ROGERS

Quincy Northwest V Series

Variable Speed Rotary Screw Air Compressors

50 – 350 HP
100 – 150 PSIG
34 – 1602 ACFM

Lubricant-Injected ▼ Single Stage

The Rogers QNW V Series is an energy efficient, variable-speed, rotary screw air compressor designed to minimize your power cost and maximize reliability.

www.rogers-machinery.com

Inside the QNW V Series

The Quincy Northwest V Series is a variable speed, single stage, lubricant injected, rotary screw air compressor. The compressor assembly is designed to maximize part-load system efficiency.

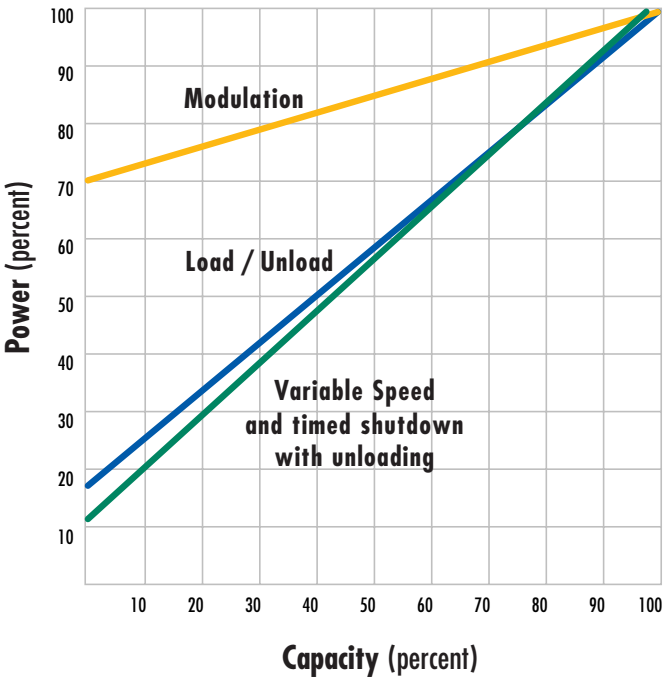
Compressed air systems are dynamic in nature. The V Series is intended to supplement your base-load compressor or compressors to satisfy varying compressed air demands in the most efficient way. Our V Series combines Quincy Northwest reliable full-load performance with efficient part-load variable speed controls.

By controlling compressor output to match system demand, substantial energy savings can be achieved. Compressed air energy savings flow directly to your bottom line.

In addition, the adjustable speed drive limits in-rush current at start up, reducing your peak demand, providing more energy cost savings.

The chart below illustrates the energy savings of our variable speed compressors.

Typical Energy Savings with Variable Speed Control
Timed shutdown delay is field adjustable from 1 minute to infinity (never shutdown).



The QNW V Series Assembly Offers:

