

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

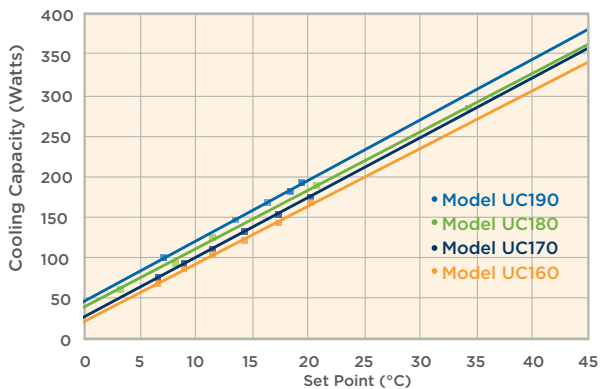
Available with a 160-190 Watt capacity, the UC160-190 delivers precise temperature control using ultra-reliable thermoelectric modules with lifetimes exceeding 200,000 hours. UC160-190 responds instantly to changes in load, holding to $\pm 0.1^{\circ}\text{C}$, even near ambient. Its universal, variable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

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

