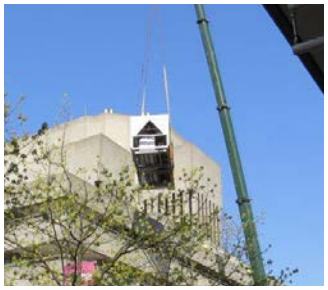
ics cool energy

HIRE PROCESS COOLING AND HVAC EQUIPMENT

COOLING CAPACITIES 0.3KW - 1.25MW SINGLE UNITS AND MULTI-MEGAWATT PACKAGES

WE ARE ICS COOL ENERGY



ics cool energy

WE ARE HERE TO SUPPORT YOU

YOUR SPECIALIST TEMPERATURE RENTAL RESOURCE

ICS Cool Energy, part of Ingersoll Rand Inc is a £60M international market leader in temperature control solutions. We provide long and short-term hire solutions as well as equipment sales and servicing. Our full turnkey solutions, coupled with our technical expertise, provides our customers and partners with complete flexibility, reliability and one point of contact for all their temperature control needs.

INDUSTRY LEADING PRODUCTS

We offer the latest, high quality, accredited cooling equipment including:

- Chillers up to 1.25MW
- Dry air coolers up to 500kW
- Cooling Towers up to 2MW
- Air handlers & fan coil units up to 350kW
- Low temperature fan coils down to -21°C
- Heat exchangers up to 1MW
- Cold stores up to 40ft
- Portable air conditioning units

Our Hire Engineers can visit you quickly to help find a solution to manage most breakdown, remedial and additional duty requirements.

WE ARE HERE TO SUPPORT YOU

Whatever your requirement:

- **BREAKDOWN & REMEDIAL WORK**
- **MAINTENANCE & PRE-PLANNED WORK**
- **SEASONAL REQUIREMENT**
- **LONG-TERM HIRE**
- **CONTINGENCY PLANNING**

RELIABLE SOLUTIONS

We completely understand that our kit needs to work first time and fully operate in tandem with our customers' system, process and premises. Our test procedures ensure that all equipment is regularly serviced and maintained.

Our equipment has an average age of 1.4 years and we can provide brand new, for long-term hire.

Our commitment to customers goes far beyond the successful delivery of a contract. Our focus is keeping customers' businesses running 100% efficiently wherever and whenever they rely on temperature control.

AN INTERNATIONAL NETWORK

With offices in the UK & Ireland, Germany, Switzerland, Austria, Poland, Italy, Belgium, France and the Netherlands we have built a reliable European network with links further afield in Asia, Australasia and America.

Having completed temperature rental packages of all scales from small units to multi-megawatt packages in both industrial manufacturing and HVAC building services, we are flexible in our approach to ensure each client requirement is met, whether on a planned or emergency basis.

We have also worked to support businesses with contingency planning for critical applications and N + 1 provision.

ISOQAR REGISTERED UKAS MANAGEMENT SYSTEMS 0026
Certificate Number 0042
ISO 9001, ISO 14001, ISO 13001

REFCOM

AFFILIATED MANUFACTURER EUROVENT EUROPEAN INDUSTRY ASSOCIATION

PROVIDING YOU WITH FIRST CLASS RENTAL SERVICE

SIMPLE CONTROLS

All of our chillers have been designed to offer a fast and straightforward start up. Making them easy to use and simple to operate.

QUICK CONNECTORS

In emergency breakdowns and outages, you need equipment capable of being connected and powered quickly and safely.

24/7

We provide full maintenance and breakdown cover throughout the duration of your rental contract.
Allowing you to budget safely with ICS Cool Energy.

SMALL FOOTPRINT

When space and weight is an issue, our fleet has the smallest m^2/kW footprint in Europe.

LOW ENVIRONMENTAL IMPACT

All our cooling equipment operates without CFC's and HCFC's only using HFC's. We are also ISO14001 certified.

ENERGY EFFICIENT

We source the latest products from accredited suppliers with measured performance and operational guarantees.

LOW NOISE

When you are restricted in a noise sensitive area, we can provide attenuated chillers offering 54dB(A)@10m. Plus lower levels with additional silencers.

QUALITY RENTAL EQUIPMENT

Did you know?

1,250 chillers

We stock a wide range of air and water-cooled chillers in the fleet for internal or external siting.

60 point check

Every unit in our rental fleet is subjected to a specific number of key tests before being green carded and made ready for hire.

0.3 kW

Need a small R & D chiller? No problem, our smallest chiller can manage just 300w of heat/hour.

50/60 Hz

Do you have a project needing 60Hz frequency. No problem, we can offer you various options.

+1 100% contingency

Some designed projects need absolute contingency (N + 1). We can provide equipment on site, on standby, or reserved in our depot.

260 weeks

Need to hire for up to 5 years? No problem. We can provide specific equipment to meet long term needs. Available where restricted leases or projects don't make capital investment viable - rent instead.

