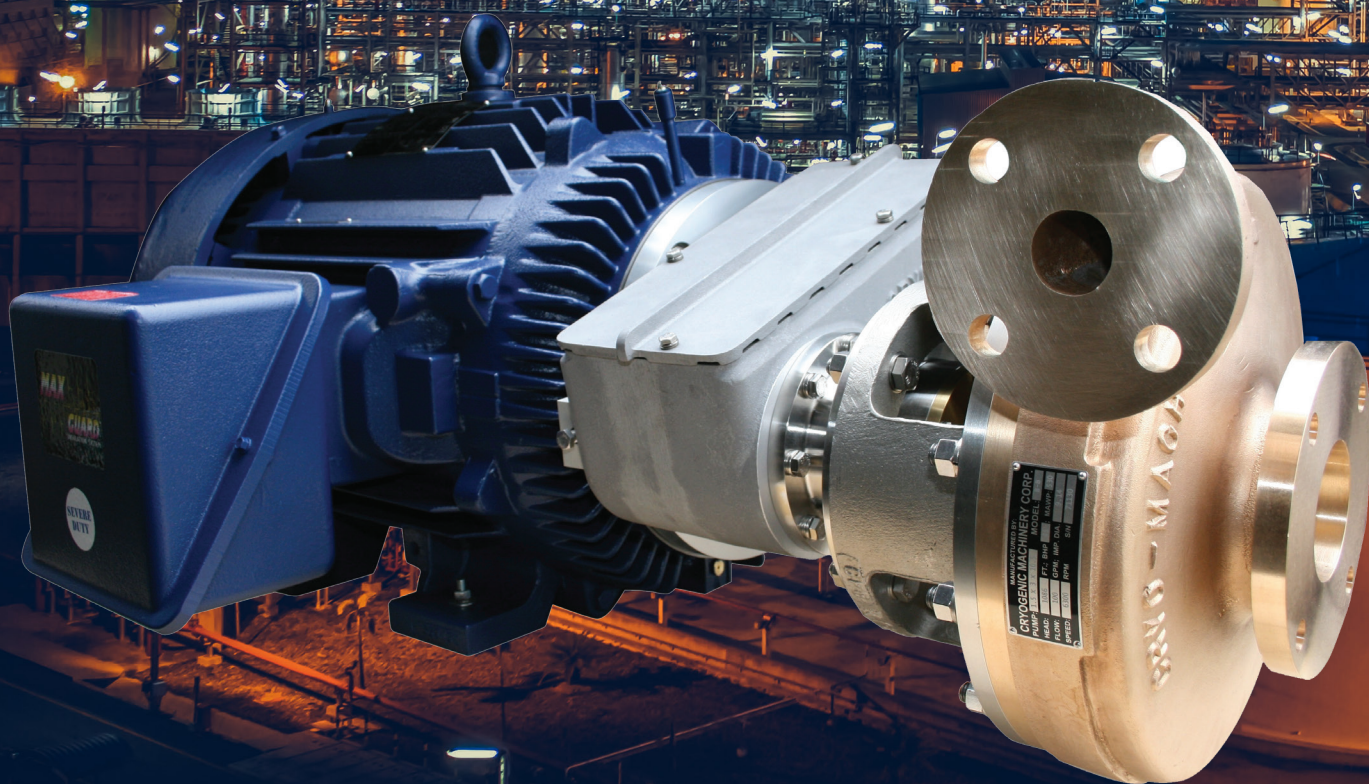


Reliable Cryogenic Pumps for Industrial Gas Operations

CRYO-MACH SERIES PRODUCT BROCHURE



Blackmer

Where Innovation Flows

Engineered Reliability for Industrial Gas Operations

CRYO-MACH Series Cryogenic Centrifugal Pumps

Blackmer Cryogenic Centrifugal Pumps are built to solve the everyday challenges industrial gas operators face: unplanned downtime, inconsistent flow, product loss and pressure to keep operations moving safely. Engineered for reliable handling of liquefied oxygen, argon and nitrogen, these centrifugal pumps deliver efficient performance across truck and trailer loading and unloading, vessel transfer, plant recirculation, pipeline backup, continuous processing and cylinder filling. The result is dependable uptime, protected product integrity and greater confidence in every transfer.

