



# **NEW i-FC FREE COOLING RANGE & FLEX FINANCIAL SUPPORT - SAVING UP TO 80% ON YOUR COOLING COSTS!**

**PROCESS TEMPERATURE CONTROL SPECIALISTS  
SALES. HIRE. SERVICE.**

## INTRODUCING OUR NEW i-FC FREE COOLING RANGE

- Our i-FC free coolers can be used as a cooling solution in their own right or to provide free cooling for a significant proportion of the year when used in conjunction with a chiller
- Our new range is available with multiple fixed fan speeds, inverter speed control and

EC fans for varying noise applications as well as on low energy systems. The units control panels are designed to offer ease of use with a ‘plug and play’ solution and 4G connectivity.

- They can be configured to meet your individual project requirements such as low noise, space restrictions and aesthetics and integrate with BMS.

i-FC MODEL	COOLING CAPACITY NOMINAL PROCESS CONDITIONS 15/20/10°C
i-FC305	18 kW
i-FC416	52 kW
i-FC535	89 kW
i-FC660	157 kW
i-FC780	208 kW
i-FC7100	259 kW
i-FC065M	232 kW
i-FC105M	384 kW
i-FC115M	435 kW
i-FC160XL	606 kW
i-FC170XL	676 kW
i-FC190XL	746 kW
i-FC240XL	908 kW

# INDEPENDENT OR INTEGRAL SOLUTIONS

Free cooling works with either a chiller with a built-in free cooling coil or a free cooler working in series with a chiller. The latter is more efficient, due to the larger surface area provided by the air cooler.

As ICS Cool Energy Free Coolers can cool the full duty for much larger parts of the year in higher ambient temperatures, they yield much higher energy and cost savings and improved carbon footprint of chilled water systems.

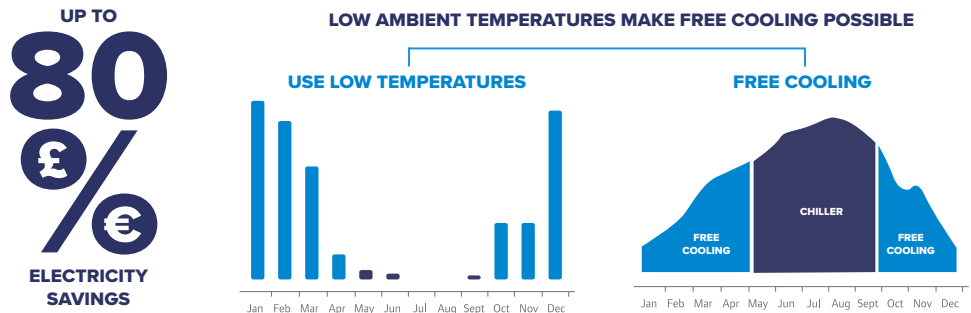
A remote free cooler is designed to do nothing but provide free cooling and has its own purpose built control system and 3-way valve and bypass system and therefore is a simple and reliable way to give maximum savings and quick payback.

As the system is fully packaged, complete with integral controls, 3-way valve & actuator and bypass pipe work, they can be easily installed on existing systems as well as new builds. No communication between the free cooler and chiller is necessary. In typical process cooling systems, chillers can be offloaded for up to 90% of the year.

## BENEFITS OF FREE COOLING

- Reduction in mechanical energy consumption (up to 80%)
- Improved carbon footprint
- Fully offload chillers for up to 90% of the year
- Reduced load on mechanical parts, therefore reduced maintenance cost and extended life of equipment
- Smaller load demands can lessen the depreciation value of the chiller over its lifetime
- It is easy to retrofit (space permitting)
- Payback in as little as three months