WE CAN OFFER YOU RENTAL PROFESSIONALS WITH REAL EXPERIENCE

SOLUTION

Our technical sales engineers are on hand to visit you or your client's site to provide the best technical recommendation and economic solution to your enquiry

FAST RESPONSE

Breakdown on-site (day or night)? Our services and call handling strategy is designed to meet most emergency situations (94% are visited within 15 hours of initial call)

PPE & SAFETY

All of our engineers have company supplied protective clothing and equipment. However, let us know if you require specific protection to meet your sites own H & S requirements

Member
BRITISH SAFETY COUNCIL

LOCAL KNOWLEDGE AND SERVICE

The majority of our sales engineers have a minimum 10 years experience

TECHNICAL EXPERTISE

All Engineers attend our 10 day internal technical training every year

FAST RECOMMENDATION

We can provide you with an official quotation the same day or on-site, if requested

CORRECT PAPERWORK

If your business requires a Risk Assessment and Method Statement, we can provide this following a detailed site survey

AIR COOLED CHILLERS TO **1,250kW** SINGLE UNITS

We can offer you a wide range of cooling units on a same day or pre-planned basis. Developed with the latest energy efficient technology, we have provided in excess of 25,000 rental projects, our equipment is proven and ready for immediate hire.

APPLICATION DRIVEN

Not every project or site is the same, that is why we recommend and tailor our equipment to match your specific site requirements.

Trust us to make the correct selection, most resilient installation and effective economic performance for you.

TECHNICAL INFORMATION

AFFILIATED MANUFACTURER EUROVENT EUROPEAN INDUSTRY ASSOCIATION

Cooling capacity[1]	30kW	40/45kW	75kW	130kW	230kW	300/375kW	500kW	750kW	1000kW
Power Connection (Plug or Lug)	32	32/63	63	125	M10	M12	M12	M12	M12
Max in Rush (Amp)	30	42/47	125	170	347	315/423	428	579	858
Max current (Amp)	24	32/37	53	98	170	135/254	370	500	678
Refrigerant	R410A/ R407C	R410A/ R407C	R410A/ R407C	R410A/ R407C	R410A	R134a	R134a	R134a	R134a
No: Circuits/ Compressors + all power in 3ph 400v/50h[2] 3 core + E, No Neutral.	1/1	1/2	2/4	2/4	2/4	2/2	2/2	2/2	2/2
Diameter inlet/outlet (mm)	2" Bauer	2" Bauer	2" Bauer	2" Bauer	4" Bauer DN100	4" Bauer DN100	6" Bauer DN150	6" PN16 DN250	6" PN16 DN150
Maximum fluid outlet temperature in 30°C ambient	15°C	15°C	15°C	15°C	15°C	15°C	15°C	15°C	15°C
Minimum fluid outlet temperature at low ambient	-10°C	-10°C	-10°C	-10°C	-10°C	-8/-10°C	-8/-10°C	-8/-10°C	-8/-10°C
Dimensions L x W x H (mm)	1858 x 7600 x 1500	1858 x 7600 x 1500	2300 x 1000 x 2500	3600 x 1275 x 2200	3418 x 2188 x 1989	3100 x 2360 x 2460	4900 x 2260 x 2460	6400 x 2310 x 2400	7,000 x 2360 x 2,358
Weight (Kg)[3]	500	500	900	1300	2,300	3700/3700	6060	7,500	10,000
Sound level (dBA) @ 10m	55	55	55	64	64.6	55/54	57	61	63

1. Cooling capacity based on 12/7°C water temperature, 30°C air ambient.
2. Pump operating at full speed.
3. Without water.
Maximum system operating pressure:6/10 Bar
Ambient operating range between -18°C and 43°C. At low water temperature -15°C, maximum ambient 35°C (for units up to 200 kW).
Details are given for guidance only. Exact equipment supplied may vary according to geographical location and availability.

WATER COOLED CHILLERS TO **1,290kW** SINGLE UNITS

Our range of water cooled rental chillers offer the highest levels of energy efficiency and are well suited to being positioned inside plant rooms and enclosed areas, where air cooled units cannot operate.

Our fully packaged range starts at just **42kW** and progresses through to **1,290kW** single containerised units. The range has been designed and developed to offer the smallest – most mobile footprint piece of kit, with the added benefit of low power consumption.

In addition to being Eurovent Certified, each unit offers a low noise operating range.

When you hire our chillers, we can also offer a range of suitably-rated circulation **pumps**, high pressure rated (10 bar) flexible water **hoses** and PN16 connection **flanges** to help connect on to an existing ring main, or help build an additional water circuit.

The range can also be supplied with ferrous or non-ferrous circuits and rental cooling towers (ICS Cool Energy are LCA Approved), or dry air coolers to help reject the condenser heat from the cooling circuit.

To help meet a site's requirements, ICS Cool Energy is able to supply units in flat pack, enabling them to be re-assembled in basement plant rooms or underground car parks to suit a sites logistics and access.

