



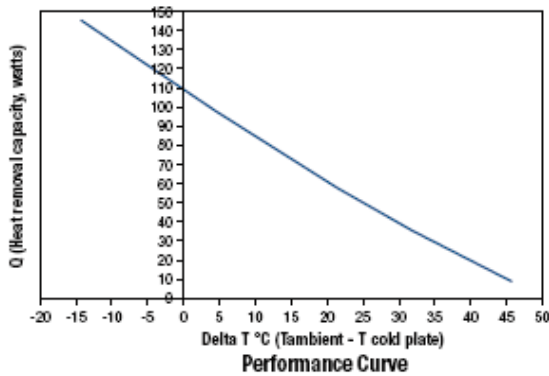
# Ultra Therm Thermo-Electric Cooling Module

## Features

- Lightweight
- Dissipates a maximum thermal load of 110 W
- Excellent Temperature Stability
- Feedback Electronics

## Applications

- Forced-air cooling for Ultra™ Series modules in:
  - Laser products
  - Medical equipment
  - Semi-conductor processing
  - Defense applications



<b>Model Number</b>	<b>9903-0001: Thermo-electric cooling module</b>
Physical dimensions (mm) (LxWxH)	215 x 163.5 x 69.8
Maximum heat dissipation at 20°C	110W
Cooling fan rated voltage (VDC)	24

<b>Model Number</b>	<b>9904-0001: TEC controller</b>
Physical dimensions (mm) (LxWxH)	69.8 x 50.8 x 38
Thermistor input	NTC 15kOhm
Power supply requirements	48V, 10A maximum

### Additional Option:

- 9905-0001: TEC controller power supply

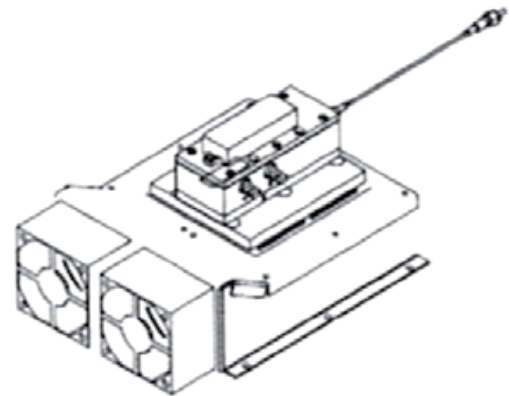
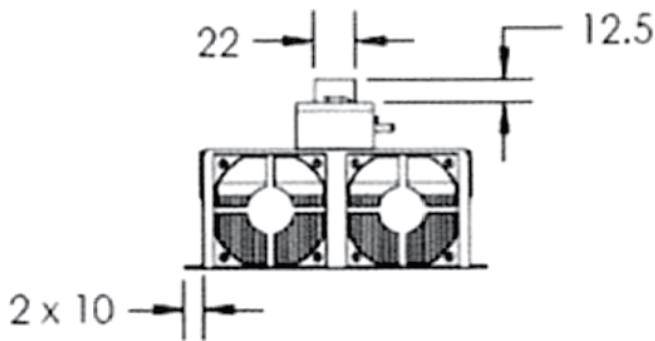
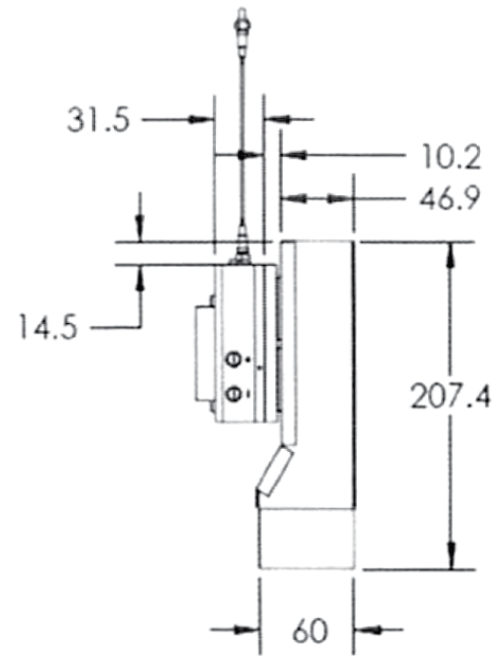
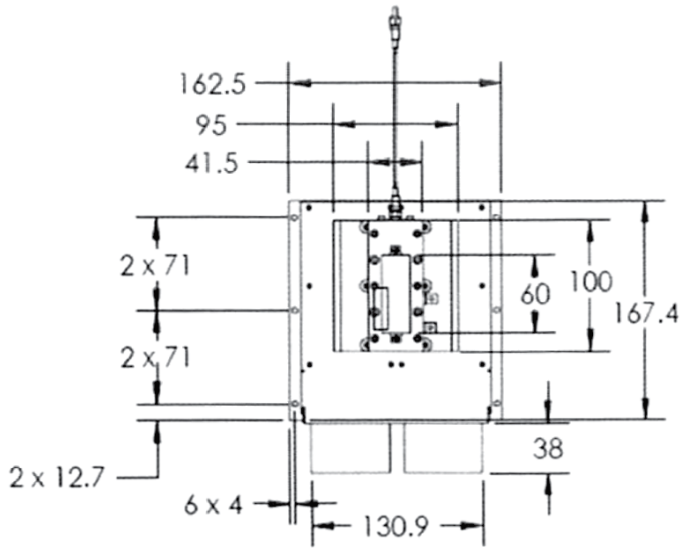
Warning: Class 4 Laser, Invisible Laser Radiation – Avoid Eye or Skin Exposure to Direct or Scattered Radiation.

### Laser Operations LLC



# Ultra Therm Thermo-Electric Cooling Module

Mechanical Drawings of TEC Module with an Ultra-50™ Module  
(including aiming beam)



*BRIGHTNESS and POWER*

*Breaking Performance Barriers through Semiconductor Laser Innovation*

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