

## Smarter Cooling for Homes & Offices

Experience next-generation air conditioning with our Cooling Tower Integrated Chiller System — a powerful and energy-efficient solution designed for modern homes, offices, villas, commercial spaces, and multi-room environments.

Unlike conventional split AC systems that require separate outdoor units for every room, our centralized cooling solution uses a single high-efficiency chiller and integrated cooling tower to power multiple indoor cooling units seamlessly.

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### One System. Multiple Rooms.

Cool multiple rooms, cabins, halls, or office spaces using a single centralized cooling source.

Ideal for:

- Homes & Villas
- Office Spaces
- Commercial Buildings
- Farmhouses
- Modular Workspaces
- Seasonal Structures & Portable Buildings

The modular design allows flexible expansion as your cooling needs grow

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### High Energy Efficiency through Cooling Tower Integration

At the core of the system is an integrated cooling tower that significantly improves thermal efficiency.

By rejecting heat through water-based cooling instead of conventional air-cooled condensers, the system operates at:

- Lower condensing temperatures
- Reduced compressor load
- Higher system COP (Coefficient of Performance)
- Lower electricity consumption

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### Compact & Space Saving

Traditional air conditioning systems require multiple outdoor condenser units, consuming valuable space and creating heat and noise around the building.

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### Designed for Serviceability, Customisation and Repairability

Modular access panels, standardized components, and a rugged build enable easy maintenance and reliable long-term operation.

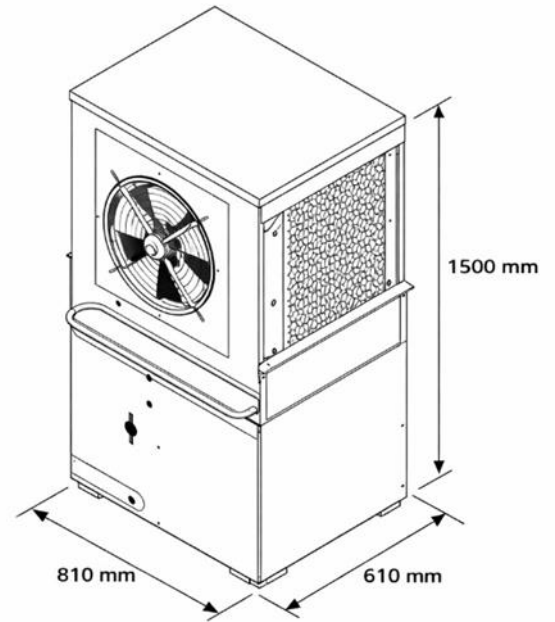
Advanced PLC-based controls offer best-in-class performance with flexibility for application-specific customization.

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***A compact, scalable, and efficient cooling solution—engineered to deliver performance where it matters most.***

## Specification

<b>Model</b>	<b>CTC-10</b>						
<b>Power rating</b>	<b>2.2kW, 230 V, 50 Hz, 1P (Single Phase)</b>						
<b>Dimension (l x w x h)</b>	<b>650 x 650 x 795 mm (approx.)</b>						
<b>Dry weight</b>	~70 kg						
<b>Wet weight</b>	~270 kg						
<b>Application</b>	<b>AC, Chiller, Solar Cold Room</b>						
<b>Compressor</b>	CR30						
Compressor Type	Reciprocating, Connecting Rod Type						
Refrigerant	R-407C						
Rated Supply	230 V, 50 Hz, 1P (Single Phase)						
Power	1.75 kW						
Others	Over heat protector						
<b>Condenser</b>							
Type	Water Cooled						
Water consumption	Max: 15L per hour						
<b>Chiller Output</b>							
Temperature	-15° C to +5° C						
Flow Rate	Head (m)	6	9	10	12	14	15
	Flow (LPH)	1300	1100	1080	800	648	600
Pump Power rating	0.18 kW						
<b>Thermal Energy Storage</b>	Optional						
Size	200 l insulated drum						
Energy Capacity	~150 kg of ice						
	Control Temp	-5 to 10° C		10 to 60° C			
	Backup Time @ 1 Tr	24 hr		3 hr			



<b>Model</b>	<b>Indoor Unit</b>	
Remote Control	Yes	
Heat Transfer rate	6 kW	
Power	230 V, 50 Hz, 1P (Single Phase)	
Air flow	~700 CFM	

