

UNIVERSAL

CHILLING SYSTEMS

UCS-10AR-3 AIR COOLED PHYSICAL DATA

Cooling Capacity	kcal/h		31500
	BTU/h		125,200
	Nominal Tonnage		10RT
	Outlet Water Temp.		50°F
	Condensing Temp.		122°F
Power Supply			3PH-460V-60HZ
Max Amp		A	24.0
Total Power Input		HP	18.0
Power Supply Cable Diameter		mm ²	3x6+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		Fully-Hermetic Scroll Type
	Qty		1
	HP		15
	RLA (Running Load Amp)		16.7
Fan	Qty		2
	Type		External Rotar Axial Fan
	Power	HP	0.9x2
	Current	A	1.3x2
	Heat Rejection	BTU/h	/
	Volume Air Flow	CFM	7000
Condenser	Type		MCHE
	Subcooling		9°F
	Heat Rejection	BTU/h	162410
Evaporator	Type		Dry Shell and Tube Type
	Subcooling		9°F
	Heat Rejection	BTU/h	125,200
	Cooled Water Flow	GPM	27.7
	Water Pressure Drop	PSI	≦ 12
Energy Adjust Mode			100%
Throttling Device	Mode		thermal expansion valve
Pipe	Water Outlet		MNPT 2"
	Water Inlet		MNPT 2"
Water Pump	Flow	GPM	27.7
	Head	PSI	41.3
	Power	HP	1.5
Water Tank	Capacity	GAL	38
Sound Pressure	DBA		72

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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)	64x32x72
Weight	lbs	1210(For Reference)

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.

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