



NG300E

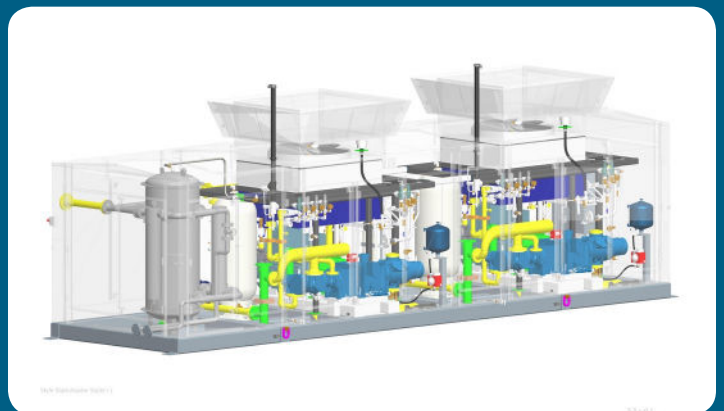
ELECTRIC MOTOR DRIVE ARIEL CNG COMPRESSOR PACKAGE

ANGI Energy Systems NG300E compressor is proven to be the robust, leading edge compression solution with a wide range of configurations and options to meet your specific fueling requirements.

Key Features & Benefits

- > Available in 2, 3, and 4 stage configurations for a wide range of inlet gas pressures
- > Ariel JGP or JGQ compressor frame
- > 75 – 300 HP drive motor configurations
- > Welded structural steel deck and framework
- > Powder coated sheet metal enclosure
- > Inlet and interstage gas filtration and fine coalescing final stage filtration for oil removal
- > Air-cooled interstage and final stage gas coolers, Inlet Emergency Shutdown Device valve, and captive recovery vessel
- > Skid mounted UL-listed control panel for NNNY Class 1 Div 2 hazardous locations
- > METLab Factory Certified to NFPA-52, NFPA-70, and CSA 12.8
- > Available in Simplex and Duplex packages and integrated systems that include the inlet gas dryer and valve panel on skid

Note: See ANGI Sales quotation and compressor performance run at customer specific conditions and for any additional features and options included.



Typical Specifications

Performance:

- > 4500 psig final discharge gas pressure
- > 5200 psig final stage design pressure / safety relief valve setting
- > Gas Inlet pressure and flow ranges:
 - > 4 stage: 15 – 195 PSIG, 340 – 890 scfm
 - > 3 stage: 78 – 480 PSIG, 340 – 1100 scfm
- > 20°F discharge gas approach temperature (15°F optional)
- > Standard ambient temperature range -20°F – 105°F (-29°C – 41°C)
- > Sound attenuating enclosure to 79dBA at 10 feet
- > All compressor packages undergo Factory Acceptance Testing with natural gas at project operating conditions at ANGI's dedicated test facility (Customers are invited to witness testing)

Construction:

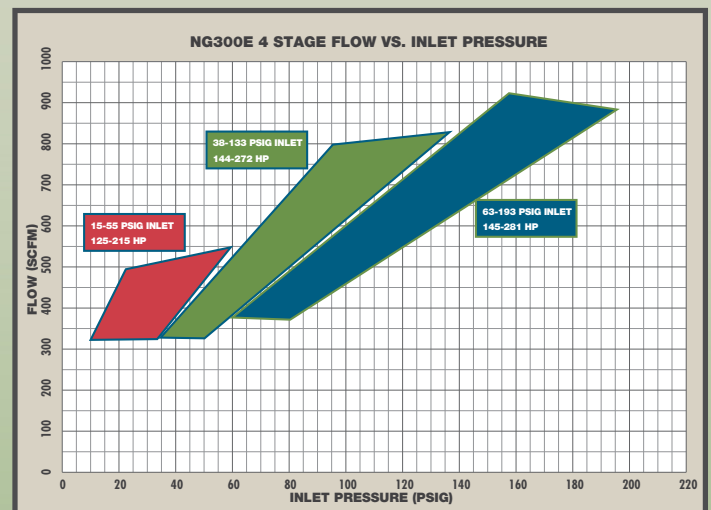
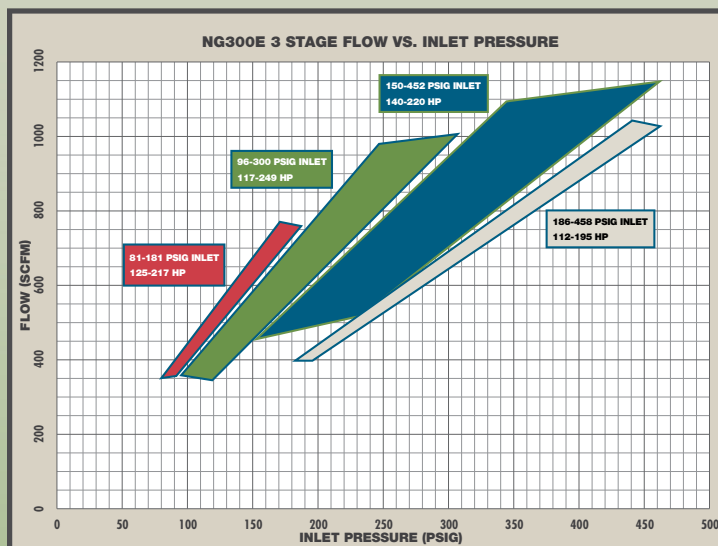
- > ANSI RF flange gas inlet connection
- > Stainless Steel tube fitting gas discharge connection
- > Welded gas piping, fabricated, examined, and tested per ASME B31.3
- > Stainless steel gas tubing with Seal Lok O-ring face seal fittings.
- > Welded structural steel framework and mounting deck
- > CNC machined compressor and motor mounting surfaces
- > Direct-coupled motor to compressor with torsionally rigid coupling
- > Interior and exterior anchor points
- > Powder coated steel enclosure with sound attenuating insulation
- > ASME vessel captive recovery tank
- > Inlet, interstage, and final discharge pressure relief valves
- > Particulate inlet filter
- > Coarse coalescing interstage filters
- > Fine pre-coalescing and coalescing final filtration at compressor discharge for oil removal

Controls:

- > On-skid control/termination panel, NEMA 4 enclosure, UL listed
- > Human-machine Interface (HMI) control panel
- > Remote monitoring capability with ANGIComm CP-400 communication panel
- > Off-skid motor starter panel with power distribution for all ANGI supplied equipment
- > Typical 480VAC 60Hz 3-phase main power, 120VAC 1-phase control power
- > Inlet, interstage, final discharge pressure transducers
- > Resistance temperature detectors at compressor discharge ports
- > Gas Inlet fail-closed Emergency Shutdown Device valve
- > Compressor oil pressure and temperature transmitters
- > Frame oil level switch
- > Cylinder lubrication flow sensor
- > Compressor frame vibration switch
- > Infrared (IR) gas detector

Optional Features:

- > On-skid dryer
- > On-skid priority valve system
- > On-skid time-fill valve system
- > Compressor frame vibration transmitters
- > Cooler frame vibration switch
- > Heating systems for extreme low ambient temperature conditions
- > Variable Frequency Drive control for gas cooling fans, controls fan speed per gas discharge temperature
- > Extreme hot and cold temperature packaging available
- > High Altitude (>2500ft) packaging available
- > Construction for applicable Canadian codes and requirements (575VAC, CSA components, CRN for pressure containing components as required)



ARIEL CORPORATION is the largest manufacturer of gas compressors in the world, and sets the standard in quality, reliability, and customer support. Ariel has built a reputation for safe, rugged, and long-lasting compressors and cylinders. Ariel's CNG compressors are based on the same designs that are used in field gas, process and transmission services, and are built to run 24 hours a day, 365 days a year.

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