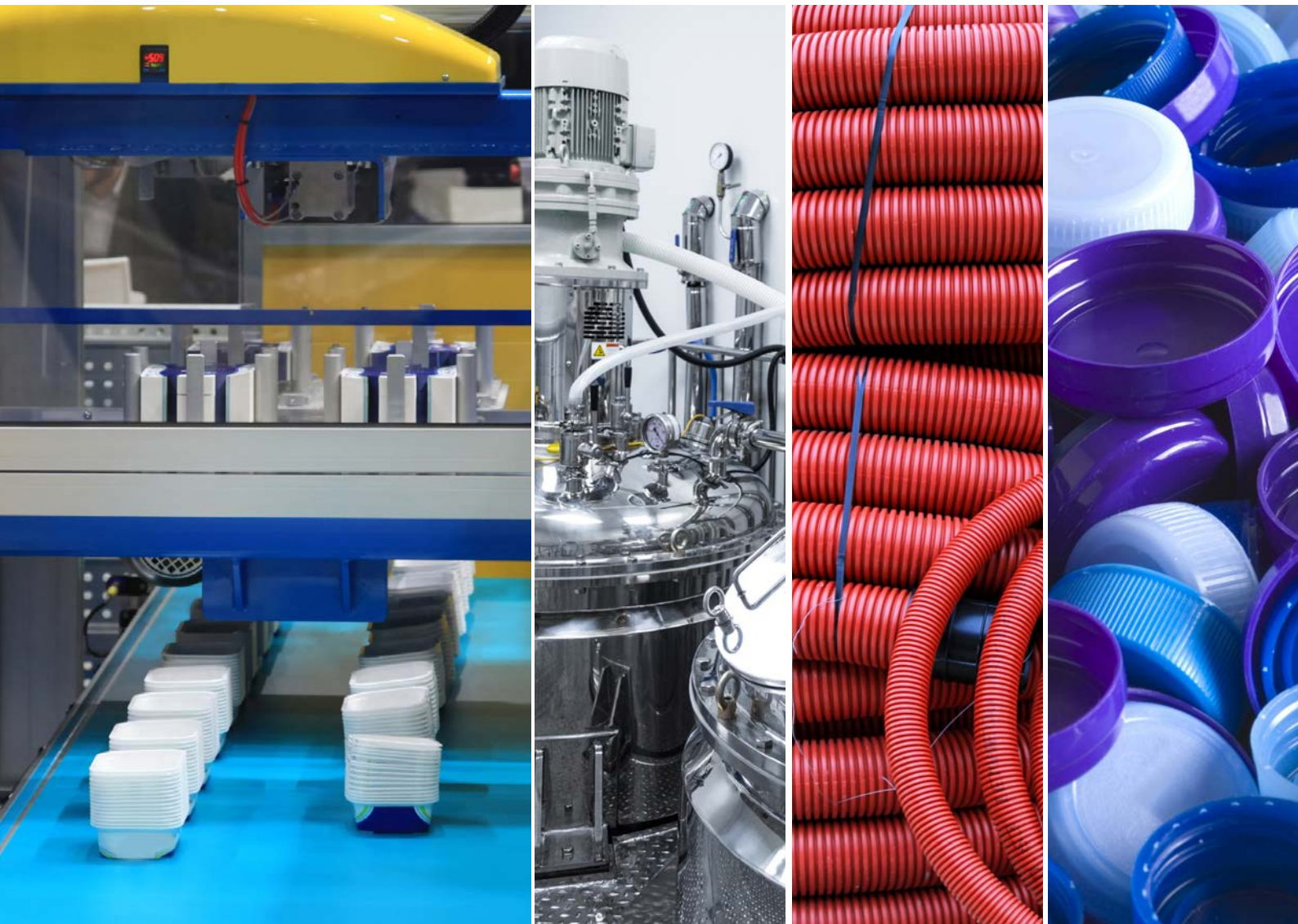


PACKAGED PROCESS TEMPERATURE CONTROL SOLUTIONS



FULLY PACKAGED CHILLERS & TEMPERATURE CONTROL UNITS

-20°C to 400°C | 1 to 469kW



ECODESIGN COMPLIANCE

Any new industrial cooling equipment must meet new minimum energy performance standards (MEPS). Process chillers must meet new Seasonal Energy Performance Ratio (SEPR) metrics and comfort chillers must meet new Seasonal Energy Efficiency Ratio (SEER) values.

