



Instruction Manual

Radex® Airline Filter

Employers: Read this manual, the respirator headtop and flow control device instruction manuals and carry out the employer responsibilities.

Product users: Read this manual, the respirator headtop and flow control device instruction manuals and follow the product user safety instructions.

Manuals are regularly updated. Make sure this manual is available to all users for reference.

Current version of manual and other languages: gvs-rpb.com/resources





RADEX[™] AIRLINE FILTER

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EXPLANATION OF SIGNAL WORDS AND SYMBOLS

The following signal word and safety symbols are used in this manual and product labeling:

 WARNING	WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.
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 DANGER	DANGER Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
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Read the Instruction Manual.

Additional copies of GVS[®] manuals can be found at gvs-rpb.com.

GVS[®] Safety LLC is an ISO9001 certified company.

INTRODUCTION

The GVS® Radex® Filter System is designed to filter compressed breathing air to remove most contaminants from the breathing air in supplied air respirator assemblies. Features such as advanced filter cartridges and the optional micro mist filter will make breathing better and help protect you for life's best moments.

This product must be inspected and maintained in accordance with this instruction manual at all times.

See PROTECTION PROVIDED AND LIMITATIONS (page 4) for details.

GVS SAFETY

Caton Road, Lancaster, Lancashire, UK, LA1 3PE

T: +44 (0)1524 847600 E: gvsuk@gvs.com W: www.gvs.com

GVS SAFETY - USA HEADQUARTERS

2807 Samoset Rd, Royal Oak, MI 48073, USA

T: 1-866-494-4599 F: 1-866-494-4509 E: respirators@gvs.com W: www.gvs-rpb.com

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For technical assistance contact our Customer Service Department at 1-866-494-4599 or email: respirators@gvs.com

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IMPORTANT SAFETY INFORMATION



WARNING

Improper selection, use, or maintenance of respiratory protection products can result in injury; life threatening delayed lung, skin or eye disease; or death. This product is intended for occupational use in accordance with applicable standards or regulations for your location, industry, and activity (see Employer Responsibilities, page 11.) Familiarity with standards and regulations related to the use of this protective equipment is recommended, even if they do not directly apply to you. If self-employed or if used in a non-occupational setting, refer to Employer Responsibilities and Product User Safety Instructions. Go to gvs-rpb.com/important-safety-information for helpful links to OSHA, EN and AS/NZS standards, and other content.

Employers: Read this manual and the flow control device Instruction Manual and carry out the Employer Responsibilities (page 11).

Product users: Read this manual and the flow control device Instruction Manual and follow the Product User Safety Instructions (page 12).

Check website for updates. Product manuals are regularly updated.

Visit gvs-rpb.com/resources for the most recent version of this manual before using the product.

PROTECTION PROVIDED AND LIMITATIONS

PROTECTIONS PROVIDED

The GVS Radex filter has 6 stages of filter media to help protect the user from solid or liquid particulates, such as dusts, mists, or odors 0.5 micron or larger, as well as an optional micro mist filter and mainline prefilter.

LIMITATIONS

The Radex Airline Filter Part No. 04-900 does not remove Carbon Monoxide and other toxic gases/fumes from the compressed air.

HAZARD LIMITATIONS

The GVS Radex is NOT FOR USE if the air source being supplied to the Radex has any of these conditions:

- The air source atmosphere contains less than 19.5% oxygen.
- The air source contains hazardous gases (e.g., carbon monoxide).
- The temperature is outside the range of 14°F to 140°F (-10°C to +60°C).

STANDARDS AND REGULATIONS

The Radex Filtration system can help meet requirements for breathing air quality. Refer to the following standards and regulations, depending on the location the Radex is being used, for more information:

- ANSI/Compressed Gas Association Commodity Specification for Air, G-7.1-1989.
- Federal OSHA 29 CFR 1910.134 "Compressor Operations for Breathing Air"

- Army Corps of Engineers EM385-1-1, Section 30.F04.
- EN 12021 :2014 Respiratory equipment. Compressed gases for breathing apparatus.
- AS/NZS 1715:2009 Selection, use and maintenance of respiratory protective equipment.

AIR SOURCE, FITTINGS, AND PRESSURE

AIR SOURCE

Locate the air source in a clean air environment. Make sure the air source is somewhere that vehicles, forklifts, and other machinery are not running near the air inlet, as this will cause carbon monoxide to be drawn into your air supply.

