

# **User Manual**

# Nuvair Q-370D

Electric or Diesel Rev. 10.18 If you have any questions on this equipment please contact Technical Support at:

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Hours: Monday through Friday 8:00 AM to 5:00 PM PST USA



This User Manual contains important safety information and should always be available to those personnel operating this equipment. Read, understand, and retain all instructions before operating this equipment to prevent injury or equipment damage.

Every effort was made to ensure the accuracy of the information contained within. Nuvair, however, retains the right to modify its contents without notice. If you have problems or questions after reading the manual, stop and call Nuvair at +1 805 815 4044 for information.

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Separate Manuals Included:

Quincy 370 Compressor Operation & Maintenance Instructions Kholer Diesel Engine Manual

#### 1.0 Introduction

Nuvair has taken extreme care in providing you with the information you will need to operate this system. However, it is up to you to carefully read this manual and make the appropriate decisions about system safety.

This manual will assist you in the proper set-up, operation and maintenance of the Nuvair Q370D Compressor System. Be sure to read each of the manuals entirely that have been included: Nuvair Manual Quincy 370 compressor Manual.

Kohler Diesel manual.

Throughout this manual we will use certain words to call your attention to conditions, practices or techniques that may directly affect your safety. Pay particular attention to information introduced by the following signal words:

<u> Danger</u>

Indicates an imminently hazardous situation, which if not avoided, will result in serious personal injury or death.

🕂 Warning

Indicates a potentially hazardous situation, which if not avoided, could result in serious personal injury or death.

**A**Caution

Indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

## **Notice**

Notifies people of installation, operation or maintenance information which is important but not hazard-related.

A Warning

This equipment is used to provide breathing gas for the purpose of underwater life support. Read this manual in its entirety. Failure to heed the warnings and cautions contained in this document may result in severe injury or death.

# / Warning

The equipment you will be using to manufacture air will expose you to both low and highpressure gas. Gas, even under moderate pressures, can cause extreme bodily harm. Never allow any gas stream to be directed at any part of your body.

## A Warning

Any pressurized hose can cause extreme harm if it comes loose or separates from its restraint (or termination) while under pressure and strikes any part of your body. Use appropriate care in making and handling all gas connections.



## **Warning**

Never mix the Compressor Lubricant with other lubricants. If unsure of compressor lubricant remove all existing lubricant and replace with the proper breathing air compressor lubricant prior to use. The use of improper lubricants can lead to un-safe air quality, which may cause serious personal injury or death.

Warnings Graphics Defined:



Moving belts



Electrocution



Fire



Eye protection



Gas inhalation



psi

RPM

L/min

 $CO_2$ Nuvair

Explosion

Pounds per Square Inch

**Rotations per Minute** 

Liters per Minute



Explosion

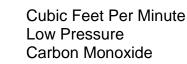


Electrocution



Abbreviations commonly used in this manual: CFM

> LP CO





#### 3.0 Safety And Operation Precautions

Because a Compressor is a piece of machinery with moving and rotating parts, the same precautions should be observed as with any piece of machinery of this type where carelessness in operations or maintenance is hazardous to personnel. In addition to the many obvious safety precautions, those listed below must also be observed:

- 1) Read all instructions completely before operating any compressor.
- 2) For installation, follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupational Safety and Health Administration (OSHA) standards.
- 3) Protect all power cables from coming in contact with sharp objects. Do not kink power cables and never allow the cables to come in contact with oil, grease, hot surfaces, or chemicals.
- 4) Make certain that power source conforms to the requirements of your equipment.
- 5) Do not attempt to remove any parts without first relieving the entire system of pressure.
- 6) Do not attempt to service any part while System is in an operational mode.
- 7) Do not operate the System at pressures in excess of its rating.
- 8) Do not operate compressor at speeds in excess of its rating.
- 9) Periodically check all safety devices for proper operation. Do not change pressure setting or restrict operation in any way.
- 10) Be sure no tools, rags or loose parts are left on the Compressor System.
- 11) Do not use flammable solvents for cleaning the Air Inlet Filters or elements and other parts.
- 12) Exercise cleanliness during maintenance and when making repairs. Keep dirt away from parts by covering parts and exposed openings with clean cloth or Kraft paper.
- 13) Do not operate the compressor without guards, shields, and screens in place.
- 14) Do not install a shut-off valve in the compressor discharge line, unless a pressure relief valve, of proper design and size, is installed in the line between the compressor unit and shut-off valve.
- 15) Do not operate in areas where there is a possibility of inhaling carbon monoxide, carbon dioxide, nitrogen, or flammable or toxic fumes.
- 16) Be careful when touching the exterior of a recently run electric, gasoline, or diesel motor it may be hot enough to be painful or cause injury. With modern motors this condition is normal if operated at rated load modern motors are built to operate at higher temperatures.
- 17) Inspect unit daily to observe and correct any unsafe operating conditions found.
- 18) Do not "play around" with compressed air, or direct air stream at body, this can cause injuries.
- 19) Compressed air from this machine absolutely must not be used for food processing or breathing air without the properly maintained downstream filters, purifiers, controls and periodic air quality testing.
- 20) Always use an air pressure-regulating device at the point of use, and do not use air pressure greater than marked maximum pressure.
- 21) Check hoses for weak or worn conditions before each use and make certain that all connections are secure.

The user of any Compressor System manufactured by Nuvair is hereby warned that failure to follow the preceding Safety and Operation Precautions can result in injuries or equipment damage. However, Nuvair does not state as fact or does not mean to imply that the preceding list of Safety and Operation Precautions is all-inclusive, and further that the observance of this list will prevent all injuries or equipment damage.

Nuvair

#### 4.0 Legal Precautions

It is highly recommended that a Dive log be maintained when using an Air Compressor on a job site to document the following information. This log must be of permanent binding style with no loose pages.

- Date and time of day
- Job Name & Number
- Supplier's check of air quality plus signature and date
- MOD (Maximum Operating Depth) in user's handwriting

Proper air analysis tested on a quarterly basis and comprehensive maintenance is the best way to assure proper, safe, and economical air production.

## A Notice

While Nuvair manufactures LP compressors for commercial diving use, Nuvair does not determine the regulations and or standards governing the use of "Air Compressor Systems". Operators of Nuvair compressors should consult your local and or national government and or managing bodies to determine the regulation obligations necessary to operate a Nuvair Compressor for divers and breathing air use.

In the U.S. and Canada regulators include, but are not limited to: OSHA US Coast Guard US Military- Army, Navy, Marines, Air Force CSA International ANSI ACDE ADCI USACE ACDE AAUS NFPA

Some of the regulations in print pertain to the actual compressor equipment and others pertain to the Contractors and Dive Team.

You should be clear of any regulations, standards and requirements that are present for your use of a Nuvair Compressor before operating the compressor.

Nuvair can manufacture your Compressor package to meet any regulatory standards. Please provide us with the standards you operate under and we can provide you with the proper equipment to meet those standards or regulations.

#### 5.0 System Overview

The Nuvair Q370 compressor package is contained in a marine grade aluminum frame and open for good access to components. This package is for supplying low pressure air to a volume tank and breathing air filtration. The operator should be able to produce Air with a minimum of start-up hassles.

#### <u>Quincy 370D:</u>

- Air Supply and Regulated Air Input Gauges
- Air Intake Filter
- Nuvair 455 FDA Approved Food Grade Compressor Lubricant
- Heavy Duty Marine Grade Aluminum Frame with: Lifting Eyes, and Fork Lift Slots
- Vibration Isolation Mounts
- 1 x Low-pressure Two Stage Compressor
- Kohler Diesel 28.5 Gross hp @2800 RPM Tier IV Emissions Compliant.