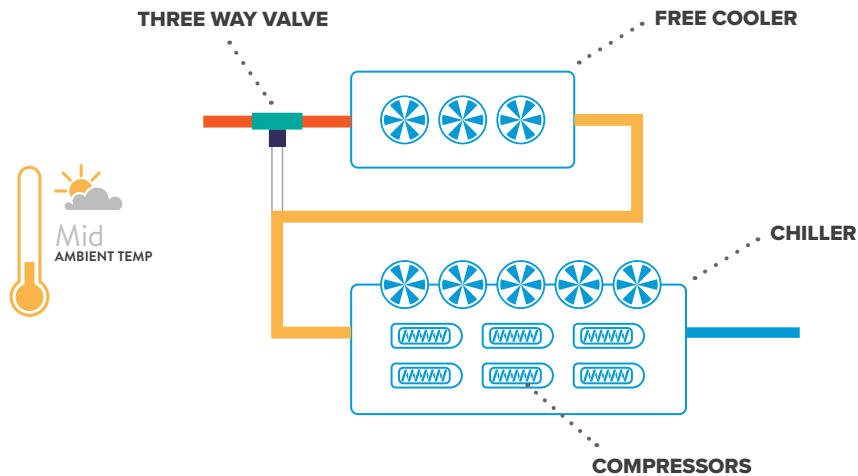
## POTENTIAL ENERGY SAVINGS



# FREE COOLING IN ACTION

When the ambient air temperature drops just 1°C below the process fluid return temperature, a 3-way valve diverts the returning process fluid through the free cooling coil in which the cooler ambient air removes process heat and cools the

returning fluid (partial free cooling), it then flows through the chiller's evaporator where the required set point temperatures are achieved – **easing the demand on your chiller's components and extending their operational life.**



As the ambient air temperature continues to fall, the amount of process heat taken out of the process fluid by the air increases, progressively reducing the load on the chiller. At 5°C below the process supply fluid temperature, all the process heat is removed by the ambient air in the free cooler – **providing full free cooling.**



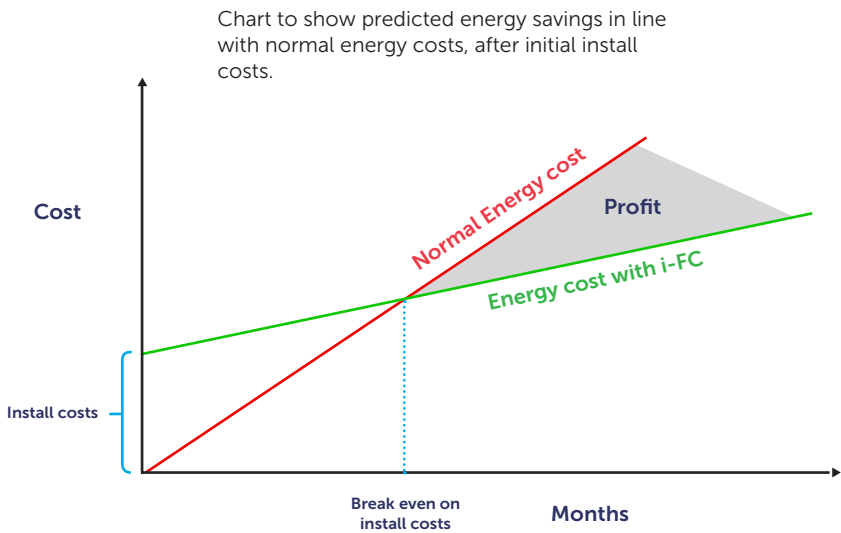
# INTRODUCING THE ICS COOL ENERGY FLEX

Would you like to benefit from energy savings without the need for capital investment? FLEX is our "Fixed Long-term Exchange" program

Our monthly FLEX package provides you with additional running cost reductions versus your existing plant running costs.

## Key features and benefits:

- Fixed, hard-piped install to your process
- Long-term solution
- Energy savings
- Options to exchange & upgrade the equipment as technology improves
- No requirement for capital investment
- Bespoke product for the application
- Monthly or quarterly rental payments
- A minimum 5 year contract
- Fully inclusive cost incorporating warranty repairs for the contract duration
- Maintenance package included & provision of legislative compliance
- Annual cooling circuit fluid analysis
- Mechanical & electrical interconnection




# TRIAL OPTIONS

Would you like to try FLEX first?

- Offers the ability to prove the FLEX concept
- Short term commitment
- Fully inclusive cost incorporating warranty repairs for the contract duration
- Maintenance package included & provision of legislative compliance





Call us on:

**SOUTH: +44 (0) 023 8052 7300**

**NORTH: +44 (0) 01274 214272**

**MIDLANDS: +44 (0) 01675 432270**

**SCOTLAND: +44 (0) 1698 7445 40**

**IRELAND: +353 (0) 4692 52934**

to speak to one of our experienced and  
qualified engineers about free cooling  
for your business.

[WWW.ICSCOOLENERGY.COM](http://WWW.ICSCOOLENERGY.COM)

**#KEEPINGINDUSTRYRUNNING**