Next Generation Chiller Technology
Cooling capacity 1.4 - 166kW
ICS Cool Energy is a specialist solutions provider who sell, rent and service temperature control equipment for process and comfort applications.

Established in 1989, ICS Cool Energy has over twenty-five years' pan-European experience in the food and beverage processing, chemical and pharmaceutical, plastics and rubber, manufacturing and facilities management markets, having provided solutions to over 50,000 temperature control projects worldwide.

ICS Cool Energy provides a trustworthy and successful service to its large customer base, and with continual growth plans, ICS Cool Energy is always investing in innovation in order to expand and improve product ranges, whilst maintaining their exceptional standards.

ICS Cool Energy provide maximum flexibility for customers; providing standard and packaged units including custom builds with commissioning, hire solutions and 24/7 service support.

All units are manufactured to ISO 9001, 14001 and Eurovent accreditation standards ensuring the highest levels of performance and quality.

Introduction

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**Case Study examples**

**Requirement:** Producing over 95,000 parts per day, a plastics manufacturing firm required urgent cooling assistance for a new application involving the solidification of plastic inside a mould.

Solution: ICS Cool Energy supplied a new energy-efficient chiller within 3 days of quoting for the project, allowing the company to get their processes back in order as quickly as possible.

The manufacturer uses an efficient injection moulding method using plastic pellets which begin the process in a vessel at a temperature of around 80°C to remove moisture.

The pellets are then gravity fed into a rotating screw and barrel. As it rotates, the pitch on the screw shortens, compressing the material and generating heat.

This is helped along its way by four band heaters on the screw; allowing the plastic to reach a temperature of approximately 285°C. Once at this temperature, it is injected into eight cavities within a mould which solidifies very quickly in order for the process to be completed within the desired 1.25 seconds. The new chiller provided by ICS Cool Energy ensures this step by pumping a chilled water/glycol mix around the mould at a temperature of -10°C.

**A healthier future for the Chemical/Pharmaceutical industry**

**Requirement:** Following a fire, a manufacturer of water management equipment sought emergency assistance from ICS Cool Energy in order to restore normality to their heavily damaged production facilities and get their processes back on track. With design and manufacturing their primary focus, the company’s facilities were comprehensive, and with the fire causing critical levels of damage to their equipment, production was heavily disrupted.

Solution: ICS Cool Energy created a custom-made plan of action that saw every aspect of the manufacturer’s redevelopment accounted for.

ICS Cool Energy’s hire division immediately supplied a chiller and air blast unit on a short term hire basis allowing for production to recommence much sooner, even throughout the more time-constrictive installation of permanent units. The next stages of the project saw both the installation of a new chiller for use within the cooling of their moulding machinery, and the addition of a 480kW capacity adiabatic cooler unit to provide reliable, economical temperature control to their hydraulic circuits. This provided the plumbing equipment manufacturer with a solution that would not only bring their facilities back into full operation, but also provide them on a long-term basis with the latest in cooling technology.

**Keeping the UK’s largest Food and Beverage firm at the top of the food chain**

**Requirement:** A major manufacturer of food, drink and refreshments enjoyed by millions of people worldwide on a daily basis, required a specialist cooling solution for their syrup cooling processes at their new state-of-the-art soft drink production facilities.

Solution: ICS Cool Energy recommended a 1 Off chiller to work in partnership with a 1 Off plate heat exchanger. Having moved the new cooling equipment into place on site, ICS Cool Energy began the installation process by entering the existing thermally insulated pipework and routing a new line above the system’s valves and vessel.

**With this in place, the piping could then feed directly into the new plate heat exchanger unit. Following the installation, the system was re-connected back into the existing network of pipework, allowing the company’s newly enhanced production processes and the new temperature control units to begin operation.**
ICS Cool Energy is proud to push the boundaries of modern, energy efficient cooling with the launch of their i-Chiller range of industrial chillers, that are available for sale or hire world-wide.

The i-Chiller range of air-cooled chillers are at the cutting edge of cooling technology and have been specifically designed for use in industrial applications, are compact, energy efficient and environmentally friendly.

Placing efficiency at its heart, the innovative evaporator-in-tank configuration ensures reduced ambient heat gain and a steady temperature of the process fluids.