#### Air Compressor Technical Data:

•	LP Compressor	49 CFM @ 175 psi (1388 LPM @ 12 bar)
	Maximum Block Output Pressure	: 200 psi (13.8 bar)
	Final System Discharge Pressure	
	Dual Control Head unloader	
	Number of Stages:	2
	Package Free Air Delivered Max:	49 CFM (1388 L/min)
	Lubricant:	Nuvair 455
	Condensate Drain	Manual

- Weight:
- Dimensions (L x W x H):

1030 lbs (467 kg) 60 x 35 x 44 in (153 x 89 x 112 cm)

#### Suggested Maintenance Intervals (see page 14 for entire schedule):

Replace Nuvair 455 Lubricant in C	2-370D: 200 Hours or yearly
Compressor Air Intake Filter:	40 Hours or yearly
Hankison LP Filtration Elements:	100 Hours or yearly

#### **Optional tank and filters:**

To supply breathing air with the Quincy Q-370D you will need a volume tank and breathing air filters. We recommend 120 Gallon Volume tank and Hankison Series 24 LP. Filtration to 0.003 PPM Oil Vapor. We have provided information in this manual for these options.

(Nuvair recommends checking filter elements for moisture and proper operation daily.)

Typical Specification For Grade-D Air:
--

•	O <sub>2</sub> Percentage:	20-22
٠	CO <sub>2</sub> :	1000 PPM
٠	CO:	10 PPM
٠	Hydrocarbons:	25 PPM
٠	Odor:	None

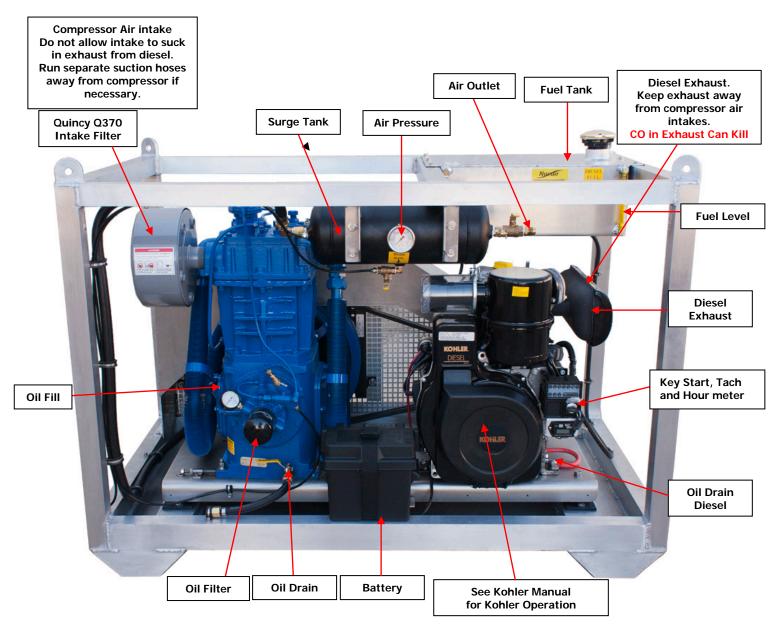
#### 6.0 System Component Identification:

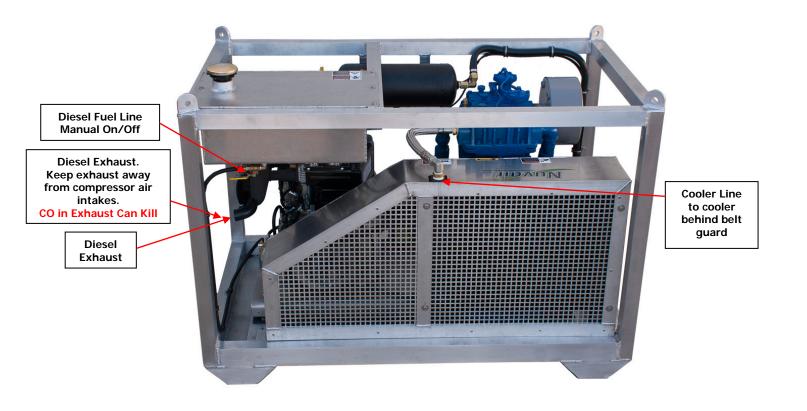
The **Qunicy 370D** system is a self-contained, low pressure air delivery package capable of supplying Breathing Air for divers with optional Hankison Series 24 breathing air filters and volume tank.

