

ROGERS

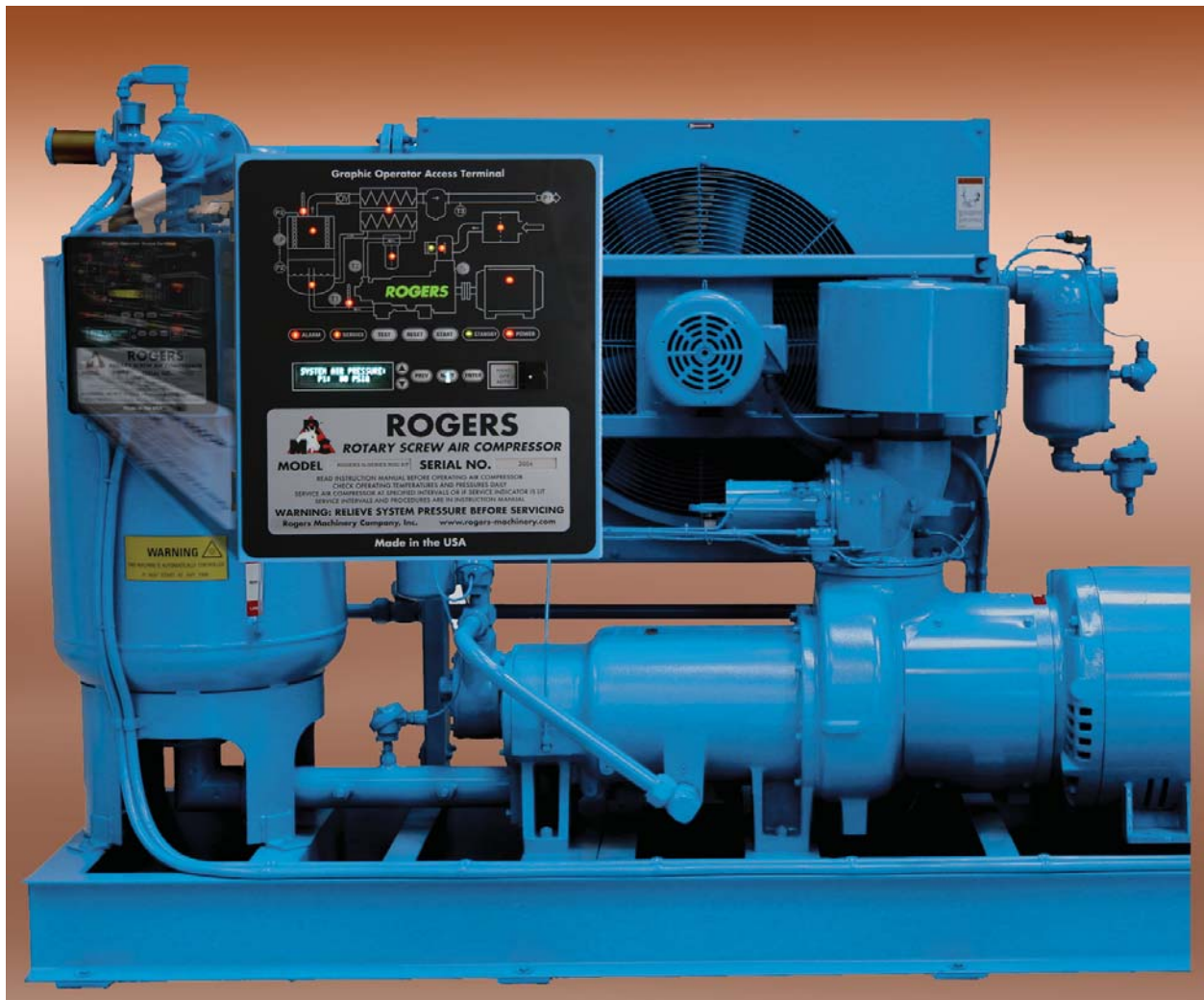
QNW G Series

Rotary Screw Air Compressors

40 – 350 HP

186 – 1521 SCFM

40 – 210 PSIG



Lubricant-Injected ▼ Single-Stage

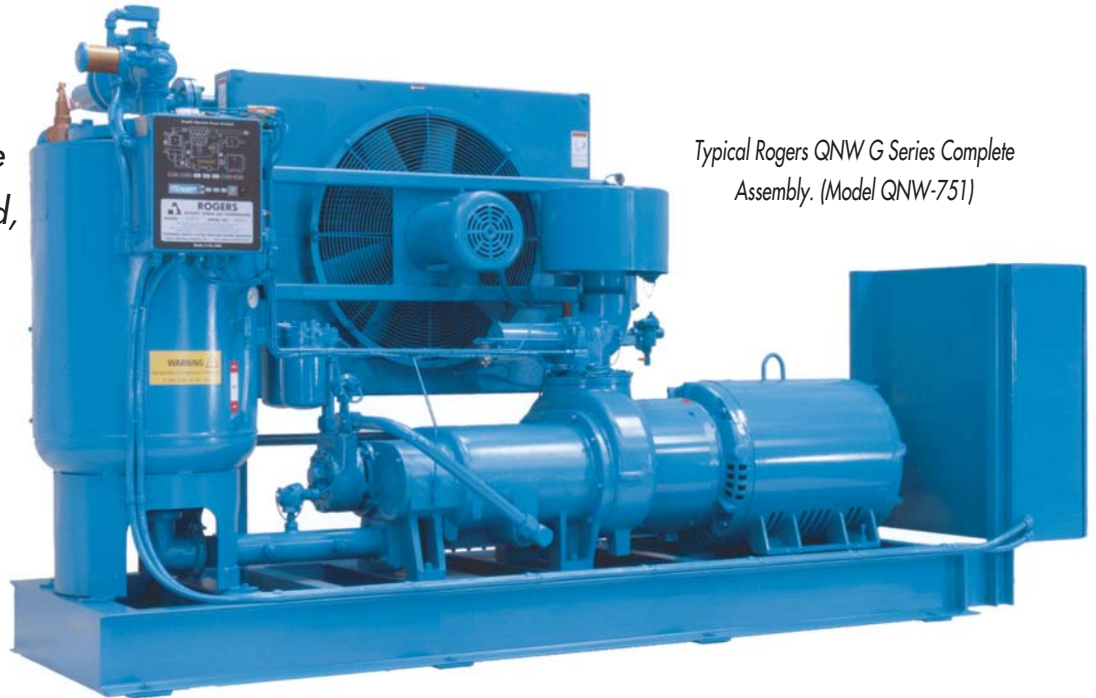
The Rogers QNW G Series is a state-of-the-art, single-stage, lubricant-injected, rotary screw air compressor assembly with Graphic Operator Access Terminal.

www.rogers-machinery.com

► Inside the QNW G Series

When your production requirements are critical, you need the rugged QNW G Series compressor.

The Quincy Northwest G Series compressor assemblies represent the best of lubricant-injected, single-stage, rotary screw technology. The compressors are designed, assembled, and tested in our Centralia, Washington plant. Control panels are CSA listed.



Typical Rogers QNW G Series Complete Assembly. (Model QNW-751)

Quality Assembly Works For You

Flexible Configuration

An example of simplicity and reliability, the QNW G Series configuration is also flexible. An assembly can be customized to your specifications. Flange mounted air end available through 760 scfm.

Open Design

The open design of the G Series emphasizes function. The assembly is attractive and easy to inspect and service.

Rogers QNW Compressors Achieve The Lowest Energy Use In The Industry

Energy Efficient

High efficiency rotor design results in maximum air flow using minimum horsepower.

Air Capacity Display

Air capacity display is standard on all G Series assemblies. This allows measurement of how much compressed air the plant uses, how much air is lost through system leaks, and how much capacity remains to be utilized.

G Series Air Reheater (Optional)

Uses waste heat to improve air quality and quantity, improves overall compressor efficiency, and reduces cooling-water consumption by 20%.

24-hour Production

The QNW G Series compressor has a rugged design, capable of operating fully loaded around the clock.

Oversized Heat Exchangers

Oversized heat exchangers, standard on all QNW G Series assemblies, result in lower operating temperatures and reduced maintenance costs.

