

# UNIVERSAL

## CHILLING SYSTEMS

### UCS-20AR3 AIR COOLED PHYSICAL DATA

Cooling Capacity	kcal/h		63100
	BTU/h		250,400
	Nominal Tonnage		20RT
	Outlet Water Temp.		50°F
	Condensation Temp.		122°F
Power Supply			3PH-460V-60HZ
Max Amp		A	48.0
Total Power Input		HP	37.0
Power Supply Cable Diameter		mm <sup>2</sup>	3×10+2×4
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		2
	HP		15×2
	RLA (Running Load Amp)		16.7×2
Fan	Qty		2
	Type		External Rotar Axial Fan
	Power	HP	1×2
	Current	A	1.6×2
	Heat Rejection	BTU	/
	Volume Air Flow	CFM	14100
Condenser	Type		Finned Tubes
	Subcooling		9°F
	Heat Rejection	BTU	322,000
Evaporator	Type		Dry Shell and Tube Type
	Subcooling		9°F
	Heat Rejection	BTU	250,400
	Cooled Water Flow	GPM	55.5
	Water Pressure Drop	PSI	≤12
Energy Adjust Mode			100%-50%
Throttling Device	Mode		thermal expansion valve
Pipe	Water Outlet		MNPT 2"
	Water Inlet		MNPT 2"
Water Pump	Flow	GPM	55.5
	Head	PSI	66
	Power	HP	5.5
Water Tank	Capacity	GAL	65
Sound Pressure	DBA		74

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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)	92x44x85
Weight	lbs	2160(For Reference)

### NOTES:

- 1 Cooling tons based on 10°C (50°F) leaving coolant and 35°C (95°F) ambient air.
- 2 Chilled water work allowed temperature range: 5°C~35°C(41°F~95°F). Chilled water in and out 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.