The system utilizes a Quincy 370 low pressure compressor that is mounted together with a Kholer Diesel Engine in a rigid aluminum frame. The system components include: air intake filter, surge tank and 1 air outlet. All of the component assemblies and parts are mounted to facilitate easy set-up, operation, and transport.

Breathing air filtration and volume tank are necessary for this system to be used for diving.

#### Q370D Diesel Compressor System Components:







Optional Volume Tank and 3 stage breathing air filtration necessary for using the compressor for diving.

#### 7.0 Theory of Operation:

Before starting the Nuvair Q370D compressor package, follow the procedures outlined in this user manual.

## **∧** Notice

## If any information in this manual conflicts with any of the other manuals call Nuvair before proceeding.

#### 8.0 Assembly Preparation:

- 1. First familiarize yourself with the components of the system in the first section of the manual.
- 2. Please read and follow instructions for compressor and motor provided in additional manuals.
- 3. Unpack the system and remove from the pallet.
- 4. Make sure compressor is placed at least 24in. away from any walls or structures that will prevent proper air flow.
- 5. Visually inspect the system to make sure there has been no damage\* during shipping.
- 6. Follow the remaining step by step instructions for initial set up and operation.

\*If damaged, please call Nuvair to file a damage report. Please take photos and supply detailed information about the damage.

#### 9.0 Set-up and Assembly

#### 9.1 **Power Connection**

This package comes with a 12 volt battery for the Kohler electric start to function properly. **Red Is Positive!** Connecting the wrong leads may damage circuitry.

#### 9.2 **Proper Rotation:**

Running the compressor in the wrong direction will damage the compressor and void warranty.

#### Kohler Engine Operation: See included Manual

#### 10.0 Operation

Once you have read through the manuals and made the necessary set-up connections; follow the steps below to operate the system:

- **1.** Always check fluid levels before starting compressor and engine.
- 2. Open Diver tank on/off valve and Volume Tank valves for Air
- 3. Start diesel per instructions
- **4.** Turn off diver Air Valves
- 5. Warm for a few minutes
- 6. Adjust throttle to run position

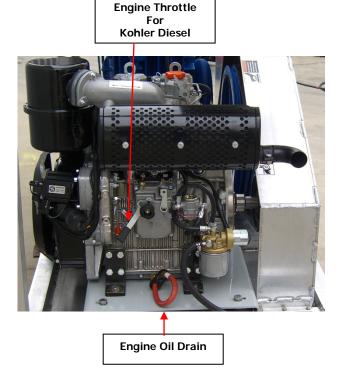


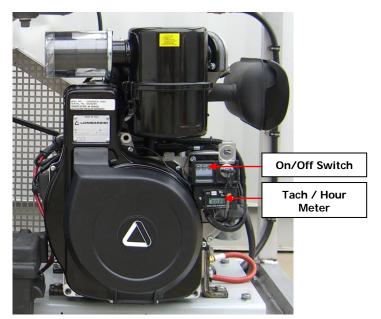
## OSHA Regulations require an emergency backup source of breathing gas for the diver in case of an emergency or compressor malfunction.

#### 10.1 Shutdown:

Before shutting down any compressor, make sure all divers are no longer using the compressor this includes in water divers and decompressing divers.

Diesel: The engine can be shut off by turning the power key to the off position. Throttle down engine before turning power off. SEE KOHLER MANUAL for additional notes on operating diesel engine.





