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ADCOCK

REFRIGERATION
AIR CONDITIONING

Environmentally friendly chillers



Adcock Refrigeration and Air Conditioning sit at the forefront of heating and cooling technology and service.

Our knowledge and expertise has been relied upon for over 50 years, delivering a total service to our customers. Our experts are among the UK's leading authorities in refrigeration technology, which ensures that we deliver smart solutions that bring long term benefits and high reliability to our customers. Providing high quality, sustainable solutions is one of our core services and work with the world's leading manufacturers.

Our exciting new range of totally environmentally friendly packaged air and liquid cooled chillers bring a significant number of benefits to customers that use chiller technology. By using only natural hydrocarbon refrigerants they offer a long term sustainable solution for any commercial environment.

There are still uncertainties surrounding refrigerant gases and their effects on the environment so our new chiller technology which uses hydrocarbon primary refrigerants is without doubt, a viable means of future proofing your cooling needs.



The primary benefits include:

- Increased efficiency
- Improved COP
- Zero global warming potential
- Lower energy consumption
- Not subject to phase out controls or F-Gas
- Reduced refrigerant charges
- EC condenser fans
- Latest HC built-in health & safety package
- Fully tested and factory certified
- 2 Year warranty
- Available up to 780kW liquid cooled / 550kW air cooled

Ideal for:

- Food production and storage
- Pharmaceutical preparation and storage
- Retail refrigeration
- Fish farming storage
- Fresh food farming production and storage
- Commercial air conditioning

Technical Information

This range of chillers offers capacities of between 10 to 600kW+ in a range of flow temperatures, for air conditioning and cooling applications. Units are supplied with the latest microprocessor controllers where multiple circuit systems have automatic run time equalisation between compressors and they are also BMS compatible.

The units are all weather protected and can be sited outdoors in temperatures between -20°C and +40°C. We can also supply low temperature freezer chillers with flow up to 125 kW at -31°C flow are also available.

Reference Installation

Adcock have access to a wide range of reference sites in the UK and Ireland and we can provide details of relevant references dependent on specification

Technical Summary

- Cooling capacities between 10 to 600kW+
- A range of flow temperatures for air conditioning and cooling applications
- Low temperature freezer chillers up to 125 kW at -31°C flow temp are also available.
- All units are weather protected
- Units can be sited outdoors in temperatures between -20°C and +40°C.

Packaged solutions

Installing and commissioning a new chiller is very quick and simple. All units include complete controls and electrics, along with a built-in hydronic kit with inverter drive circulation pump. We simply connect the power supply and the flow/return pipes on the process side and you are ready to go!

All units are available in a total Stainless Steel construction for use with Hycool® Potassium Formate fluids and include built in twin circulating inverter pumps or external pump stations, remote internet based controller access, a pump energy optimisation system (PEO), twin condenser panels and the latest in hydrocarbon refrigerant safety packages.

All units can be tailored your specifications and we can provide any additional racking or framework, if required.

Q&A

Why would I purchase a hydrocarbon chiller?

These machines use an environmentally friendly refrigerant which does not come under the currently proposed phase out within the F-Gas regulations. The equipment has a low refrigerant charge and has very good energy efficiency.

What secondary refrigerant can hydrocarbon chillers be used with?

Hydrocarbon chillers can be used for air conditioning applications with either water or water / glycol mix. For refrigeration applications the equipment uses Hycool® as a secondary refrigerant.

What is Hycool®?

Hycool is a mixture of potassium and water. It is an environmentally friendly biodegradable non-toxic food safe secondary refrigerant. It has low viscosity therefore energy consumption for circulating the refrigerant around the circuit is minimal.

What is the largest capacity hydrocarbon chiller available for a refrigeration application?

The largest capacity Hycool®/hydrocarbon chiller can provide 125 kW refrigeration capacity with a Hycool® supply temperature of -31 degrees C. This would be suitable for a freezer cold store operating at -22 degrees C.

What other benefits would a hydrocarbon chiller provide?

Hydrocarbon chillers can be provided with heat recovery therefore heat produced during the refrigeration process could be used for many applications including office / under floor heating or production area washing down water. Either low temperature hot water or high temperature hot water could be provided.

Who could design, supply and install a hydrocarbon chiller solution?

Adcock Refrigeration and Air Conditioning Limited are able to provide a full design and installation service for this technology. Adcock also install all associated framework, racking and safety platforms, if required.

Who will service and maintain the equipment?

Adcock Refrigeration and Air Conditioning Limited are fully qualified to maintain and service all equipment.

**REFRIGERATION
AIR CONDITIONING****About Adcock**

Adcock Refrigeration and Air Conditioning was established in 1964 and is the fastest growing independent in the UK. Still family owned, we design, install, service and care for systems in commercial, industrial and individual residential premises right across the UK.

Adcock has a network of 12 fully serviced branches across England, employing over 250 staff, over half of whom are specialist engineers. We have built a reputation of providing complete industry services and solutions made by world class manufacturers which are then fully supported throughout their life cycle.

Our engineers are among the most highly trained in the industry and our standards are maintained through specialist training at our dedicated City and Guilds training centre, the only one of its kind in the UK.

Our customers range from small businesses to large scale, multi-site organisations, but regardless of size, we will always provide a friendly, competitive and first class service.

To find out more or to book a visit from one of our refrigeration specialists please email chiller@adcock.co.uk

**Regional Offices**

Birmingham	0121 369 0188	King's Lynn	01553 692 277
Bromsgrove	01527 889 494	London	0207 099 7798
Cambridge	01223 812 330	Northampton	01604 748 700
Chatham	01634 673 870	Norwich	01603 453 300
Chelmsford	01245 398 780	Peterborough	01733 344 300
Derby	01332 916230	Reading	0118 934 8800
Guildford	01483 905120	CAD Office	01206 214 689
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