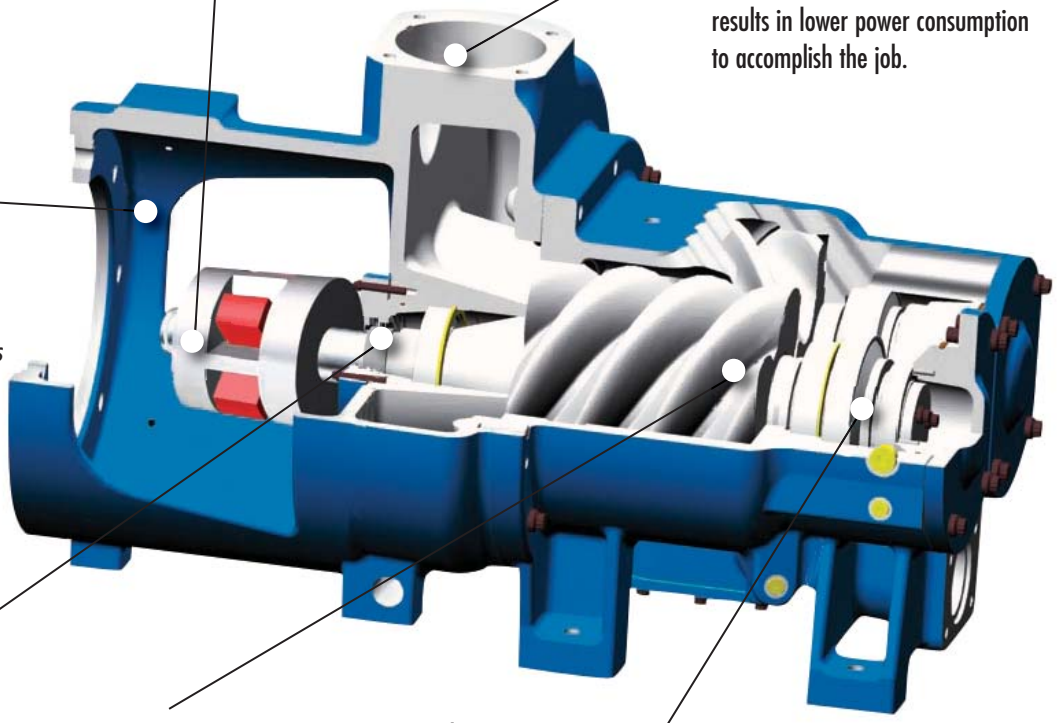
- State of the art energy efficient controls.
- Compressor output matches system demand.
- Constant pressure eliminates large pressure differentials.
- Adjustable speed drive limits starting current in-rush.
- Direct Drive, non-geared air end.
- High efficiency rotor design results in maximum air flow using minimal horsepower.
- Compressor controls that offer the flexibility to efficiently tailor compressor operation to specific site conditions and requirements.
- Full factory-monitored maintenance program.
- Triplex bearings are designed to ensure long life. This superior three bearing arrangement consistently provides longer life than competitive machines.
- The V Series shaft seal is a triple-lip type design. This design is more reliable than a mechanical seal.
- Rogers CLS46 synthetic compressor lubricant provides extended lubricant life.
- CSA listed control panel.
- Service and parts available 24 hours/day.
- Compressor designed, assembled and tested in Centralia, Washington.
- All major components made in the USA.

Quincy Northwest V Series

OUR GUARANTEE

If you notify us that you have an emergency and require a standard part or service for your Rogers compressor, we will ship the part and/or initiate the service within 24 hours or you will not have to pay for either or both.

The QNW V Series Air End Is The Heart Of The Compressor's Reliability



Flexible wrap-type coupling to protect the air end and motor.

Axial flow inlet housing improves compressor efficiency by 3–5% over traditional radial flow designs. This results in lower power consumption to accomplish the job.

C-face motor mount* ensures longer coupling life and quieter operation.

**C-face mount not available on 50 HP and 350 HP assemblies*

Triple lip shaft seal with scavenge back to airend provides unequaled reliability in this crucial area.

High-efficiency rotor design results in maximum air flow using minimal horsepower. Years of rotor profile development have improved efficiency more than 20% over earlier designs.

Rugged triplex bearings provide 30–100% longer life than competitive machines.

The assembly offers:

Triplex Bearings
The triplex tapered roller bearings are designed to ensure longer life. The B-10 life is rated at 130,000 hours of operation. This superior three bearing arrangement consistently provides longer life than competitive machines.

Shaft Seal
The V Series primary shaft seal is a triple-lip type design. This design is more reliable than a mechanical seal.

Lubricant
Rogers CLS46 synthetic compressor lubricant provides extended lubricant life.

