

# FABRUM.

AFCRYOCOOLER PTC1000

## INDUSTRIAL CRYOCOOLER UNITS FOR DISTRIBUTED PRODUCTION



### ● APPLICATIONS

- High cooling capacity helium cooling loops
- On site production of Liquid Air, Nitrogen, Oxygen
- On site liquefaction of Hydrogen, LNG

### ● INDUSTRIES

- Food and beverage
- Research
- Superconductivity
- Animal Breeding and human health

### ● KEY BENEFITS

- Surety through on-site production
- Reliable and efficient
- Easy to operate
- Minimal maintenance

**A cryocooler is a mechanical device utilizing a refrigeration cycle, designed to cool an item to a temperature so low that ordinary gases become liquid.**

Whilst many variations of cryocoolers are available, few systems can provide industrialized functionality. Our systems require very low maintenance and have the ability to run in harsh environments with no degradation to cooling performance over the life of the unit. This ensures continuous operation extending beyond 50,000 hours.

The dual diaphragm pressure wave generator with large linear pulse tubes delivers these attributes:

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Minimal setup requirements: plug in for liquid production in 20 minutes

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Scalable and modular: install a single unit into an existing system, configure multiple units or install a full liquefier system

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Efficient, cost-effective, reliable, continuous running

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Low maintenance: servicing at 40,000 hours – for uninterrupted supply

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Minimize or eliminate the need for third party supply and logistics

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Well-suited for use in remote locations

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Patented dual diaphragm pressure wave generator delivers rugged, low maintenance and efficient cryocooling.

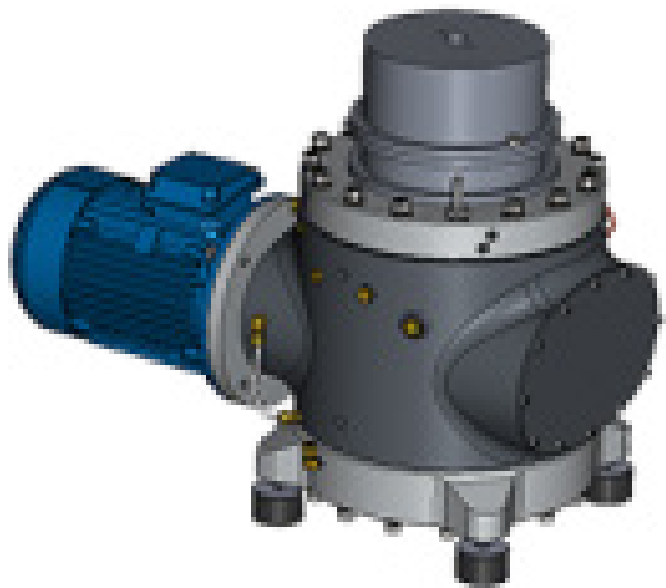
Long life diaphragm separating cryogenic cold head from the wave generator: ensures clean cryogenic system.



## PRODUCT SPECIFICATIONS

### PTC1000

Power @ 77K	1450 W
Power @ 110K	2500 W
No Load Temperature	43 K
Input Power	25 kW
Weight	1300 kg
Dimesions (m) LxWxH	1.8 x 1.2 x 2.2



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**Mission Critical Solutions.** Providing world leading solutions in engineering and cryogenic technology.



Quality  
ISO 9001



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