

# ROGERS

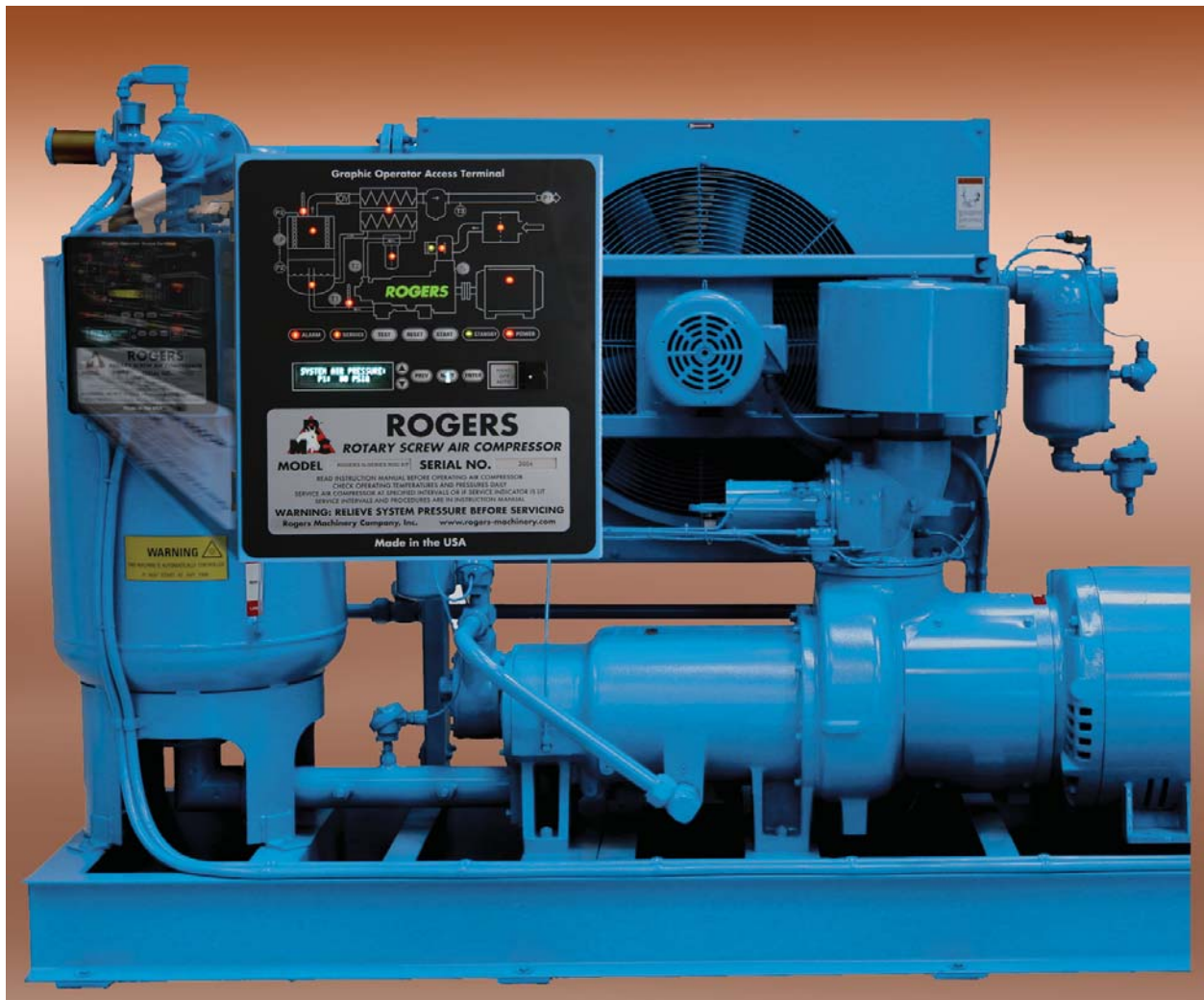
## QNW G Series

Rotary Screw Air Compressors

40 – 350 HP

186 – 1521 SCFM

40 – 210 PSIG



### Lubricant-Injected ▼ Single-Stage

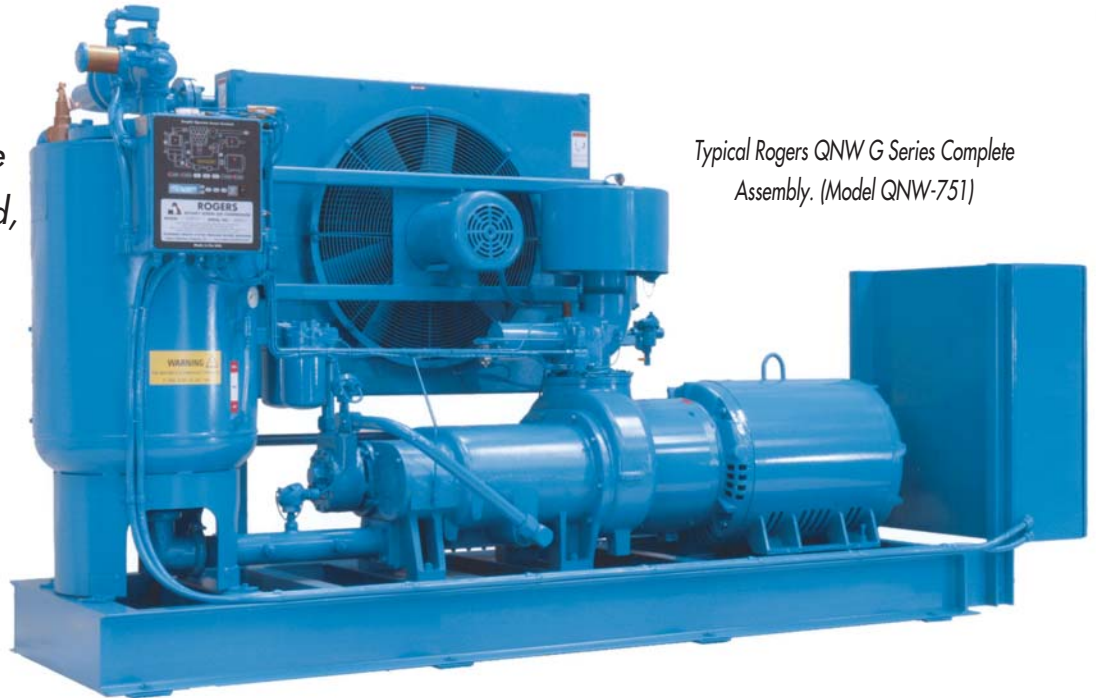
The Rogers QNW G Series is a state-of-the-art, single-stage, lubricant-injected, rotary screw air compressor assembly with Graphic Operator Access Terminal.

