

UNIVERSAL

CHILLING SYSTEMS

UCS-10V AIR COOLED PHYSICAL DATA

Cooling Capacity	kcal/h		31500
	BTU/h		125,200
	Nominal Tonnage	RT	10
	Outlet Water Temp.	°F	50
	Condensing Temp.	°F	122
Power Supply			3PH-460V-60HZ
Max Amp		A	24.0
Total Power Input		HP	18.0
Power Supply Cable Diameter		mm ²	3x4+2x4
Safety Protection Device			Overload, Inverse Phase, High/Low Pressure, Water Flow, Water Level & Anti-Freeze Protection
Refrigerant	Type		R410A
	Charge	Lbs	25
Compressor	Start Mode		Direct start
	Type		Copeland Fully-Hermetic Scroll Type
	Qty		1
	HP		15
	RLA (Running Load Amp)		16.7
	LRA(Locked Rotor Amp)		125
Fan	Qty		2
	Type		External Rotar Axial Fan
	Power	HP	1x2
	Current	A	1.4x2
	LRA	A	8.4x2
	Heat Rejection	BTU/h	/
	Volume Air Flow	CFM	7000
Condenser	Type		MCHE
	Subcooling	°F	9
	Heat Rejection	BTU/h	162410
Evaporator	Type		Dry Shell and Tube Type
	Subcooling	°F	9
	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"

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Water Pump	Flow	GPM	27.7
	Head	PSI	41.3
	Power	HP	1.5
	LRA	A	13.2
Water Tank	Capacity	GAL	38
Sound Pressure	DBA		72
Programming Controller	Display		Touch Screen Digital temperature display microcomputer controller
	Output		-
	Output Choice		Relay
	Temp Control Range °F		+41 ~+95
	Temp Control Accuracy°F		±3.6
Dimensions	inches (LxWxH)		64x32x72(For Reference)
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).
- 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.