Our water cooled chillers meet the requirements of many industrial applications being most suited to:

- **HVAC and building services requirements whether to provide cooling during system breakdowns/refurbishments or longer term rental projects.**

- **Water cooled chiller replacement or maintenance in an underground plant room. We can place our chiller in an underground car park or unloading area.**

We keep a large range of rental units in stock at all times to ensure urgent requirements can be met. Furthermore, 24/7 maintenance is included throughout each rental contract.

TECHNICAL INFORMATION

Model	Comp	Lowest Temp °C	Amps Run	Amps Start	Length metres	Width metres	Height metres	Weight Kg	Noise (@10m)	Water Conn.	Cond Conns.
Water Cooled Chiller Range											
42	Scroll	-10°C	29	67	2,000	850	1,500	885	49.8	50mm	50mm
50	Scroll	-10°C	34	70	2,000	850	1,500	885	50.5	50mm	50mm
145	Scroll	-10°C	72	150	3,300	1,255	2,050	1,700	56.6	62mm	62mm
650	Screw	-12°C	310	512	3,345	1,020	2,110	3,586	70	150mm	125mm
1,250	Screw	-12°C	625	800	4,760	1,200	2,250	7,150	73	200mm	125mm
In container					6,200	2,400	3,000	11,500			

LOW TEMPERATURE CHILLERS TO -40°C WATER EXIT TEMPERATURE

AIR COOLED PACKAGED CHILLERS

We specialise in offering fully packaged hire chiller units capable of operating at sub zero temperature ranges to a wide range of applications, from chemical processes to temporary ice rinks.

All of our Low Temperature Chillers have been designed to include contingency and temperature safeguards, including the following benefits:

- Integral buffer tanks to help reduce spillages and leaks.
- Integral circulation pumps to help reduce the number of power connections and spillages.
- Multi-compressor operation to provide cooling redundancy.
- One isolator for all operational needs.
- Flanged pipework to safeguard all water/glycol connections on site.

Our range of packaged chillers is capable of offering water leaving temperatures as low as **-40°C**.

Units in this range are self-contained, housed within their own skid, PN16 (16 bar) flanged water/glycol connections and quick-connect Cforme power plugs (BS4343).

ULTRA LOW TEMPERATURE CHILLERS (WATER COOLED)

We are capable of meeting ultra-low temperatures offering a water leaving temperature range of -10°C through to -40°C from one single unit.

The units feature the highest grade of **'Class A'** energy efficient components including twin Frascold semi-hermetic screw compressors, which provide the highest levels of reliability.

Our bespoke **-40°C** rental units are housed within a standard 10ft ISO container, ensuring ease of transportation and security protection on site.

A separate and optional hydraulic module in a containerised unit can also be supplied, carrying suitably-rated run & standby circulation pumps and a buffer tank with fill and vent system.

TECHNICAL INFORMATION

	Comp	Lowest Temp °C	Amps Run	Amps Start	Length metres	Width metres	Height metres	Weight Kg	Noise (@10m)	Water Conn.
Low Temperature Chillers										
20kW	Scroll	-15°C	55	125	2,500	1,000	2,300	1,000	52	50mm
45kW	Scroll	-20°C	98	170	3,300	1,275	2,200	2,000	64	100mm
230kW	Scroll	-20°C	486	844	4,440	1,960	2,200	5,420	67	200mm
25kW	Recip	-30°C	92	165	3,300	1,275	2,200	2,000	64	100mm
Ultra Low Temperature (water cooled)										
60kW	Recip	-40°C	103	175	3,030	2,440	2,595	3,700	63	100mm

LOW COST COOLING

With a wide range of large and small duty cooling towers, capable of providing a stable source of cooling in process and HVAC applications. Our fleet of evaporative coolers are portable and manufactured on a lifting skid for ease of movement and protection on site offering a minimum 500kW to 2,000kW per unit. Multiple units can be run together for larger multi-megawatt demands.

The rental units are designed to meet variable temperature ranges from 60°C down to 6°C, where they are connected to condenser water for water cooled chillers, run in parallel to supplement existing cooling plant or help provide temporary cover during existing cooling tower refurbishments. Connecting hoses, pumps and electrical power cables can also be provided as a package if required.

HEALTH & SAFETY

ICS Cool Energy is a member of the LCA (Legionella Control Association), and our installation engineers have attended and passed the conditions of compliance to safely manage and install cooling towers. We are an accredited member and are able to provide the best possible service for our customers and their clients.

FULL PROJECT MANAGEMENT

Our rental fleet of dry air coolers offer an advanced level of energy saving and the highest efficiency ratings available by being rated **Class A** and independently evaluated by Eurovent.

Dry air coolers provide a low cost, environmentally friendly method of free cooling and only need the power input of the fans to provide cooling. As opposed to cooling towers, these units benefit from having have no evaporation/water loss and can operate in a closed-loop circuit. Therefore, there will be either no, or very little water treatment/dosing required.

Utilising air blast coolers to achieve Free Cooling is most effective for process applications requiring a higher set point of 15°C+ or for low cost seasonal cooling in the winter months when the cooler ambient air can be used.