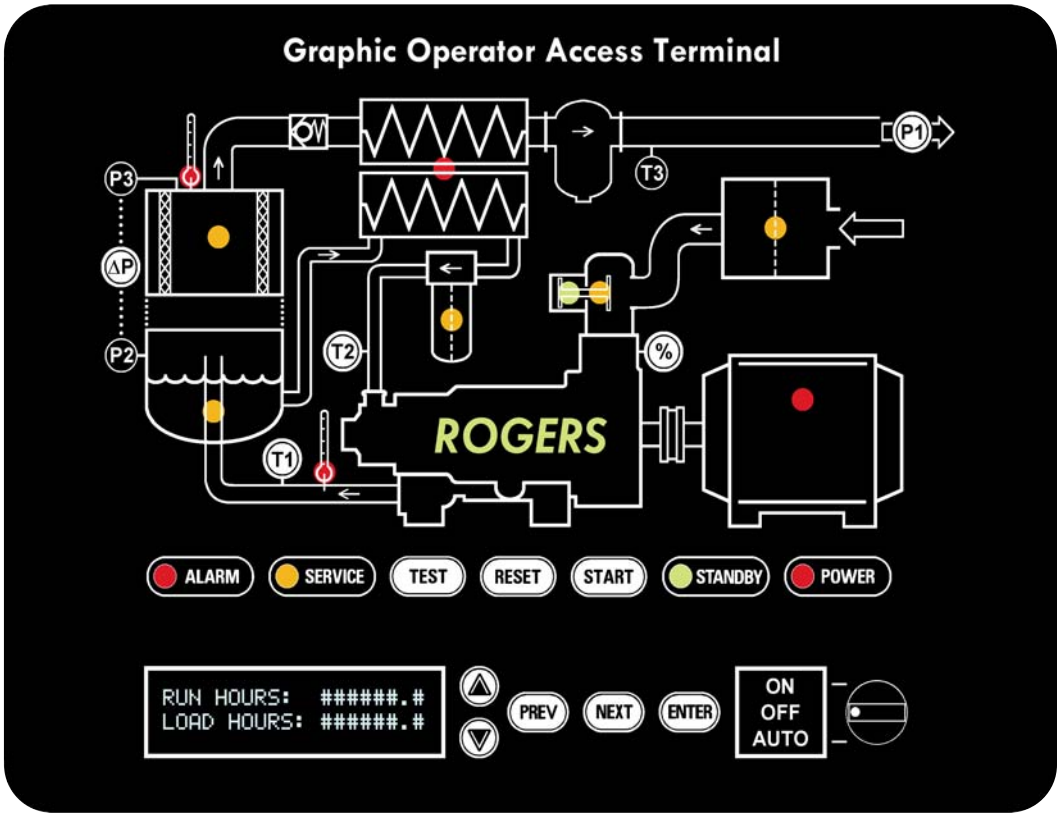
Energy Efficient
Unloaded brake horsepower is approximately 9% or less of full load, the lowest in the industry.

Slow Speed Rotors
The male rotor is direct driven and non-geared. It runs at motor speed, maximizing efficiency and minimizing wear while performing at a low noise level.

Warranty
The standard 5 year air end and motor warranty is the best in the industry.

Rogers Graphic Operator Access Terminal provides state-of-the-art compressor control

The Graphic Operator Access Terminal is a microprocessor control designed to monitor, regulate, and protect the compressor. Sensors continuously transmit temperature and pressure information to the processor. This data allows the most efficient compressor operation, annunciation of proper service intervals and alarms, and initiates shut down due to abnormal operating conditions.



Easy To Use Control Panel And Message Display Provides Complete Compressor Control

LED Indicators–Operating Status

- Power
- Standby (automatic operation)
- Service
- Alarm
- Compressor operating
- Compressor loaded
- Compressor unloaded

Service, With Displayed Message

- Air inlet filter ΔP
- Separator element ΔP
- Lubricant hours
- Lubricant filter ΔP
- Air inlet filter element hours
- Lubricant separator element hours

Alarm Warnings

- High air lubricant temperature
- High aftercooler discharge temperature

Message Display–Operating Information

- Compressor capacity (%)
- Delivered air pressure (P1)
- Separator differential pressure (ΔP)
- Discharge air temperature (T1)
- Lubricant injection temperature (T2)
- Aftercooler discharge temperature (T3)
- Total running hours
- Total loaded hours

Service Information

- Hours until next service, date of last service
- Air inlet filter
- Separator element
- Lubricant
- Lubricant filter
- Drive motor bearings
- Historical list of service dates

Shutdowns

- High air/lubricant temperature
- High air temperature
- Drive motor overload
- Fan motor overload (air-cooled)
- Drive fault

