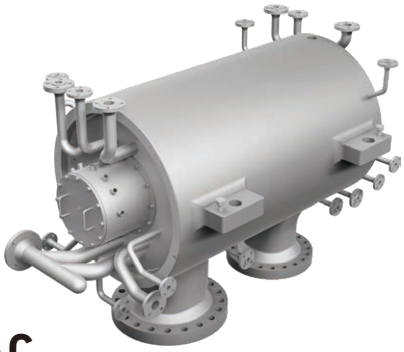
MITSUBISHI CO_2 Compressors Contributing to Building the CCUS Value Chain

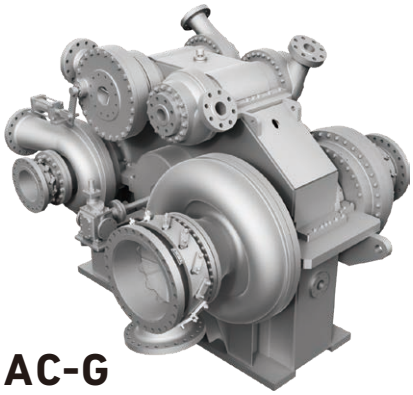
Mitsubishi Heavy Industries Compressor Corporation (MCO) offers two product lines for CO_2 compression: in-line/between bearing (MAC) and multi-shaft/multi-stage, also referred to as integrally geared (MAC-G). With a track record of supplying over 100 units for CO_2 service since the 1990's, MCO is well-equipped to provide the best-suited CO_2 compressors for customers' projects.

Horizontal split type

MAC



Vertical split type



MAC-G

Compressor features

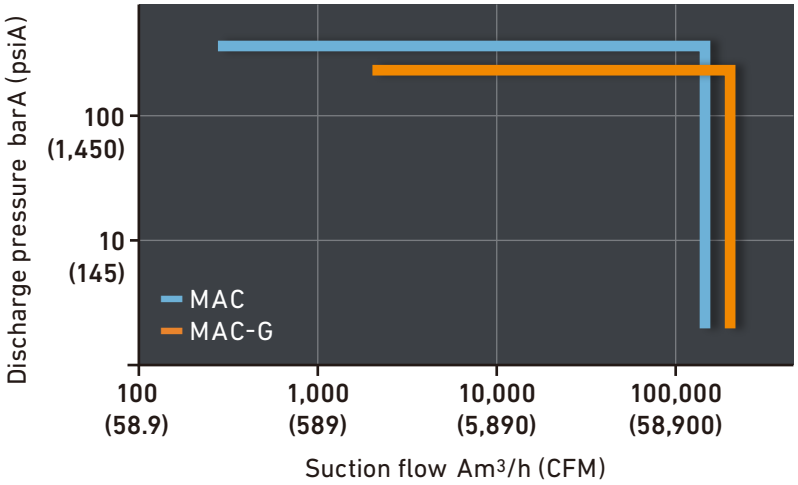
- Robust rotor dynamics design
- Stable superior performance
- Easy maintenance
- Reliable long term operation

Benefits to our customers

- High efficiency and low running cost
- Reliable continuous operation with minimum maintenance downtime
- Optimized compressor system
- Quick and excellent after-sales service

