

LINEAR STIRLING COOLER SX095

- **Outstanding specific performance**
- **High MTF (>15,000h)**
- **High cooling capacity of 1.3W (@ 80K; 23°C)**
- **Modular Cooler Concept**
 - **Several coldfinger options available**

The SX cryocooler-series is our latest product family targeting 3rd Gen IR-applications.

The SX095 combines small outline dimensions with outstanding specific performance and provides high reliability exceeding lifetimes of 15,000h.

The compactness and cooling power meets the demand on light-weight high performance IR-technology. The SX095 provides a cooling capacity of more than 0.6W @ 80K at high ambient temperature (80°C).

The resulting performance margin allows detector temperatures down to 60K as required for QWIP and VLWIR detectors.

The SX095 can be used with AIM's digital cooler electronics DCE100 or alternatively with customers' electronics.

Due to the sleeve design of the coldfinger (Titanium or optional Inconel®) the expander can be integrated and exchanged by the customer.

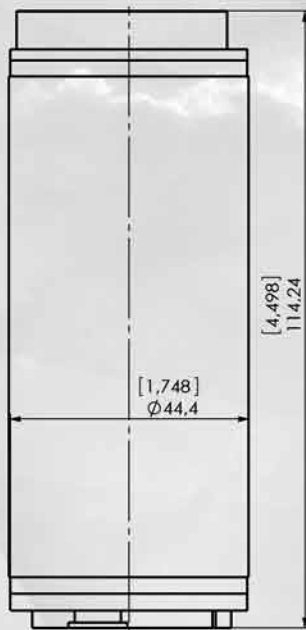
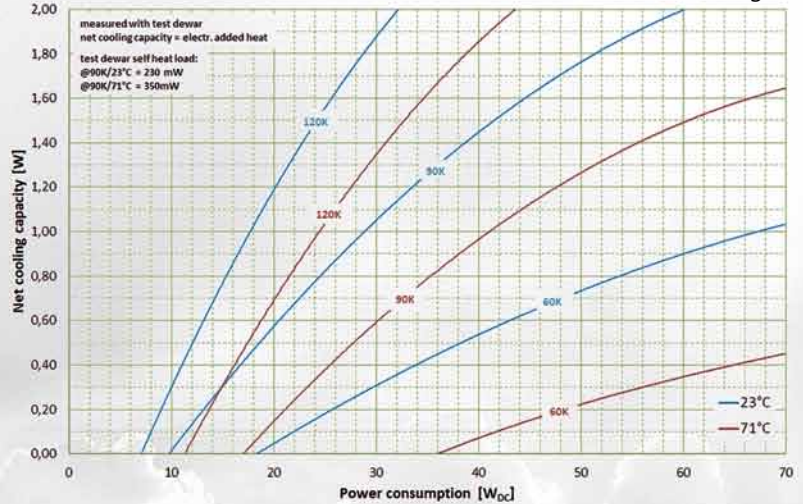


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Typical Performance Data
SX095 with 6mm coldfinger

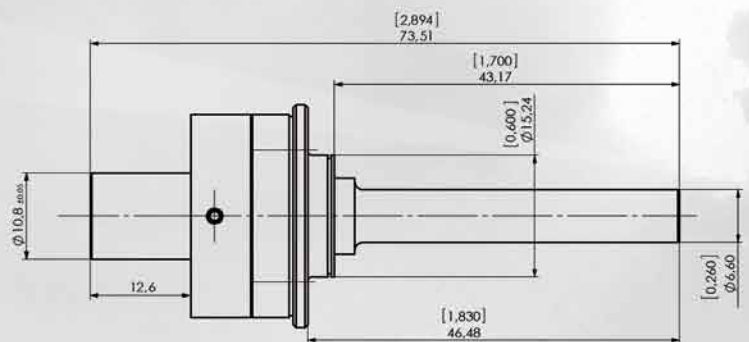
Applications

- High Performance IR-systems
- IR-detectors operating at 60 - 120K
- Ambient temperature up to 80°C
- Applications demanding high cryocooler reliability and reduction in maintenance costs

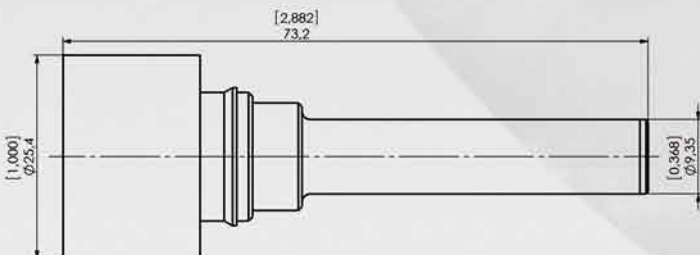


Dimensions SX095 compressor

		SX095
Compressor diameter	[mm]	44 / 1.73
Compressor length	[mm]	115 / 4.53
Compressor weight	[g]	760 / 1.67
Supply voltage	[V]	6-20
Cooler Controller		DCE100
Ambient temperature range	[°C]	-54 to +85
Suitable coldfingers / dewar diameter		6mm, 8mm, 9mm



Dimensions 6mm coldfinger



Dimensions 9mm Coldfinger

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