

# UC160-190

Ultra Compact Series - The Smallest Recirculating Chiller on the Planet



## 160 W to 190 W

- Low-light CCD cameras
- Diode lasers
- OEM medical equipment
- Laboratory equipment
- Microtiter plate temperature control
- Point-of-use temperature control

# The Right Temperature Without Fail

## Solid State Cooling Systems

### UC160-190



Ultra Compact, quiet operation, and precise, reliable thermoelectric technology

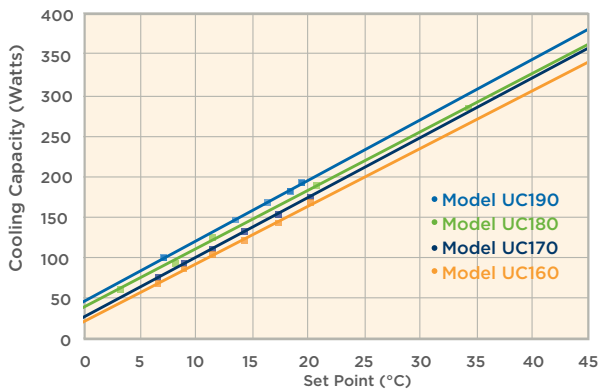
Available with a 160-190 Watt capacity, the UC160-190 delivers precise temperature control using ultra-reliable thermoelectric modules with lifetimes exceeding 200,000 hours. UC160-190 responds instantly to changes in load, holding to  $\pm 0.1^\circ\text{C}$ , even near ambient. Its universal, variable power supply only provides power when needed, making the unit very energy efficient.

As the world's smallest, air-cooled recirculating chiller, UC160-190 fits easily inside your equipment or on your table top. And its standard RS232 interface for automatic temperature control makes UC160-190 simple to use.

### SPECIFICATIONS

<b>Operating Range</b>	2 °C to 45 °C (160W / 180W models) 10 °C to 45 °C (170W / 190W models)
<b>Ambient Temperature</b>	10 °C to 40 °C non-condensing
<b>Repeatability</b>	$\pm 0.1$ °C (even near ambient)
<b>Cooling Capacity</b>	160W to 190W @ 20 °C (20 °C ambient) depending on model and configuration
<b>Noise (at 1 meter)</b>	<63 dBA
<b>Coolant/Process Fluid</b>	Koolance (27% propylene glycol/water mix) or 27-50% ethylene glycol/water mix
<b>Process Fluid Fittings</b>	1/8" female CPC with shut-off valve
<b>Pump Options</b>	G1: -0.5 lpm magnetically-coupled gear pump G3: Alternate longer life -0.5 lpm gear pump
<b>Tank Volume</b>	75 ml with level sensor (optional sealable cap)
<b>Wetted Materials</b>	Al and polymers, or Cu and polymers
<b>Size (L x W x H)</b>	7.5" x 5" x 7" (19 x 13 x 18 cm)
<b>Weight</b>	8 lbs (3.5 kg)
<b>Power Input</b>	Universal: 100 - 240 VAC, 50/60 Hz, 2.8A max
<b>Power Consumption</b>	Less than 200 Watts
<b>Operating Voltage</b>	13.5 VDC, 15 amps max (universal input, laptop style power supply included)
<b>Communications</b>	Keypad or RS232 interface
<b>Alarms</b>	Temperature, fluid level, component or system failure (display, RS232 and dry contact)
<b>Standards</b>	CE, TUV listed to CSA/UL 61010-1
<b>Warranty</b>	1 year

**UC160-190 COOLING CURVES**  
20 °C AMBIENT, PROCESS FLUID:  
27% PROPYLENE GLYCOL/WATER (KOOLANCE)



Note: Cooling Capacity will vary with configuration

**UC160-190 PUMP CURVES**

