

# AIR COOLED WATER CHILLERS



Air Conditioners & Chillers



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# AIR COOLED WATER CHILLERS

10 TR



30 TR



Compressors



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## Features

- Customized design.
- Compact construction.
- Durable & Resistant to harsh weather conditions.
- Design based on high ambient conditions.
- Solid base for easier transportation and handling.
- Easy maintenance.



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# Key Features of Our Air Cooled Chillers

Our air-cooled chillers offer these simple yet essential features to meet your cooling requirements effectively.



## Evaporator Variety

Pick from shell & tube or plate heat exchanger options as required. (SS shell & tube, polypropylene shell - titanium tube)



## Corrosion-Resistant Fins

Our condenser fins are Heresite - coated for durability.



## Domestic Water Chillers

Enhance your home's comfort with our domestic water chillers ranging from 1 TR to 5 TR.



**Safety Assured:** Flow switch, phase monitor, high and low-pressure, and over-heating protection are standard.



**Quality Components:** Utilizes top-notch components from trusted brands such as Emerson and Danfoss for reliability.



**Sturdy Build:** Features galvanized frames and panels, creating a stylish and robust structure.

## Safety Features

- Phase sequence, missing phase protection
- Compressor overheating protection
- High and low pressure protection
- Over current protection
- Flow switch protection

## Optional Features



Circulation Pump



Glycol Compatibility



External Pump & Tank



Refrigerant R407c / R22

## Chiller Applications

Explore the diverse applications of our air-cooled chillers, designed for both residential and industrial needs. From ensuring a refreshing home to optimizing large-scale processes, our chillers deliver reliable performance and efficient cooling. Check out below for applications in both domestic and industrial settings.



Domestic water cooling



Healthcare Facilities



Agriculture



Food Processing



Dairy products



Plastics Industry

## Technical Specifications

Cooling Capacity	Model	CHU - 018	CHU - 024	CHU - 036	CHU - 060	CHU - 090	CHU - 120	CHU - 180	CHU - 240	CHU - 300	CHU - 360	CHU - 480	CHU - 600	CHU - 720
		18000 (1.5)	24000 (2)	36000 (3)	60000 (5)	90000 (7.5)	120000 (10)	180000 (15)	240000 (20)	300000 (25)	480000 (40)	360000 (30)	480000 (40)	600000 (50)
Compressor	Type *	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Semi-Hermetic Reciprocating	
	Quantity	1	1	1	1	1	1 or 2	2	2	2	2	2	2	2
	Refrigerant **	R22												
	Type	R407C												
Condenser	Type	Aluminum fin, Copper tube condenser with axial fan and protective grid.												
	Condenser Fan Discharge	Top Discharge												
	Quantity	1	1	1	1	2	2	3	3	3	3	6	6	6
	Air flow volume m <sup>3</sup> /hr	3500	3500	7155	10600	21200	21200	31800	37440	37440	37440	74880	74880	74880
	Fan Speed rpm	830	830	1320	1400	1400	1400	1400	1380	1380	1380	1380	1380	1380
	Fan Dia mm	460	460	500	550	550	550	550	630	630	630	630	630	630
Evaporator	Type ***	Stainless Steel Shell & Copper Tubes												
	Min. & Max. Entering Water temp. °C	8°C & 40°C												
	Water flow gpm	3.6	4.8	7.2	12	18	24	36	48	60	72	96	120	144
	Hydraulic Connection in	3/4	3/4	3/4	1	1 1/2	1 1/2	2	2	2	3	3	3	3
	No. of refrigerant circuits	1	1	1	1	1	1 or 2	2	2	2	2	2	2	2
	Max. water side operating Pressure kPa	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Water Pump **** hp	0.5	0.5	0.5	0.8	1	1	2	2	3	4	4	5	7.5
	Power Supply V-ph-Hz	230 - 1 - 50												
Electrical Data	Voltage Range V	220 - 230												
	Power Input kW	2.3	3	4	6	10	12	19	24	32	37	48	60	75
	Operating Current drawn A	8.5	10.5	6	10.5	18	23	34	46	55	64	92	110	135
	Length mm	940	940	760	970	1530	1530	2230	2490	2490	2490	3300	3300	3300
	Width mm	360	360	760	770	810	810	1010	1120	1120	1120	1780	1780	1780
	Height mm	1020	1020	1490	1330	1750	1750	1850	2000	2000	2000	2020	2020	2020
	Net Weight kg	85	90	140	170	350	420	475	800	900	950	2200	2400	2600



60 TR



5 TR



1.5 TR



**Notes:**  
 Nominal Cooling Capacity are based on standard conditions of 35°C ambient, Entering & leaving temperature 12°C and 7°C.  
 Please be aware that product specifications are subject to change for ongoing product enhancements and improvements.  
 \*The compressor can be customized to Scroll or Piston based on the client's requirements, leading to corresponding adjustments in the technical specifications.  
 \*\*The refrigerant gas can be customized to R407c or R22 based on the client's requirements, leading to corresponding adjustments in the technical specifications.  
 \*\*\*Optional evaporator configurations include Plate type, Shell & tube type (SS shell - tube, polypropylene shell - titanium tube) which can be customized to meet the customer's specific requirements.  
 \*\*\*\*Circulation pumps are not included in the standard chiller configuration and can be added as per customer requirements.