

**Cryocooler** 10W@77K

# TC4177

The TC4177 cryocooler integrates linear compressor with dual opposed gas bearing pistons, and a pulse tube cold finger with an acoustic phase shifter. It is for vibration-sensitive applications.

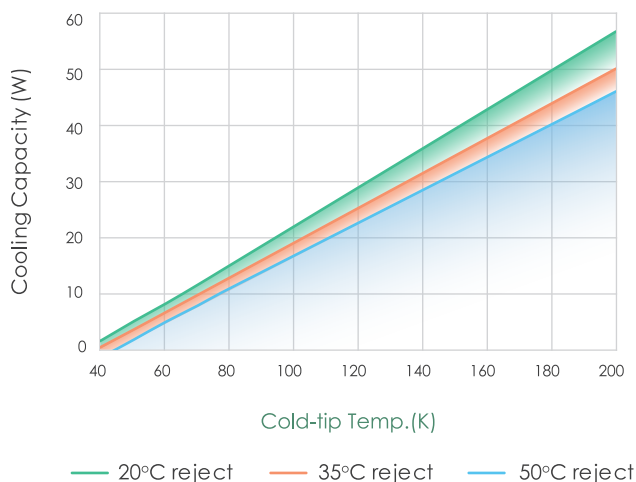


## Features

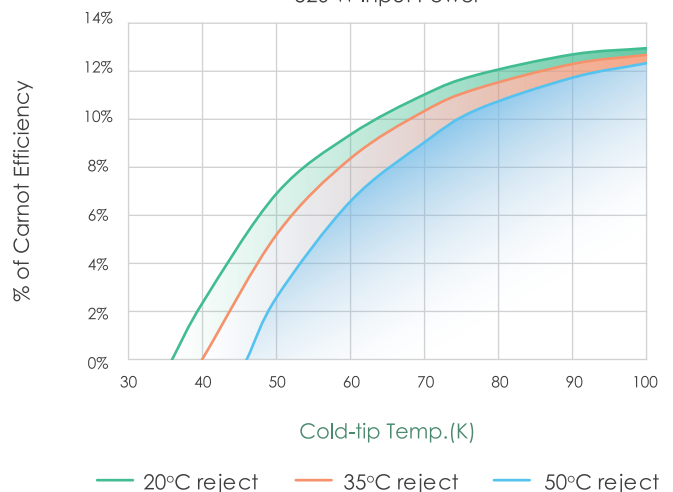
- 1 Dual opposed gas bearing pistons driven by linear motors, high MTTF (>50000 hrs)
- 2 Pulse tube cold finger with an acoustic phase shifter, high reliability
- 3 Split configuration, low vibration
- 4 Ideal for 24/7 operation

## Typical performance

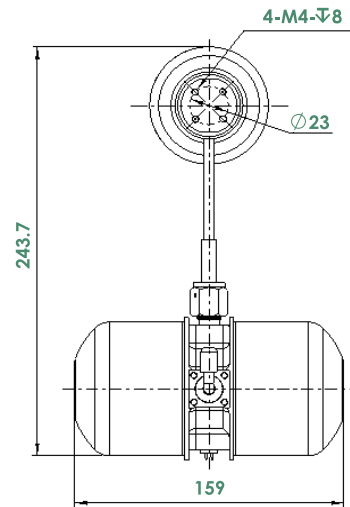
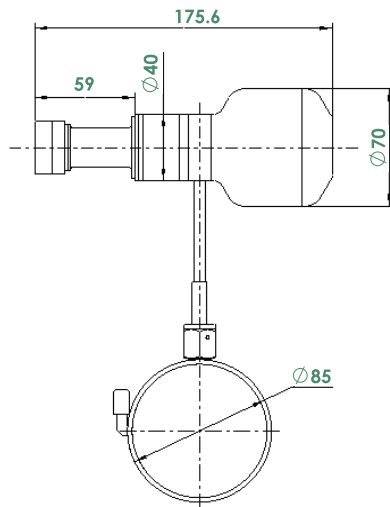
Cooling Capacity vs. Temperature  
320 W Input Power



Percentage of Carnot Efficiency  
320 W Input Power



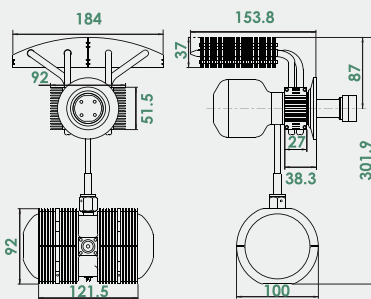
# Specifications and Dimensions



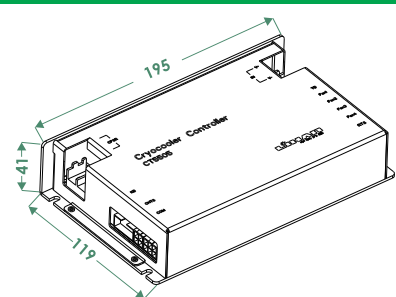
|                                        |               |
|----------------------------------------|---------------|
| Operating Temperature                  | -20°C ~ +50°C |
| Nominal Input Power                    | 250W          |
| Nominal Cooling Capacity (20°C reject) | 10W@77K       |
| Max. Cooling Capacity (20°C reject)    | 13W@77K       |
| Power Supply                           | DC48V         |
| Lowest Temperature                     | 45K           |
| Weight                                 | 4.2kg         |
| Temperature Stability                  | ± 0.1K        |
| Orientation                            | Any           |

## Radiator and Controller

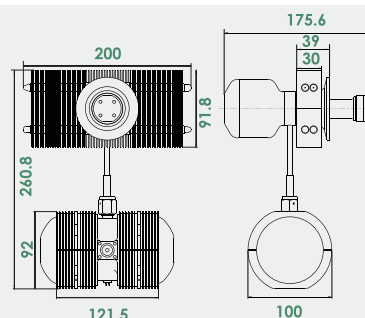
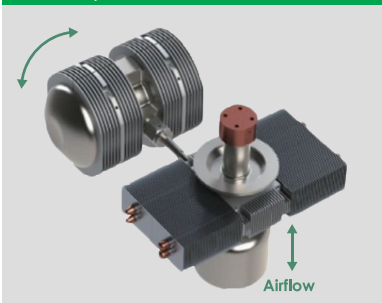
L-shape Thermal Radiator



CT 5505 Controller / Driver



I-shape Thermal Radiator



### For more information:

Call : +86 755 26985788

Email : sales@lihan.com

Web : www.lihan.com

Add.: 3/F, Bldg. 4, Pingshan Minqi Industrial Park,  
Lishan Rd., Nanshan, Shenzhen, 518055, China

\*All dimensions in mm. Data subject to change without notice.