

# RS079

## Integral Rotary Stirling Cryocooler

| Match All kinds of  
Cooled IR Detectors



### Description

RS079 dewar cooler assembly is designed to meet the demand for high cooling power of the large FPA formats. Its motor windings are separated from the working gas to prevent contamination. High wear-resisting coating and clean room assembly are applied to prolong the lifetime and high reliability. For compactness, the electronic drive is built-in. An onboard temperature sensor offers stand-by, remote shutdown and over temperature protection options.

### Principle

- Adopt key technologies such as high-efficiency brushless DC motor drive, high-efficiency wear-resistant coating, and high-precision miniature bearing support

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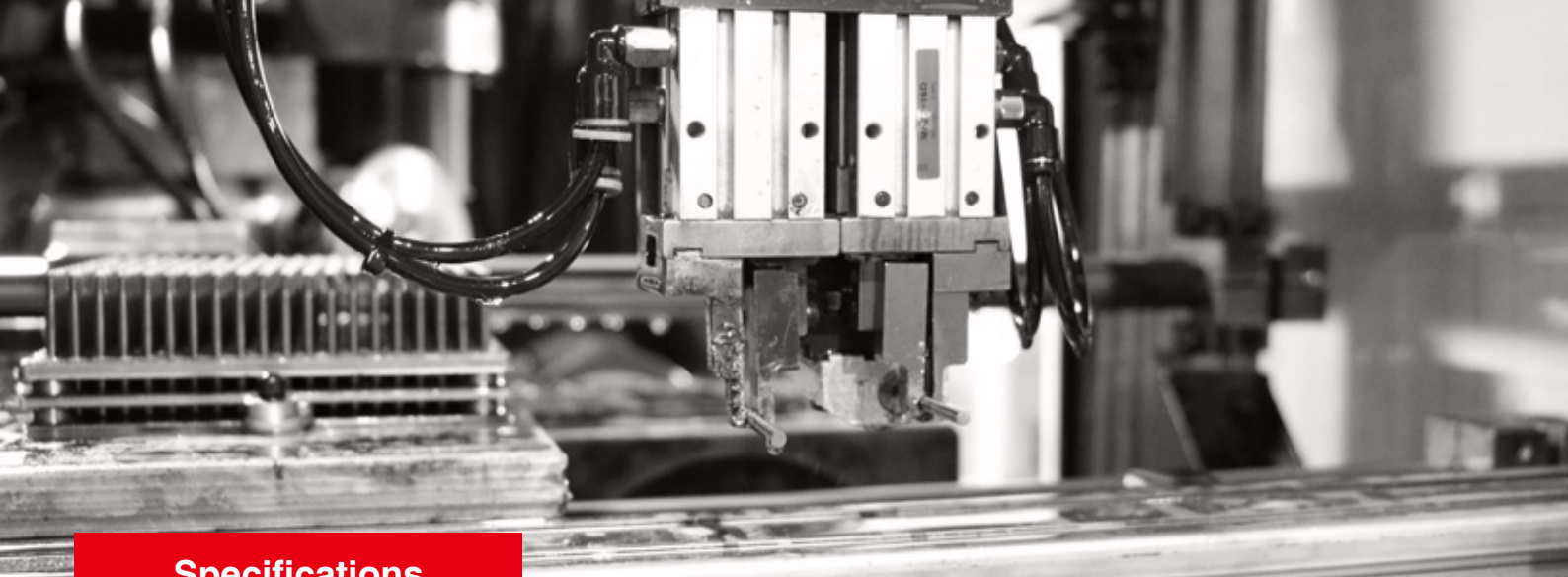
### Features

- Compact structure, small size, light weight, adapt to various harsh environments

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### Application

- Widely used in various electro-optical systems such as handheld imagers, pods, turrets, security monitoring, ADAS etc.



## Specifications

Model	RS079
Type	Integral Rotary Stirling Cryocooler
MTTF	$\geq 10000\text{hrs}$
Maximum Size (mm)	99×81.5×46.5
Weight	$\leq 260\text{g}$
Cooling Power	(@77K@20°C) $\geq 400\text{mW}$
Operating Temperature	-45°C~+71°C
Storage Temperature	-55°C~+85°C
Environmental Specification	GJB150A-2009
Input Voltage	24-32VDC/9-12VDC
Max Power Consumption	$\leq 12\text{W}$
Steady Power Consumption	$\leq 4.5\text{W}$ (130mW@77K@20°C)
Cooling Time	$\leq 5\text{min}$ (150J@77K@20°C)
Cold Finger Size	Φ6.4mm
Electronics	Built-in
Integration Method	IDDCA

Specifications are subject to change without prior notice.

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