All models are individually tested to ensure quality assurance in line with ISO9001.

A full check of the refrigerant charge, leakage controls and micro compressor is completed before every delivery ensuring long-term, sustainable standard of reliability.

ICS Cool Energy is proud to push the boundaries of modern, energy efficient cooling with the launch of their i-Chiller range of industrial chillers, that are available for sale or hire world-wide.

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All models are individually tested to ensure quality assurance in line with ISO9001.

A full check of the refrigerant charge, leakage controls and micro compressor is completed before every delivery ensuring long-term, sustainable standard of reliability.

Environmentally Friendly Innovation

In support of the European Union’s legislation regarding the phase out of R22 gas, the i-Chiller range utilises the most sustainable R410A refrigerant, with R407C and R34a gases used in smaller capacity models. The R410A refrigerant offers an improved carbon footprint, helping to lower the impact of each and every process, safeguarding both your business and the natural environment for the foreseeable future.

Quality Assured

All i-Chiller products are fully certified by Eurovent. ICS Cool Energy has obtained the Eurovent certification, adhering to the LCP programme.

Factory Testing

All models are individually tested to ensure quality assurance in line with ISO9001.

A full check of the refrigerant charge, leakage controls and micro compressor is completed before every delivery ensuring long-term, sustainable standard of reliability.

Intelligent Engineering

ICS Cool Energy’s i-Chiller range of units feature efficient hermetic scroll compressors which operate at low power level, saving energy throughout operation. Supporting this environmental stance, the units feature highly efficient finned coil evaporators.

User-friendly digital Microprocessor

In addition to leading energy efficiency and environmentally friendly refrigerants, the i-Chiller incorporates the latest technology with unique digital control.

Complete Reliability

i-Chiller products are produced with performance in mind and with component safety considered at every stage, with phase monitoring, pressure switches, glycol level sensor, crankcase heaters and an internal hydraulic bypass circuit all integral to the system’s core.
The i-Chiller units feature highly efficient finned coil heat exchangers with copper pipes and aluminum fins. Installed within the storage tank, the evaporator offers reduced ambient heat gain and a stable temperature of the process fluid. This process fluid flows in contact with the finned surface which is cooled by the refrigerant inside the tubes allowing the innovative i-Chiller to operate with high flow rates and lowered pressure drops for maximum reliability when working in heavily industrial applications.

Furthermore, there is no risk of the heat exchanger freezing thanks to a temperature sensor and control which allows the compressors to turn off in case of a fault.

**Pumps**

The pumps which feature in the i-Chiller range are centrifugal with silicon seals available in two different configurations:

- **Pump P5** – nominal head pressure 5 bar, stainless steel water side mod: 0151-161 and cast iron mod: iC520-iC660. Models iC520-iC660 are also available in the configuration with double pump P3 and P5 or P5 and P5 with automatic switching.

**Scroll Compressors**

The compressors feature orbiting scrolls with two-pole electric motors which are mounted on anti-vibration rubber dampers offering protection against overheating, excessive currents and high temperature exhaust gases. The axial/radial compliance combined with compact sizing of the rotating components and the absence of suction and discharge valves allows for reduced energy consumptions, lowered vibrations due to less moving parts and high resistance to liquid refrigerant returns.

**Condenser Section**

The copper/aluminum air-cooled condenser fins are fitted on one side only which reduces space requirements and can work efficiently at high ambient temperatures of up to 46°C. The chiller model features an aluminum cleanable air filter as standard.

**Electric Panel**

The controller is electronically separated from the power section through the use of a transformer. The electronic section is fitted with main interlocked door which prevents access while the power supply is on. The electrical equipment is compliant with EN 60204-1 featuring an electrical panel protection degree IP44 compliant with EN 60529. The i-Chiller is fully tested for electromagnetic compatibility in-line with EMC standards. A phase monitor also provides protection against phase loss and reversal.

**Structure**

The i-Chiller range is manufactured using heavy duty galvanised carbon steel panels protected by an epoxy polyester coating (RAL 7035, base RAL 5013). The stability of the base allow easy and secure handling of the unit with a forklift.

