

OASIS™ 150

ULTRA COMPACT THERMOELECTRIC RECIRCULATING CHILLER



BENEFITS

- **COMPACT SIZE:**
 - ONLY 6.5 LBS, (3 kg)
 - 7.5" x 5" x 7" (19x13x18 cm) (L x W x H)
- **PRECISE: 10-45 °C SETPOINT WITH ± 0.1 °C CONTROL**
- **PROVIDES 150 W OF COOLING POWER**
- **VERY ENERGY EFFICIENT: USES LESS THAN 100 W OF 12 VDC POWER**
- **RELIABLE THERMOELECTRIC CHILLER**
- **DIODE LASERS**
- **CCD CAMERAS**
- **MEDICAL EQUIPMENT**
- **LABORATORY EQUIPMENT**



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WHY CHOOSE OASIS?

The Oasis offers ultra compact size, quiet operation, precise temperature control, energy efficiency and high reliability.

RELIABLE THERMOELECTRIC TECHNOLOGY

The Oasis uses thermoelectric technology, widely used throughout the world for 50 years in various applications from spacecraft to home appliances. With lifetimes exceeding 200,000 hours, the thermoelectric modules at the core of this chiller make for ultra-high intrinsic reliability.

LOWER HEAT LOAD

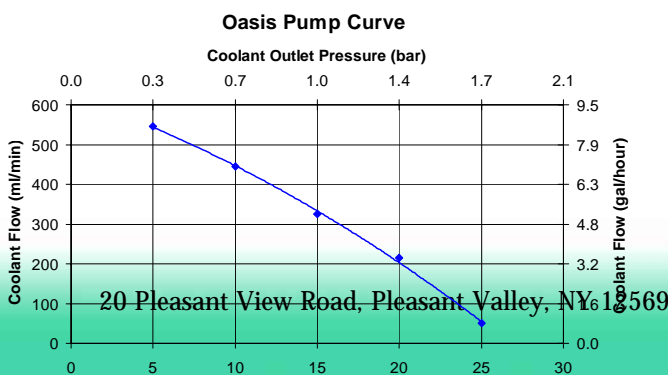
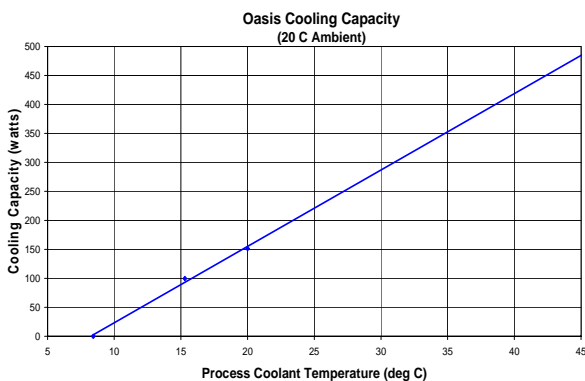
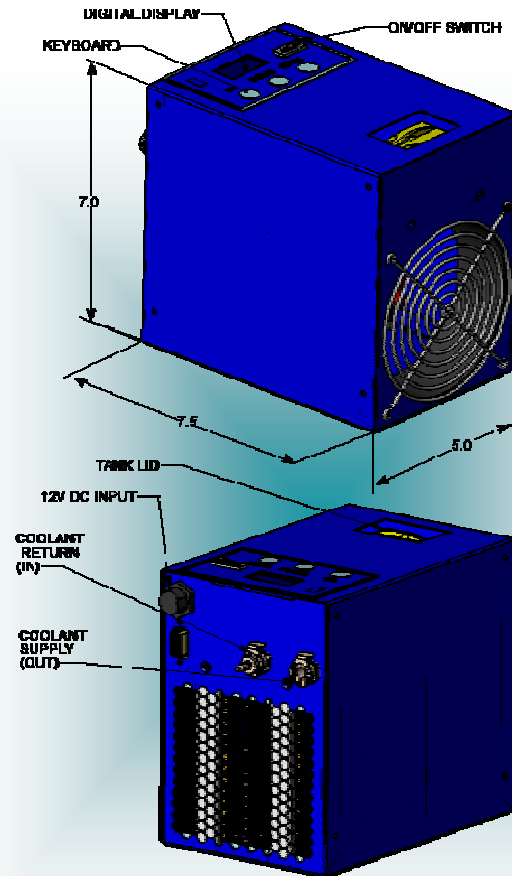
Oasis is available with a 150-Watt capacity, well below the economical range of refrigerant-based chillers.

PRECISE TEMPERATURE CONTROL

Because electrons transfer the heat, Oasis responds instantaneously to changes in load. The digital PID temperature controller holds to $< \pm 0.1$ °C, even near ambient.

ENERGY EFFICIENCY

Oasis is very energy-efficient. Its thermoelectric modules are powered by a variable voltage power supply that provides the minimum power required to control the temperature at set point, so Oasis only draws as much power as needed. It is also designed to operate in the modules' most energy-efficient range.



SPECIFICATIONS SUMMARY

Set Point Range:	10 to 45 °C
Control Accuracy:	± 0.1 °C with a constant load
Cooling Capacity:	150 Watts @ 20 °C in a 20 °C ambient
Operating Voltage:	12VDC, 8 amps max
Coolant Pump:	450 ml/min @ 10 psi brushless DC gear
Coolant:	25% propylene glycol preferred, ethylene glycol solutions also acceptable
Connections:	1/8" hose barb Colder quick disconnect with shut-off valves
Tank Volume:	75 ml
Dimensions:	7.5" x 5" x 7" (19x13x18 cm) (L x W x H, plus fittings)
Weight:	6.5 lbs (3 kg)
Communications:	Dry contact alarm and RS232
Certifications:	CE/UL 61010-1 2004
Warranty:	1 year

Please refer to the "tech info" section on our web site for detailed