Operators–Selector Switch Legend Insert

- ON/OFF

Keypads

- START - Run compressor
- RESET - Reset alarm
- TEST - Test indicators
- % - Shows compressor capacity
- P1 - Shows outlet air pressure
- ΔP - Shows separator differential
- T1 - Shows compressor temperature
- T2 - Shows lubricant temperature
- UP arrow - display control
- DOWN arrow - display control
- PREV - Navigate display messages
- NEXT - Navigate display messages
- ENTER - Accept set point

Diagnostics

- Microprocessor power indicator
- Processor input status - 16 LED's
- Processor output status - 8 LED's
- Test key enables battery power for off-line display of information

V Series Equipment and Features

STANDARD EQUIPMENT AND FEATURES

All V Series assemblies include the following equipment and features:

- Control system capable of maintaining system pressure with ±2 PSI pressure differential
- Heavy-duty fabricated steel base
- Premium efficiency inverter, duty, open drip-proof motor
- Flex-type coupling
- Flange mounted motor except V-50 and V-350
- Dual air/lubricant separator elements with scavenging sight glasses
- Spin-on, full flow, 12µ lubricant filters with internal bypass valve
- Air-cooled or water-cooled with automatic temperature control
- Heavy duty, multi stage inlet air filter/silencer
- Air or water-cooled aftercooler
- Separator and automatic drain
- Load/unload control at minimum RPM with timed shutdown (adjustable)
- SAE O-ring fittings on all lubricant pipe connections larger than 1/4 inch in diameter (except drains)
- ASME pressure relief valve
- Proportional variable speed control, with load/unload set points
- Discharge air check valve
- Solenoid operated blowdown valve with muffler
- Two high temperature shutdown devices
- Lubricant level indicator
- All major components manufactured and assembled in the USA
- CSA/UL listed components
- CLS46 synthetic lubricant. Other lubricants available
- E-Stop button
- Single source drive and motor combination

OPTIONAL EQUIPMENT AND FEATURES

The following optional equipment and features are available on any V Series assembly:

Energy Conservation

- Air reheater
- Variable speed cooling fan drive (air-cooled only)
- Heat recovery

Compressor Control

- Duty sequencer provides the most efficient control for multiple compressor installations
- Electrical control interfaces
- Single set-point PI(D) speed control available

Additional Options

- Enclosure
- Instrumentation and annunciation to meet your needs
- Remote run capability
- Auto restart after power failure
- Vertical discharge or remote cooler assemblies
- Real time communication for compressor condition
- Air inlet pre-separation
- High ambient air-cooled coolers

Our Five Year Umbrella

When you decide to purchase the finest rotary screw air compressor assembly available, you can choose to eliminate the service obligation that is inherent in all mechanical equipment. By enrolling in our factory service program, you can extend the life of the assembly. If you enroll at start-up, you get a five-year warranty for the entire assembly.

We offer the best selection of high-quality equipment you'll find anywhere, with a full range of services to back it up.

ONE YEAR WARRANTY:

- Complete assembly.

THREE YEAR WARRANTY:

- Variable frequency drive.

FIVE YEAR WARRANTY:

- Air end and main drive motors.
- Entire package with service agreement.