The Air supplied to the Radex Airline Filter should not exceed 140 degrees Fahrenheit (60 degrees Celsius). When an oil lubricated air compressor is used and it gets excessively hot, it can potentially create Carbon Monoxide.



DANGER

Do not connect the Radex's air supply hose to nitrogen, toxic gases, inert gases or other non-breathable air sources. Check the air source before using the airline filter. This apparatus is not designed for use with mobile air supply systems i.e. cylinders or ambient air pumps. Failure to connect the supply hose to the proper air source could result in serious injury or death.

ADDITIONAL EQUIPMENT

Always use suitable aftercoolers/dryers. Refer to the compressor manufacturer/instruction manual for recommendations on setting up the compressor for breathing air and for suitable in-line air-purifying sorbent beds and filters. The compressor filters and oil level should be checked daily and changed during regular scheduled maintenance or when contaminated.

REQUIRED AIR QUALITY MONITORING

- Air quality must be tested at the time of initial setup from the point of attachment (the Radex Airline Filter outlet to the respirator).
- Breathing air quality should continuously monitored and/or be tested for at least the following air components (check your local standards for requirements, see page 4):
 - O2 - Oxygen
 - CO2 - Carbon Dioxide
 - CO - Carbon Monoxide
 - H2O - Water (Moisture Content)
 - Hydrocarbons (Oil Mist)
 - Total Particulates
- Retesting the air quality is recommended If the compressor is moved or should the compressor location or environment significantly change.

A GX4® Gas Monitor, Part No. 08-400, is recommended to monitor Carbon Monoxide, Oxygen, and Hydrogen Sulfide. *(Other gas sensors may become available in the future.)*



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AIR SOURCE, FITTINGS, AND PRESSURE CONTINUED

This can help a system comply with OSHA regulation 1910.134(i)(7), EN 12021, and AS/NZS 1715.

BREATHING AIR PRESSURE

The air pressure must be continually monitored at the point of attachment. Air pressure must be read from a reliable pressure gauge, while the respirator has air flowing through it, as required by applicable standards and regulations. Refer to the instruction manual for the respirator for the Breathing Air Pressure Table to determine the correct air pressure settings for your setup.



WARNING

The air pressure supplied to the Radex Airline Filter should not exceed 125 psi (8.6 Bar). Exceeding this air pressure could cause the regulator to not allow enough air into the unit to work properly or cause the unit to explode. The pressure relief valve is rated for 150 psi (10.3 Bar) to allow the unit to reach the full 125 psi.

AIR FLOW TO THE RADEX

The Radex Airline Filter must be supplied with sufficient airflow. The length and diameter of the pipe or hose supplying air to the Radex must be accounted for using pressure drop calculations. A 5-10% pressure drop is the generally accepted practice. The pressure drop percentage is the same whether the pipe is 10ft-100ft (3m-30m) long, but the diameter of the pipe required will vary with the length. The required CFM (lpm) range for the Radex is 12-80CFM (340-2265lpm) depending on the flow control device being used. If using a C40™, up to 25CFM (708lpm) will be needed per C40.

PIPE SIZE RANGE	PRESSURE DROP (PERCENTAGE OF INLET GAUGE PRESSURE)	
	10	10
1/8" - 1/2"	10	10
3/4" - 3"	5	5
PIPE LENGTH	100ft (30m)	10ft (3m)
CHART	A	B

For a 2 outlet Radex with one user and a GX4 connected, up to 25 CFM will be needed. For a 6 outlet Radex, 80CFM is the maximum able to flow through the 3/4" FIP Port. So, when using a C40 a maximum of 3 users and a GX4 would be able to be connected at one time. If using another flow control device, such as a Flow Control Valve, Constant Flow Valve, Cool Tube or Hot Tube, 5 users and a GX4 can be connected at the same time. Refer to the head-top instruction manual for required pressures depending on the flow control device.

