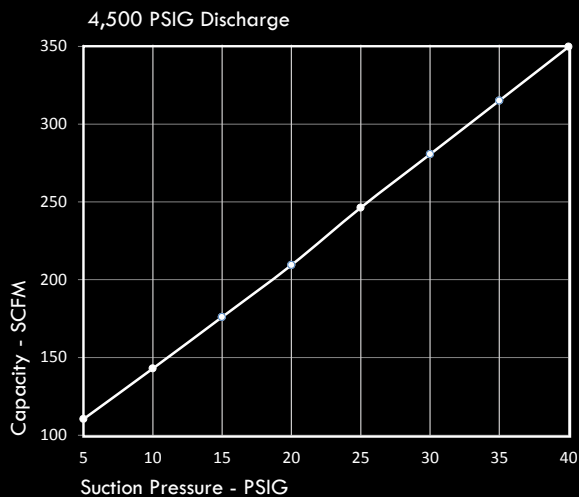
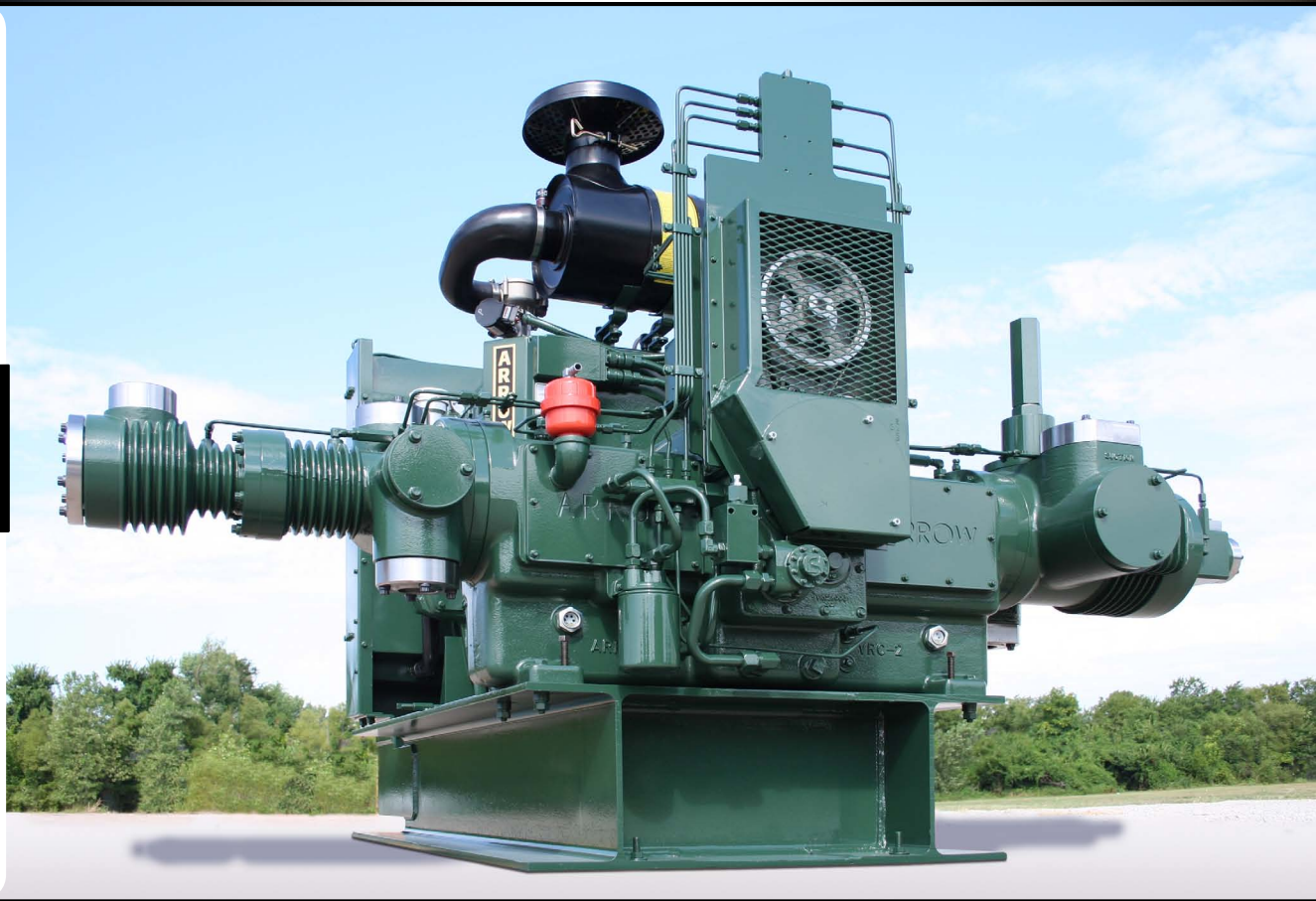


