV-C Technology

Tested in well-known laboratories, the S400's UV-C 'kill chamber' incorporates both the correct light (254nm) and exposure time to destroy viral and bacteria DNA structure, killing up to 99.9995% of airborne pathogens.

No Airflow Disruption

The 360-degree airflow system produces uniform, low-pressure air movement. This creates continuous, largescale air-scrubbing throughout the room, without interfering with the room's airflow.

Rapid and Safe Whole Room Clean

Whole-room air exchange within minutes, without harmful ozone production UV -C exposure.

Safe and Fast Acting

At rates of 400 cubic feet per minute, the S400 cleans air faster than any other air disinfection system in its class. These units offer Germicidal UV-C technology, H14 filtration and equalised air flow, making them a key standalone unit in the importance of removing airborne contagions.

A trial by an independent body found evidence that proves SARS-CoV-2, when suspended in air, is reasonably easy to inactivate using UV-C light at 254nm. Conducted at Basingstoke and North Hampshire NHS Trust, researchers found this technology improved air cleanliness significantly, with a **33% reduction in infections** compared to positively pressurised HTM 03 compliant systems, and **67% compared to naturally vented wards**.

WE ARE MORE THAN EQUIPMENT PROVIDERS

We offer a four-stage hire solution that benefits our customers all over the UK.

STEP 1 CONTINGENCY PLANNING

We operate 24/7 from depots nationwide and are supported by a sales team that carry out free site surveys. We'll visit your site and assess your requirements – this helps us to deliver a solution uniquely tailored to your space.

STEP 2 DELIVERY

With strategically placed Service Centres located across the UK, including the Republic of Ireland and Northern Ireland, you will benefit from a national service at a local level, ensuring the equipment arrives in perfect condition, on time, every time.

STEP 3 INSTALLATION

Equipment installation carried out by experienced engineers benefits you in more ways than one. Not only does it take away the hassle of manoeuvring the equipment into the required area, it ensures that equipment is positioned in the most effective location to deliver optimal performance.

Secondly, a professional installation ensures complete health and safety during installation and equipment operation.

STEP 4 DEMONSTRATION

Face-to-face demonstration provides an opportunity for you to better understand the functions of the equipment and have your queries addressed in real time. This reduces any system downtime to ensure your hire product is cost-efficient.

Demonstration also provides you with complete peace of mind, and eliminates the need to guess on how to operate unfamiliar equipment.



HELPFUL CONVERSIONS

COOLING (MEASUREMENT IN FEET)

Width x height x length = volume of area x 5 = Btu/hr

This allows for up to 4 people and 1 piece of electrical equipment. For additional people or electrical units, add 400 Btu/hr.

HEATING (MEASUREMENT IN FEET)

Width x height x length = volume of area volume of room x difference between required and external temperature x 0.133 = Btu/hr

Establish the required interior temperature (f) and the current external temperature (f).

COMMON CONVERSIONS

Btu/hr to kW Btu/hr 3.412	kW to Btu/hr kW x 3.412	Cubic Ft to Litres Ft3 x 28.317	Litres to Cubic Ft L / 28.317
Celsius to Fahrenheit c x 1.8 + 3.2	Fahrenheit to Celsius f - 32 / 1.8	Pints to Litres P x 0.568	Litres to Pints L / 0.568
Feet to Metres F x 0.3048	Metres to Feet M / 0.3048	US Pints to Litres P x 0.568	Litres to US Pints L / 0.473
Sq Ft to Sq M Ft2 x 0.0929	Sq M to Sq Ft M2 / 0.0929	Gallons to Litres G x 4.546	Litres to Gallons L / 4.546
Cubic M to Cubic Ft M3 x 35.3	Cubic Ft to Cubic M Ft3 / 35.3	Grains to Grams G x 0.0648	Grams to Grains Gr / 0.0648

NATIONAL COVERAGE AT A LOCAL LEVEL

Find your nearest depot.

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Unit 8 Portway Industrial Estate,
Alston Road, Oldbury, B69 2PP

CHESSINGTON

Unit 6 Chessington Industrial Estate,
Lion Park Avenue, Chessington, KT9 1ST

EDINBURGH

Block 3 Unit 4, Factory Road, Whiteside Ind. Est.,
Bathgate, EH48 2RX

MANCHESTER

Unit B Alpha 3, Fourth Avenue,
Trafford Park, Manchester, M17 1DB

NEWPORT

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Clearwater Road, Newport, NP19 4ST

SOUTHAMPTON

Unit 18 Apex Centre, Speedfields Park,
Fareham, PO14 1TP

THURROCK

Unit A Neptune Business Estate,
Dolphin Way, Purfleet, RM19 1NZ

BELFAST

16 Michelin Road, Newtonabbey,
Belfast, BT36 4PT

DUBLIN

5 Besser Drive, Clondalkin Industrial Estate,
Dublin, D22 K6Y4

0800 630 0472
www.sunbeltrentals.co.uk