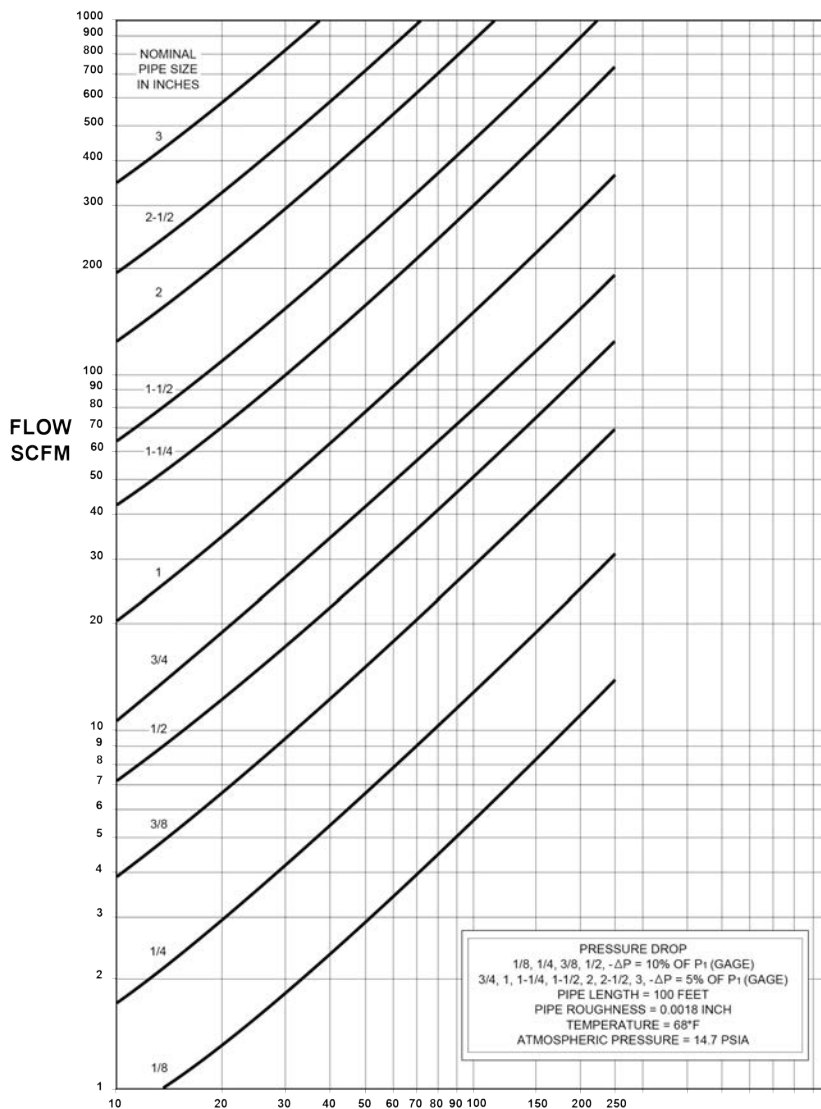
FLOW CONTROL DEVICE	PSIG (BAR) RANGE REQUIRED	2 OUTLET CFM (LPM) RANGE REQUIRED	6 OUTLET CFM (LPM) RANGE REQUIRED
C40 CLIMATE CONTROL DEVICE	50-100PSIG (3.5-7BAR)	12-25CFM (340-708LPM)	12-80CFM (340-2265LPM)
COOL TUBE OR HOT TUBE	55-100PSIG (3.8-7BAR)	6-15CFM (170-425LPM)	6-75CFM (170-2124LPM)
CONSTANT FLOW VALVE	10-34PSIG (0.7-2.4BAR)	6-15CFM (170-425LPM)	6-75CFM (170-2124LPM)
FLOW CONTROL VALVE	26-50PSIG (1.8-3.5BAR)	6-15CFM (170-425LPM)	6-75CFM (170-2124LPM)