When investing in new cooling solutions, we'll provide you with peace of mind that your new equipment meets the latest legislation.

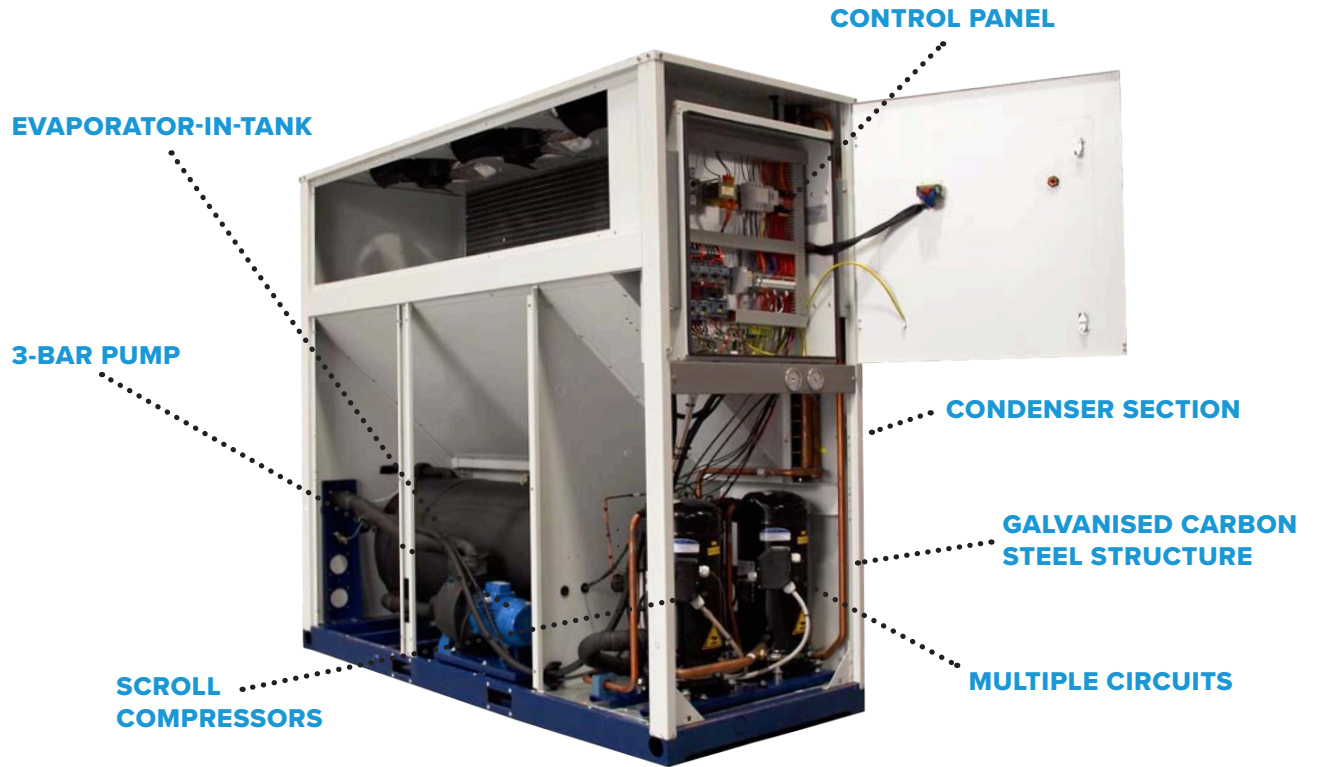
We offer the widest range of cost-effective temperature control solutions in the industry – enabling us to provide you with the best solution to meet your individual requirements.