Air/Lubricant Separation

High-efficiency, five-stage air/lubricant separation results in less than 2 PPM(W) lubricant carry over into the plant air system.

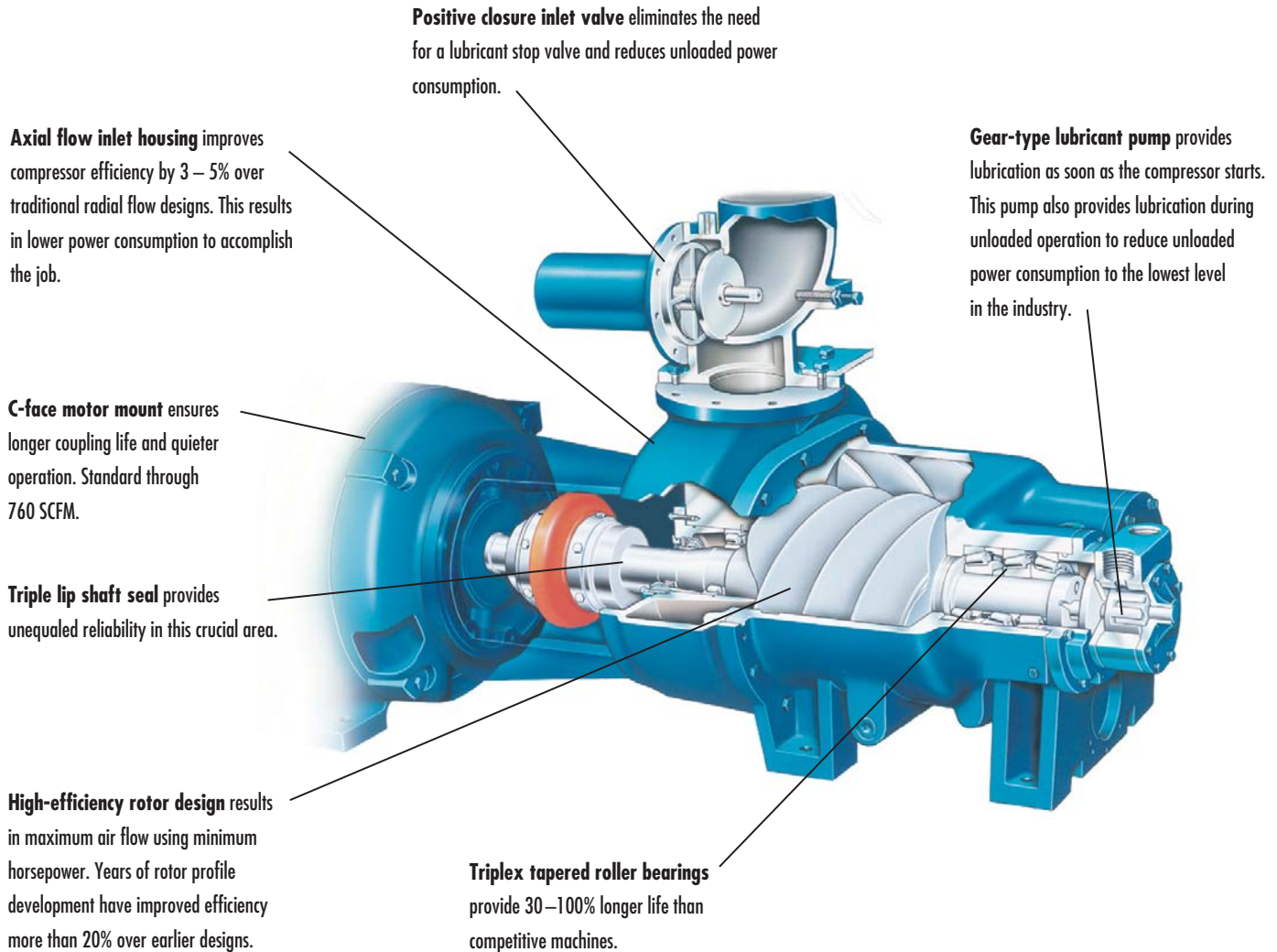
G Series Air End

- Axial flow inlet (3–5% efficiency increase)
- No speed increasing gears (No parasitic losses)
- Precision rotor design and manufacture (3% efficiency increase)

Variable Speed Fan Drive Control (Optional)

Available on air-cooled models. Saves energy, reduces noise and prolongs equipment life.