RADEX[™] AIRLINE FILTER

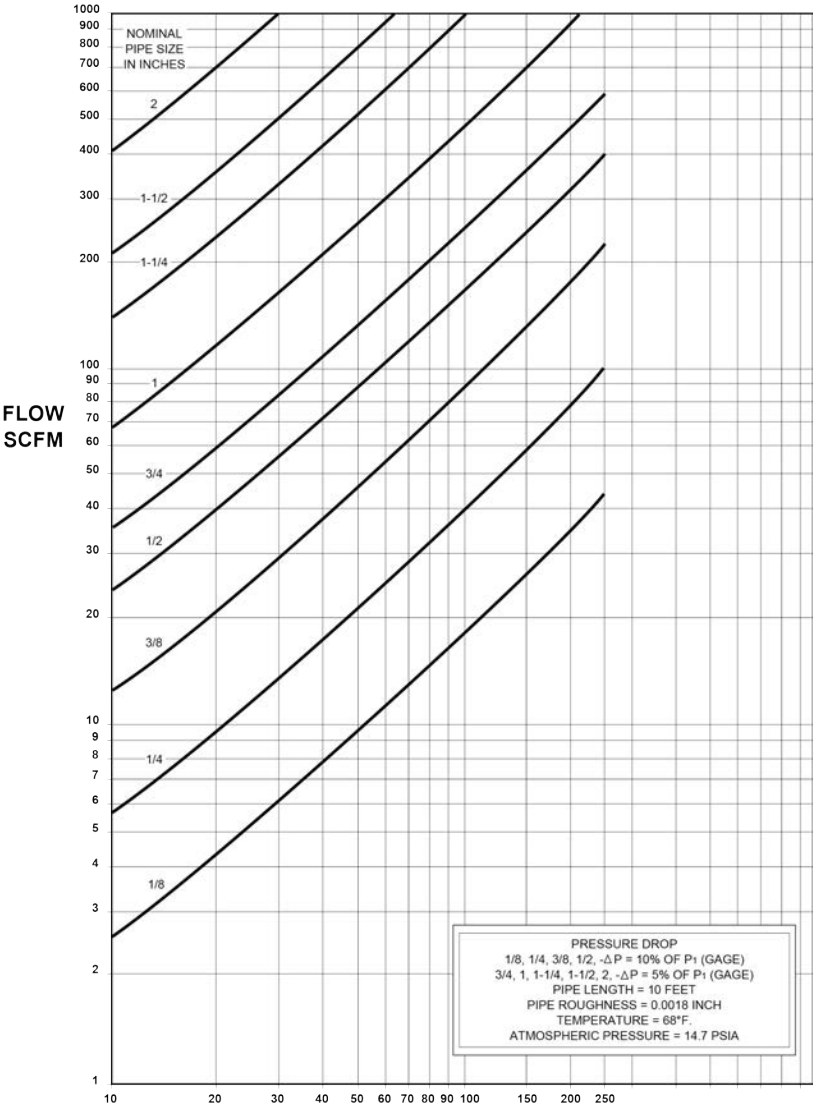
AIR FLOW TO THE RADEX CONTINUED

100FT PRESSURE DROP CALCULATION CHART - A



*Graph sourced from Parker[®] Pneumatic

10FT PRESSURE DROP CALCULATION CHART - B



*Graph sourced from Parker® Pneumatic



RADEX AIRLINE FILTER

TYPICAL SUPPLIED AIR SYSTEM

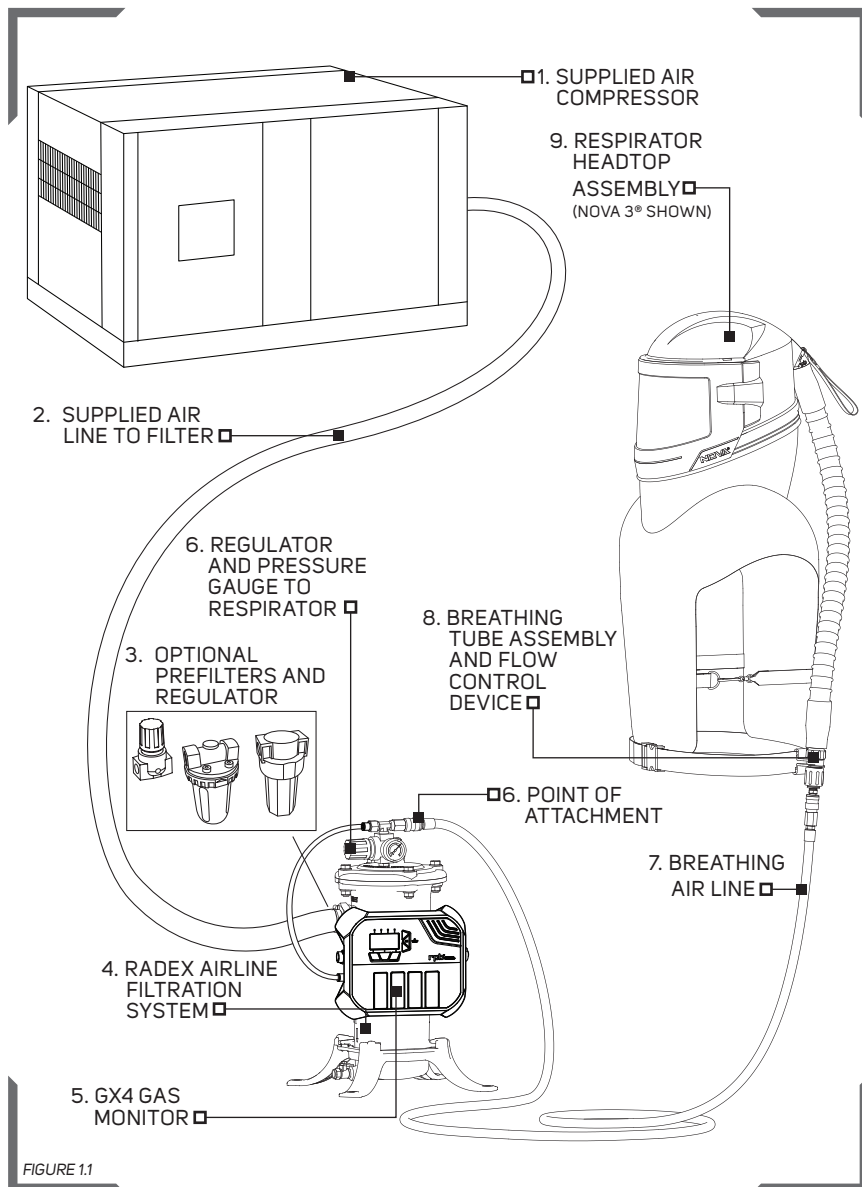


FIGURE 1.1

EMPLOYER RESPONSIBILITIES

Your specific responsibilities may vary by location and industry, but in general GVS expects that employers will:

■ Follow all applicable standards and regulations for your location, industry, and activity.

Depending on your location and industry, a number of standards and regulations may apply to your selection and use of respirators and other personal protective equipment. There also may be requirements specific to particular contaminants, e.g. silica (see gvs-rpb.com/important-safety-information for more information), asbestos, organic pathogens, etc. Know which requirements apply to your location and industry.

■ Have appropriate safety programs in place.

Have and follow:

- ☐ A workplace safety program.
- ☐ A written respiratory protection program may be required in accordance with applicable standards and regulations.

■ In accordance with the above,

- ☐ **Perform a hazard analysis and select appropriate equipment for each activity.** A hazard analysis should be performed by a qualified person. Controls should be in place as appropriate and a qualified person should determine what kind of respiratory, face and eye, head, and hearing protection is appropriate for the intended activities and environments of use. (For example, select a respirator appropriate to the specific airborne hazards, with consideration of workplace and user factors and with an Assigned Protection Factor (APF) that meets or exceeds the required level for employee protection, select welding face and eye protection appropriate to the type of welding to be done, etc.)

As applicable, check your workplace safety program, respiratory protection program, and standards and regulations for your activity or industry for related protection requirements, and see this manual (Protection Provided and Limitations, page 4), the flow control device, and the respirator head-top Instruction Manual for product specifications.

- ☐ **Be sure employees are medically qualified to use a respirator.**