We stock a wide selection of rental air blast coolers with dual water circuits to help provide 50% contingency and variable fan speed (by utilising the latest EC fan technology), helping to control the outlet temperature of the water leaving the unit itself.

We can offer a wide range of connecting water hoses, pumps and water tanks with our units if needed.

AIR HANDLING UNITS

Our range of rental air handling units range from **10kW** up to **350kW** single units and are individually packaged providing airflow from **2,000m3/hr** to **40,000m³/hr** and can be utilised for both cooling and heating applications.

Small, compact, low-noise single-phase 10kW and 15kW units, are ideally suited to cool offices and workspaces during the heat of the summer and can be switched to heat mode for winter heating requirements. These units also work effectively in marquees for discrete space cooling and are effective in conference halls having been used for university graduation ceremonies.

At the larger end of the scale, we can supply powerful 50kW rental units which are well suited to data centre refurbishments, helping to eliminate downtime, providing supplementary cooling as a sites demand increases.

Our 150kW and 350kW units are ideally suited to meet system replacements at sites such as hotels or offices during site refurbishments.

Our **150kW** and **350kW** range of rental air handlers are flexible single fan centrifugal units capable of offering **20,000m³/hr (150kW) – 40,000m³/hr (350kW)** airflow. These units require a water source to the integral coil and have quick-release water connections, together with a 63amp 3-phase power connection.

The air handler can be sited internally or externally. The 150kW unit has 4x500mm spigots while the larger 350kW unit has 5x500mm spigots available for free blowing cool air or for connecting flexible ducting to provide cool air in additional areas up to 30metres, with damper control.

These units can be supplied with a condensate pump, boxed GA pleated filters (BS EN 779) and a variable (frequency driven) fan speed control.

ROOF TOP UNITS AND FLEXIBLE DUCTING

We offer a fully packaged ventilation, cooling and heating unit specifically designed for external positioning on rooftops and load bearing floors.

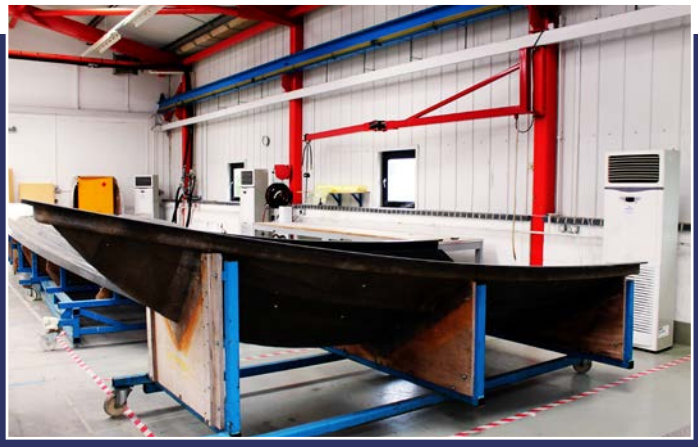
The heat pump unit can be utilised for fresh air or 100% recirculation and, where required, can be controlled by an external thermostat.

Our largest unit is capable of providing 129kW and 18,000m³/hr airflow via twin 500mm spigots. Flexible ducting or galvanised transition pieces can be provided where required.

PORTABLE FAN COILS

Rental fan coils offer effective cooling and air movement for large space cooling, they serve as an ideal solution for cooling large warehouses for food or flower storage especially during the summer months where existing site cooling may not be able to work effectively in the increased heat.

Units can easily be positioned, either floor standing, mounted on our specially designed rental frames or suspended from walls or ceilings to ensure maximum floor space is maintained. For larger spaces units are supplied in packages to ensure even air distribution throughout a warehouse.



TECHNICAL INFORMATION

Model kW	Sensible Cooling	Heating kW	Max airflow m^3/hr	Water Connection	Length metres	Width metres	Height metres	Weight Kg dry/wet	Power	Max Amps	Plug
Fan Coils											
10 kW	8kW	15kW	2,012	1"	1,960	256	732	40/45	1ph	5	13 amp std (BS1363)
15kW	10kW	20kW	2,000	1"	605	380	1,900	100/110	1ph	5	13 amp std (BS1363)
30kW	16kW	50kW	3,200	1"	588	426	1,840	92/102	1ph	7	13 amp std (BS1363)
Air Handlers											
25kW	17.5kW	35kW	2,800	2"	1,200	750	2,100	300/400	1ph	6	3 Pin C forme 16 amp (BS4343)
50kW (S)	35kW	65kW	5,040	2"	1,500	750	2,250	600/625	1ph	10	3 Pin C forme 16 amp (BS4343)
50kW (N)	35kW	100kW	5,040	2"	1,350	790	2,250	600/625	1ph	7.9	3 Pin C forme 16 amp (BS4343)
150kW	100kW	200kW	20,000	2"	2,610	1,270	2,000	660/695	3ph	11	5 Pin C forme 32 amp (BS4343)
450kW	250kW	450kW	40,000	4"	3,150	2,450	2,300	1,000/1,100	3ph	21	5 Pin C forme 63 amp (BS4343)
Roof Cooling and Heating											
129kW	85kW	115kW	18,000	2"	2,330	2,330	2,420	1,960/2,040	3ph	94	5 Pin C forme 125 amp (BS4343)

LOW TEMPERATURE FAN COILS

NEED CHILLED AIR FAST?

