



FABRUM

MISSION CRITICAL SOLUTIONS

FABRUM.

INDUSTRIAL CRYOCOOLER

INDUSTRIAL CRYOCOOLER

FOR DISTRIBUTED PRODUCTION

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

Whilst many variations of cryocoolers are available, few systems can provide robust industrialised functionality.

Fabrum cryocoolers require very low maintenance and have proven ability to operate in harsh environments with NO degradation of cooling performance over the life of the unit. This ensures continuous operation extending beyond 50,000 hours.



APPLICATIONS

Onsite production of liquid air, nitrogen and oxygen.
Onsite liquefaction of hydrogen, natural gas and methane.
High cooling capacity helium cooling loops and specialised applications.



INDUSTRIES

Food and beverage
Research
Superconductivity
Animal breeding
Life science
Specialist manufacturing
Renewable energy



KEY BENEFITS

Onsite production
Reliable and efficient
Easy to operate
Minimal maintenance
Measurable return on investment
Key technology enabler

The Fabrum Industrial Cryocoolers deliver these attributes:

- 01** Minimal set up requirements: plug in for liquid production within 20 minutes.
- 02** Scalable and modular: install a single unit into an existing cooling system, configure multiple units or install a full liquefaction system.
- 03** Efficient, cost effective, reliable, continuous running.
- 04** Low maintenance: servicing at 40,000 hours provides uninterrupted supply.
- 05** Well-suited for use in remote locations.

Efficient and Robust Performance: Fabrum's Patented Cryocooler Technology.

PTC330



PTC1000



PRODUCT SPECIFICATIONS

	PTC330	PTC1000
Cooling power @ 77°K [W]	500	1500
Cooling power @ 110°K [W]	860	2500
No load temperature [°K]	42	42
Input power [kW]	13	32
Weight [kg]	700	1600
Dimensions LxWxH [m]	1.25 x 0.8 x 1.65	1.70 x 1.20 x 1.95
Shipping Dimensions LxWxH [m]	1.50 x 1.05 x 1.90	1.95 x 1.45 x 2.15

“We operate from the bottom of the world but we perform at the top of it; and this is just the beginning of our story.”



Mission Critical Solutions.

Providing world leading solutions in engineering and cryogenic technology. Clever Solutions for a Better Future.

NEW ZEALAND

128A Waterloo Road
Hornby
Christchurch 8042
Phone +64 3 982 2810