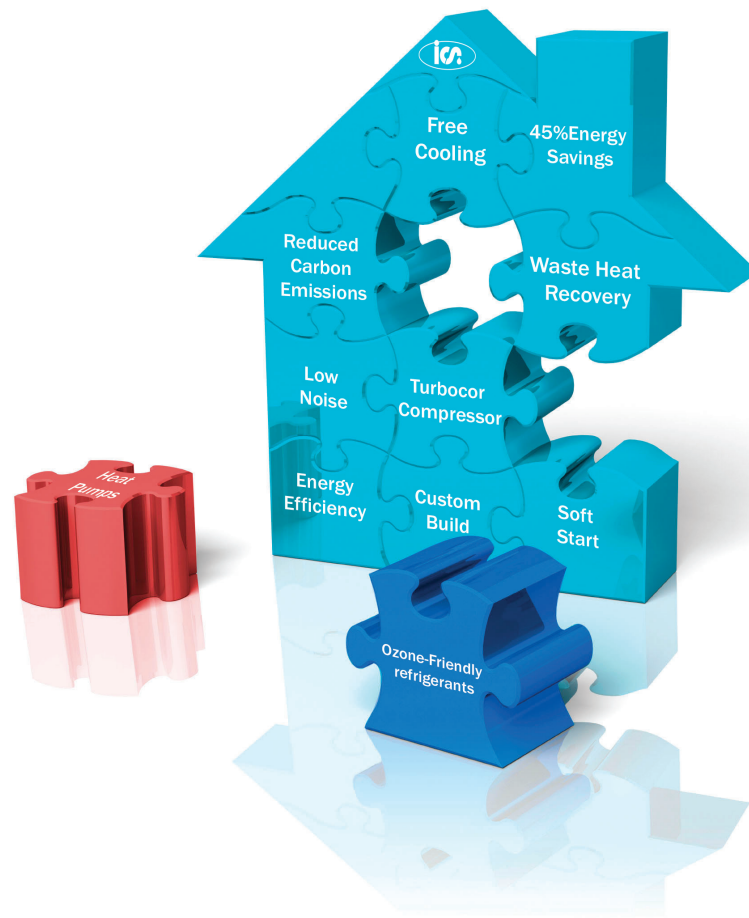


New chiller Technologies.

ICS has the complete package



Maximise efficiency, reduce your carbon emissions and save costs with the latest range of energy efficient chillers from ICS.

An extensive range of chillers are available to you incorporating the latest energy efficient technology, such as Turbocor Centrifugal compressors, ozone-benign refrigerants and free cooling capabilities.

Unsure what you need and how it would apply to your application?

No problem. ICS have local engineers nationwide who are experienced at engineering a solution and providing a first-class assessment to assist with your decision-making.

So, if you need to analyse your cooling performance to reduce costs, call ICS free on [0800 169 3861](tel:08001693861) or log on to www.icstemp.com.



industrialcooling

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ICS Industrial Cooling.

The latest energy efficient technologies

ICS are providing advice to customers regarding the choice of ENERGY EFFICIENT cooling equipment, which is available now and designed to help reduce the use of energy by up to 45%, therefore reducing your carbon emissions.

We advise you to take a look at the latest new chiller technologies from ICS and consider our ranges when you or your clients select the next piece of cooling equipment for a new project or replacement.

It is the same as buying a new car and considering the fuel consumption when you make your decision.



We can offer you:

- Air and Water-cooled chillers with Turbocor Centrifugal compressor technology offering 45% energy savings and operational efficiencies.
- Chillers with the latest environmental friendly ozone-benign refrigerants including R410a and R134a.
- Chillers capable of offering partial and full load heat recovery, providing cooling and heating from the same unit.
- Free cooling chillers with in-built coils capable of using low temperature ambient air and a 44% saving on power use.

What to do when replacing older equipment.

When you are considering a change, ICS can help you with your choice of the correct equipment for you or your clients business. Your process and building heat loads may have changed over time so we can consider this with you prior to you committing again to the same sized chiller and old technology.