In addition to our standard range of fan coils, we also offer a low-temperature range of units designed to provide a stable below zero air off temperature. Designed and proven over 500 low temperature installations, our LT rental fleet is ideally suited to food production processes or chilled storage providing -5°C air off.

These units are supplied with their own individual real time defrost panels and integral defrost heaters.

Where multiple units are employed in parallel, the defrost times can be staggered to ensure the required temperature remains stable.

SPECIALIST APPLICATIONS

These units can also be used in conjunction with our rental range of dehumidifiers in moist environments and in tempering applications where the timed increase in temperature is critical.

Units can be provided in a frame for ease of positioning on racking or nearby floor areas. Alternatively, they can be supplied without a **frame** and suspended from the ceiling/roof by way of integral cleats.

A full range of heat transfer fluids (food safe, industrial glycols) can be supplied with our range of rental equipment on a rental or outright purchase basis.

TECHNICAL INFORMATION

Model kW	Max Airflow M³/hr	Water Connections	Length metres	Width metres	Height metres	Weight Kg dry/wet	Power	Max Amps	Plug
5 kW	3,240	1"cl	1,225 Frame: 1,225	604 800	575 1,000	83/89 140/146	3ph	6	BS4343
10kW	6,480	1"cl	1,700 Frame: 2,200	604 780	575 930	135/147 210/222	3ph	9	BS4343
25kW (S)	13,896	2" Bauer	1,775 Frame: 1,940	1,253 1,353	1,376 1,650	325/366 500/541	3ph	15	BS4343
50kW (S)	27,700	2" Bauer	3,200 Frame: 3,200	1,253 1,353	1,600 1,640	848/926 1,148/1,226	3ph	30	BS4343
DX Low Temperature Coils (-20°C Air off)									
Internal 17kW	13,000	DX	2,570	1,110	1,170	650	-	-	-
External 17kW	13,000	DX	2,140	940	2,400	830	13,000	50	BS4343

PORTABLE SUB ZERO LOW TEMPERATURE DX FAN COIL

We offer a range of low temperature fan coils and DX systems regularly used in the food industry for food cooling and chilled storage applications. Standard temperatures for the range offer -20°C air off.

These units are supplied with their own individual real time defrost panels, which when supplied in parallel can be staggered to ensure a stable temperature is provided at all times.

FULL PROJECT MANAGEMENT

From time to time we are asked to work on site under differing safety and security controls.

Our engineering staff and managers have experienced a wide range of projects and can provide a tailored site specific plan to help manage the contract safely and in a timely manner. We have staff capable of pre-planning major and small projects to exactly match what is called for.

Do not hesitate to ask us for help or flexibility on site. We understand that there will be times when you will need a partner to help your project run smoothly. We are here to help you.

LATE NIGHT 24/7

We provide hire solutions to many businesses to meet cricital requirements. To support this, we offer an out-of-hours emergency delivery and response service.

We employ a fully-manned out-of-hours call handling service who are linked to our regional service teams and on call engineers, day and night.

We also offer a late night delivery and installation service for pre-planned out-of-hours installations where work has to be carried out. Usually when processes are able to run off-line or the staff in the offices are not working so there is minimal disruption to the business.

Our experienced installation teams can provide a full install and commissioning service for short running projects and week-long fully manned on-site monitoring.

REMOTE MONITORING

We are able to offer customers and their clients a temporary remote monitoring service to help businesses keep on top of their cooling processes and chiller system operations.

Our Remote X service can monitor up to 4 individual units on one account and provide a complete audit trail of temperatures, alarms and user activity throughout the rental contract.

In addition to this, our service can also measure the following:

- Energy monitoring
- Temperature tolerance notifications
- Data recording via email and SMS
- Access to information 24/7

We monitor out of hours if required, where alarms are monitored by our in-house service team and managed for critical applications and 24 hour site operations.

SHORESIDE, AIRSIDE AND OFF-SHORE EXPERIENCE

We can offer expert engineering and installation teams to help project manage, interface and install in specialist environments.

We have completed many projects in private and secure areas offering a specialist resource to help manage the most demanding project sites. We have proven experience in restrictive and closed environments, and our pre-planning management is tailored to provide a bespoke service to meet exactly what is required on site.

We can also offer our resources during specific time frames, day and night.

WE SERVE YOU AND YOUR CLIENTS & DELIVER DIRECT TO YOUR DOOR

To meet the unique requirements of your project, we can also provide:

• **HIAB Lifting and positioning** of equipment on site, where forklifts are not available or accessible.

• **Lift and Shift Services** – where there is a need to safely position equipment in restricted access spaces or underground work areas.