[www.rogers-machinery.com](http://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

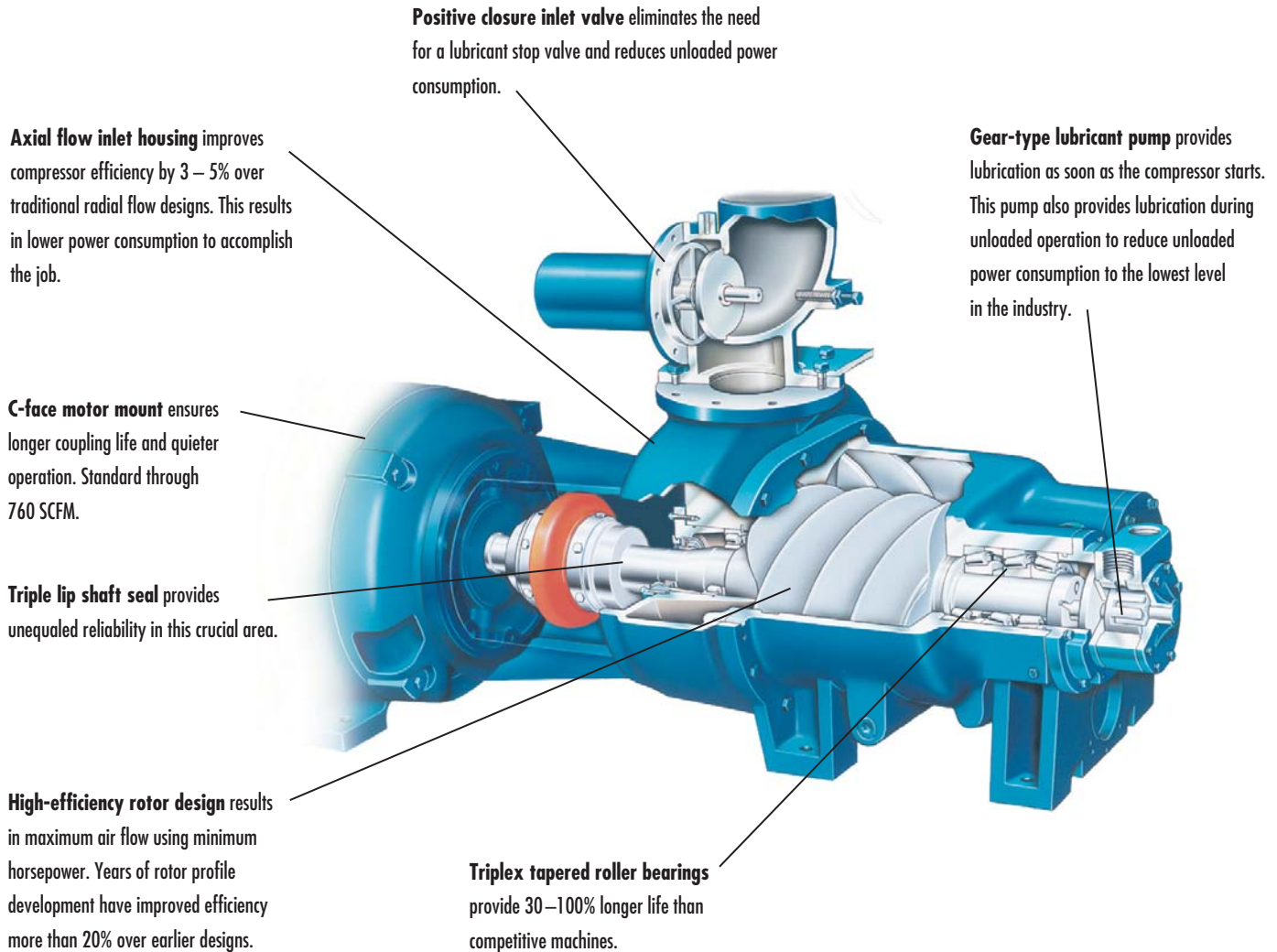
- Axial flow inlet (3–5% efficiency increase)
- No speed increasing gears (No parasitic losses)
- Precision rotor design and manufacture (3% efficiency increase)