Features

SEALING

- Mechanical
- Dry Gas
- Labyrinth

INSTRUMENTATION

- RTDs
- Seal Leak Detection
- Bearing Temp

COLD MITIGATION

- Bearing Heaters
- Cold Shield

CUSTOM MOTORS

VFDS

SEAL SUPPORT SYSTEMS

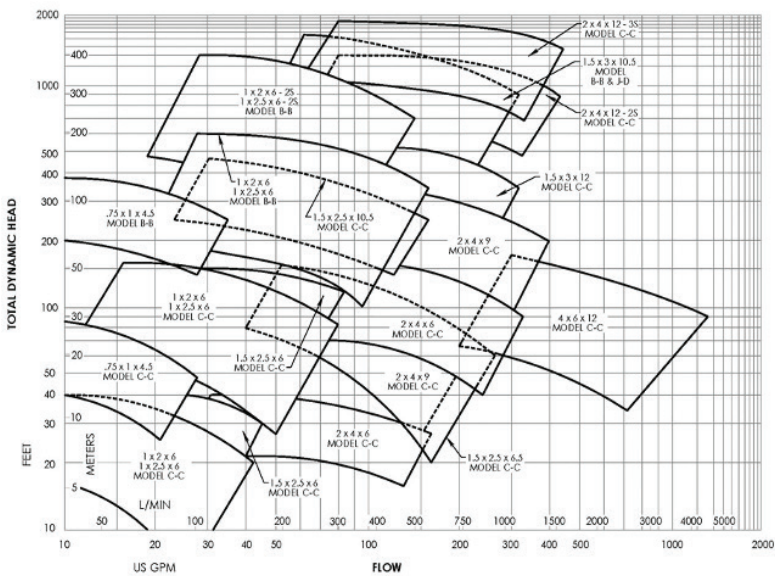
Key Applications

- **Truck & Trailer Loading/Unloading** – Reliable operation under frequent cycling
- **Vessel Transfer** – Precision handling between storage units
- **Plant Recirculation** – Continuous service with high durability
- **Pipeline Backup** – Cold standby or emergency response pumping
- **Cylinder Filling** – Compact solutions for liquid cylinder bottling
- **Continuous Duty Process** – Built for mission-critical uptime

Liquefied Gases

- Oxygen
- Ammonia
- Ethylene
- Nitrogen
- Methane
- LNG
- Argon

Hydraulic Performance



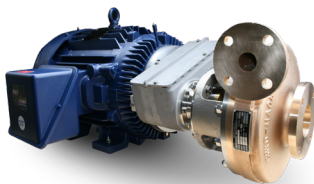
Selecting Your Perfect CRYO-MACH Pump

Blackmer CRYO-MACH Series Pumps are designed to meet the strict safety, thermal and performance demands of liquefied gas operations. Choose the hydraulic fit for your flow and pressure requirements, pair it with the right powertrain configuration (close-coupled, belt-box or hydraulic/PTO) and add optional features to match your application. The result is a pump package built to improve reliability, simplify operation and perform where downtime is not an option.

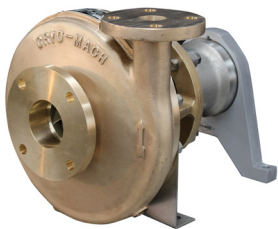
Power Trains



CLOSED-COUPLED



BELT-BOX



HYDRAULIC OR PTO

What Power Train is Best for Your Application?

EXPERTS IN CRYOGENIC LIQUID TRANSFER

Engineered for the logistics and transfer of cryogenic liquefied gases, CRYO-MACH pump solutions deliver reliable performance, whether the application involves trailers, pipelines or onsite process use.

SMALL OR LARGE VOLUME TRANSFERS

Intermittent or continuous duty? From truck loading and unloading to pipeline backup and process systems, proven experience and technical insight go into every pump. Additionally, the right powertrain can be built around your performance, efficiency and reliability requirements.

Application	Operation	Requirement	Power Train Type
Small & Medium Quantities (by Trailer) - Truck Loading - Truck Unloading - Trailer-Mounted	Intermittent	Reliability Simplicity Robustness	Hydraulic-Drive Jack-Shaft Drive Closed-Coupled Belt-Box
Large Quantities (by Pipeline) - Pipeline Back-Up - Process Pumps	Continuous	Reliability Cold Standby-By	Closed-Coupled



PSG Grand Rapids
1809 Century Avenue SW
Grand Rapids, MI 49503-1530
USA
P: +1 (616) 241-1611
info@blackmer.com
psgdover.com/blackmer



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