

Product Overview

Technical Specifications

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Two-stage Pulse Tube Cryocooler from Janis and SHI

RP-062B (0.5 W at 4.2 K) and RP-082B (1.0 W at 4.2 K)

Sumitomo Heavy Industries has expanded their product line yet again with the addition of a two-stage pulse tube cooler. With a base temperature of below 3.0 K, this new product extends the range of possible applications for Sumitomo closed-cycle refrigerators to include low-temperature, low-vibration applications. The pulse tube cooler has no internal moving parts, therefore it has inherently low vibration levels.

Standard configuration

Characteristics:

Refrigeration capacity: 0.5 W at 4.2nbsp;K (RP-

062B); 1.0nbsp;W at 4.2nbsp;K (RP-082B)

- Orientation: vertical only
- Push-button operation

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- Laboratory cryostats
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- Optical studies
- Magnetic studies
- Low-vibration





Two-stage Pulse Tube Cryocooler Specifications

	RP-062B	RP-082B
Refrigeration	Pulse tube (2-	Pulse tube (2-
cycle	stage)	stage)
Refrigeration	1st stage:	1st stage:
capacity (vertical	30 W at 65 K	40 W at 45 K

position)	(50/60 Hz) 2nd stage: 0.5 W at 4.2 K (50/60 Hz)	(50/60 Hz) 2nd stage: 1.0 W at 4.2 K (50/60 Hz)
Orientation	Vertical only	Vertical only
Lowest temperature	<3.0 K	<3.0 K
Vibration level	±4 µm at 2nd stage flange	1st stage: ±7 µm; 2nd stage: ±9 µm
Weight	23.2 kg	26 kg
Cold head dimensions (mm) —approximate	336 W × 190 L × 604 H	190 W × 347 L × 581 H
Cooldown time (to 4.2 K)	<100/90 min (50/60 Hz)	<80 min (50/60 Hz)
Maintenance	Every 20,000 h	Every 20,000 h
Compatible ccompressor unit model	F-50	F-70
Flexline length	20 m*	20 m*

9/12/2020 Pulse Tube Cryocoolers

Flexline weight 7.5 kg per line 7.5 kg per line

*Buffer tanks + 6 m lines may optionally be substituted for the 20 m long lines. 6 m lines weigh 5 kg per line.

Specifications subject to change without notice.

Download the Sumitomo's <u>SRP-062B Pulse Tube</u> <u>Datasheet</u>

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