Have a qualified physician or other licensed health care professional (PLHCP) perform medical evaluations using a medical questionnaire or an initial medical examination per OSHA 29 CFR 1910.134, EN 12021, AS/NZS 1715 or local standards as required.

- ☐ **Train employees in the Radex's use, maintenance, and limitations.**

Appoint a qualified individual who is knowledgeable about the GVS Radex per local standards as required to provide training:

ANSI/ASSE Z88.2 Section 8.1 Qualifications of the Respirator Trainer. Anyone providing respirator training shall:

- a) be knowledgeable in the application and use of the respirator(s);
- b) have practical knowledge in the selection and use of respirator(s) and work practices at the site;
- c) have an understanding of the site's respirator program; and
- d) be knowledgeable of applicable regulations.



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EMPLOYER RESPONSIBILITIES CONTINUED

Train each Radex user in the product's use, application, inspection, maintenance, storage, and limitations in accordance with the content of this Instruction Manual and the approved flow control device and respirator head-top Instruction Manuals and standard or regulatory requirements. Ensure that each intended user reads all of these manuals.

☐ **Ensure that equipment is properly set up, used, and maintained.**

Make sure that equipment is properly set up, inspected, used, and maintained, including changing the air filter cartridge per the recommendations in the maintenance section of this manual.

☐ **Measure and monitor airborne contaminants in the work area.**

Measure and monitor airborne contaminant levels in the work area in accordance with applicable requirements.

☐ **Make sure the area is ventilated and monitored:**

Ventilate and monitor the air in the work area as required by local standards and regulations.

☐ **If you have any questions, contact GVS.**

■ Call Customer Service Department at:

Tel: 1-866-494-4599

Email: sales@gvs.com

Web: gvs-rpb.com

PRODUCT USER SAFETY INSTRUCTIONS

BEFORE INITIAL USE - BE TRAINED

Do not use this airline filter until you have read this manual, the flow control device and respirator head-top Instruction Manuals (additional copies available at gvs-rpb.com/resources) and been trained in the respirator's use, maintenance, and limitations by a qualified individual (appointed by your employer) who is knowledgeable about the GVS Radex.

