

TCube mini 270

Still the Smallest Recirculating Chiller on the Planet



Key Features

- Ultra compact, reliable and efficient
- > 270W for cooling capacity
- Precise $\pm 0.1^{\circ}\text{C}$ temperature control
- New larger fluid tank with screw top

The Right Temperature Without Fail

Solid State Cooling Systems

TCube mini 270



High Reliability in a Compact Size

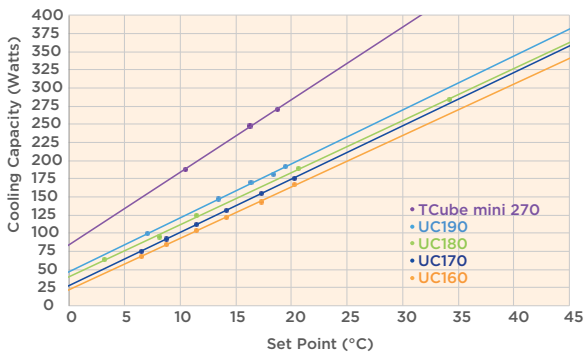
Our new TCube mini 270 ultra compact thermoelectric recirculating chiller is built upon the foundation of our UC160-190 family, with a larger fluid tank (~180 ml) and 1.4 to 1.6 times more cooling capacity. This new product line uses the same highly reliable thermoelectric technology and precise control algorithms as the UC160-190 family. TCube mini responds instantly to changes in load, holding to $\pm 0.1^\circ\text{C}$, even when controlling near ambient. As the world's smallest recirculating chiller, TCube mini integrates easily either inside or next to the system being controlled. Using universal input power, these units are very energy efficient, using power only when needed.

SPECIFICATIONS

Operating Range	2°C to 45°C
Ambient Temperature	10°C to 40°C non-condensing
Stability/Repeatability	$\pm 0.1^\circ\text{C}$ with constant load (even near ambient)
Cooling Capacity	270 Watts @ 20°C (20°C ambient)
Noise (at 1 meter)	<63 dBA
Coolant/Process Fluid	Koolance (27% propylene glycol / water mix) or 27-50% ethylene glycol / water mix
Process Fluid Fittings	1/8" female CPC quick connect with shut-off valve
Pump Options	Long life magnetically-coupled gear pump
Flow Rate	~750 ml per min @ 10 psig
Tank Volume	~180 ml with level sensor and screw cap
Wetted Materials	Aluminum cold plate (copper or stainless steel cold plate options planned)
Size (L x W x H)	7.5" x 5" x 9" (19 x 13 x 23 cm)
Weight	10 lbs (4.5 kg)
Power Input	Universal: 100-240 VAC, 50/60 Hz
DC Operating Voltage	27 VDC, 11 amps max
Power Consumption	<300 Watts
Communications	Keypad or RS232 interface
Alarms	Temperature, fluid level, system or component failure (display, RS232 and dry contact)
Standards	TUV listed to UL, CAN/CSA and EN 61010-1, CE 61010-1, RoHS compliant
Warranty	2 years

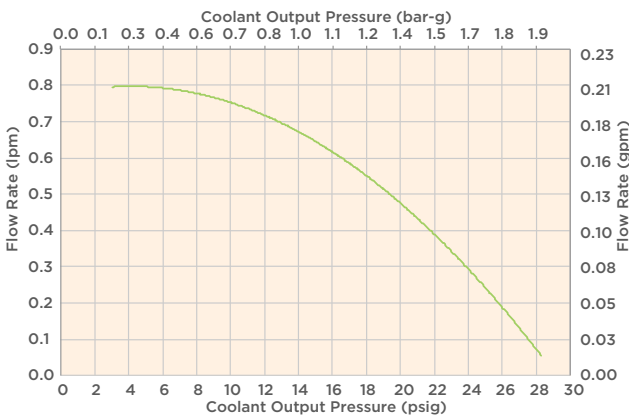
TCUBE MINI 270 COOLING CAPACITY

PERFORMANCE MEASURED AT 20°C AMBIENT TEMPERATURE



Note: Cooling Capacity will vary with configuration

TCUBE MINI 270 GEAR PUMP CURVE



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