



4-STAGE GAS COMPRESSOR

CM4 series: for Dual Fuel Engine Gas Supply on DFDE LNG Carriers



Electric motor driven four-stage cryogenic/warm compressor, with variable diffuser vanes on first stage, complete with lube oil system, seal gas system, and accessories. Typically this machine delivers up to 5'500 m³/h of boil-off gas with

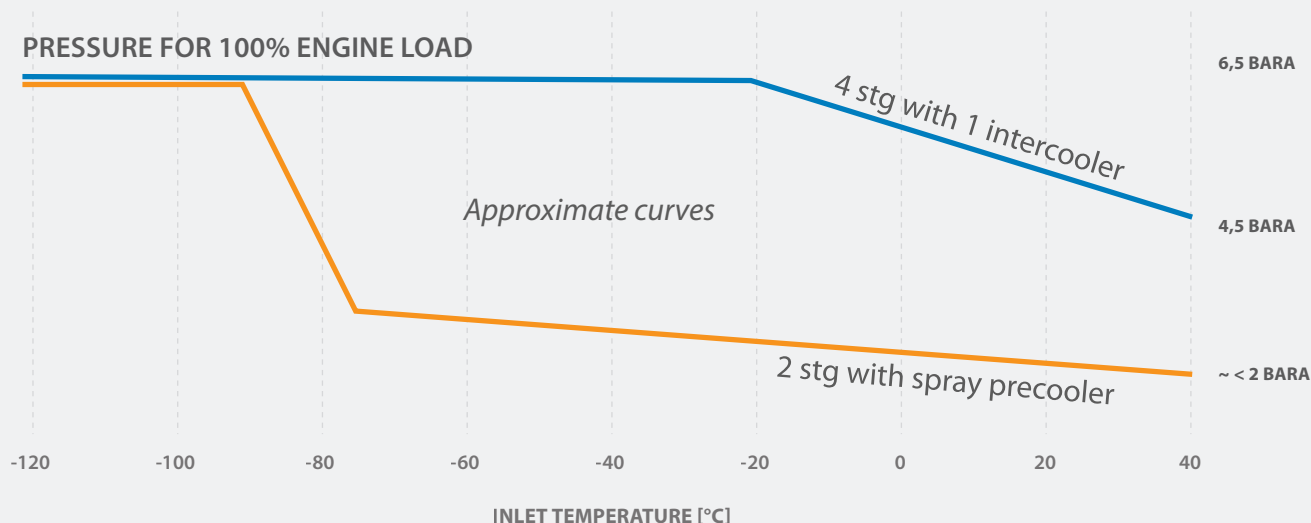
an inlet temperature as high as -20°C, at a delivery pressure of 6.5 bar a. The unit is installed on a single, rigid skid, with bulkhead, bulkhead seal and heavy-duty gearbox. For marine applications full certification is included.

KEY ADVANTAGES

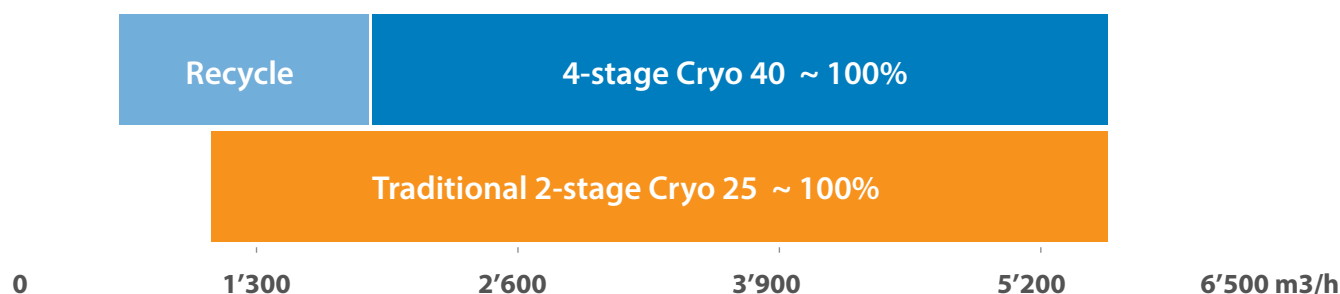
- ★ **COMPACT, SPACE SAVING ARRANGEMENT**
Small footprint allows simple onboard integration, and access for operation and maintenance.
- ★ **RIGID HEAVY-DUTY SKID**
Proper stability of the motor/compressor arrangement, for trouble-free operation.
- ★ **HIGH EFFICIENCY AND PERFORMANCE**
Smaller motor sizes squeeze cost and assure economic operation.
- ★ **ADVANCED, OIL-LUBRICATED BULKHEAD SEAL**
Accessibility for shaft alignment, no sealgas consumption, reliability and safe operation.
- ★ **INTEGRATED LOCAL PANEL**
Cabling and tubing done in the factory thus reduced installation cost for the shipyard.
- ★ **PROCESS INTEGRATION WITH THE CARGO HANDLING SYSTEM**
Cryostar provides a combined, well-integrated package with the Gas Heaters/Vaporizers.
- ★ **IAS INTEGRATION**
As an option, serial link to IAS, or fully redundant integration with selected IAS vendor.



4-Stage & 2-Stage relative performances : discharge pressure & flow range



Design Capacity & Rangeability



APPLICATIONS

★ FOR LNG CARRIERS

as Fuel Gas compressor to maintain the cargo tank pressure while supplying boil-off gas as fuel to the dual fuel engines and/or gas combustion unit during the voyage.

★ FOR LAND - BASED PLANTS

these units are supplied as Cryogenic Compressors, without bulkhead and designed according to API617 if required (with separate lube oil system).