Contact Our Sales Department With Your Requirements

V Series Performance Data

Model	Motor Rating	Capacity ACFM* @100 PSIG	Maximum Working Pressure	Male Rotor Speed RPM
QNW-V50 100PSIG	50 HP	35-247	115 PSIG	900-4500
QNW-V50 125 PSIG	50 HP	34-220	140 PSIG	900-4080
QNW-V75 100 PSIG	75 HP	86-331	115 PSIG	900-3000
QNW-V75 125 PSIG	75 HP	85-283	140 PSIG	900-2610
QNW-V100 100 PSIG	100 HP	116-466	115 PSIG	900-3600
QNW-V100 125 PSIG	100 HP	111-382	140 PSIG	900-3120
QNW-V125 100 PSIG	125 HP	141-545	115 PSIG	900-3600
QNW-V125 125 PSIG	125 HP	139-487	140 PSIG	900-3180
QNW-V150 100 PSIG	150 HP	180-703	115 PSIG	900-3540
QNW-V150 125 PSIG	150 HP	179-616	140 PSIG	900-3120
QNW-V200 100 PSIG	200 HP	244-918	115 PSIG	900-3420
QNW-V200 125 PSIG	200 HP	241-815	140 PSIG	900-3060
QNW-V250 100 PSIG	250 HP	306-1210	115 PSIG	900-3600
QNW-V250 125 PSIG	250 HP	298-1020	140 PSIG	900-3090
QNW-V300 100 PSIG	300 HP	369-1354	115 PSIG	900-3330
QNW-V300 125 PSIG	300 HP	364-1187	140 PSIG	900-2940
QNW-V350 100 PSIG	350 HP	492-1602	115 PSIG	900-2940
QNW-V350 125 PSIG	350 HP	487-1412	140 PSIG	900-2610

**Air delivery in accordance with CAGI/Pneurop Standard PN@CPT2. All data subject to change without notification. Consult factory for other pressures or custom configuration.*

Reliability

There are good reasons why there are more Rogers QNW Series compressors in use in the Pacific Northwest than those from all other manufacturers combined.

Commitment to Quality and Service

The Rogers commitment to customer service is unequaled.

Engineering

Quincy Northwest rotary screw compressors are designed for all industrial users, large or small. QNW compressors are of the highest quality, efficiency and reliability.

Sales

Our experienced and professional sales staff will make recommendations based on your needs and specifications. The entire Rogers organization stands behind each recommendation, assuring everything will be done as requested.

Fabrication

Quincy Northwest compressors are assembled by expert technicians in our Centralia, Washington facility.

These technicians interface directly with engineering, sales and application personnel involved with your order.

This continuous communication at all levels is an important factor in delivering quality assemblies at the time you specify. Our quality inspectors check each assembly before shipment to ensure the equipment delivered meets your requirements.

Service

After your compressor has been installed, one of our field service technicians will visit your plant to:

- Check the installation
- Start the compressor
- Ensure proper operation
- Train your personnel
- Service compressor as needed
- Review Service agreements

Our parts and service departments are available 24 hours a day, 7 days a week. We will meet your needs quickly and expertly.

Dimensions – Air-cooled/Water-cooled*

Model	L (inches)	W (inches)	H (inches)	H** (inches)	VFD Location	Approximate Weight Air/Water
QNW-V50	86	60	58	8	*F	3025/2875
QNW-V75	96	60	62	12	*F	4100/3850
QNW-V100	100	63	64	12	*F	4775/4575
QNW-V125	116	58	74	15.5	*L/vSP	4725/4925
QNW-V150	116	58	74	15.5	*L/vSP	5400/5200
QNW-V200	125	70	89	27	*L/vSP	7200/7000
QNW-V250	125	75	89	27	*L/vSP	7750/7500
QNW-V300	125	75	89	27	*L/vSP	8500/8250
QNW-V350	129	75	92	27	*L/vSP	8950/8700

Not for construction.

VFD LOCATION

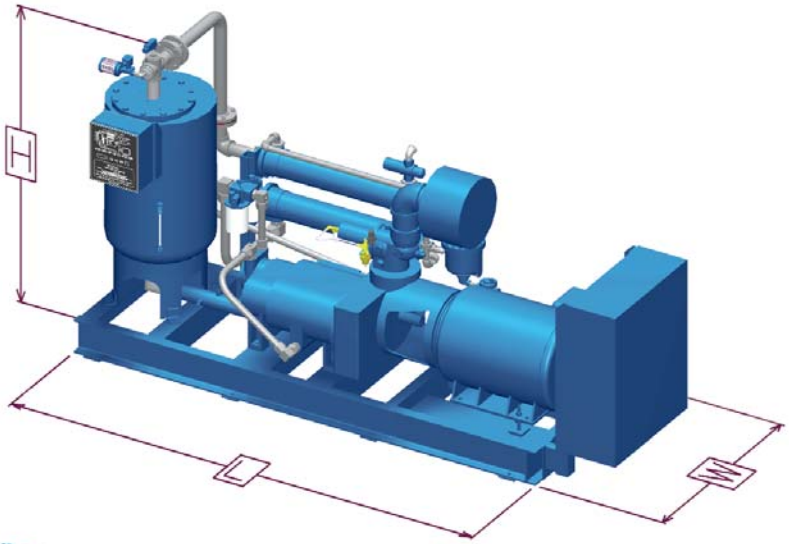
**F VFD is mounted on the control panel side of the compressor assembly unless special ordered.*