MAKE SURE THE SYSTEM IS READY FOR USE

Inspect all components daily for signs of damage or wear and tear that may reduce the level of protection originally provided. Remove any damaged component or product, as the filter is a pressure vessel and damage to the vessel could cause fatigue that could result in serious injury or death. Do not attempt to weld the filter unit.

Make sure that the filter is correctly assembled in the configuration that suits your application. Never use the filter without all components in place. Verify that you have all required components for the Radex airline filter system, such as: pressure relief valve, regulator, drain valve, filter canister and the lid is tightened securely. Air will be released when pressure in the filter exceeds 150 psig (10.3 Bar). If the hole is plugged with something other than the pressure relief valve, excess pressure could cause the vessel to explode, potentially resulting in serious injury.

Use only authentic GVS brand parts and components. Using incomplete or inappropriate equipment, including the use of counterfeit or non-GVS parts, can result in inadequate protection and could reduce the filtration capabilities. Do not modify or alter any part of this product.

VERIFY THAT YOU HAVE THE APPROPRIATE EQUIPMENT FOR YOUR ACTIVITY

Verify that the Radex provides appropriate protection for your activity. As applicable, check your workplace safety program, respiratory protection program, and standards and regulations for your activity or industry. (See PROTECTION PROVIDED AND LIMITATIONS, page 4.)

BEFORE CONNECTING A RESPIRATOR TO THE RADEX®:

Verify airborne contaminants are within recommended limits for respirator use:

- Determine the type and level of contamination. Verify that airborne contaminant concentrations do not exceed those allowed by applicable regulations and standards for supplied air respirators.

Make sure the work area is ventilated, and the work area and the breathing air supply are monitored:

- Make sure that the area is well ventilated and that regular air samples are taken to confirm the atmosphere stays within the levels recommended by OSHA, EN, AS/NZS and other governing bodies and standards. It is recommended to use a GX4 Gas Monitor for monitoring breathing air supply coming from the Radex. Follow the GX4 Gas Monitor Instruction Manual.

If you have any questions, ask your employer.

SETUP AND CARE

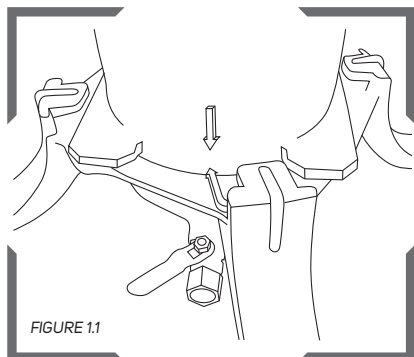
Install the Radex in a location that is within the recommended temperature range of 14°F to 140°F (-10°C to +60°C) to protect the unit and to keep the air supply below 140°F (60°C). Always mount the Radex Airline Filter on a secure level surface. It is recommended to bolt the stand to the ground to prevent it from tipping over or mount it on a sturdy wall.



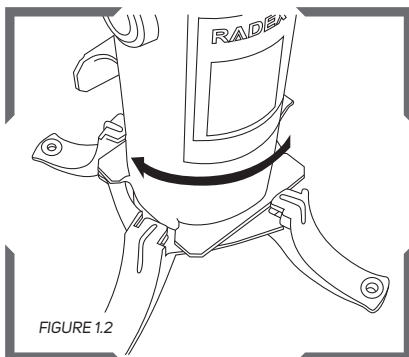
RADEX[®] AIRLINE FILTER

SETUP AND CARE CONTINUED

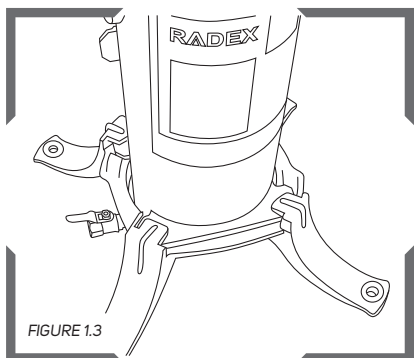
BASE MOUNT - GROUND



To connect the base mount align the arrows on the base mount with the arrows on the filter.

