Press Release: Introducing the RC-8 Chiller – A Sustainable Cooling Solution

'Building on our commitment to sustainability, we are proud to unveil the, the UK made, RC-8 Chiller, a cutting-edge solution designed for operational efficiency and environmental conservation to support our customers in the following applications '

- **Manufacturing and Production**: Ideal for cooling processes at production lines (plastics, metals, etc.).
- **Laboratories and Research Facilities**: Precise temperature control for experiments and sample storage.
- **Pharmaceuticals and Biotechnology**: Stable cooling without excessive space requirements.
- **Food and Beverage Industry**: Efficient cooling for equipment, ingredients, and packaging.
- **Printing and Packaging**: Versatile cooling for ink curing and laminating.
- **Plastics and Injection Molding**: Regulates temperatures during production.
- **Electronics Manufacturing**: Cools circuit boards and soldering equipment.

The RC-8's energy efficiency and mobility make it valuable beyond these sectors.

Technical Features

Designed for Efficiency

The RC-8 Chiller utilizes a low GWP (Global Warming Potential) R513a refrigerant, exemplifying our commitment to green technology. By doing so, we ensure both high performance and minimal environmental impact. Efficiency is at the core of our design.

Compact and Versatile

With its small footprint and lightweight design, the RC-8 Chiller is ideally suited for standalone applications. It shines particularly at the end of production lines where space and efficiency are paramount. Its mobility allows for easy relocation as needed.

Innovative Cooling Capacity

The RC-8 Chiller boasts a robust cooling capacity of 7.93 kW at 15C in a maximum ambient of 25C. Engineered with precision, it meets diverse cooling needs across various industries. Whether it's for industrial processes, laboratories, or other applications, the RC-8 delivers reliable performance.

Energy Efficiency

Our commitment to energy conservation is evident in the RC-8's Energy Efficiency Ratio (EER) of 3.52. This benchmark sets high standards for electrical efficiency, reducing energy consumption while maintaining optimal cooling performance.

Operational Details

- **Axial Fans**: Equipped with two axial fans, the RC-8 ensures efficient heat dissipation.
- **Water Tank**: The 35-litre water tank provides stability and consistent cooling.
- **Low Noise Levels**: Designed for optimal sound levels at 67 dB(A), the RC-8 integrates seamlessly into production environments without disrupting workflows.

Components

1 A SIMPLE AND INTUITIVE USER INTERFACE

Uses PID for close temperature control.
Wireless connectivity with devices via Bluetooth, thus avoiding the need for additional wiring in the field. Dedicated App for maintenance technicians.

2 HIGH PERFORMANCE PLATE HEAT EXCHANGER

Compact design high efficiency plate evaporator,
Non ferrous braized stainless steel plate construction.

3 NON FERROUS PERIPHERAL PUMP

Brass pump body construction guarantees against the formation of rust and oxidation.

4 HIGH EFFICIENCY SCROLL COMPRESSOR

Energy saving advanced scroll technology designed for quite operation with high adaptability to ambient temperature, while maintaining high efficiency.

5 HIGH PERFORMANCE FINNED CONDENCERS

Energy saving design, adapting technological applications able to withstand severe environmental conditions.

6 AXIAL FANS

High air volume flow across finned coil, quiet in operation, low energy costs.

Safety and Compliance

R513a is categorised as non-flammable (A1) and has 25% of the CO2 equivalent of R410a.

Please note that the declared cooling efficiency does not take into account the pump and fan motor power input (where provided). The Eco Design Regulation EU 2016/2281does not apply to this chiller.

The RC-8 Chiller represents a leap forward in our quest for sustainable cooling solutions. It combines environmental benefits with unparalleled performance and safety.

Chiller Data		**RC4-1**	**RC8-1**
Cooling capacity	kW	4.10	7.93
Compressor power Input	kW	1.24	2.25
EER (1)		3.30	3.52
Compressor type		Rotary	Scroll
No off compressors		1	1
No of refrigerant circuits		1	1
Refrigerant type		R513A	R513A
Fan type		Axial	Axial
No of fans		1	2
Fans power input	kW	0.08	0.16
Total air flow	m3/h	1537	3074
Pump Type		Peripheral impeller	Peripheral impeller
Pump power input	kW	0.30	0.30
Water tank volume	Litres	35	35
Water flow rate	l/min	10	23.3
Water nominal pressure	bar	1.1	1.2
Water connections		½”	½”
Sound pressure (2)	dB(A)	63	67
Power supply		220/1/50	220/1/50
Maximum absorbed current	A	8.9	16.9
Shipping weight	K/g	125	132
Width	mm	1080	1080
Depth	mm	700	700
Height	mm	970	970

(1) Water inlet/outlet temperature 20/15°C, @ External air temperature 25°C
(2) Sound pressure at 3 M in open field

For inquiries or to learn more about the RC-8 Chiller, please call 01489 797 100 or email sales@refcool.co.uk

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Feel free to reach out if you have any further questions or need additional information! 🌟