• **Crane Use and Management** – for high level and inaccessible spaces. We work in conjunction with specialist crane experts who arrange all the necessary pre-planning, risk, safety and road management as part of an all-inclusive lifting service package.

• **Portable Equipment Delivery** – need a super-fast delivery of portable heaters or air conditioners? Our local tail lift transport can manage all emergency call outs 24/7, to help you overcome any temporary site breakdowns or shortfalls.

DELIVERIES DAY OR NIGHT

• **Dismantle and Reconstruct** – Flat pack assembly where there is minimal access, we can deliver our equipment in kit form, and then rebuild on site.

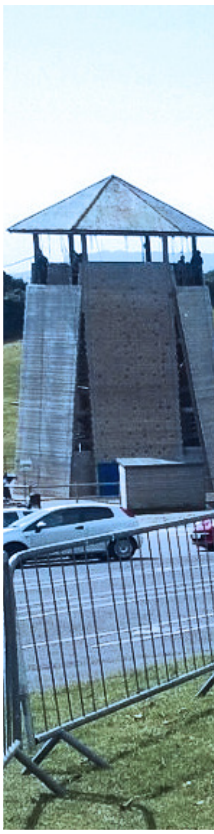
24

BOILER RENTAL

ICS Cool Energy is able to meet a wide range of demands for boiler hire with bespoke, class leading plant rooms, available in various sizes and outputs as part of the portfolio. All benefits of hire, such as no need for capital expenditure or permanent on site storage for equipment that is only needed temporarily or on a seasonal basis, included.

RANGE

Although predominantly seasonal, boilers are an all year-round product. Especially in plant room renewals where they take place as much in the summer months as they do off-season, often to cover any planned maintenance taking place on site, but also for emergency needs. Our extensive boiler hire fleet includes 300kW and 600kW dual circuit (heating and domestic hot water) packaged plant rooms.



SMALL FOOTPRINT

The equipment is built into a container that is just 2.2m wide, 2.9m long and lower than 2.3m, giving a small footprint on site. The container itself is secure and lockable and the flue discharging exhaust gases into the atmosphere is insulated and housed in a secure manner to prevent unauthorised access on site.

COMBUSTION EFFICIENCY 94.1%

The equipment itself is specifically designed to give the best possible efficiencies on combustion by utilising Weishaupt burners which are industry leading (94.1%).

ICS Cool Energy chose to partner with this world leading manufacturer as they are able to provide both high standard equipment and comprehensive support throughout the UK and Europe.

INTELLIGENT CIRCULATION PUMPS

The Lowara Ecocirc XL intelligent pumps used on the primary and secondary heating side of the system have been specifically selected for their low energy input. The secondary (heating) pump in particular has a great deal of influence on the operation of the plant. It has been set up to control the heating input on the primary side of the system.

ENERGY SAVING

If there is no heating load on the client's side of the system, the pump holds off the burner from firing on the primary side. Put simply, when there is no load required, then the burner does not need to ignite, adding to the unit's energy savings.

The system is designed to retain a minimum amount of heat, so there is always an instant supply available when needed.

DIGITAL THERMOSTATS

Integral to the plant, are digital thermostats on both heating and domestic hot water systems to give the best possible control. It can also run on a seven day programme, so heating output can be more closely controlled at peak and off peak times.

SECURITY BUILT IN

All the internal pipework system in the temporary plant room is constructed from stainless steel, preventing long term corrosion and providing insulation to prevent losses. Only flange connections are used on the pipework, reducing risk from traditional quick release connections.

GSM REPORTING

ICS Cool Energy offers a unique GSM reporting system which will give temperature readings on each service along with fault reporting on all aspects of the operation of the equipment helping to make the offer of a best in class and industry-leading temporary boiler plant room.

SPECIALIST LOW TEMPERATURE APPLICATIONS

SUB ZERO PROJECTS

We frequently provide low temperature solutions to serve production processes for industries such as food and chemical, while at the other end of the spectrum we have provided low temperatures to the events and film industry creating special filming effects and cooling for ice rinks.

Our extensive rental fleet is adaptable and can provide powerful low temperature air solutions (-20°C) with fan coils and DX units to effectively cool warehouses for the storage of frozen food; in addition to this unique low temperature rental cooling packages can provide sub-zero cooling through very low temperature fan coil units or with our bespoke built 'Class A' -40°C chillers (250kW – 600kW).

SEASONAL ICE RINKS

We have worked on seasonal ice rink projects across the UK and Mainland Europe for many years. Throughout this time, we have built a portfolio of over 120 ice rink projects each season; working with event companies as well as managing ice rinks in their own right. Our rental fleet is perfectly suited to provide the cooling which creates the ice.

In most instances, we provide the complete cooling package including, interconnecting hoses, pumps, buffer vessels and where required - generators.
With our own dedicated team of engineers we provide complete project management and 24/7 support for each and every project.

Case Study - **"A Moving Installation"**

RSA Films contracted ICS Cool Energy specialist hire team to cool a film set to sub-zero temperatures to create visual effects for the Scottish band, Travis' music video for the single **"Moving"**, taken from their seventh album 'Where You Stand'.