#### **11.0** Operation Notes:

- During the running of a Nuvair Q370D you should not hear air escaping from fittings, belt slap
  from a loose belt, knocking noises or any other audible concerns. If any concern arises to the
  operating compressor, switch the diver to a back up air source and stop operation of the
  compressor to prevent damage to the compressor or faulty operation.
- The Nuvair Q-370D is typically packaged with a volume tank and Hankison series 24 3 stage breathing air filtration, DO <u>NOT</u> use any substitute filters.
- Bleed condensate drain on the volume tank daily or every 8 hours of operation.
- Use only Nuvair 455 compressor lubricant in the Q370D compressor.
   Do <u>NOT</u> substitute or Mix Lubricants.

#### 12.0 Maintenance



### A Warning

Use only the specified Nuvair Lubricants in this system. The use of incompatible lubricants presents a risk of fire and/or explosion, and may result in system damage. This can lead to severe personal injury and death.



## 🕂 Warning

Be sure that all pressure has been relieved from the system prior to opening any filtration canister. Failure to vent pressure from the system prior to opening the canister can lead to serious personal injury or death.



If system is located in an area where there is high humidity and high heat, the life of all Filtration Elements may be as little as 35% of rated operating capacity. Check the compressor manual and Appendix for details on Filter Element Life Factors.



## **Warning**

Do not carry out any maintenance tasks if the compressor has just shut down. Wait for the compressor to cool to avoid skin burns.

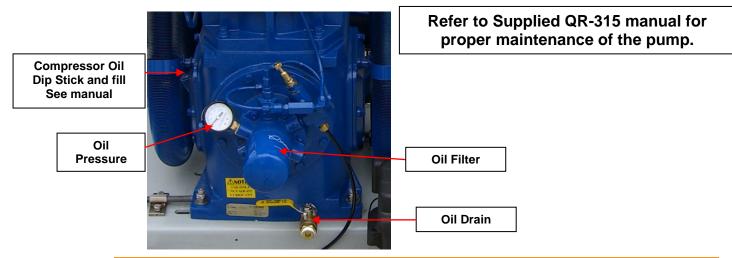
#### 12.1 Routine Maintenance

- 1) Q370 Compressor Lubricant: Change compressor lubricant after the first 100 hour break in period and every 200 hours thereafter on the Q370. Only use lubricants rated for use with breathing Air systems such as Nuvair 455. Never mix compressor lubricants.
- 2) LP Filtration Inspection: On a daily basis, inspect each Filter Bowl for the presence of moisture and each Element for any unusual degradation or wetness.
- 3) LP Filtration Elements: Change LP. Filter Elements every 100 hours to maintain CGA Grade D air standards. Visual differential pressure (DP) indicators on the HF7 and HF5 filters assist with monitoring replacement intervals. See Section 13.5 for details. If the Compressor System is operated in high humidity and/or high temperature, Filter Elements must be changed more often.
- 4) Low Volume tanks should be drained of moisture daily or every 8 hours of operation.

#### 12.2 Compressor Lubricant:

Change Q370 with Nuvair 455 rated lubricant every 200 hours or minimum once per year. Do not mix lubricants or brands.

- 1) Check oil and diesel levels before operation and every 8 hours during continuous use.
- 2) Drain Volume tanks daily or every 8 hours during continuous use.
- 3) Check filters for moisture daily.





## **M** Warning

Any oil spilled during the oil and oil filter change could cause personnel to slip and fall. Wear anti-slip footwear. Remove any traces of spilled oil immediately. Slips and falls may cause severe personal injury or death.



### **A**Caution

Wear eye protection, gloves, and skin protection when performing oil changes. Although the oil is not classified as a dangerous substance, the oil can be irritating to your eyes and skin.

