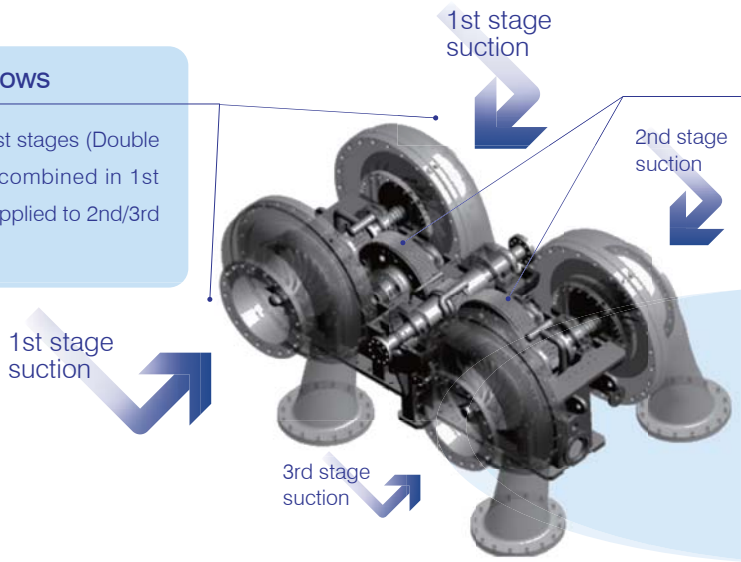
MCO Double Flow Integrally Geared Compressor (DF-IGC)

DF-IGC have Large flow with Compact body

Innovative Double Flow Arrangement

Double 1st stage flows

Gas stream from both 1st stages (Double flow construction) are combined in 1st stage intercooler and supplied to 2nd/3rd stages.



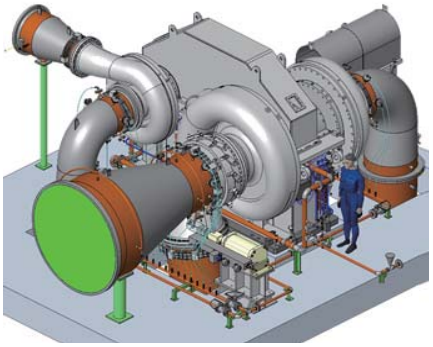
Idle Gear Arrangement

Idle gear arrangement avoids large bull gear and 6-pole or more Electric Motor (EM).

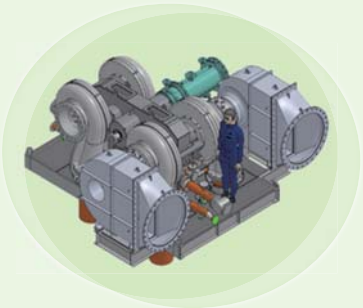
- Small size impeller for 1st stage
- Elimination of large bull gear
- Lower GD^2 & Starting torque
- Driven by 4(2)-Pole EM or Steam Turbine

Compact & Light weight | **Large flow application** | **Driver flexibility**

Conventional IGC
(Single Flow)



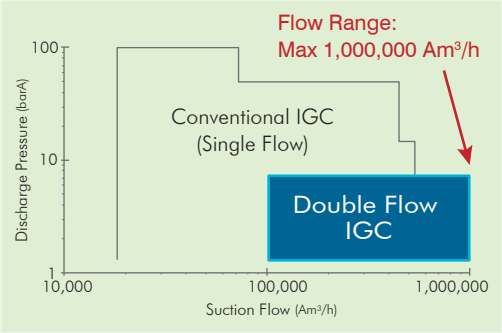
Improved IGC
(Double Flow)



The comparison with conventional IGC

- Weight : - 75 %
- Footprint : - 50 %

Flow capacity is up to 1,000,000 Am³/h.
It covers the largest flow range of IGC.



Shop demonstration

The demonstration was conducted successfully in our Hiroshima shop on 2013. It confirmed excellent mechanical, performance features and control functions.

- Inlet Flow : 110,000 Am³/h
- Disch. Pressure : 7.0 barA
- Driver : Steam Turbine
- Power : 9,500 kW

Double Flow IGC Model

MITSUBISHI HEAVY INDUSTRIES COMPRESSOR CORPORATION

For more information, please come to MCO website.
http://www.mhicompressor.com/