OUR WIDE RANGE OF SOLUTIONS INCLUDE:

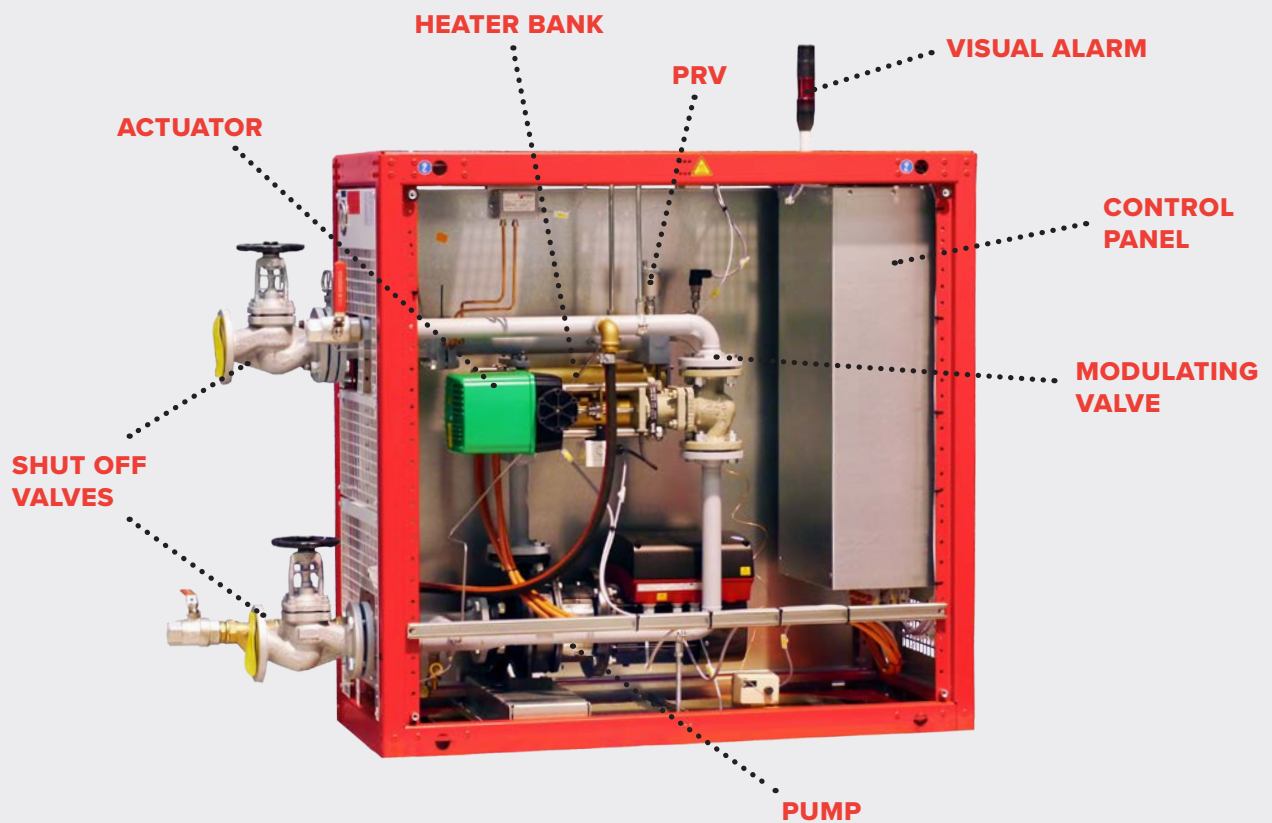
- Packaged Process Chillers from 1 to 469kW
- Packaged TCUs (water and oil) up to 360kW (electric) and 1600kW (steam to water)
- Energy-efficient cooling solutions up to 4MW
- Special process temperature control solutions
- Complete project management from site survey to commissioning
- Aftersales – maintenance, 24/7 technical support and hire contingency programmes

Read on to discover more about our wide range of packaged temperature control solutions or call us on **(UK & NI) 0800 774 7427 - (ROI) +353 (0) 4692 52934** to discuss your temperature control needs.

i-CHILLER



i-TEMP



FULLY PACKAGED CHILLERS

i-CHILLER

-10°C to 30°C | 1 to 469kW

The fully packaged, EcoDesign compliant, air-cooled i-Chiller range is designed specifically for reliable and efficient process cooling.