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## **A**Caution

Both oil and oil filter are classified as "special wastes" and must be disposed of properly according to applicable national and local laws. Failure to dispose of these wastes properly can lead to death of wildlife as well as government

## **A**Caution

Special attention needs to be given to the arrangement of the four LP Air Filtration Elements and Bowls. Properly reinstall each Element and Bowl to the correct Housing. Improper sequence can cause damage to downstream components

#### 12.3 LP Filtration

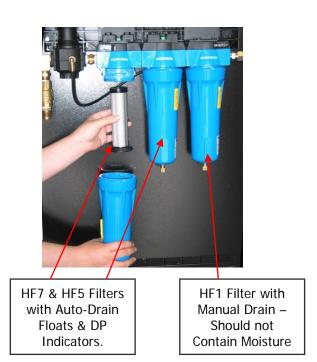
Three stages of Hankison LP filtration are used to produce Grade D air:

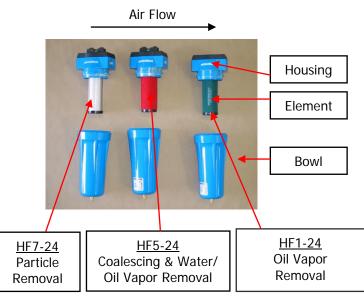
- 1) Particle Removal to 1 micron
- 2) Coalescing & Water/Oil Vapor Removal to 0.01 micron
- 3) Oil Vapor Removal to 0.003 PPM

#### **12.4** Filtration Inspection

Open each Filter and inspect as follows:

- Inspect Bowl for the presence of moisture. A high level of moisture build-up in the HF7 or HF5
  Filter indicates improper operation of auto-drain floats. Any evidence of moisture in the HF1 Filter
  indicates the air is not cooling properly and moisture is not properly being removed. Excess
  moisture will prevent the final filter from operating properly.
- 2. Inspect Elements for any unusual degradation or wetness. Element degradation can indicate more serious problems. Contact Nuvair for assistance.





#### **12.5 Changing Filtration Elements**

Change the LP Filter Elements every 100 hours or once per year\*. If the Compressor System is operated in high humidity and/or high temperature, Filter Elements must be changed more often. Visual DP indicators on the HF7 and HF5 filters assist with monitoring replacement intervals.

- 1) Push up on the Bowl, rotate CCW, and lower to remove.
- 2) Gently rotate Filter Element and pull down off mounting post.
- 3) Replace Element and reassemble in reverse order.



The interior of the Filter Bowls can be cleaned with a diluted solution of Simple Green<sup>™</sup> and flushed thoroughly with clean water. This will assist to prolong the life of the element, bowl, and auto drain.

#### 12.6 Changing Air Intake Filtration

Inspect and or change the air intake Filter Elements every 40 hours or once per year. If the Compressor System is operated in high humidity or a dusty dirty environment, Filter Elements must be changed more often. Inspect elements periodically to determine if the elements should be changed sooner than recommended.

#### 12.7 Air Intake Extension

The air intake filter housing is mounted on the compressor pump. In the event that the compressor will be used in a windy environment that may cause the diesel engine exhaust to be blown into the intake filter it may be necessary to extend the element vertically to prevent engine exhaust from entering the element. 2 in reinforced hose tubing can be purchased from Nuvair to extend the height of the element. By using a Nuvair Pro CO monitor you will notice changes in CO immediately and the use of a CO monitor is highly recommended by Nuvair.





Carbon Monoxide "CO" is a colorless, odorless, tasteless gas that will not support life. Breathing gas mixtures containing CO will lead to unconsciousness and may cause death.

#### 13.0 Spare Parts List

See Compressor manual for LP Compressor parts list. Other System components and related items are listed below.

System Components	Туре	Part Number
Compressor Lubricant, Food Grad	de Nuvair 455, 1 Gal	9406
	(Other Sizes Available)	
LP Filtration Element	Hankison HF 7-24	E7-24
	Hankison HF 5-24	E5-24
	Hankison HF 1-24	E1-24
Air Intake Filter Element	Quincy Air Intake Element	31p
Oil filter Quincy 370	Baldwin Oil filter	B474
Belt for Diesel		2B87
Kohler Air Filter	Kohler	5496-182
Kohler Oil Filter	Kohler	2175-283
Kohler Fuel Filter	Kohler	2175-288
Nuvair Pro CO Analyzer	CO Alarm Analyzer	9625
Nuvair Pro CO with LP& High Temp Alarm	CO Alarm Analyzer – see page 23	9620
·	Related Equipment Components	
Air Quality Analysis Kit	Specify: (1) CGA Grade Required	
	(2) Single Use or Program Use	

