Quality Products
Engineered to Last

PACKAGES
GAS COMPRESSION PACKAGES

ARROW ENGINE COMPANY
A Tradition of Excellence
Since 1955
Custom Packaging Facilities

The Arrow Compression Products Packaging Division has a new, 25,000-square-foot state-of-the-art packaging facility. Ten bays support fabrication, assembly, and completed package test runs. Our employees are skilled welders, pipe fitters, instrumentation technicians, and mechanics with many years of cumulative experience in the compressor packaging business. Many of the shop personnel have 10 to 20 years of experience building compressor packages, which is demonstrated by the excellent package layout and design, high quality workmanship, and overall attention to detail.

Compressor Packaging Assembly
- 4 of 10 Assembly Bays
- 2 Test Run Bays
- 4 ea. - 5 Ton Overhead Cranes

Fabrication Bays
- 4 Fabrication Bays with ability of Welding in Mig, Flux core, Tig and Stick Process
- Hydro Test
- 4 Pin Wheels
- 1 Ton Portable Crane
- Plasma Cutter, Pipe Cutter 2” - 12”
- Iron Worker

Paint Shop
- Paint Booth with Dimensions (35” - 4’x29” - 3’)
- 35’ x 17’ Paint Booth Inside
- Paint Shop with Paint Kitchen

Warehouse / Shipping Receiving
- Warehouse Area (150’ - 2” x 19’ - 9")
- With 100’ x 19’ - 9” Fenced Area For Parts Control
- Various outside Major Equipment Storage Areas
- Hyster Forklift - 30,000 lb capacity
- 2 Yale Forklifts - 15,000 lb capacity
- Nissan Electric Forklift

ARROW ENGINE OPTIONS
A-32 22 HP @ 1200 RPM
A-42 (VR260) 47 HP @ 1800 RPM
A-54 (VR330) 68 HP @ 1800 RPM
A-54CF (VR330CF) 72 HP @ 1800 RPM
A-62 80 HP @ 1800 RPM
A-90 109 HP @ 1800 RPM
A-90 TA 150 HP @ 1800 RPM

ARROW COMPRESSOR MODELS
VRU-1 15 HP @ 600 RPM
VRL-2 30 HP @ 600 RPM
VRC-2 150 HP @ 1800 RPM
VRC-CNG 150 HP @ 1800 RPM
VRS-2 275 HP @ 1800 RPM

STANDARD PACKAGE COMPONENTS
- Heavy-duty oilfield skid
- Includes Loading lugs
- Ecology Rails/Drain Connections
- Built-in packing case drains
- Clean, low-maintenance design
- ASME coalescing fuel scrubbers
- Mist pads
- Automatic dump system
- Site glasses
- Heat trace capable
- Valves
- Pressure relief valves
- Gas cooler
- Fit-Form with manual louvers
- Control Panel
- Annunciator type with safety shutdowns
- Connections
- Shipboard cabling & connections
- Makeup
- Manual bypass/suction makeup
- Documentation
- 2 sets of package documents

Arrow Standard Packages

Arrow Compression Products has sold many Arrow engines and compressors to other packagers and has the unique capability of offering the engine and compressor mounted to a small sub-base coupled together and aligned precisely using laser alignment technology. This makes it easy for the packager to simply weld the sub-base to the main skid and have the major equipment already mounted, aligned, and ready to go.

The Arrow Packaging Division can package all the Arrow compressor models we offer, and will design them to our standard package design or to meet custom requirements.

Component Packaging

ARROW ENGINE OPTIONS
- Engine Drive or Electric Motor Drive
- Low BTU Carburization
- Standard or Critical Grade Silencers and Catalytic Converters
- Class I, Div. 2, Group D Capable
- Automatic Bypass System/Suction Makeup
- Air/Gas Starter System
- 12V/24V Electrical System
- Automatic Cooler Louvers
- Suction & Discharge Companion Flanges
- Trailer Mounting Available
- Meter Systems/Plumb for Gas Flow/Fuel Measurement
- Maintenance Spare Parts

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Gas Compression Packages
The Arrow VRC-2 is a two-throw separable reciprocating gas compressor. The horizontally opposed cylinders are accurately balanced for smooth running and long lasting durability at 1800 RPM. Unlike many other reciprocating compressors, the VRC-2 has a unique three-throw crankshaft configuration that eliminates opposing cylinder off-set and the vibration associated with traditional designs.

**VRC-2 FEATURES**

- 150 hp at 1800 rpm
- 3" Stroke
- Combined rod-load capability of 14,000 lbs
- Babbitted crossheads
- Double-acting and steeple cylinders from 2.25" to 8" diameter
- Variable volume clearance pockets
- Pressurized cylinder lubrication
- Hoerbiger valve design
- Carbon-filled Teflon® rings and packing

The VRC-2 compressors are also well suited for gas gathering, gas boosting and gas reinjection to enhance oil production and many other applications. We often package these with Arrow engines, but also offer the option to use other engines to meet our customer’s specifications.
The “Very Reliable Super Compressor” manufactured by Arrow is a two-throw separable reciprocating gas compressor rated for 275 horsepower at 1800 rpm. We use the same crankshaft design as our VRC-2, which utilizes a three-throw crankshaft that eliminates cylinder offset and allows the cylinders to run in the same plane. This state-of-the-art design greatly reduces vibration and produces the smoothest running reciprocating compressors in the industry.