The i-Chiller's unique evaporator is immersed within a generously sized storage tank. This design ensures safe and reliable operation even during large fluctuations in cooling demand – something often encountered within various industrial applications.

Each unit comes with a 3-bar pump as standard with the option to customise with a 5-bar pump – allowing for demanding industrial applications.



For more information on the i-Chiller range call:
(UK & NI) 0800 774 7427 | (ROI) +353 (0) 4692 52934
www.icscoolenergy.com



ENERGY & PROCESS EFFICIENCY

- High efficiency finned coil in-tank evaporator with copper tubes & aluminium fins allowing for variable flow rates
- Hydraulic circuit includes integral 3-bar pump, drain valve, overflow & water pressure gauge and process connections
- High quality scroll compressor
- Copper tube / aluminium fin condenser coils combined with axial condenser fans



RELIABILITY

- Internal water bypass to protect pump against dead heading
- Phase monitor to protect the unit against phase loss & reversal
- Galvanised, epoxy coated carbon steel structure
- Electrical panel protection rating

EASE OF OPERATION & MAINTENANCE :

- Coil in-tank evaporator reduces chance of blockages due to poor water quality
- Easy to remove and clean condenser filter
- Easy to use and externally visible advanced electronic controller
- Digital input for remote on/off control
- Volt-free contacts for remote general alarm signal
- Mains isolator
- Manual filling kit comprising atmospheric (open) expansion tank

For added reassurance, all units come with a comprehensive 3-year parts warranty as standard with an option to extend to 5 years. Ts & Cs apply.

i-Chiller units are held in-stock for fast delivery and can be customised quickly with various options and modifications to meet your unique requirements – saving you valuable budget and time.



ECODESIGN COMPLIANT



STOCK AVAILABLE IMMEDIATELY



FAST CUSTOMISATION OF STANDARD MODELS



INDIVIDUALLY FACTORY TESTED



EFFICIENT R410A REFRIGERANT



UP TO 5-YEAR WARRANTY



3-BAR PUMP AS STANDARD

THE FULLY PACKAGED i-CHILLER RANGE INCLUDES:

i-CHILLER COMPACT | iC03 - iC10C

From 1.7 to 4.7kW – providing process fluid temperatures from 0°C to 30°C.

- Piston/Rotary compressor operating with R134a/R410a refrigerant
- IP33 electrical panel protection rating
- Available in 4 sizes



i-CHILLER | iC215 - iC780

From 7.2 to 210kW – providing process fluid at temperatures from -10°C to 30°C.

- Scroll compressor(s) operating with R410a refrigerant
- IP44 electrical panel protection rating
- Available in 19 sizes

i-CHILLER MAX

From 230 to 469kW – providing process fluid at temperatures from -10°C to 20°C.

- Scroll compressor(s) operating with R410a refrigerant
- Shell and tube heat exchanger
- IP54 electrical panel protection rating
- Available in 8 sizes