### 14.0 Service Record Log

Date	Technician Name	Service Performed

#### **Nuvair SYSTEM WARRANTY**

Nuvair extends a limited warranty, which warrants the System to be free from defects in materials and workmanship under normal use and service for a limited period. All other Original Equipment Manufacturer (OEM) components used in the system are warranted only to the extent of the OEM's warranty to Nuvair. Nuvair makes no warranty with respect to these OEM components, and only warrants the workmanship that Nuvair has employed in the installation or use of any OEM component. This warranty is not transferable.

Nuvair will, at it's discretion and according to the terms as set forth within, replace or repair any materials which fail under normal use and service and do not exhibit any signs of improper maintenance, misuse, accident, alteration, weather damage, tampering, or use for any other than the intended purpose. Determination of failure is the responsibility of Nuvair, which will work together with the customer to adequately address warranty issues. When any materials are repaired or replaced during the warranty period, they are warranted only for the remainder of the original warranty period. This warranty shall be void and Nuvair shall have no responsibility to repair or replace damaged materials resulting directly or indirectly from the use of repair or replacement parts not approved by Nuvair.

A warranty registration card, supplied with system documentation, must be filled out and submitted to Nuvair for the warranty to be in full effect. If the warranty registration card is not received within thirty (30) days of installation, the thirty-six (36) month warranty will begin with the date of shipment from Nuvair.

#### Maintenance Items:

Any materials which are consumed, or otherwise rendered not warrantable due to processes applied to them, are considered expendable and are not covered under the terms of this policy. This includes maintenance and consumable items listed as part of a suggested maintenance program included with system documentation.

#### Return Policy:

Application for warranty service can be made by contacting Nuvair during regular business hours and requesting a Return Material Authorization number. Materials that are found to be defective must be shipped, freight pre-paid, to the Nuvair office in Oxnard, California. Upon inspection and determination of failure, Nuvair shall exercise its options under the terms of this policy. Warranty serviced materials will be returned to the customer via Nuvair's preferred shipping method, at Nuvair's expense. Any expedited return shipping arrangements to be made at customer's expense must be specified in advance.

#### Limitation of Warranty and Liability:

Repair, replacement or refund in the manner and within the time provided shall constitute Nuvair's sole liability and the Purchaser's exclusive remedy resulting from any nonconformity or defect. Nuvair shall not in any event be liable for any damages, whether based on contract, warranty, negligence, strict liability or otherwise, including without limitation any consequential, incidental or special damages, arising with respect to the equipment or its failure to operate, even if Nuvair has been advised of the possibility thereof. Nuvair makes no other warranty or representation of any kind, except that of title, and all other warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, are hereby expressly disclaimed. No salesman or other representative of Nuvair has authority to make any warranties.

#### **Additional Record of Changes**

It is the responsibility of the owner of this product to register their ownership with Nuvair by sending the warranty card provided. This card is to establish registration for any necessary warranty work and as a means of communication that allows Nuvair to contact the user regarding this product.

The user must notify Nuvair of any change of address by the user or sale of the product. All changes or revisions to this manual must be recorded in this document to ensure that the manual is up to date.

Change Date	Description of Change	
5/15/2014	Updated contact info	
10/23/2018	Removed MSDS	

NOTES:



### NUVAIR PRO CO LOW PRESSURE & HIGH TEMP ALARM ANALYZER PN: 9621



This Pro CO Alarm Analyzer combines carbon monoxide detection, a low pressure alarm, an external high temperature sensor and a low pressure flow meter / regulator. Components are mounted in a water and impact resistant case with a clear cover that is compatible with outdoor and marine environments. Available in two power options.

