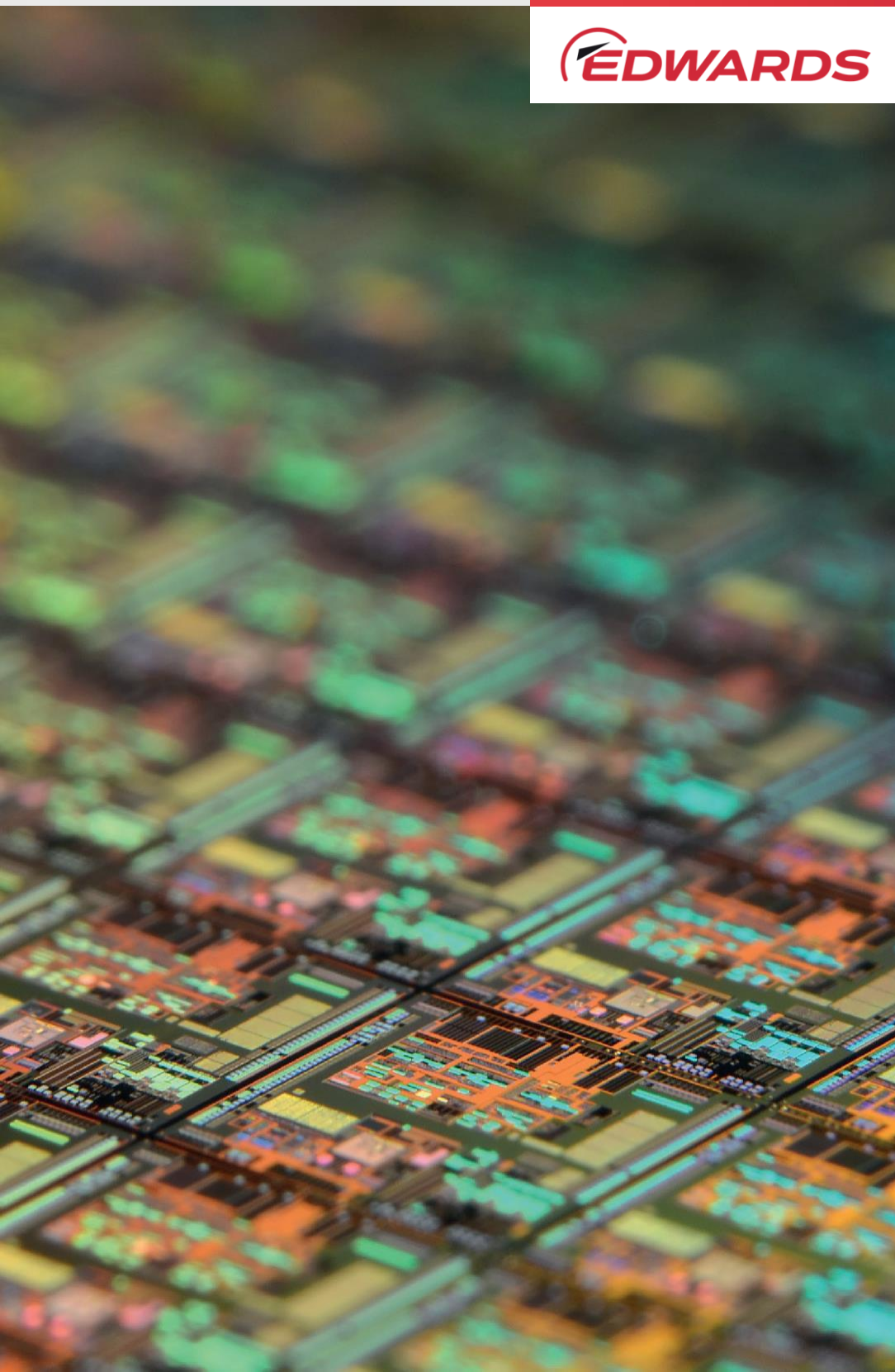


# CTI-CRYOGENICS® REFRIGERATION SYSTEM

MODEL 22, 350, 1020, 1050 (CRYODYNE®)



## Official Distributor in Australia



**EZZI VISION**

***Vacuum and Thin Film Technology***

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## Why Choose Ezzi Vision?

### **'Partner with excellence in Vacuum Technology, opt for Ezzi Vision'**

**Decades of Expertise:** With 30+ years in the industry, Ezzi Vision is highly experienced in vacuum technology and its applications.

**Quality Assurance:** We ensure that every Edwards pump meets the highest standards of performance and reliability.

**Innovative Solutions:** Leading in technological advancements, we provide the latest Edwards pumps, known for their innovation and efficiency.

**Customer-Centric:** Ezzi Vision delivers personalized service and expert advice to meet your needs.

**Nationwide:** Ezzi Vision brings quality vacuum solutions to all of Australia.

**After-Sales Support:** We provide comprehensive support to maintain your equipment's longevity and efficiency.

**Sustainable Practices:** Our products at Ezzi Vision align with contemporary environmental standards, promoting sustainable practices in your business operations.