i-CHILLER

7 to 210 kW | -10°C to 30°C

			iC215	iC220	iC303	iC305	iC408	iC410	iC412	iC416
Cooling Capacity (1)	kW		7.31	8.35	13.1	18.9	30.3	37.3	45.4	53.6
Total absorbed power (1)	kW		2.01	2.21	3.45	4.67	7.94	9.00	11.7	13.9
EER (1)	-		3.64	3.78	3.81	4.05	3.81	4.14	3.20	3.87
Cooling Capacity (2)	kW		5.21	5.80	9.37	13.5	22.3	27.7	34.1	40.2
Total absorbed power (2)	kW		2.38	2.40	4.09	5.49	8.99	10.3	13.1	15.5
EER (2)	-		2.19	2.41	2.29	2.47	2.49	2.66	2.60	2.59
Min / max ambient temps. (3)	°C		-5/+46	-5/+43	-5/+46	-5/+45		-5/+44		-5/46
Min / max fluid supply temps.	°C		-10/+30	-10/+30	-10/+30			-10/+30		
Compressor										
Cooling circuits	No.		1		1			1		
Compressors per circuit	No.		1		1			1		
Capacity control	%		0-100		0-100			0-100		
SEPR HT	-		4.78	4.63	4.52		4.50	4.62		4.57
SEPR MT	-		2.59	N/A	2.49	2.67	3.05	3.02	3.04	3.10
Electrical power supply (4)										
Power	V/Ph/Hz		400/3-PE/50		400/3-PE/50			400/3-PE/50		
Auxiliary	V/Ph/Hz		24-230/1/50		24-230/1/50			24-230/1/50		
Maximum absorbed power	kW		3.8	3.95	5.73	7.39	12.04	14.4	18.27	20.52
Maximum absorbed current	A		6.53	6.94	10.22	12.87	20.2	24.58	31.31	37.04
Starting current	A		27.65	33.65	49.78	65.78	113.37	120.37	144.24	178.24
Fan										
Fans number	No.		1		1		1	2		
Total airflow	m³/h		3,350	3,150	6,300	6,100	8,150	14,200	12,400	
Nominal power (per fan)	kW		0.135		0.48			0.71		
Hydraulic group										
P3	Water flow rate (5)	m³/h	1.8/4.8		1.8/6.0		3.6/9.6		7.2/18.0	
	Available pump head pressure (6)	barg	2.9/2.0		3.02/2.1		2.8/1.7		2.8/2.3	
	Nominal absorbed power	kW	0.55		0.75		0.90		1.85	
P5	Water flow rate (5)	m³/h	1.2/4.8		1.2/4.8		3.6/12.6			
	Available pump head pressure (6)	barg	5.2/3.6		5.2/3.6		5.2/3.9			
	Nominal absorbed power	kW	1.10		1.10		2.20			
Tank volume	l		60		115		140	255		
Max working pressure	barg		6		6		6			
Water connections	BSP		¾"		1"		1 ½"			
Sound levels (7)										
Sound power	dB(A)		80.4		81.1		81.6	82.1		82.9
Sound pressure	dB(A)		52.4		53.1		53.6	54.1		54.9
Dimensions & installed weight										
Length	mm		1,284		1,315		1,862			
Width	mm		560		660		761			
Height	mm		795		1,373		1,437			
Weight	kg		206	210	324	346	483	642	656	672

(1) Evaporator outlet / inlet temperatures +15°C/+20°C, external ambient temperature +25°C, total absorbed power includes compressors & fans

(2) Evaporator outlet / inlet temperatures +7°C/+12°C, external ambient temperature +35°C, total absorbed power includes compressors & fans

(3) Standard unit configuration operating with evaporator outlet / inlet temperatures +15/+20°C

(4) Protection class IP54

(5) Minimum / maximum water flow rates achievable by pump

(6) Available head pressure at outlet of unit at the minimum / maximum water flow rates

(7) Sound power determined on basis of measurements taken in accordance with ISO 3744. Sound pressure at 10m average value obtained in free field on a reflective surface at 10m distance from the side of the condenser coils & at a height of 1.6m from the unit support base. Values with tolerance ± 2dB. The sound levels refer to unit operation under full load in nominal conditions.

Unless otherwise specified, the above data refers to unit configuration with standard axial fans & fitted with standard P3 pump.

Data declared according to UNI EN 14511-2013.

SEPR HT: Data declared in compliance with the European Regulation (EU) 2016/2281 with regard to ecodesign requirements for cooling products and high temperature process chillers.

SEPR MT: Data declared in compliance with the European Regulation (EU) 2015/1095 with regard to ecodesign requirements for medium temperature & low temperature process chillers.

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



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