



When you need to compress any gas other than air, call Hycomp.

Performance Under Pressure™

CAPABILITIES

Standard models up to 1200 psig
Limited models to 3000 psig available
Up to 100 HP
1, 2, 3, and 4 stage units available
Flows to 500 scfm

Gases including Nitrogen, Argon, Helium, Natural Gas, Carbon Dioxide, LPG, Sulfur Hexafluoride, refrigerant gases, landfill reclamation gases, and many other compressible gases.

BENEFITS

- **MODULAR DESIGN:** allows for interchangeability of bore sizes and strokes, giving a wide range of capabilities with limited expense
- Compressor seals designed to positively contain harmful gases
- Piston Ring and Gas Packing materials are available for specific gas applications
- Gas Packings are full floating segmented type, for extra long life and positive sealing
- Piston rings are of extra thick, engineered polymers designed for specific applications
- Air and water cooling available
- Pressure lubricated lower end for long bearing life, utilizing oversized bearings
- Oil Free upper end prevents the addition of oil vapor to the gas stream and subsequent cleanup & removal
- Heavy duty cast iron or machined steel cylinders and heads decrease warpage and provide vibration dampening
- Large, low lift stainless steel valves give longer life and higher efficiencies, and are quickly accessible without removing the cylinder head
- Units are performance tested at the factory with minimum four hour test time, including simulation of customer specific conditions



Safe
reliable
FLEXIBLE

Trust... it's what we build.
Quality Compressors Since 1969.



MODEL
2WN150F-G321

GAS
Wet CO₂ & N₂

CAPACITY
141 scfm

INLET PRESSURE
1.5 psig

DISCHARGE PRESSURE
110 psig

INSTALLATION LOCATION
Hong Kong, China

THE USER

A Hong Kong based aluminum mill.

THE APPLICATION

Blanketing gas for the annealing of their aluminum sheet product. The gas is provided from an exothermic gas generator producing carbon dioxide, nitrogen and water vapor.

THE PROBLEM

Wet carbon dioxide is an acidic gas, etching piping and valves, and causing excessive ring and gas packing wear. Additional precautions were required to prevent the gas from leaking to the local environment where personnel are working.

THE SOLUTION

A pair of duplicate Hycomp Oil-Free Gas Boosters were installed, with extra precautions taken with the materials of construction. The two stage unit is water cooled to drop as much moisture as possible. All stainless steel piping, valves and heat exchangers were used to prevent corrosion of the system. Proper piston ring and gas packing materials were chosen to work with the wet CO₂, and the piston rods were tungsten-carbide coated for corrosion resistance. The stainless steel aftercoolers were over-sized to drop out as much moisture as possible before the gas entered the process piping.