**With Ezzi Vision propel your business forward using state-of-the-art technology and steadfast support.**

# CTI-CRYOGENICS®

## REFRIGERATION SYSTEM

MODEL 22, 350, 1020, 1050 (CRYODYNE®)

CTI offers a family of single and two stage, closed-cycle refrigeration systems based on the Gifford-McMahon thermodynamic Cycle. They provide usable heat lift from <10K to >80K for a variety of commercial and research applications. CTI has the most thoroughly proven closed-cycle helium refrigeration systems on the market today.

CTI Refrigeration systems consist of a refrigeration assembly, compressor assembly and customized installation kit, which includes flexible interconnecting Helium lines and refrigerator cable ranging from the standard 10-foot separation length up to 300-foot length.

### Applications and Markets

#### R&D

Superconductor Cooling

Cryopumps

#### Optical Systems

Materials Research

Spectroscopy

#### Radio Astronomy

NMR Systems

## FEATURES & BENEFITS

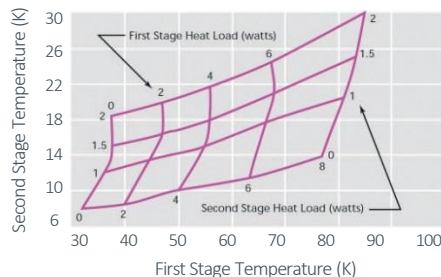
- **The most thoroughly proven closed-cycle helium refrigeration systems on the market**
- **Ultra pure helium gas as the refrigerant which is environmentally safe and nonflammable**
- **Long life**

## Model 22 Cryodyne® Refrigeration System

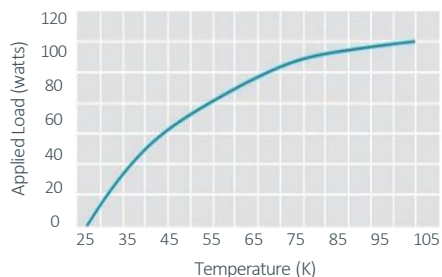
The Model 22 is available in both single and two stage for applications that require a compact cryocooler.

The single stage M-22 is designed to provide up to 11 watts of heat lift at 77K for cooling of high temperature superconductors, detectors and optical devices. The two stage M-22 is designed to provide useable heat lift under 10K and up to 1 watt at 20K and 8 watts at 77K simultaneously.

