

# UNIVERSAL

## CHILLING SYSTEMS

### UCS-05AR2 AIR COOLED PHYSICAL DATA

Cooling Capacity	10 <sup>3</sup> kcal/h		15750
	BTU/h		62,600
	Nominal Tonnage		5RT
	Outlet Water Temp.		50°F
	Condensation Temp.		122°F
Power Supply			3PH-460V-60HZ
Max Amp		A	12.0
Total Power Input		HP	9.0
Power Supply Cable Diameter		Mm <sup>2</sup>	3x4+2x4
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		<b>COPELAND</b> Fully-Hermetic Scroll Type
	Qty		1
	HP		7.5
	RLA (Running Load Amp)		9.3
Fan	Qty		2
	Type		External Rotar Axial Fan
	Power	HP	0.3x2
	Current	A	0.4x2
	Heat Rejection	BTU	82040 BTU/h
	Volume Air Flow	CFM	3500
Condenser	Type		Aluminum Finned and Copper Tube Type
	Subcooling		9°F
	Heat Rejection	BTU	82040 BTU/h
Evaporator	Type		Dry Shell and Tube Type
	Subcooling		9°F
	Heat Rejection	BTU	62,600
	Cooled Water Flow	GPM	14.0
	Water Pressure Drop	PSI	≤12
Energy Adjust Mode			100%
Throttling Device	Mode		Thermal Expansion Valve
Pipe	Water Outlet		NPT 1"
	Water Inlet		NPT 1"
Water Pump	Flow	GPM	14
	Head	PSI	40.6
	Power	HP	1.0
Water Tank	Capacity	GAL	15

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Sound Pressure at 1 meter	DBA	68
Programming Controller	Display	Touch Screen Digital temperature display microcomputer controller
	Output	GW53
	Output Choice	Relay
	Temp Control Range °F	+41° ~+95°
	Temp Control Accuracy°F	±3.6
Dimensions	inches (LxWxH)	57" x 26.50" x 59"
Weight	lbs	618

### NOTES:

- 1 Cooling tons based on 10°C (50°F) leaving coolant and 35°C (95°F) ambient air; Water side fouling coefficient of 0.086m<sup>2</sup>•°C/kW.
- 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: -10°C ~40°C (14°F ~104°F).
- 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 (1mH<sub>2</sub>O=9.8KPa)

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