000111110001

HPD Model 106

Mid-Sized, Cryogen-Free ADR Cryostat

> Overview

The HPD Model 106 adiabatic demagnetization refrigerator (ADR) has been optimized for flexibility and versatility. This medium-size research cryostat features an experimental volume 34 cm in diameter and is offered in two sizes: a compact 21 cm tall and a larger version at 49 cm tall. HPD's quality engineering and attention to detail provide many unique features, such as cool down from 300 K to 3 K in 16.5 hours, a vibration minimizing design, and a wide range of port sizes to suit a variety of scientific applications. The Model 106 can also be reconfigured for your specific project.



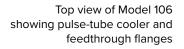


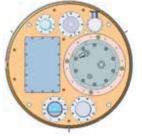
> Features

- HPD adiabatic demagnetization refrigerator (ADR)
- Kevlar suspension
- 1 K & 50 mK stages
- Optimized for versatility and flexibility
- 3X NW ports on top flange
- 1X NW40 port on top flange
- 1X NW25 port on top flange
- Large line-of-sight set of 165 mm x 89 mm rectangular ports
- 1X Ø150 mm port on vacuum jacket bottom flange
- Nickel plated aluminum thermal shields (50 K, 4 K)
- Quick release vacuum jacket flanges
- · Captive screws on shield flanges
- · Electronically controlled motorized heat switch
- Vibration minimizing design
- Cryomech PT410 pulse-tube cryocooler
- Remote rotary valve motor
- Custom service stand (option)
- Allows for transport & servicing
- 76 cm of height adjustment

> Design Specifications

- Choose from two experimental volumes
- Compact: 34 cm diameter x 21 cm tall
- Large: 34 cm diameter x 49 cm tall
- Cool down from 300 K to 3 K in 16.5 hours
- Pulse-tube stage temperatures of 50 K and 2.7 K
- 0.9 W cooling power at 4.2 K
- ADR base temperature of 30 mK
- 200 hour no-load regulation at 100 mK (250 hours expected)





© Copyright 2023 FormFactor, Inc. All rights reserved. FormFactor and the FormFactor logo are trademarks of FormFactor, Inc. All other trademarks are the property of their respective owners.

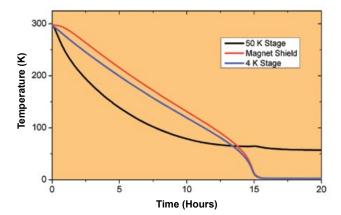
All information is subject to change without notice.

HPD MODEL 106-DS-0323



Close-up of HPD Model 106 ADR Cryostat

Typical Model 106 Cooldown Curve



Corporate Headquarters 7005 Southfront Road Livermore, CA 94551 Phone: 925-290-4000 www.formfactor.com