### 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



## 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

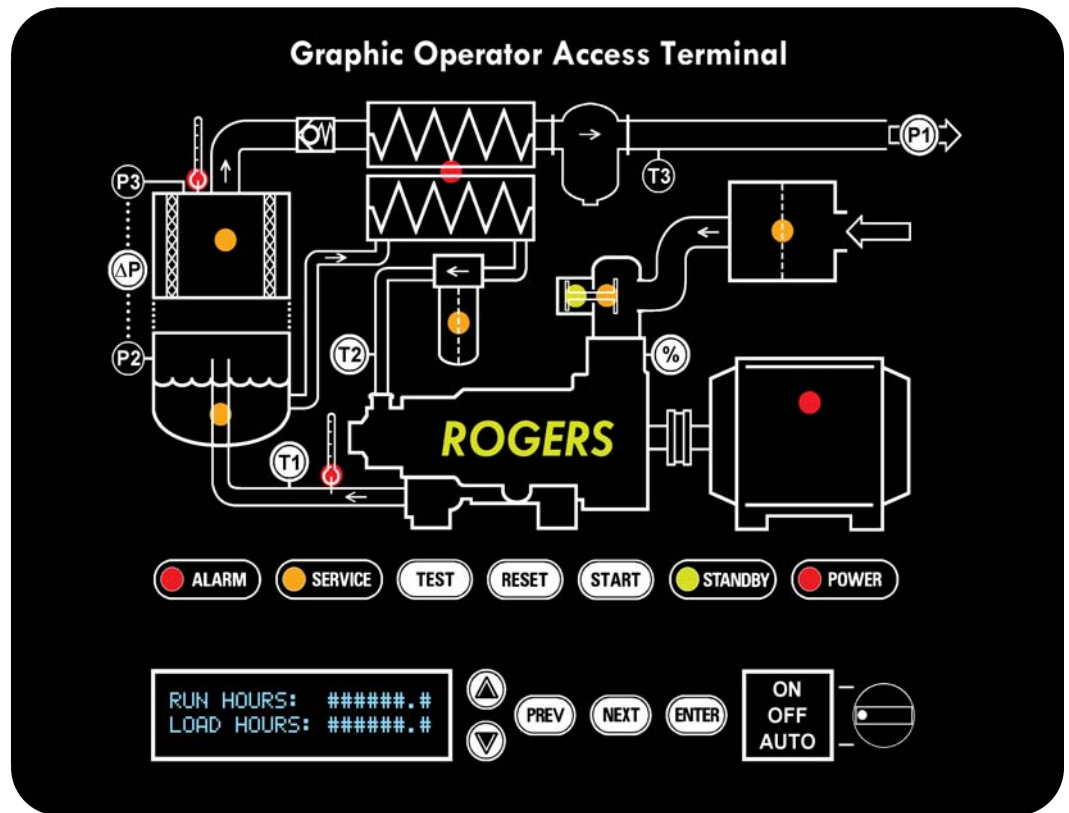
The male rotor is direct driven and non-geared. It runs at 1800 RPM motor speed, maximizing efficiency and minimizing wear while performing at a low noise level.

