



# **NG300E**

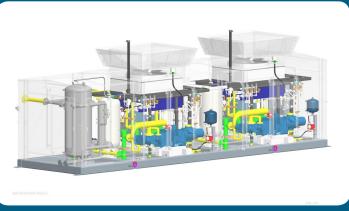
# **ELECTRIC MOTOR DRIVE ARIEL CNG COMPRESSOR PACKAGE**

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:**

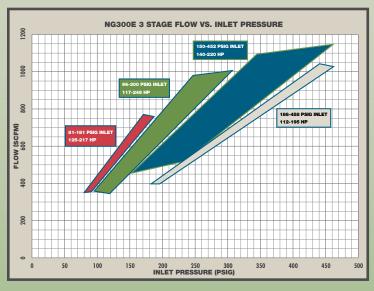
- > ANSI RF flange gas inlet connection
- > Stainless Steel tube fitting gas discharge connection
- Welded gas piping, fabricated, examined, and tested per ASME B31.3
- Stainless steel gas tubing with Seal Lok O-ring face seal fittings.
- > Welded structural steel framework and mounting deck
- > CNC 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

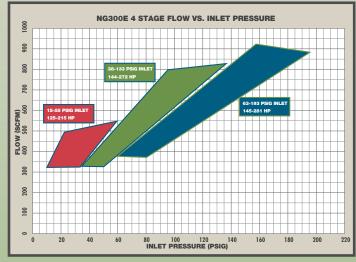
#### **Controls:**

- > 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.