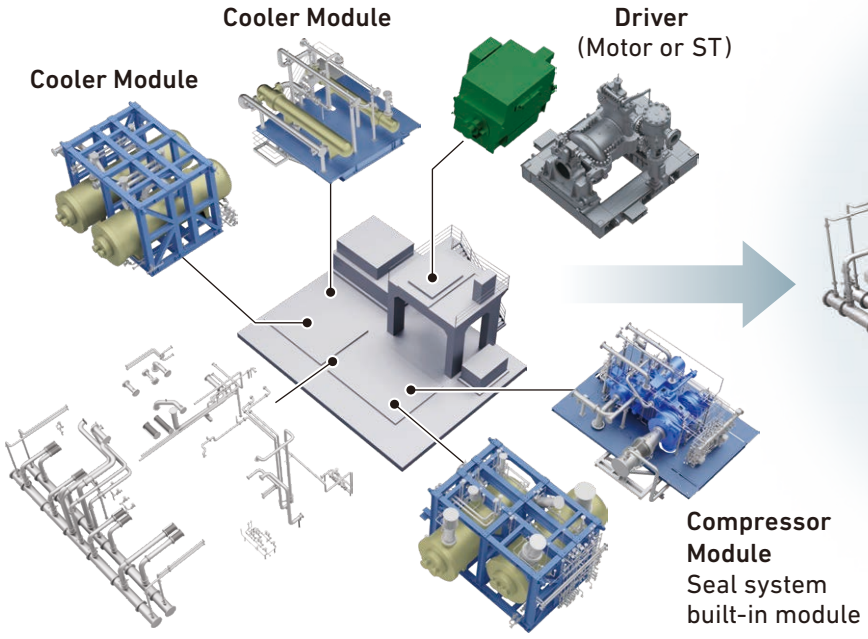
Typical Application Range for CCUS

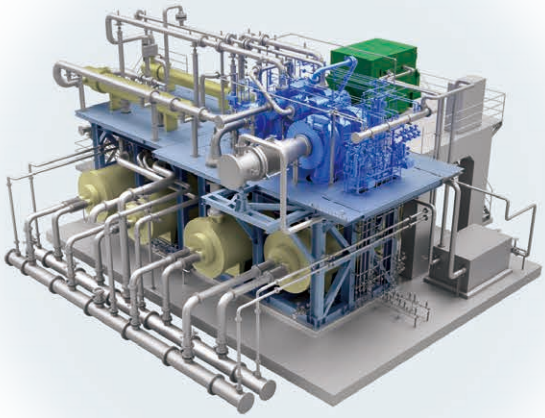
MCO's CO_2 compressors can accommodate volumetric flow ranges from less than 1,000 Am^3/h at near atmospheric pressure, up to hundreds of thousands Am^3/h at extremely high pressure.
Typical process requirements for CCUS applications are up to 400,000 Am^3/h at 200-250 barA discharge.



Modularized Package for MAC-G

- 4-module package design that considers transportation
- Piping inside the module is assembled in the workshop
- Amount of site welding work is minimized





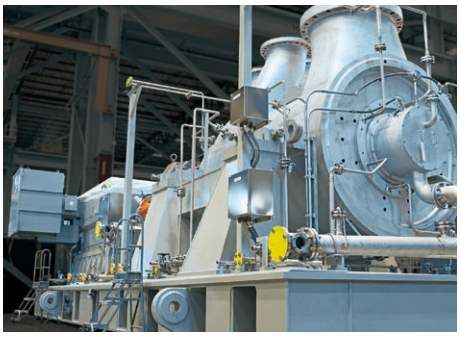
Module setup at site

Mitsubishi's Track record for CCUS

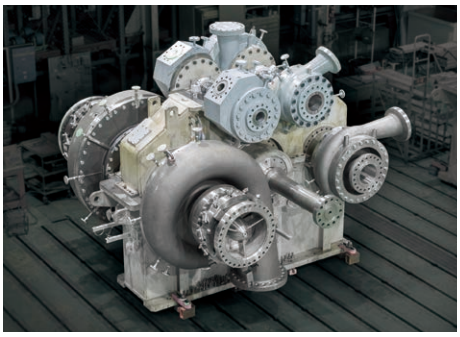
MCO provided world's largest class in-line and integrally geared CO_2 compressor for CCUS.

Delivery year	Country	Capacity (metric tons per day)	Compressor type
2003	Algeria	2,200 × 2	MAC
2010	USA	500	MAC
2016	USA	4,800	MAC-G
2024	Canada	3,400	MAC
2024	USA	3,300	MAC
2024	Qatar	4,000 × 2	MAC

World's first post-combustion CO_2 capture demo plant



MAC



MAC-G

World's largest CCUS plant

MITSUBISHI HEAVY INDUSTRIES | MISSION NET ZERO

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