ARROW
COMPRESSION PRODUCTS

VRC-CNG

COMPRESSED NATURAL GAS

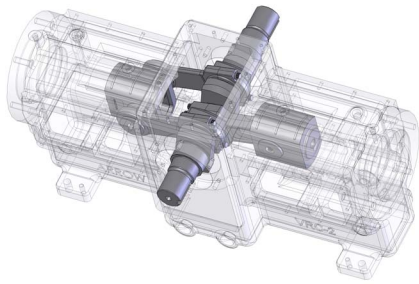


Arrow VRC-CNG / 8.5" x 4.25" x 2.25" x 1.125"
Rated @ 150 Horsepower
Motor or Engine Driven
First stage 8.5" cylinder rated 250 PSIG MAWP
Second stage 4.25" cylinder rated 750 PSIG MAWP
Third stage 2.25" cylinder rated 2500 PSIG MAWP
Final stage 1.125" cylinder rated 6000 PSIG MAWP

All compressor performance to be submitted to
Arrow Engineering for final results.

Measurements +/- 5% on a VRC-CNG at 1,000' elevation, 100°F ambient temperature, 70°F gas temperature, NG SG 0.6, 1,800 RPM.





Specifications

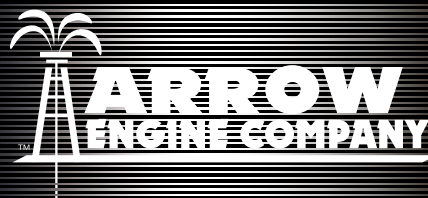
| | |
|-------------------------------------|----------------|
| Rated Horsepower Hp (Kw) | 150 (112) |
| Maximum Speed RPM | 1800 |
| Number Of Throws | 2 |
| Rod Load - Tension Lb (Kg) | 8000 (3629) |
| Rod Load - Compression Lb (Kg) | 8000 (3629) |
| Rod Load - Combined Lb (Kg) | 16,000 (7257) |
| Stroke In (mm) | 3 (76.2) |
| Piston Speed Ft/min (M/s) | 900 (4.57) |
| Crankshaft Diameter In (mm) | 2.50 (63.50) |
| Crankshaft Height To CI In (mm) | 12.75 (323.85) |
| Overall Length W/cyls. In (M) | 22.5 (.57) |
| Overall Width W/cyls. In (M) | 87 (2.21) |
| Unit Weight W/cyls. Lb (Kg) | 1700 (771) |
| Oil Pump Capacity (Gpm) (Lpm) | 4 (15) |
| Oil Heat Rejection Btu/hr (Kcal/hr) | 3750 (945) |
| Oil Sump Capacity Gal. (Liter) | 4 (15) |

Components

| | |
|---|-----------------------------|
| Crankshaft Main Bearing Diameter In (mm) | 3.346 (84.988) |
| Crankpin Diameter In (mm) | 2.447 (62.154) |
| Main Bearing Type | Spherical Roller |
| Connecting Rod Length CI-CI In (mm) | 7.375 (187.325) |
| Connecting Rod Bearing Width (Single) In (mm) | 1.604 (40.742) |
| Connecting Rod Bushing Width (Single) In (mm) | 1.750 (44.45) |
| Connecting Rod Bolts (Single) | (Four) 1/2" |
| Connecting Rod Bearing Width (Double) In (mm) | 0.802 (20.371) |
| Connecting Rod Bushing Width (Double) In (mm) | 0.875 (22.225) |
| Connecting Rod Bolts (Double) | (Two) 1/2" |
| Crosshead Surface In (mm) | 5.25 X 3.5 (133.35 X 88.90) |
| Floating Crosshead Pin Diam. In (mm) | 2.235 (56.769) |
| Piston Rod Diameter In (mm) | 1.125 (28.575) |

Materials

| | |
|-------------------------|--|
| Frame | Class 40 Gray Iron |
| Crankshaft | Forging With Induction Hardened Journals |
| Connecting Rods | Forging |
| Connecting Rod Bearings | Tri-metal |
| Crossheads | 65-45-12 Ductile Iron |
| Crosshead Pins | SAE 8620 Carburized |
| Crosshead Pin Bushings | SAE 660 Bronze |
| Piston Rods | SAE 4140 - Induction Hardened |
| Packing Rings | Carbon Filled Teflon w/ Cast Iron Backup Rings |
| Pistons | Aluminum or Ductile Iron |
| Piston Rings | Special High-Temperature Material |
| Cylinders | Ductile Iron & Steel Billet |



2301 E. Independence, Tulsa, OK 74110
 Toll Free (800) 331-3662
 Local (918) 583-5711 Fax (918) 699-2202
 Toll Free Fax (US & CA) (800) 266-1481
www.ArrowEngine.com