### **FEATURES**

- Tank readings through restrictor or in-line monitoring on compressor
- On / off button
- Temperature compensated sensor
- User replaceable battery options
- Low battery warning indicator
- Electrochemical sensor

### ADVANTAGES

- Two programmable audible & visual threshold alarms
- Alarm at set point or 10 ppm CO
- Fast response
- Made to test breathing gases\*\*
- Easy to operate, reliable and accurate
- Optional relays for external alarm or compressor control

### SPECIFICATIONS\*

Flow Rate	0.5 - 1 L/min
Resolution	1 ppm
Repeatability	<+5%
Accuracy	±5%
Sensor Type	Electrochemical
Expected Sensor Life	>24 months in normal use from date of manufacture
Range	0-100 ppm CO
Alarms	Two user-programmable audible and visual alarms
Response Time	<50 seconds over complete temperature range
Operating Temperature	14° to 122°F (-10° to 50°C) continuous
	-4° to 122°F (-22° to 50°C) intermittent
Operating Humidity	Non-condensing: 15-90% continuous, 0-99% intermittent
Storage Temperature	14° to 140°F (-10° to 60°C)
Power	Rechargeable lithium battery or 110/220 V wall plug-in
Dimensions	6 x 6 x 5 in (15 x 15 x 13 cm)
Warranty	12 months from date of purchase

NOTE: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. Inaccurate gas analysis can lead to serious personal injury or death. Most gas analyzers can be used to analyze a regulated gas sample flow, the contents of a gas cylinder, or the flow from a regulator. The flow rate of gas must equal 1-5 L/min. To produce this flow, a Flow Restrictor and Regulator may be required.

\*All specifications are at ambient / sea level, 77°F (25°C) and are subject to change without notice. \*\*Calibration must be confirmed with calibration CO test gas.



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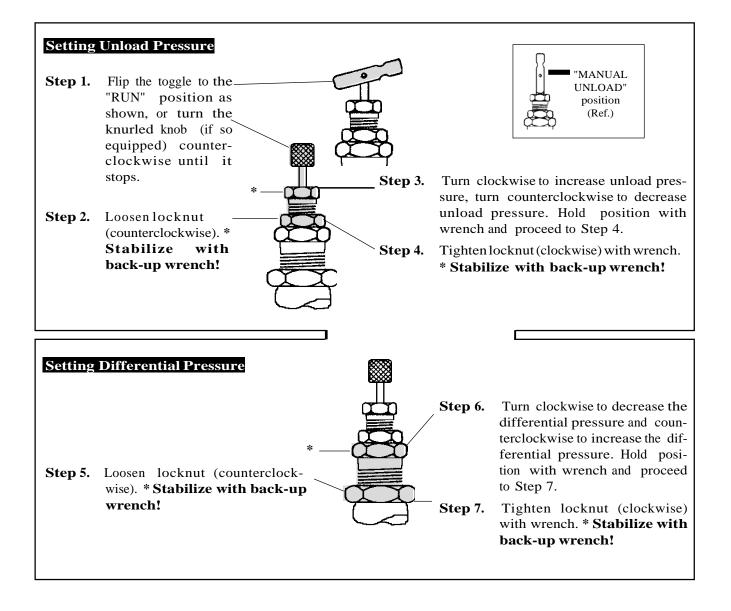
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## PILOT VALVE ADJUSTMENTS

All adjustments made to the pilot valve must be performed by a qualified technician. The adjustments must be made while the unit is operating, therefore, extreme caution must be taken while working on the unit. Observe all necessary precautions. Always use a back-up wrench and make all differential and unload pressure adjustments in very small increments (1/8 turn).



The pressure switch and / or pilot valve are set at the factory for maximum efficiency. Adjustments to either component must be performed by a qualified technician. Exceeding the factory recommended maximum pressure will void the warranty and may cause personal injury.



Nuvair Q-370D

Nuvair Q-370D



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