**Model 22 Two Stage Cryodyne® Refrigerator Typical Performance (60Hz)**



**Model 22 Single Stage Cryodyne® Refrigerator Typical Performance (60Hz)**

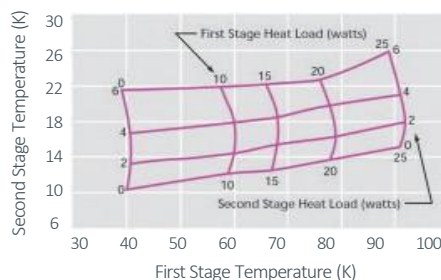


## Model 350 Cryodyne® Refrigeration System

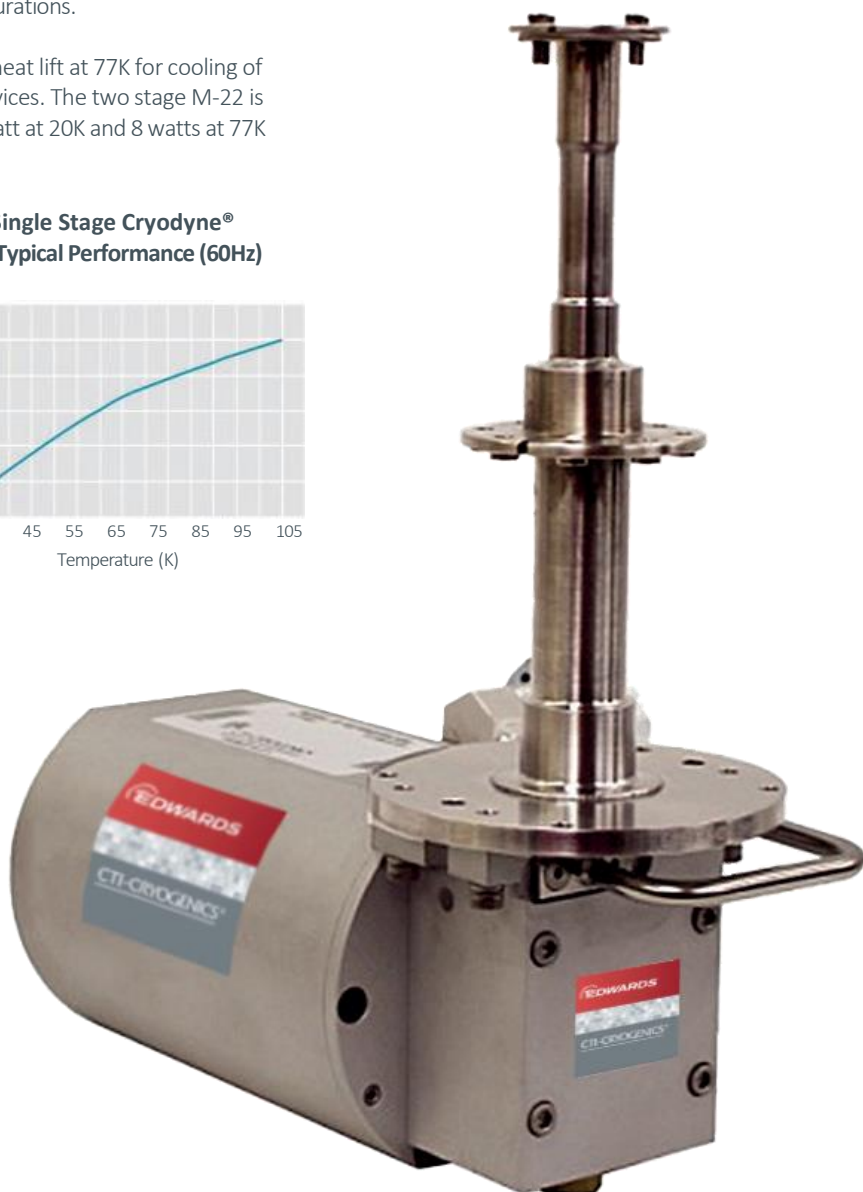
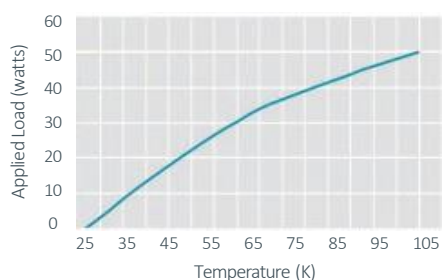
The Model 350 is available in both single and two stage configurations.

The two stage M-22 is designed to provide up to 11 watts of heat lift at 77K for cooling of high temperature superconductors, detectors and optical devices. The two stage M-22 is designed to provide useable heat lift under 10K and up to 1 watt at 20K and 8 watts at 77K simultaneously.

**Model 350 Two Stage Cryodyne® Refrigerator Typical Performance (60Hz)**



**Model 350 Single Stage Cryodyne® Refrigerator Typical Performance (60Hz)**

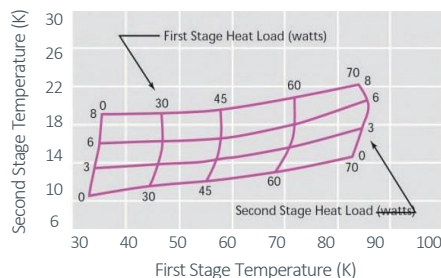




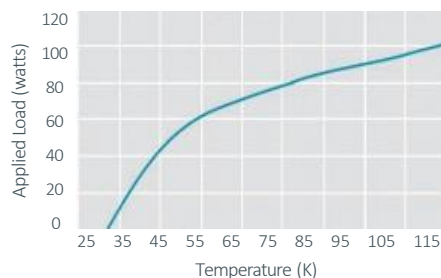
## Model 1050 Cryodyne® Refrigeration System

The Model 1050 is available in both single and two stage configurations to meet a variety of high capacity cooling applications. The M-1050 is ideal for a number of high temperature semiconductor applications that require cooling from 20K to 80K. The M-1050 single stage system will provide 80 watts of heat lift at 77K. The M-1050 two stage system will provide 7 watts of heat lift at 20K and 65 watts at 77K simultaneously.

### Model 1050 Two Stage Cryodyne® Refrigerator Typical Performance (60Hz)



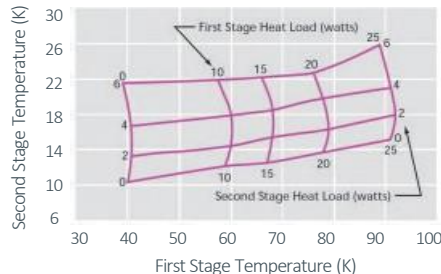
### Model 1050 Single Stage Cryodyne® Refrigerator Typical Performance (60Hz)



## Model 1020 Cryodyne® Refrigeration System

The Model 1020 is available in a two stage configuration only. Single stage performance is available from the M-1050. The M-1020 was designed for high capacity applications such as MRI magnet shield cooling and large cryopumps. The M-1020 will provide 12 watts of heat lift at 20K and 35 watts at 77K simultaneously.

### Model 1020 Two Stage Cryodyne® Refrigerator Typical Performance (60Hz)



# CTI APPLICATIONS EXPERTISE

The CTI applications team listens carefully to customer perspectives and partners with them to address their issues. Leveraging our leadership in modern cryopump technology, we deliver the right solution, whether off the shelf or custom engineered. We are committed to helping you meet your process and manufacturing objectives.



GLOBAL CONTACTS

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