The stunning video shows a series of images forming as if by magic from close-ups of the breath that emits from the singers' mouths as they perform the piece. To enable the creative concept to become a reality, they needed an environment cold enough to generate visible breath.

To cool the studio, ICS Cool Energy recommended and installed two off **35kW** externally sited air cooled rental chillers with a **-12°C** set point, creating a temperature of **-6°C** air, utilising two off internally sited low temperature 50kW fan coils, which were mounted on a high level frame to maximise floor space and provide an optimal level of air circulation.

The studio was cooled to **-1°C,** removing the thermal load from the studio foundations and cooling the air temperature. Once at the required temperature, the fans were switched off and the air was left to settle ensuring the best conditions to create the desired effect.

Russ Baker, ICS Cool Energy's Director commented: *"Our engineers installed the system to work for the crew on set; all wiring, pipework and connections fed into a single switch in the studio, making it quick and easy for the producer to boost cooling temperature.*
To limit this, the production team installed lighting with a low heat load and usage of the main lights and computers were minimised. By ensuring that only the essential crew were on set throughout the filming, any further heat build up was minimised.

"There are many elements that generate heat, computers and lighting can be a large heat source as well as people and movement."

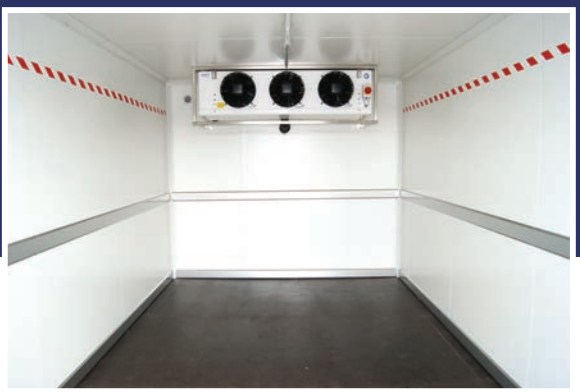
Noreen Khan, RSA films producer commented: "In my experience, ICS Cool Energy not only offered an excellent service but the team provided full back up support to a very unusual and challenging project. Our engineer in particular was completely dedicated and went above and beyond to ensure a smooth install to the project. Both the installation and the end results were outstanding. Thank you to everyone involved."

COLD STORE HIRE

We have developed an extensive range of cold storage solutions for hire. The systems range from custom-sized, modular, insulated refrigeration rooms to the provision of temporary buildings with complete temperature controlled ambient cooling and heating.

We appreciate that each site has a unique requirement, and many elements to consider for a cold storage project. To ensure the most suitable, reliable and cost effective solution is recommended each site is individually assessed by an experienced engineer prior to a recommendation being made.

Rental solutions for cold storage provide customers with flexibility as the equipment they rent can easily be adapted to meet the needs of a growing business, our cold stores can be designed around a particular space, located internally or externally and fully flexible to meet a business' needs.



PORTABLE COLD STORAGE

A selection of portable cold storage, chilled container, modular chilled and frozen rooms are available.

The modular systems are internally sited and can be constructed in custom sizes with options for shelving, flooring and racking solutions as well as door options.

They are ideally suited for food storage of fresh ingredients and meats and have also been used in breweries for storing casks of ale or as a walk in freezer freezer for ice cream and frozen storage.

CLIMASTORE - AMBIENT CONTROLLED SPACE COOLING

We offer flexible temporary buildings to suit a site's exact requirements with the added benefit of a chilled store environment or an air conditioned space.

In addition to this, being a Europe-wide temperature control company, we can offer the latest energy efficient cooling and heating equipment to help manage the cost of cold storage or an air conditioned environment.

Our team can provide temporary units on a flexible basis to suit production demands, seasonal turnover and short term emergency projects.

There are many options available to customers to match a site's requirements including flexible building sizes, door and racking options, temperature monitoring with accurate measurements and alarms, drainage and guttering as well as lighting and lift access.

The systems have been used on many sites for seasonal storage of food and flowers before distributing to a network of stores.

AIR CONDITIONER & CLOSE CONTROL - PORTABLE HIRE

WATER-COOLED COOL CLIMA 7.3kW

We offer a range of portable cooling units designed to provide stable room temperatures in areas where this is critical to the equipment in the same room.

For example server rooms, store rooms, libraries, large office areas and areas where high ambient temperatures need to be controlled.

Our Cool Clima's provide automatic thermostatically-controlled air conditioning, where existing units (ceiling or wall-based systems) have failed, or are now under-sized.

We can offer a temporary solution for a short or long term time scale, with equipment designed to offer consistent performance and accurate temperature control, without all the hassle of a fixed pipe installation – ideal for buildings on short term leases, or events where the project is short term.

All of these units have been designed to offer the following:

• Single phase power supply to offer a fast and easy set-up solution.

• Castors with brakes to help deliver and position where needed.

