



**VECTOR 4700 NON-LUBRICATED
NITROGEN BOOSTER
COMPRESSOR PACKAGES**

APPLICATIONS:

- Aircraft Tire Inflation
- Autoclaves
- Beverage Manufacturing
- Bright Annealing
- Chemical Processing
- Coffee Packaging
- Electronic Manufacturing
- Enhanced Oil Recovery
- Fire Prevention Suppression
- Fruit & Vegetables Storage
- Food Packaging
- Fuel Tank Inerting
- Heat Treating
- Laser Cutting
- Lead-Free Soldering
- Leak Testing
- Pharmaceutical Manufacturing
- Pressure Testing
- Shipboard Inerting
- Sintering
- Wine Making



Applied Compression's Vector 4700 range of nitrogen booster compressors is designed specifically for applications requiring clean nitrogen at elevated pressures.

These pre-engineered compressor packages use modular design, which allows us to produce highly reliable, cost effective units with a large degree of flexibility.

As a provider of both standard and custom fabricated compressor systems, we have the expertise to design and supply the most cost-effective package for your nitrogen compression requirements.

Vector 4700 Series packages are designed and fabricated here in North America ensuring compliance with local code requirements including UL, CSA, ASME and OSHA.

Each unit is completely assembled and tested under load to make sure it leaves our plant in perfect operating condition.

These compressors employ up to three oil-free single acting cylinders with can be configured in a 1, 2 or 3 stage configurations.

Contact us today to discuss your specific application requirements.

PLEASE TAKE A MOMENT TO LEARN ABOUT WHY VECTOR 4700 SERIES COMPRESSOR PACKAGES ARE YOUR BEST VALUE IN THEIR SIZE RANGE. THESE COMPRESSOR FEATURES WILL SAVE YOU TIME AND MONEY IN THE LONG RUN.

PRE-ENGINEERED/MODULAR PACKAGE DESIGN – These pre-engineered compressor packages use modular design, which allows us to produce highly reliable, cost effective units with a large degree of flexibility.

Every package is completely assembled and tested under load to make sure it leaves out plant in perfect operating condition.

FLEXIBLE DESIGN – Twelve-cylinder sizes ranging from 1.50” to 8.50” provide unmatched flexibility in meeting specified operating conditions.

NON-LUBRICATED CYLINDERS – self-lubricating piston rings eliminate the need for a crankcase oil make-up system.

DUCTILE IRON CYLINDERS - for maximum thermal and mechanical shock resistance.

PRESSURE LUBRICATION – a frame-driven lube oil pump provides clean positive lubrication to all moving parts through a full-flow spin-on oil filter.

PACKING CASE & DISTANCE PIECE – Vector 4700 Series compressors are equipped with a true distance piece with 3-seal design as standard are available with packings suitable for suction pressures from vacuum to 100 PSIG or 50 to 800 PSIG.

VALVES – are non-metallic Hoerbiger type.

ELECTRIC MOTORS – are WEG brand Severe Duty, Premium Efficiency cast iron frame, TEFC electric motors with a 1.25 service factor. Inverter duty certified for 20:1 CT and 1000:1 VT.

ENGINEERED FOR MAXIMUM SAFETY – All packages are manufactured to ASME code as well as all provincial/state electrical code requirements. Pressure vessels are hydrostatically tested for complete user safety and equipped with approved ASME code safety relief valves.

FULLY ENCLOSED BELT GUARD - meets OSHA requirements and provides operator protection on all sides.

NON-PROPRIETARY COMPONENTS – Wherever possible, we use non-proprietary, brand name, industry standard components allowing qualified local compressor service providers to maintain your compressor package.

CADD DESIGN – We utilize a Computer Aided Design and Drafting (CADD) system, so we can provide you with a detailed look at your compressor package before it's manufactured.

DETAILED PARTS & OPERATING MANUALS – Each compressor package manufactured by us comes with a set of in-depth parts and operating manuals, so you can clearly understand the operation and maintenance requirements of the equipment.

QUALITY CONTROL DOCUMENTATION – On completion, you are provided with detailed quality control documentation including material test reports (MTRs), hydro-test reports, x-ray certificates, welder qualifications, weld mapping, ASME U1A forms etc., ensuring safe equipment operation for years to come.

STANDARD EQUIPMENT:

- Non-lubricated reciprocating gas compressor
- TEFC electric motor
- V-belt drive with OSHA belt guard
- Inlet expansion tank
- Automatic inlet shut-off valve
- Automatic starting unloader
- Full voltage motor starter with overload relays, control voltage transforming hour meter and dual control selector (automatic start/stop or continuous run). Panel is mounted and pre-wired.
- High/low suction pressure safety shutdown
- Low oil pressure switch with fault indicator
- High temperature switch with fault indicator
- Suction pressure gauge
- Discharge pressure gauge
- Oil pressure gauge
- Structural steel baseplate

Vector 4700 Series compressors are available in single, two and three-stage versions suitable for pressure up to 1500 PSIG.

The following charts will provide information on common configurations.

Please contact us for conditions other than those shown.

VECTOR 4700 SINGLE STAGE N2 BOOSTERS

MODEL	HP	MIN INLET PRESSURE	MAX INLET PRESSURE	MAX DISCHARGE PRESSURE	BORE	STROKE	FLOW RATE SCFM	MAX INLET TEMP	RPM
V1LRG35-10	10	125	135	525	3.5	3.50"	65	90° F	560
V1LRG35-15	15	125	135	525	3.5	3.50"	95	90° F	770
V1LRG35-20	20	125	135	525	3.5	3.50"	110	90° F	1200
V1LRG55-25	25	125	135	525	3.5	3.50"	162	90° F	560
V1LRG55-30	30	125	135	525	3.5	3.50"	196	90° F	680
V1LRG55-40	40	125	135	525	3.5	3.50"	256	90° F	890
V1LRG55-50	50	125	135	525	3.5	3.50"	316	90° F	1200

VECTOR 4700 TWO STAGE N2 BOOSTERS

MODEL	HP	MIN INLET PRESSURE	MAX INLET PRESSURE	MAX DISCHARGE PRESSURE	BORE	STROKE	FLOW RATE SCFM	MAX INLET TEMP	RPM
V2LRG35-10	10	125	115	525	3.75 X 2.5	3.50"	50	90° F	560
V2LRG35-15	15	125	115	525	3.75 X 2.5	3.50"	76	90° F	630
V2LRG35-20	20	125	115	525	3.75 X 2.5	3.50"	100	90° F	825
V2LRG55-25	25	125	115	525	3.75 X 2.5	3.50"	121	90° F	1000
V2LRG55-30	30	125	115	525	3.75 X 2.5	3.50"	139	90° F	1200
V2LRG55-40	40	125	115	525	3.5 X 3.5 X 3.5	3.50"	206	90° F	975
V2LRG55-50	50	125	115	525	3.5 X 3.5 X 3.5	3.50"	254	90° F	1200



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