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



Positive closure inlet valve eliminates the need for a lubricant stop valve and reduces unloaded power consumption.

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. Standard through 760 SCFM.

Triple lip shaft seal provides unequalled reliability in this crucial area.

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

Triplex tapered roller bearings provide 30–100% longer life than competitive machines.

Gear-type lubricant pump provides lubrication as soon as the compressor starts. This pump also provides lubrication during unloaded operation to reduce unloaded power consumption to the lowest level in the industry.

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 G 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 is scientifically formulated specifically for Rogers QNW rotary screw air compressors. CLS46 lubricant provides superior lubricating qualities, assuring long air-end life and less frequent lubricant change intervals.

Positive Lubrication

The G Series uses a positive displacement lubricant pump to assure proper lubrication during startup, operation and shutdown. Unloaded brake horsepower is approximately 15% of full load, the lowest in the industry.

Slow Speed Rotors

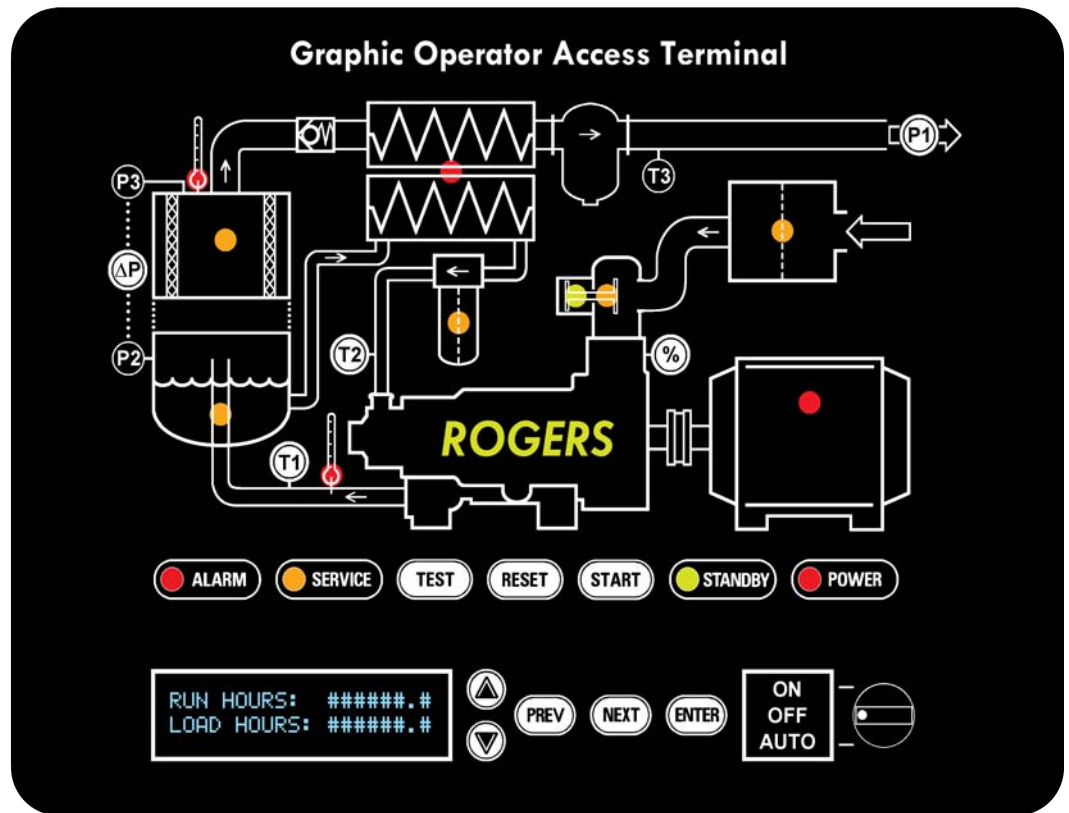
The male rotor is direct driven and non-geared. It runs at 1800 RPM motor speed, maximizing efficiency and minimizing wear while performing at a low noise level.

