

UNIVERSAL

CHILLING SYSTEMS

UCS-40V AIR COOLED PHYSICAL DATA

Cooling Capacity	kcal/h		126200
	BTU/h		500,900
	Nominal Tonnage	RT	40
	Outlet Water Temp.	°F	50
	Condensation Temp.	°F	122
Power Supply			3PH-480V-60HZ
Max Amp		A	97.0
Total Power Input		HP	75
Power Supply Cable Diameter		mm ²	3x35+2x10
Safety Protection Device			Overload, Inverse Phase, High/Low Pressure, Water Flow, Water Level & Anti-Freeze Protection
Refrigerant	Type		R410A
	Charge	Lbs	100
Compressor	Start Mode		Direct start
	Type		Copeland Fully-Hermetic Scroll Type
	Qty		4
	HP		15x4
	RLA (Running Load Amp)		16.7x4
	LRA(Locked Rotor Amp)		125x4
Fan	Qty		6
	Type		External Rotar Axial Fan
	Power	HP	1.4x6
	Current	A	2x6
	LRA	A	12x6
	Heat Rejection	BTU	/
	Volume Air Flow	CFM	35000
Condenser	Type		Finned Tubes
	Subcooling.	°F	9
	Heat Rejection	BTU	648300
Evaporator	Type		Dry Shell and Tube Type
	Subcooling.	°F	9
	Heat Rejection	BTU	500,900
	Cooled Water Flow	GPM	112.1
	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	112.1
	Head	PSI	65.0
	Power	HP	7.5
	LRA	A	66.0

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Water Tank	Capacity	GAL	128
Sound Pressure	DBA		75
Programming Controller	Display		Touch Screen Digital temperature display microcomputer
	Output		-
	Output Choice		Relay
	Temp Control Range °F		+41 ~+95
	Temp Control Accuracy °F		±3.6
Dimensions	inches (LxWxH)		119x75x84(For Reference)
Weight	lbs		3970(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).
- 2 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.