

FABRUM.

AFCRYOCOOLER PTC330

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:

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

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

Efficient, cost-effective, reliable, continuous running

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

Minimize or eliminate the need for third party supply and logistics

Well-suited for use in remote locations

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

PTC330

Power @ 77K	480 W
Power @ 110K	860 W
No Load Temperature	45 K
Input Power	12 kW
Weight	800 kg
Dimesions (m) LxWxH	1.9 x 0.8 x 1.7



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



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