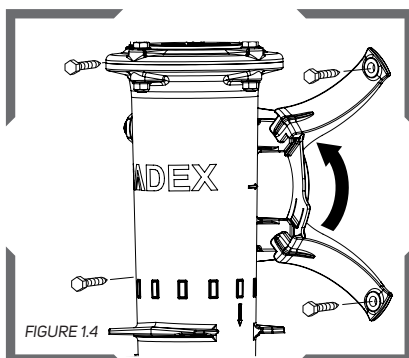


The base mount will only fit in two positions, the arrows must align before locking. Turn the filter in a clockwise direction and lock into position. You will hear a click when the base is in the final position.



Using the holes in the legs of the base mount, bolt the unit to the ground, preferably concrete, to prevent tipping over and causing injury or damage to the unit. Use 3/8" (10mm) bolts or lag screws to secure the base to the ground.

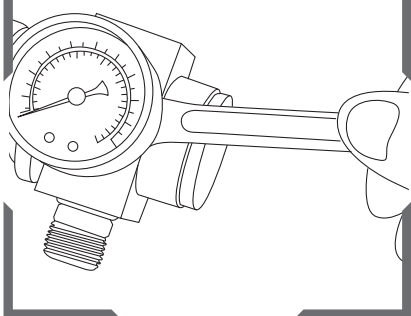
BASE MOUNT - WALL



The base mount can also be used to mount the filter to a sturdy wall. Use bolts to secure the base mount to the wall through the holes in the legs. Secure the Radex to the base mount once secured to the wall. The bolts/screws must be able to hold the approximate 20lbs weight of the unit.

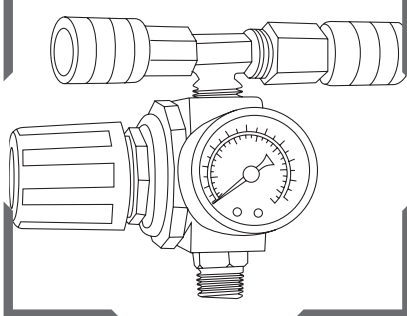
04-900 ASSEMBLY - 2 OUTLET MANIFOLD

FIGURE 2.1



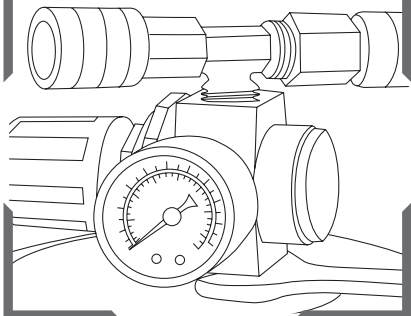
To assemble the pressure regulator, thread the pressure gauge into the body and tighten using an 11mm wrench.

FIGURE 2.2



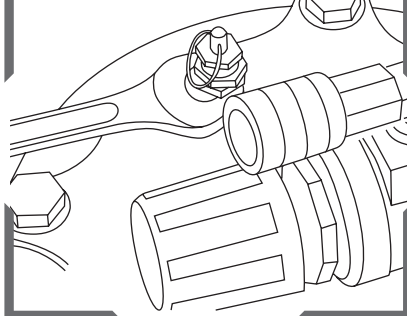
Connect the quick disconnect coupler and brass cap to the 3/8" tee into the top of the pressure regulator and tighten. Tighten the regulator assembly before mounting onto the Radex® Airline Filter. Use thread sealant on all fittings.

FIGURE 2.3



Fit the complete regulator assembly onto the top of the Radex Airline Filter lid using a 17mm wrench.

FIGURE 2.4



Fit the pressure relief valve and tighten.



WARNING

The pressure relief valve must be connected to protect the Radex Airline Filter from over pressurizing. If the hole is plugged with something other than the pressure relief valve, excess pressure could cause the vessel to explode.

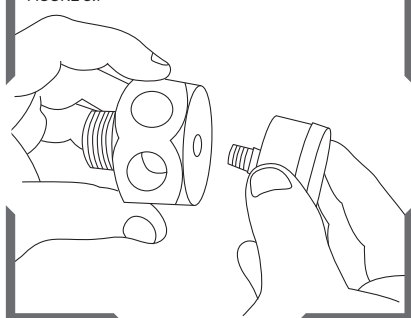


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SETUP AND CARE CONTINUED

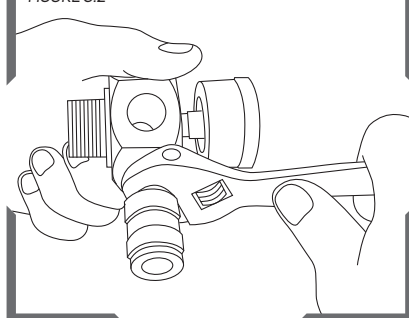
04-960 ASSEMBLY - 6 OUTLET MANIFOLD

FIGURE 3.1



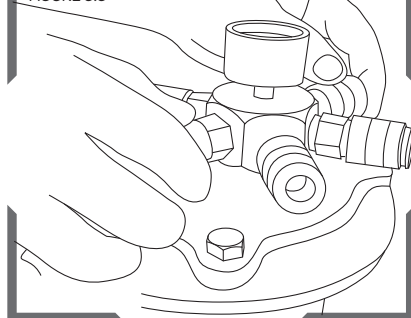
To assemble the Six Outlet Manifold, first thread the 04-915 Pressure Gauge into the 04-965 6 Outlet Manifold and tighten.