Warranty

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

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

The Rogers 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 ON
- Standby (automatic operation)
- Service
- Alarm
- Compressor operating
- Compressor loading
- Compressor unloading

Service, With Displayed Message

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

Pre-Alarm Warnings

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

Message Display—Operating Information

- Percent of 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 (P3)
- Drive motor overload
- Fan motor overload (air-cooled)
- Starter fault
- Reverse rotation shutdown

Operators—Selector Switch Legend Insert

- ON/OFF
- ON/OFF/AUTO
- LOCAL/OFF/REMOTE

Keypads

- START - Run compressor
- RESET - Reset alarm
- TEST - Test indicators
- % - Show compressor capacity
- P1 - Show outlet air pressure
- ΔP - Show separator differential
- T1 - Show compressor temperature
- T2 - Show 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

G Series Equipment and Features

STANDARD EQUIPMENT AND FEATURES

All G Series assemblies include the following equipment and features:

- Control system capable of maintaining system pressure with ± 2 PSI pressure differential
- Modulating inlet valve
- Heavy-duty fabricated steel base
- 1800 RPM motor, open drip-proof
- Jaw-type coupling
- OSHA type coupling guard
- Dual air/lubricant separator elements with scavenging sight glasses
- Spin-on full flow, 10 μ 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
- SAE O-ring fittings on all lubricant pipe joints larger than 1/4 inch in diameter (drains not included)
- Positive displacement lubricant pump
- ASME pressure relief valve
- Constant speed control
- 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 listed
- Cast iron moisture separator with demand type drain valve
- CLS46 synthetic lubricant. Other lubricants available

OPTIONAL EQUIPMENT AND FEATURES

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

Energy Conservation

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

Compressor Control

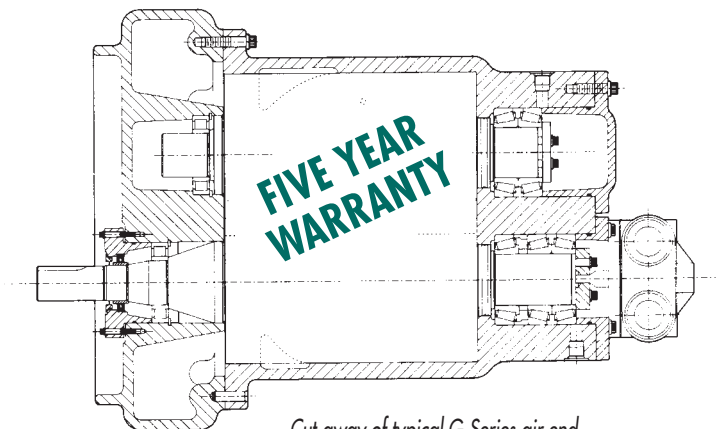
- Low unloaded horsepower with time delay shutdown is the most adaptable control available to achieve energy savings
- Load/unload control
- Duty sequencer provides the most efficient control for multiple compressor installations
- Electrical control interfaces
- Variable speed control options available
- Motor starters — all types and voltages

Additional Options

- Enclosure (partial or complete)
- Instrumentation and annunciation to meet your needs
- Pressure to 210 PSIG
- 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

**Contact Our
Sales
Department
With Your
Requirements**

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





G Series Dimensions and Shipping Weights

QNW Model	Air-Cooled Compressor Dimensions (in inches)*			Shipping Weight	Water-Cooled Compressor Dimensions (in inches)*			Shipping Weight
	L	W	H**		L	W	H**	
191	89	40	57	2950	89	40	57	2800
192	89	40	57	2950	89	40	57	2800
241	89	40	57	3025	89	40	57	2875
242	89	40	57	3025	89	40	57	2875
244	89	40	57	3125	89	40	57	2975
271	95	43	60	4025	95	43	60	3775
273	95	43	60	4100	95	43	60	3850
371	95	43	60	4100	95	43	60	3850
372	95	43	60	4100	95	43	60	3850
373	99	44	62	4250	99	44	62	4000
501	99	44	62	4775	99	44	62	4575
502	99	44	62	4775	99	44	62	4575
503	99	44	62	4925	99	44	62	4725
641	114	50	72	5175	114	49	72	4975
642	114	50	72	5400	114	49	72	5200
751	114	50	72	5400	114	49	72	5200
752	114	50	72	5400	114	49	72	5200
753	114	50	72	5625	114	49	72	5425
1011	120	62	112	7200	120	60	112	7075
1013	121	62	112	7415	121	60	112	7365
1271	125	64	112	7750	125	63	112	7500
1273	128	64	112	7980	128	63	112	7730
1521	135	64	112	8500	135	63	112	8250
1523	135	64	112	8950	135	63	112	8700