**Multiple Components**

Units feature two compressors (mod iC520 – iC535) which provides accurate control of the cooling capacity. Models between iC640 and iC660 feature four compressors within two circuits which offer maximum energy efficiency levels at both full and partial loads as well as compressor rotation and unloading functions.

**Optional Ancillaries**

- **Atmospheric Pressure Kit**
  - The kit is installed at the back of the i-Chiller and features a generous water tank with an easy to read water level indicator, encased within a tough painted steel cabinet. The kit features a tap making it easy to fill the water tank directly.

- **Pressurised Fill Kit**
  - This pressurised fill kit is ideal for pressurised hydraulic circuits (up to 6 barg). The kit provides components required for safety and ease of operation including a pressure reducer, water inlet valve, pressure gauge, automatic safety relief valve, auto air vent and expansion tank.

- **Remote Control Options**
  - There are two remote control options available for these units:
    - Simple remote control module (ON/OFF unit status) for installation up to 150m away from the unit
    - Advanced remote controls featuring LED display for installation of up to 150m away from the unit

- **Remote X**
  - Remote access connectivity to your i-Chiller, 24/7. Can monitor up to 4 chillers simultaneously, and provide more convenient improved control for the end user.

- **EC Brush-less Axial Fans**
  - The modern EC axial fans offer high pressure (max 150 Pa) and operate by a synchronous electric motor featuring permanent magnets and inverter speed control. The innovative brush-less fan technology features reduced electrical consumption and an increase in both reliability and outright energy efficiency.

- **Certified Performance**
  - Each and every i-Chiller unit is certified by Eurovent and adhere to the LCP programme which is becoming one of the few companies to operate within the industrial sector, boasting huge achievement.
Installation and Commissioning

With experience of over 50,000 projects world-wide, ICS Cool Energy is proud to have been able to support their customers through the provision of energy-efficient equipment for turnkey installations and commissioning requirements.

Turnkey contracts consist of one or all of the following:
- Mechanical pipework designed in a variety of appropriate materials
- Thermal insulation
- Off loading and positioning plan
- In-house project management

The i-Chiller has been designed to provide optimum performance to process and comfort applications within the following industries:

**Chemical and Pharmaceutical**
- Jacketed Vessels
- Form Mixers
- Laboratories
- X Rays
- Natural Gases
- Cleaning
- Healthcare
- CT Scanners

**Food and Beverage**
- Confectionery
- Bakeries
- Distilleries
- Breweries
- Wineries
- Vegetable and Salad processing
- Dairies
- Bottling
- Carbonation
- Meat and Fish processing
- Storage

**Engineering and Manufacturing**
- Machine Tools
- Welding
- Rolling Mills
- Polishing
- Hydraulic Control unit oil cooling
- Vegetable and Salad processing
- Pneumatic Transport

**Lasers**
- Cutting
- Welding
- Profiling
- Optics
- Medical
- Engraving

**Plastics and Rubber**
- Presses
- Extrusion
- Thermoforming
- Injection Moulding
- Blow Moulding

Maximum reliability, no matter what the application.
iC003 - iC110

Features

• Refrigerant R407C; iC105 & iC110 and R134a (iC003)
• Hermetic reciprocating compressor (iC003); rotary compressor (iC105 & iC110)
• High-efficiency finned coil evaporator with copper tubes and aluminium fins, installed inside the water storage tank
• Axial fans
• Air-cooled condensers (copper tubes/aluminium fins) fitted on one side of the chiller
• Storage tank (design pressure 6 barg) complete with P3 pump, filling/drain valve, pressure gauge
• Internal hydraulic bypass between the inlet and outlet connections
• Electronic level sensor with water conductivity function
• High and low refrigerant pressure switches
• IP33 (iC105 & iC110) and IP20 (iC003) protection rating
• Phase monitor against phase loss and phase reversal
• Compressor crankcase heater

