

# UNIVERSAL

## CHILLING SYSTEMS

### UCS-40W WATER COOLED CHILLER PHYSICAL DATA

Cooling Capacity	kcal/h		121000
	BTU/h		480400
	Nominal Tonnage.	RT	40
	Outlet Water Temp.	°F	50
	Condensation Temp.	°F	104
Power Supply			3PH-460V-60HZ
Max Amp		A	101
Total Power Input		HP	49
Power Supply Cable Diameter			AWG 3
Safety Protection Device			Overload, Inverse Phase, High/Low Pressure, Water Flow, Water Level & Anti-Freeze Protection
Refrigerant	Type		R410A
	Charge	Lbs	60.0
Compressor	Start Mode		Direct start
	Type		Scroll Type
	Qty		4
	HP(each)		10
	RLA (each)		22.0
	LRA(each)		125
Condenser	Type		tube and shell
	Subcooling	°F	9
	Heat Rejection	BTU/h	626531
	Cooling Water Flow	GPM	133
	Water Pressure Drop	PSI	7
Evaporator	Type		tube and shell
	Superheat	°F	9
	Heat Rejection	BTU/h	480,477
	Chilled Water Flow	GPM	107
	Water Pressure Drop	PSI	7
Energy Adjust Mode			100%-50%-0%
Throttling Device	Mode		thermal expansion valve
Pipe	Chilled Water Inlet/Outlet		MNPT 3"
	Cooling Water Inlet/Outlet		MNPT 3"
Water Pump	Flow	GPM	107
	Head	PSI	72.5
	LRA	A	51.6
	Power	HP	7.3
Water Tank	Capacity	GAL	106
Sound Pressure	DBA		65

# UNIVERSAL

## CHILLING SYSTEMS

Programming Controller	Display	LCD display
	Controller	microcomputer controller
	Temp Control Range °F	41°F ~95°F
	Temp Control Accuracy°F	±3.6°F
Dimensions	inches (LxWxH) (For Reference)	102x51x70
Weight	lbs (For Reference)	2,207

### NOTES:

- 1 Cooling tons based on 10°C(50°F) chilled water outlet and 30°C(86°F) cooling water inlet.  
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.