* Typical - do not use for construction ** Includes required clearance for removal of separator element

Commitment to Quality and Service

The Rogers commitment to customer service is unequalled.

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 assurance 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:

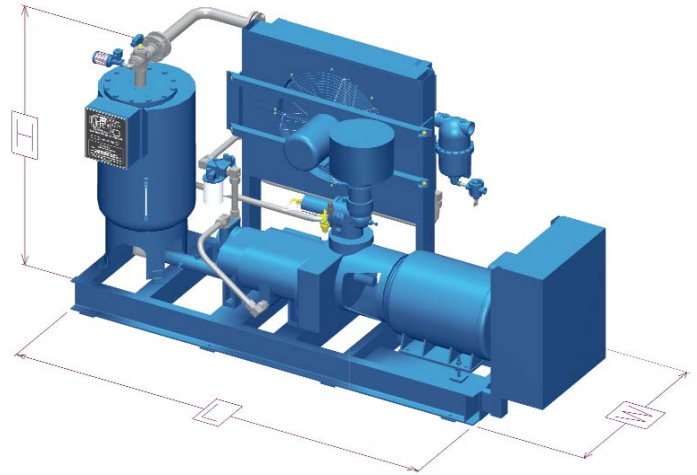
- Check the installation
- Start the compressor
- Ensure proper operation
- Train your personnel
- Service compressor as needed
- Service agreements

Our Service Department is available 24 hours a day, 7 days a week. We will meet your needs quickly and expertly.

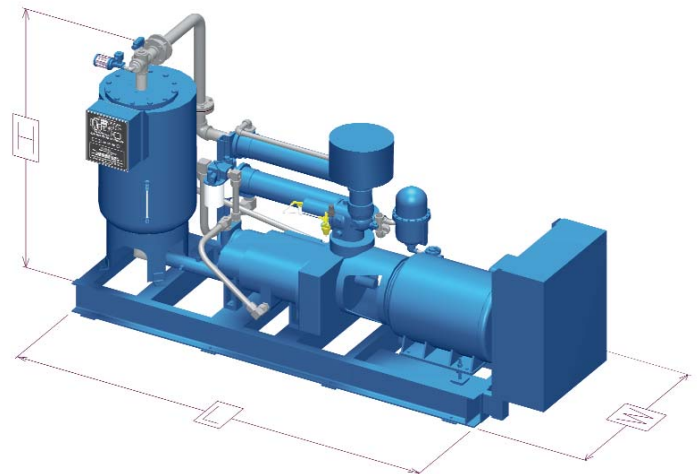
G Series Performance Data*

QNW Model	Capacity SCFM	Pressure PSIG	Motor HP
191	186	100	40
192	130	125	40
241	246	100	50
242	211	125	50
244	241	150	60
271	270	100	60
273	269	150	75
371	372	100	75
372	319	125	75
373	364	150	100
501	502	100	100
502	415	125	100
503	491	150	125
641	630	100	125
642	626	125	150
751	760	100	150
752	670	125	150
753	744	150	200
1011	1014	100	200
1013	1003	125	250
1271	1269	100	250
1273	1255	125	300
1521	1521	100	300
1523	1504	125	350

Air-Cooled Compressor



Water-Cooled Compressor



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. We would like to show you why.

*Performance notes:

- Male rotor speed 1780 RPM
Female rotor speed 1190 RPM
- Maximum pressure on 100 PSIG models is 110 PSIG
- Maximum pressure on 125 PSIG models is 135 PSIG
- Maximum pressure on 150 PSIG models is 150 PSIG
- Higher pressures available, contact our sales department

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

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 and dryers, 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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