Benefits

• Cutting-edge evaporator provides high flow rates with low pressure drops
• High-efficiency, energy-saving hermetic reciprocating compressor and rotary compressor
• 1.4kW - 4.4kW cooling capacity
• The cold water tank keeps outlet water temperature consistent despite varying load conditions


iC215 - iC220

Features

• Refrigerant R410A
• Hermetic Scroll compressors
• High-efficiency finned coil evaporator with copper tubes and aluminium fins, installed inside the water storage tank
• Axial fans
• Air-cooled condensers (copper tubes/aluminium fins) fitted on one side of the chiller
• Storage tank (design pressure 6 barg) complete with P3 pump, filling/drain valve, pressure gauge
• Internal hydraulic bypass between the inlet and outlet connections
• Electronic level sensor with water conductivity function;
• High and low refrigerant pressure switches
• Innovative i-Chill microprocessor
• IP44 protection rating
• Phase monitor against phase loss and phase reversal
• Compressor crankcase heater

Benefits

• Environmentally-friendly R410A refrigerant
• Cutting-edge evaporator provides high flow rates with low pressure drops
• High-efficiency, energy-saving Scroll compressor
• The i-Chillers flexibility can tolerate return temperatures as high as 35°C or deliver glycol solutions as low as -10°C (to -20°C on request). Whilst operating in ambient as high as 46°C or down to -5°C (On request ambients can be as high as 50°C or as low as -20°C)
• The cold water tank keeps outlet water temperature consistent despite varying load conditions
**iC303 - iC305**

**Features**
- Refrigerant R410A
- Hermetic Scroll compressors
- High-efficiency finned coil evaporator with copper tubes and aluminium fins, installed inside the water storage tank
- Axial fans with die-cast aluminium, crescent-shaped blades
- Air-cooled condensers (copper tubes/ aluminium fins) fitted on one side of the chiller
- Storage tank (design pressure 6 barg) complete with P3 pump, filling/drain valve, pressure gauge
- Internal hydraulic bypass between the inlet and outlet connections
- Electronic level sensor with water conductivity function
- High and low refrigerant pressure switches
- Innovative i-Chill microprocessor
- IP44 protection rating
- Phase monitor against phase loss and phase reversal
- Compressor crankcase heater

**Benefits**
- Environmentally-friendly R410A refrigerant
- Cutting-edge evaporator provides high flow rates with low pressure drops
- High-efficiency, energy-saving Scroll compressor
- The i-Chillers flexibility can tolerate return temperatures as high as 35°C or deliver glycol solutions as low as -10°C (to -20°C on request). Whilst operating in ambients as high as 46°C or down to -5°C (On request ambients can be as high as 50°C or as low as -20°C)
- The cold water tank keeps outlet water temperature consistent despite varying load conditions

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**iC408 - iC416**

**Features**
- Refrigerant R410A
- Hermetic Scroll compressors
- High-efficiency finned coil evaporator with copper tubes and aluminium fins, installed inside the water storage tank
- Axial fans with die-cast aluminium, crescent-shaped blades
- Air-cooled condensers (copper tubes/ aluminium fins) fitted on one side of the chiller inclusive of air filter
- Storage tank (design pressure 6 barg) complete with P3 pump, filling/drain valve, pressure gauge
- Internal hydraulic bypass between the inlet and outlet connections
- Electronic level sensor with water conductivity function
- High and low refrigerant pressure switches
- Pressure gauges
- Innovative i-Chill microprocessor
- IP44 protection rating
- Phase monitor against phase loss and phase reversal;
- Compressor crankcase heater

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**Class A, High efficiency version available with oversized condensing coils, scroll compressors and leading high efficiency EC brush-less axial inverter fans.**

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### General data

<table>
<thead>
<tr>
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<th>iC410</th>
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### Features

- Refrigerant R410A
- Hermetic Scroll compressors
- High-efficiency finned coil evaporator with copper tubes and aluminium fins, installed inside the water storage tank
- Axial fans with die-cast aluminium, crescent-shaped blades
- Air-cooled condensers (copper tubes/ aluminium fins) fitted on one side of the chiller inclusive of air filter
- Storage tank (design pressure 6 barg) complete with P3 pump, filling/drain valve, pressure gauge
- Internal hydraulic bypass between the inlet and outlet connections
- Electronic level sensor with water conductivity function
- High and low refrigerant pressure switches
- Pressure gauges
- Innovative i-Chill microprocessor
- IP44 protection rating
- Phase monitor against phase loss and phase reversal;
- Compressor crankcase heater