• High cooling output (7.3kW/25,000Btu's), in a small unit to effectively cool the local area and make a difference.

• Small and narrow cooling line up to 30m length (100ft).

• Optional cooling hose on front air discharge to provide close-local cooling to server racks or specific areas.

COOL ENERGY 4.4kW AIR CONDITIONER

The Cool Energy 4.4 is a powerful, compact and efficient all round air conditioning unit. The fully portable unit offers cooling, heating and dehumidifying all in one. Temperatures range from 16°C up to 32°C and can be freely controlled via the supplied remote control or its simple to use interface. Temperatures can also be set throughout the day with its reliable built-in 24-hour timer.

Manoeuvring the 4.4 is incredibly easy thanks to its fitted castors. The unit operates from a standard 13 amp plug and requires a single heat rejection hose which is supplied as standard. With such power fitted into a small unit, the 4.4 is a key office asset – especially with an Energy Efficient Grade of 'A'.

SPOT COOLERS

HIGH TEMPERATURE COOLING AREAS

Combating specific areas directly affected by heat is a common business problem. Spot Coolers are now used to direct intense cooling to these areas and solve the issues quickly.

The 10.25kW Spot Cooler is the largest and most powerful spot cooler in our range. Delivering an air movement of 2,000m³/hr, this unit is easily suited for server rooms, production areas and workplaces.

However, with only an average of 70p/hr running costs, the 10.25kW Spot Cooler is also an incredibly cost-effective solution to areas constantly affected by heat.

POWER COOL 8.2kW

The Power Cool is our medium sized spot cooler providing an incredible air movement with a large volume of 1,500m³/hr. This is best suited to smaller server rooms, production areas and workplaces. The unit benefits from having three nozzles, which can be directed on several local areas affected by heat.

MIGHTY COOL 6.7kW

The Mighty Cool is our most popular spot cooler, and provides air movement of up to 1,170m³/hr. Best suited for cooling a local area and/or one or two persons. The unit benefits from two adjustable frontal nozzles that can direct air movement onto areas directly affected by heat and people working nearby.

The unit operates from a 13 amp domestic plug and in addition to this, is supplied with a 6" rejection hose. The Mighty Cool unit has been designed for fast rental installation and setup. Moreover, the Mighty Cool's controls are simple to use and require only minutes to operate.

During operation, noise levels are low - which is ideal for prolonged use.

With the natural process of evaporation, only water is needed for the running of the Eco Cool. As a result, this evaporative cooler runs at an average cost of 2.7p/hour, making the Eco Cool incredibly cost-effective for everyday office use.

ECO COOL

For any worker who is struggling under uncomfortable heat, the Eco Cool has the practicality to refresh any office space. With its portability and tiny footprint, the Eco Cool makes for an impressive office asset. Taking advantage of its hose-less operation, the evaporative cooler can be placed anywhere with its domestic 13amp plug.

The sleek design of the Eco Cool blends in well with its environment, particularly with its easy to use control interface. Set-up takes moments, and with a 40 litre tank, re-filling the Eco Cool is on average only a daily procedure.

COM COOL

Our latest environmentally friendly evaporative cooler is the ultra efficient COM Cool. Capable of providing relief from heat when cooling an area of 100m^2 and costing on average 20p/hr to run, the COM Cool is the most cost-effective portable cooling solution we can offer. Designed for fast rental installation and start up, the COM Cool can be running and cooling you down in moments.

Ideal for office areas, warehouses and workplaces. Like many of our other evaporative cooling portables, the COM Cool requires no refrigerants to operate - making it clean, odourless and hassle free. All you need is to refill the internal water reservoir when indicated.

ACCREDITATION AND CERTIFICATION

In 2008, ICS Cool Energy successfully gained approval of our Management Systems to register for **ISO9001:2008**.

Followed by our Environmental Management standards for **IS014001:2004** in 2011, and Occupational Health & Safety Management standards for BS **OHSAS18001:2007** in 2012.

ISOQAR REGISTERED UKAS MANAGEMENT SYSTEMS 0026
Certificate Number 6642
ISO 9001, ISO 14001, ISO 18001

In addition to this, ICS Cool Energy is **Eurovent** Certified and authorised to test and qualify the performance of our Cooling & Heating equipment.

AFFILIATED MANUFACTURER EUROVENT EUROPEAN INDUSTRY ASSOCIATION

Member BRITISH SAFETY COUNCIL

Furthermore, ICS Cool Energy is also certified member of the **British Safety Council** to maintain and enhance a safe safety-first environment for our workers and employees.

Legionella Control Association KEEPING WATER SYSTEMS SAFE

In terms of other major certifications, we are also registered and tested to the **Legionella Control Association** as laid out in their Code of Conduct for service providers.

Please call **0800 840 4210** for more details.

WE ALWAYS SUPPORT. WE DO CARE.

THE TEMPERATURE CONTROL SPECIALISTS
SALES | HIRE | SERVICE

WE MAKE IT WORK

0800 840 4210

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Hire Cooling Brochure May 2018