The VRS-2 compressors are also well suited for gas gathering, gas boosting and gas reinjection to enhance oil production and many other applications. We often package these with Arrow engines, but also offer the option to use other engines to meet our customer’s specifications.
Arrow has developed special cylinders for the VRC-2 compressor to provide four stages of compression for high-pressure CNG filling station applications. Our CNG packages can be built with open-skid designs or in sound-attenuating enclosures.

The Arrow VRC-CNG is a two-throw separable reciprocating gas compressor. The horizontally opposed cylinders are accurately balanced for smooth running and long lasting durability at 1800 RPM. Unlike many other reciprocating compressors, the VRC-CNG has a unique three-throw crankshaft configuration that eliminates opposing cylinder off-set and the vibration associated with traditional designs.

VRC-CNG FEATURES

- 150 hp at 1800 rpm
- 3” Stroke
- Combined rod-load capability of 16,000 lbs
- Babbitted crossheads
- Variable volume clearance pocket
- Pressurized cylinder lubrication
- Hoerbiger’s latest valve design
- Carbon-filled Teflon® rings and packing

With the increasing trend to utilize compressed natural gas, Arrow has developed custom package designs using our specialized, high-pressure cylinder designs. Customers that want to transport CNG in tank trailers use our CNG compressor designs, custom sized for relatively high pipeline suction pressures. Packages are designed to fill these trailers in the field and to decant the trailers at the CNG station. Package can be built on portable skids and on trailers.

VRC-CNG Packaging

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COMPRESSED NATURAL GAS

With the increasing trend to utilize compressed natural gas, Arrow has developed custom package designs using our specialized, high-pressure cylinder designs. Customers that want to transport CNG in tank trailers use our CNG compressor designs, custom sized for relatively high pipeline suction pressures. Packages are designed to fill these trailers in the field and to decant the trailers at the CNG station. Package can be built on portable skids and on trailers.
The VRU-1 is designed to be perfectly suited as a Vapor Recovery Unit, as well as a small natural gas booster compressor. The VRU-1 is a small unit with a simple design, but it has been engineered with heavy duty components and extremely durable running gear, operating at a relatively low speed. These robust features make this unit more reliable and longer lasting than other compressors of this type.

The VRU-2 is a two-throw, two-stage compressor. Two VRU-1 compressor frames can be bolted together to make a VRU-2 two-throw compressor frame. The two-throw crankshaft is required for this, but essentially all other parts are a duplication of the same parts used in the VRU-1 compressor frame.

The VRU compressor, often used as a Vapor Recovery Unit, is typically packaged as a belt-driven compressor. The driver can be an electric motor or the EPA-certified Arrow A-32 engine.

Arrow Gas Products Division is the perfect compliment to our Packaging Division for all of your gas product needs. Our 30,000 sq. ft. facility and acres of fenced storage yard provide plenty of room for the specialized equipment needed to be a leading provider of gas products in the industry.
CONTROL PANEL
For in-the-field gas compressors

PROVEN RELIABLE HARDWARE
• Dependability
• LCD monochrome graphic display with integral LED backlight
• Oilfield tested and approved

PROGRAMMABLE FEATURES:
• Automatic start logic
• Pre-lube function for machine protection
• Fully programmed
• Custom applications available
• Keypad operator input

USER INPUTS / OUTPUTS:
• 24 digital inputs allow use of general purpose end devices
• 4 type K thermocouple inputs
• 4 digital outputs

GAS PRODUCTS
Meter Runs
Meter Skids
Volume Tanks
Coalescers
Structural Skids
2 & 3-Phase Separators
Fuel Gas Cond. Skid
Heater Treater
Indirect Heater
H2S Scavenger Unit
Dehydration Unit
Solar Chemical
Pumps
Chevron
Liquid Stabilizer

CHEMICAL PUMPS
10 Series
(electric)
12, 500, & 310 Series
(pneumatic)

COMPRESION PRODUCTS
Compressor Frames
VRC-2
VRS-2
VRS-4 (Coming Soon)
CNG Compressor Frames
& Packages
VRC-CNG
Vapor Recovery Units
VRU-1
VRU-2
Gas Lift Packages
Electric HP
Gas Engine (VR, A-Series, Cat)
Custom Compression Packages

REPLACEMENT PARTS
CATERPILLAR®
G379
F2895
F3551
F3108
WAUKESHA®
G369
L5790
L7042
G399
P9390
G3304
1450G/F18
1400G/F554
G3306
F18
H24
WAV/1187
FAIRBANKS®
ZC-118
ZC-208
ZC-300
ZC-729
ZC-346
AJAX®
5× 6½
EA-22, 6½ x 8 CMA
EA-30, 7½ x 10 CMA
EA-30, 7½ x 8 CMA
E-42, 8½ x 10 CMA
DE-60, 9½ x 10 CMA
DE-15/230, 1½ x 16
DE-70/80/160, 11 x 14 CMA

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