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### Benefits

- Environmentally-friendly R410A refrigerant
- Cutting-edge evaporator provides high flow rates with low pressure drops
- High-efficiency, energy-saving Scroll compressor
- The i-Chillers flexibility can tolerate return temperatures as high as 35°C or deliver glycol solutions as low as -10°C (to -20°C on request). Whilst operating in ambients as high as 46°C or down to -5°C (On request ambients can be as high as 50°C or as low as -20°C)
- The cold water tank keeps outlet water temperature consistent despite varying load conditions

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### Class A, High efficiency version available with oversized condensing coils, scroll compressors and leading high efficiency EC brush-less axial inverter fans.
**Features**

- Refrigerant R410A
- Hermetic Scroll compressors
- High-efficiency finned coil evaporator with copper tubes and aluminium fins, installed inside the water storage tank
- Axial fans with die-cast aluminium, crescent-shaped blades
- Air-cooled condensers (copper tubes/aluminium fins) fitted on one side of the chiller inclusive of air filter
- Storage tank (design pressure 6 barg) complete with P3 pump, filling/drain valve, pressure gauge
- Internal hydraulic bypass between the inlet and outlet connections
- Electronic level sensor with water conductivity function
- High and low refrigerant pressure switches
- Pressure gauges
- Innovative i-Chill microprocessor
- IP54 protection rating
- Phase monitor against phase loss and phase reversal
- Compressor crankcase heater

**Benefits**

- Environmentally-friendly R410a refrigerant
- Cutting-edge evaporator provides high flow rates with low pressure drops
- High-efficiency, energy-saving Scroll compressor
- The i-Chillers flexibility can tolerate return temperatures as high as 35°C or deliver glycol solutions as low as -10°C (to -20°C on request). Whilst operating in ambients as high as 46°C or down to -5°C (On request ambients can be as high as 50°C or as low as -20°C)
- The cold water tank keeps outlet water temperature consistent despite varying load conditions

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**Features**

- Refrigerant R410A
- Hermetic Scroll compressors
- High-efficiency finned coil evaporator with copper tubes and aluminium fins, installed inside the water storage tank
- Axial fans with die-cast aluminium, crescent-shaped blades
- Air-cooled condensers (copper tubes/aluminium fins) fitted on one side of the chiller inclusive of air filter
- Storage tank (design pressure 6 barg) complete with P3 pump, filling/drain valve, pressure gauge
- Internal hydraulic bypass between the inlet and outlet connections
- Electronic level sensor with water conductivity function
- High and low refrigerant pressure switches
- Pressure gauges
- Innovative i-Chill microprocessor
- IP54 protection rating
- Phase monitor against phase loss and phase reversal
- Compressor crankcase heater

**Benefits**

- Environmentally-friendly R410a refrigerant
- Cutting-edge evaporator provides high flow rates with low pressure drops
- High-efficiency, energy-saving Scroll compressor
- The i-Chillers flexibility can tolerate return temperatures as high as 35°C or deliver glycol solutions as low as -10°C (to -20°C on request). Whilst operating in ambients as high as 46°C or down to -5°C (On request ambients can be as high as 50°C or as low as -20°C)
- The cold water tank keeps outlet water temperature consistent despite varying load conditions
Typical configuration for users suitable for closed circuits

The diagram shows a typical closed circuit layout. Pressurized closed circuit applications (5) always require an expansion vessel.

- i-Chiller units in standard (evaporator in tank) configurations are ideal for such applications, and offer a pressurised automatic fill kit including the expansion tank (option).

### Typical Configuration

**1. Evaporator water inlet/outlet temperature**: 20°C, external air temperature 20°C

**2. Unit with FP pump and ON/OFF control.**

**3. Sound pressure level for full load at 5m and under consumer side and 1m from ground.**

**4. For units with standard power supply, and fans, ON/OFF fans control speed.**

**5. Max external air temperature 40°C (with water temperature 12°C).**

### Capacity correction factors

The capacity correction factors in the following table should be used as a guide only, for accurate selection at conditions differing from the above the selection software should be used.

### Capacity correction factors

#### Evaporator

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### Cooling capacity

#### 3-phase 50 Hz model

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Contact Us

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