

UNIVERSAL

CHILLING SYSTEMS

UCS-30AR AIR COOLED PHYSICAL DATA

Cooling Capacity	kcal/h		93200
	BTU/h		369,900
	Nominal Tonnage		30RT
	Outlet Water Temp.		50°F
	Condensation Temp.		122°F
Power Supply			3PH-480V-60HZ
Max Amp		A	88.0
Total Power Input		HP	67.0
Power Supply Cable Diameter		mm ²	3×35+2×16
Safety Protection Device			Overload, Inverse Phase, High/Low Pressure, Water Flow, Water Level & Anti-Freeze Protection
Refrigerant	Type		R410A
Compressor	Start Mode		Direct start
	Type		Fully-Hermetic Scroll Type
	Qty		4
	HP		13.5×4
	RLA (Running Load Amp)		15.1×4
Fan	Qty		6
	Type		External Rotar Axial Fan
	Power	HP	0.9×6
	Current	A	1.3×6
	Heat Rejection	BTU	/
	Volume Air Flow	CFM	23500
Condenser	Type		Finned Tubes
	Subcooling		9°F
	Heat Rejection	BTU	496000
Evaporator	Type		Dry Shell and Tube Type
	Subcooling		9°F
	Heat Rejection	BTU	369,900
	Cooled Water Flow	GPM	82.0
	Water Pressure Drop	PSI	≤12
Energy Adjust Mode			100%-75%-50%-25%
Throttling Device	Mode		Thermal expansion valve
Pipe	Water Outlet		MNPT 3"
	Water Inlet		MNPT 3"
Water Pump	Flow	GPM	82
	Head	PSI	50.8
	Power	HP	5.5
Water Tank	Capacity	GAL	109
Sound Pressure	DBA		75

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Programming Controller	Display	Touch Screen Digital temperature display microcomputer controller
	Output	GW53
	Output Choice	Relay
	Temp Control Range °F	+41°F ~+95°F
	Temp Control Accuracy°F	±3.6°F
Dimensions	Inches (LxWxH)	110×64×81.75
Weight	Lbs	3,448 Lbs

NOTES:

- 1 Cooling tons based on 10°C(50°F) leaving coolant and 35°C(95°F) ambient air.
Chilled water work allowed temperature range: 5°C~35°C(41°F~95°F). Chilled water in and out
- 2 temperature difference: 3°C~8°C(37.4°F~46.4°F); Allowed ambient temperature range: -20°C~40°C(-4°F~104°F).
- 3 Power supply:3PH-460V-60Hz, Allowing the voltage fluctuate ±10%, allow phase voltage difference ±2%, Allow the frequency range ±0.2Hz.