### 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  $\Delta P$
- Separator element  $\Delta P$
- Lubricant hours
- Lubricant filter  $\Delta P$

### 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 ( $\Delta P$ )
- 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
- $\Delta P$  - 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  $\pm 2$  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 $\mu$  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

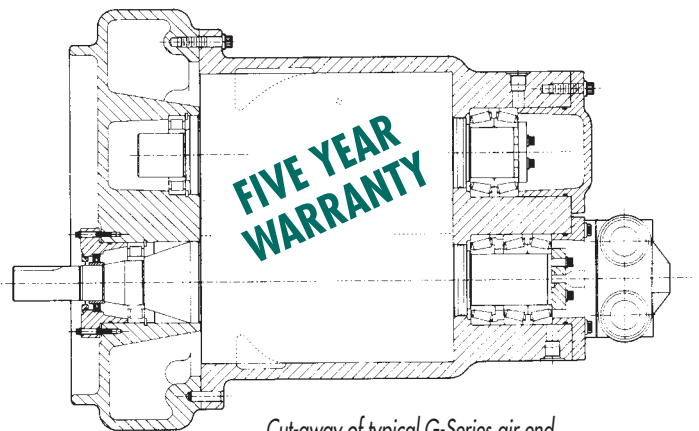
- Low unloaded horsepower with time delay shutdown is the most adaptable control available to achieve energy savings
- Load/unload control
- Duty sequencer provides the most efficient control for multiple compressor installations
- Electrical control interfaces
- Variable speed control options available
- 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.*



*Cut-away of typical G-Series air end.*



# 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:

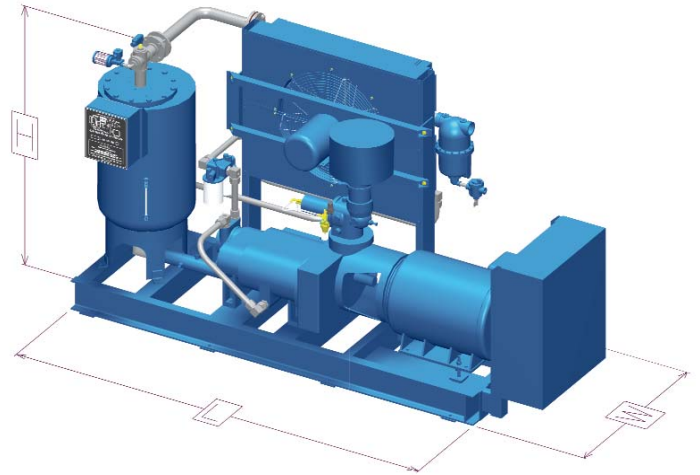
- Check the installation
- Start the compressor
- Ensure proper operation
- Train your personnel
- Service compressor as needed
- Service agreements

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

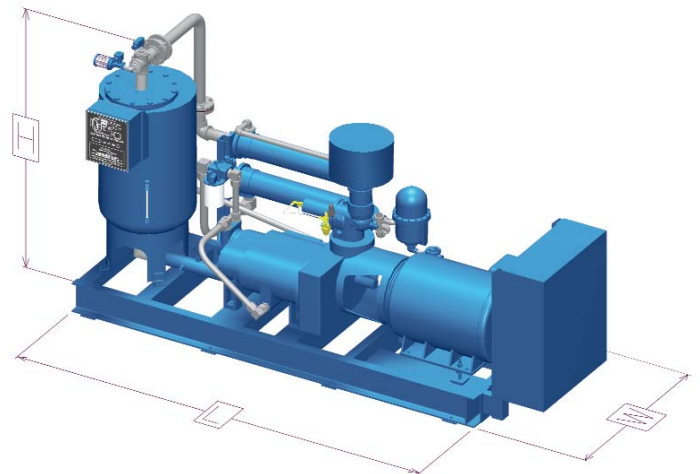
# G Series Performance Data\*

| 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**  
MACHINERY  
COMPANY, INC.  
*Since 1949*

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