**L/vSP VFD is shipped loose to be installed by customer. Standard compressor comes with a single point electrical connection mounted on the control panel side of the assembly.*

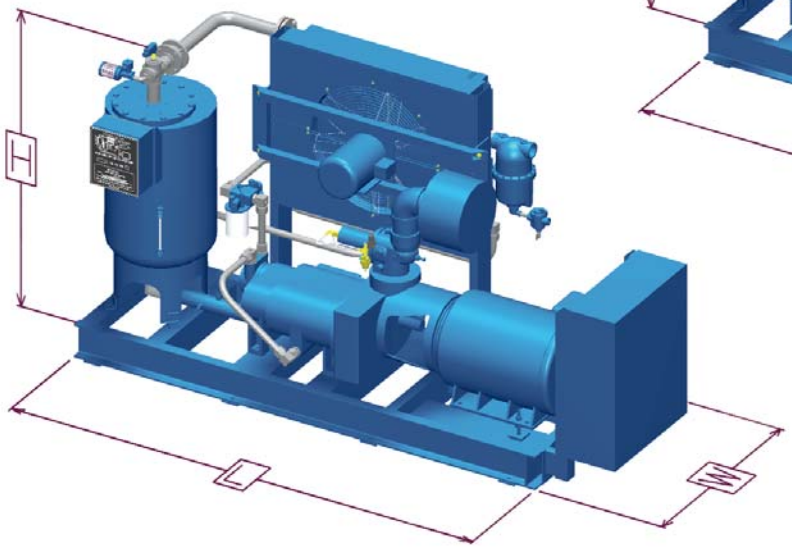
NOTE: Allow service clearance around assembly. Additional electrical clearance may be required.

ADDITIONAL CLEARANCE REQUIRED FOR SEPARATOR ELEMENT REMOVAL.

Water-Cooled Compressor



Air-Cooled Compressor



Service Support

SERVICE COMMITMENT

We have maintained a commitment to provide immediate service of the highest quality, for over 55 years. What does this mean to you? A reliable compressed air system backed by the largest parts inventory in the Pacific Northwest!

When you calculate the cost of down-time and distraction of key people, we believe you will realize you can afford the best. When you purchase a Rogers' assembly, you receive our 24-hour emergency parts and service shipment guarantee.

OUR GUARANTEE

If you notify us that you have an emergency and require a standard part or service for your Rogers compressor, we will ship the part and/or initiate the service within 24 hours or you will not have to pay for either or both.

AVAILABLE ANYTIME

We have a fleet of over 40 fully equipped service trucks staffed by experienced technicians. We can work on site and keep your downtime to a minimum.

WE ALSO OFFER:

- Start-up assistance
- Factory-monitored maintenance program
- Full factory service maintenance agreements
- Service reminder program
- Energy usage audits and energy saving equipment options
- User training classes held at our plant or customer site
- Compressed air system leak sweeps

FACTORY TRAINED TECHNICIANS

Our technicians receive year-round training. While specializing in servicing our air compressors, our technicians are trained to work on all system components, from air compressors and dryers to blowers, vacuum pumps and generators.

FULL SERVICE LOCATIONS

24 hours a day / 7 days a week

- New and used equipment sales
- Repair and service
- Parts
- Rentals

RENTALS

We maintain a large selection of electric compressors, available 24 hours a day, ranging in size from fractional through 350 HP. Units are air-cooled with after-coolers and mounted starters.

ROGERS
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Since 1949

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