Knowing the true benefits of installing new technology with energy saving benefits is key to any capital investment, because you need to know whether they are really beneficial and save you money in the future.

Energy Survey

ICS can provide you with an assessment of your current power use and operational efficiency, before recommending a suitable replacement and demonstrating the benefits and savings of the new ICS equipment.

Our energy analysis report will show you your specific energy savings and carbon footprint reduction.

You can then determine whether you purchase a straight replacement or energy saving alternative.

ICS have over 25 years experience in specifying and installing in excess of 30,000 chillers in many different applications.

We can provide you with the following service:

- Provide a cooling package capable of exceeding your design and meeting the needs of your project.
- We can build you a custom-made package in-house within our own manufacturing facility in the UK.
- We can supply all the necessary pump, tank, ancillary and pipe work goods should you need a total system installed by one contractor.



New process and building projects.

How ICS can help you

Interest-free loans for ICS customers

To help assist energy efficiency within business there are also currently incentives from the government for small or medium-sized enterprises (SME's) in England and Scotland and all businesses in Wales, to loan between £5,000 and £200,000 on an interest free basis over a maximum 4 year period.

Businesses in Northern Ireland have a higher ceiling at £400,000.

ICS can help you with your application for these loans and give you an energy-saving guide when we visit you.

Call us on our regional numbers to ask for more information and to plan for one of our engineers to visit.

About Turbocor Compressor Chillers

The latest ground-breaking technology available now for all ICS customers.

Air and Water-cooled chillers with centrifugal compressors offer energy savings of up to 45% and are equipped with state-of-the-art compressors, featuring a turbine incorporating magnetic bearings and digital impeller speed controls, which give the energy benefits, as opposed to conventional reciprocating, screw and scroll compressors currently on the market. This technology also eliminates friction and therefore a reduction of **noise emissions** from the chillers giving further benefits – especially for building design and factory soundproofing.

The compressors are also literally **5 times lighter, half the size in design**, and also require a very low **starting current (2 amps/soft start)** as opposed to **500-600amps** needed for a screw compressor with the same capacity.

ICS have a range of chillers (224-1,256kW) available.

About Free Cooling

“Free Cooling” is where you can utilise the **low outside air temperature** experienced in northern Europe for chilling water in your process or air conditioning, rather than part or all of your chiller plant running via higher cost compressor power.

ICS Customers now have the option to install free cooling units such as chillers with integral free cooling coils or as separate dry air blast coolers in line with their existing cooling system.



How it works

When the ambient air drops 1°C below the temperature of your return water – a modulating valve allows all or part of the chiller's water to by-pass your existing chiller and run through the free cooling system, which uses less power and utilises the lower ambient air to cool the water in your system.

ICS can provide a cost analysis of your site to show you the power reduction to your cooling system.

ICS have a range of chillers (43-1,262kW) available.

What are the benefits?

- You can utilise the cold air outside with is free.
- You would reduce the running use of your existing compressors.
- There would be less wear and tear due to the reduced hours of operation.
- Your power costs would reduce by up to 44% in most cases.
- Your free cooling system could run automatically when required.
- The cost of your new system could be paid back by as quickly as 12 months.

About Heat Recovery

ICS have a range of chillers capable of providing cooling and hot water at the same time for a small additional capital cost on top of a standard chiller.

How it works

When a standard chiller is operating and providing chilled water to process or an air conditioning system, it rejects the heat taken from your water to atmosphere, which is the duty of your chiller.

This is a significant amount of waste energy and can be harnessed as **hot water (up to 50°C)** from the chiller to a separate source in your building or a hot water tank for use in your site services.

We can provide chillers with this option as **partial heat recovery (25% of the cooling duty)** or **full heat recovery**, as you would utilise all of the heat gathered from the chiller for use elsewhere.

By using this method of heating, you would reduce your existing heating costs and considerably reduce your carbon emissions.

Contact us today.

For more information or
a free site survey

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