

UNIVERSAL[®]

CHILLING SYSTEMS

UCS-ALPA40 AIR COOLED

PHYSICAL DATA

Cooling Capacity	kcal/h		126420
	BTU/h		501340
	Nominal Capacity	RT	42
	Outlet Water Temp.	°F	50
	Condensation Temp.	°F	122
Power Supply			3PH-460V-60HZ
Max Amp		A	117
Total Power Input		HP	54
Power Supply Cable Diameter		mm ²	3 x 25 + 16 mm ² (Copper)
Safety Protection Device			Overload, Inverse Phase, High/Low Pressure, Water Flow, Water Level & Anti-Freeze Protection
Refrigerant	Type		R-454B
	Charge	Lbs	31 lbs (each circuit)
Compressor	Start Mode		Direct start
	Type		Scroll Type
	Qty		4
	HP		48
	RLA (Rated Load Amp)		20.7 (each comp)
	LRA(Locked Rotor Amp)		142 (each comp)
Fan	Qty		6
	Type		External Rotar Axial Fan
	Power	HP	1x6
	Current	A	3.9 (each fan)
	LRA	A	26.7 (each fan)
	Volume Air Flow	CFM	28252
Condenser	Type		Copper - Alluminium
	Subcooling	°F	41
Evaporator	Type		Shell and Tubes
	Superheat	°F	44
	Cooled Water Flow	GPM	92.4
	Water Pressure	PSI	44
Energy Adjust Mode			100%-75%-50%-25%-0%
Throttling Device	Mode		thermal expansion valve
Pipe	Water Outlet		MNPT 3"
	Water Inlet		MNPT 3"

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Water Pump	Flow	GPM	92.4
	Head	PSI	44.0
	LRA	A	9
	Power	HP	5.5
Water Tank	Capacity	GAL	92.5
Sound Pressure at 1 meter	DBA		53
Programming Controller	Display		Emerson Dixell Onboard LCD Controller
	Controller		microcomputer controller
	Temp Control Range °F		+41 ~+95
	Temp Control Accuracy°F		±3.6
Dimensions	inches (LxWxH)		133.46x66.14x84.64
Weight	lbs		3925(For Reference)

NOTES:

- 1 Cooling capacity based on 5°C(41°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 (5.4°F~14.4°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.