

PULSE-TUBE COLDFINGER PT-12

- **Very high MTTF (>50,000h)**
- **No moving parts**
- **Lowest vibration output**
- **Cooling capacity more than 2W**

The AIM Pulse-Tube coldfinger is for use in ultra long-life cooler applications.

Very high reliability is achieved due to the absence of any moving parts and any contamination potential. In combination with a Flexure Bearing compressor the lifetime exceeds 50,000h.

Compared to a Stirling coldfinger, the Pulse-Tube shows a much lower vibration output level and a higher stiffness while having comparable outer dimension.

For the Pulse-Tube an additional buffer volume around 40-150cm³ is needed, depending on temperature and cooling capacity. The design and the position of the buffer is flexible. It can be placed directly on the coldfinger's warm end or separately, connected by a transferline.

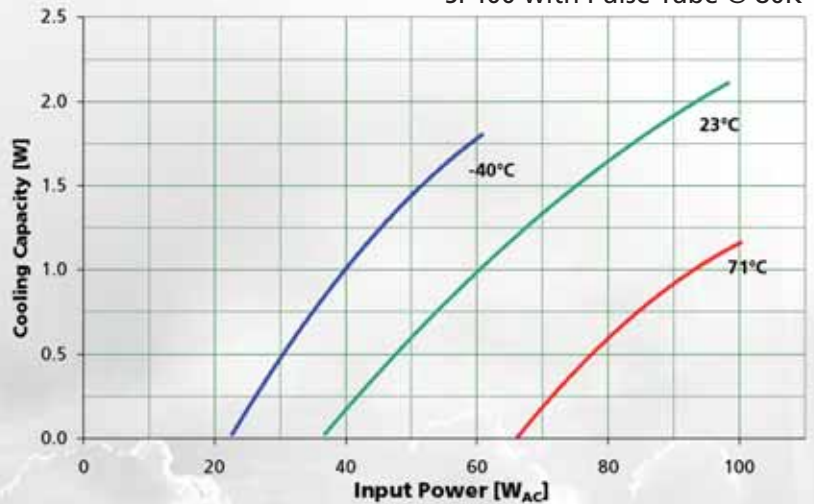


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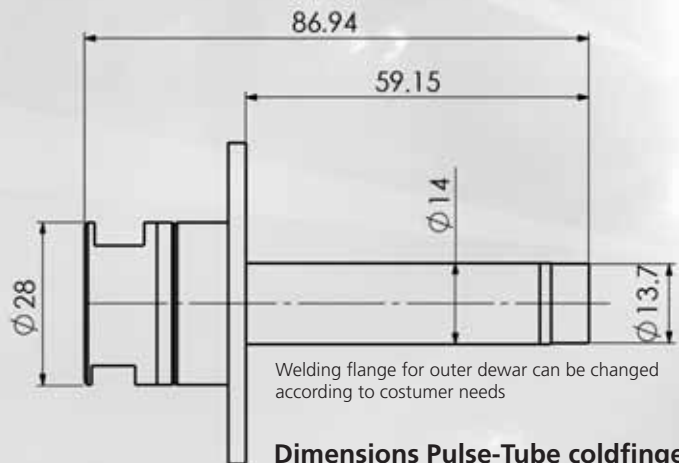
Typical Performance Data
SF400 with Pulse Tube @ 80K

Applications

- Space cryocooler
- Long life cooler
- Application with focus on low vibration
- Coldtip temperature <77K



	SF100	SL150	SL400
Cooling capacity @ 80K, 23°C[W]	0.75	1.8	2.7
Max. input power [W _{Ac}]	65	90	100
Length [mm]	87		
Coldtip diameter [mm]	14		
Max. transferline length [mm]	300		
Buffer volume [mm ³]	40-100		



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