



**Quality Products
Engineered to Last**

PACKAGES

GAS COMPRESSION PACKAGES



ARROW™

ENGINE COMPANY

**A Tradition of Excellence
Since 1955**

Gas Compression Packages

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 Standard Packages

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
VRU-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	18.7' x 8.0'
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	Fin-fan 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

PACKAGE 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 /Tubes for Gas Flow/Fuel Measurement
- Maintenance Spare Parts

Component Packaging

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.

ARROW
COMPRESSION

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VRC-2 GAS COMPRESSOR

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 Packaging

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.

VRC-2 FEATURES

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



VRS-2 GAS COMPRESSOR

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.

VRS-2 Packaging

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.

VRS-2 FEATURES

- 275 hp at 1800 rpm
- 3" Stroke
- Combined rod-load capability of 20,000 lbs
- Separable distance pieces
- Babbitted crossheads
- Double-acting and steep cylinders from 2.25" to 10" diameter
- Variable volume clearance pockets
- Pressurized cylinder lubrication
- Hoerbiger's latest valve design
- Carbon-filled Teflon® rings and packing



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VRC-CNG GAS COMPRESSOR

COMPRESSED NATURAL GAS

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 Packaging

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 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



VRU Natural Gas Compressor

VAPOR RECOVERY UNIT

VRU-1

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.

VRU-2

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.

VRU Package

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.

Gas Products

ASME CODE VESSELS &
GAS MEASUREMENT EQUIPMENT

Arrow Facilities

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.

ARROW GAS PRODUCTS:

- ASME code vessels
- Separators
- Coalescers
- Process Equipment
- Gas Measurement Equipment
- Meter tubes
- Skid-mounted meter runs
- Packaged measurement stations

FABRICATION CAPABILITIES

- Sandblasting
- Hydrotesting & Chart Recorders
- Mathey Dearman Magnacut XL
- Cranes (2T, 10T, 2jib)
- Hem Saw
- Plasma Torch
- Sub-Arch Machine
- Welding up to 72" OD
- Can expand up to 108" OD and 20' long
- Welding Positioner 500# & Pinwheel for efficient and productive fitting
- 11 Welding Stations w/Miller Machines & Preston Easton Rolls
- Paint Booth
- ASME testing & inspection tools

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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



C-SERIES	C-46	C-66	C-96	C-101	C-106	C-255
A-SERIES	A-32	A-42	A-54	A-62 A-62 Turbo A-62 Genset	A-90 A-90 Turbo A-90 Genset	A-160 A-160 Turbo A-160 Genset
K-SERIES	K6					
L-SERIES	L-795					



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 Liquid Stabilizer
CHEMICAL PUMPS	10 Series (beam operated)	430 Series (electric)	12, 500, & 510 Series (pneumatic)	Solar Chemical Pumps	OEM & Aftermarket Spare Parts



COMPRESSION 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
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REPLACEMENT PARTS

CATERPILLAR®	G379	G398	G399	G3304	G3306
WAUKESHA®	F2895 F3521 F5108	L5790 L7042	P9390	145G/F817 140G/F554	F18 H24 WAK/1197
FAIRBANKS®	ZC-118	ZC-208	ZC-503	ZC-739	ZC-346
AJAX®	5x 6½	EA-22, 6½ x 8 CMA EA30, 7½ x 10 CMA EA-30, 7¼ x 8 CMA E-42, 8½ x 10 CMA		DP-60, 9½ x 10 CMA DP-115/230, 13½ x 16 DP-70/80/160, 11 x 14 CMA	

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