UNIVERSAL
CHILLING SYSTEMS

UCS-10AR2 AIR COOLED
PHYSICAL DATA

Cooling Capacity	10^3kcal/h		31500
	BTU/h		125,200
	Nominal Tonnage		10RT
	Outlet Water Temp.		50℉
	Condension Temp.		122°F
Power Supply			3PH-460V-60HZ
Max Amp		A	24.0
Total Power Input		HP	18.0
Power Supply Cable Diameter		Mm²	3×6+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		1
	HP		15
	RLA (Running Load Amp)		16.7
Fan	Qty		2
	Type		External Rotar Axial Fan
	Power	HP	0.9×2
	Current	A	1.3×2
	Heat Rejection	BTU/h	162410
	Volume Air Flow	CFM	7000
Condenser	Type		Finned Tubes
	Subcooling		9℉
	Heat Rejection	BTU/h	162410
Evaporator	Type		Dry Shell and Tube Type
	Subcooling		9℉
	Heat Rejection	BTU/h	125,200
	Cooled Water Flow	GPM	27.8
	Water Pressure Drop	PSI	≦12
Energy Adjust Mode			100%
Throttling Device	Mode		thermal expansion valve
Pipe	Water Outlet		NPT 2"
	Water Inlet		NPT 2"
Water Pump	Flow	GPM	27.7
	Head	PSI	41.3
	Power	HP	1.5
Water Tank	Capacity	G	25

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Sound Pressure at 1 meter	DBA	72
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)	64" x 32" x 74"
Weight	lbs	1,036

NOTES:

1 Cooling tons based on 10℃(50℉) leaving coolant and 35℃(95℉) ambient air；Water side fouling coefficient of 0.086m2•℃/kW.

2 Chilled water work allowed temperature range: 5℃～35℃(41℉～95℉). Chilled water in and out temperature difference: 3℃～8℃(37.4℉～46.4℉); Allowed ambient temperature range: -10℃～40℃(14℉～104℉).

3 This machine applied for standard working condition, must use clean running water as refrigerating medium

4 Power supply:3PH-460V-60Hz, Allowing the voltage fluctuate ±10%, allow phase voltage difference ±2%, Allow the frequency range ±0.2Hz.

5 Actual head = Pump head-Interior head loss（1mH2O=9.8KPa）