

UNIVERSAL[®]

CHILLING SYSTEMS

UCS-10AR3 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	AWG 11
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		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	0.6×2
	Current	A	1.0×2
	LRA	A	6.0×2
	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

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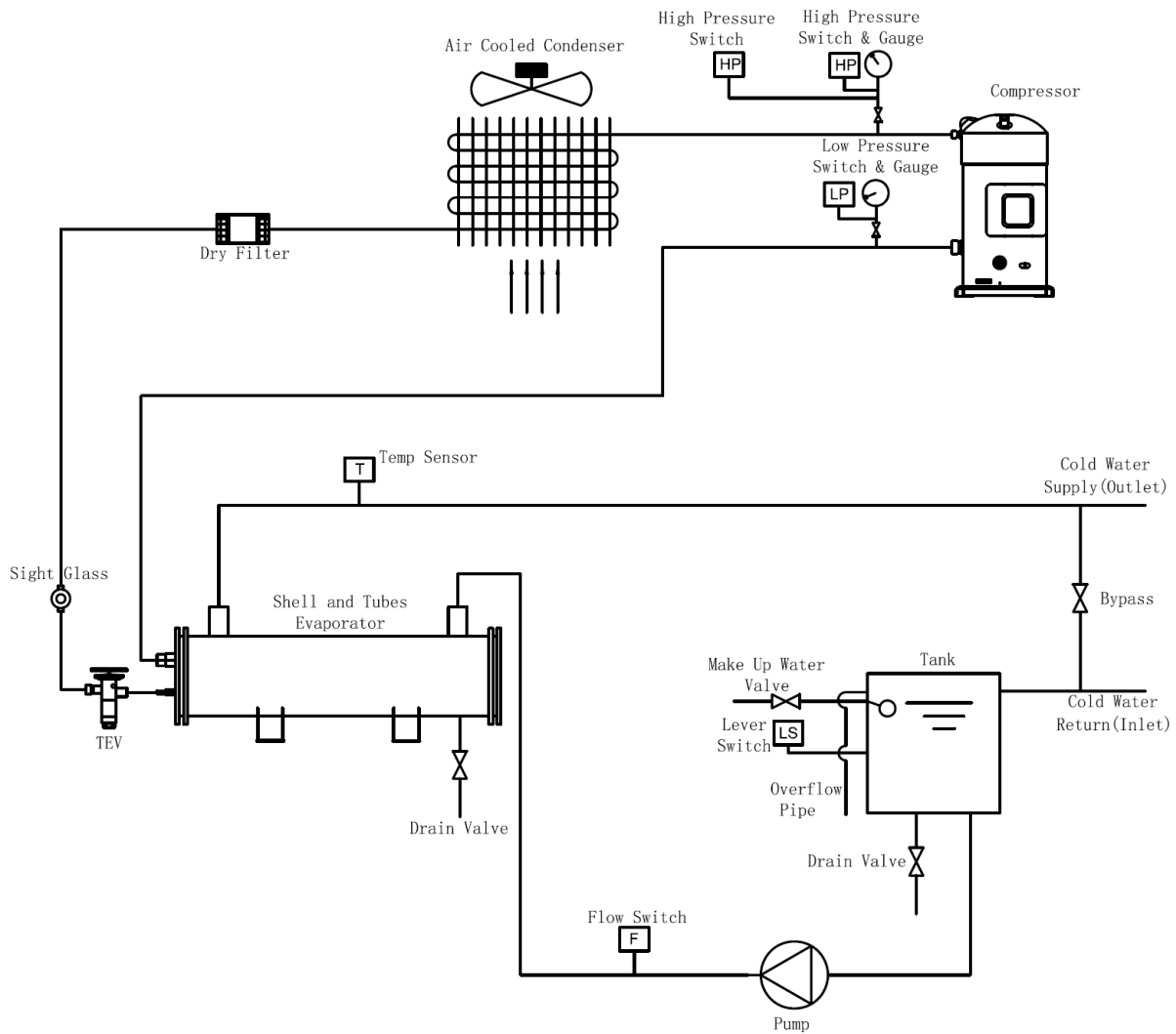
Energy Adjust Mode			100%-0%
Throttling Device	Mode		thermal expansion valve
Pipe	Water Outlet		MNPT 2"
	Water Inlet		MNPT 2"
Water Pump	Flow	GPM	26.4
	Head	PSI	49.3
	Power	HP	1.5
	LRA	A	13.2
Water Tank	Capacity	GAL	38
Sound Pressure at 1 meter	DBA		72
Programming Controller	Display		Touch Screen Digital temperature display microcomputer controller
	Output		—
	Output Choice		Relay
	Temp Control Range °F		+41 ~+95
	Temp Control Accuracy°F		±3.6
Dimensions	inches (LxWxH)		64×32×79
Weight	lbs		1210(For Reference)

NOTES:

- 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 temperature difference: 3°C~8°C (37.4°F~46.4°F);
Allowed ambient temperature range: -20°C~40°C (-4°F~104°F).
- 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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The technical drawings illustrate the R8000 series mobile air conditioning unit from three perspectives: front, side, and rear.

- Front View:** Shows the unit's control panel with an "interlock switch" and "Air inlet" ports. Dimensions include a height of 800(31.5)" and a width of 1600(63.0)".
- Side View:** Displays the unit's profile with a height of 2000(78.7)". It features a large condenser coil and a "Control panel" label.
- Rear View:** Details the unit's connections, including "Cold water inlet MNPT 2\"", "Cold water outlet MNPT 2\"", "Makeup Water MNPT 1/2\"", "Overflow pipe MNPT 1/2\"", "Cable inlet MNPT 1/2\"", and "Drain valve MNPT 1/2\"". Dimensions include a height of 180(7.5)" for the water inlet/outlet section, a width of 125(4.9)" for the cable inlet, and a total height of 580(22.8)" for the rear section.