FIGURE 3.2



Thread all six Couplers into the 04-965 Manifold and tighten.

FIGURE 3.3



Thread the completed Six Outlet Manifold assembly into filter lid and tighten.

FIGURE 3.4



Thread the 04-916 Pressure Relief Valve into the lid and tighten.

⚠ WARNING

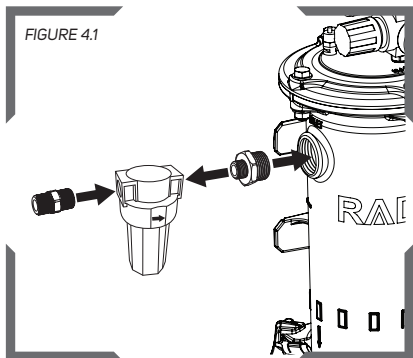
The 04-964-RZ couplers are secured with lock screws. **DO NOT** remove the RZ couplers as the threads will be damaged and replacement couplers are not available.

OPTIONAL ATTACHMENTS

The Micro Mist Filter (04-925), Mainline Prefilter (04-927), Auto Drain Unit (04-924) and Super High Flow Regulator (04-962) are optional attachments for environments that are humid or have excessive moisture, or have oil or other fine particulates in the air. They can all be used together or individually.

FITTING THE MICRO MIST FILTER

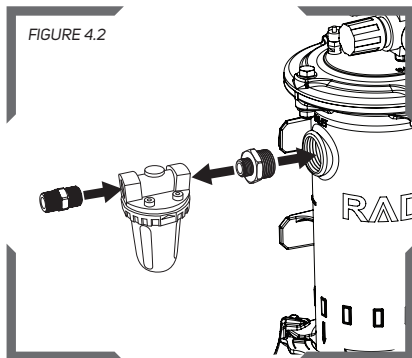
FIGURE 4.1



To fit the Micro Mist Filter, first thread the reducing nipple 04-926 into the micro mist filter then thread it into the filter inlet and tighten, ensure the micro mist filter is positioned straight so it drains moisture from the collection bowl. Thread in the 1/2" NPT Hex Connector 04-952 to the inlet of the Micro Mist Filter.

FITTING THE MAIN LINE PREFILTER

FIGURE 4.2



To fit the Main Line Prefilter, first thread the reducing nipple 04-926 into the Main Line Prefilter then thread it into the filter inlet and tighten, ensure the Main Line Prefilter is positioned straight. Thread in the 1/2" NPT Hex Connector 04-952 to the inlet of the Main Line Prefilter.

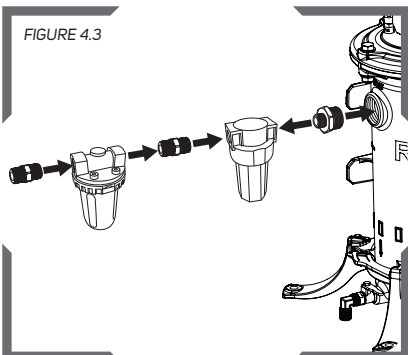


RADEX[®] AIRLINE FILTER

SETUP AND CARE CONTINUED

FITTING THE MAIN LINE PREFILTER IN LINE WITH THE MICRO MIST FILTER

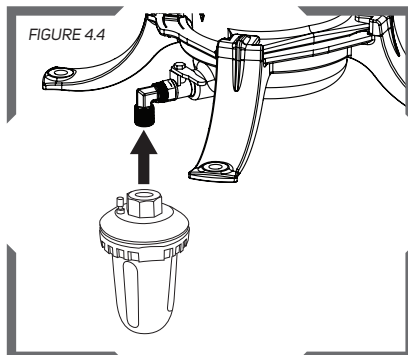
FIGURE 4.3



To fit the Main Line Prefilter onto the Micro Mist Filter, thread the 1/2" Hex Connector 04-952 into the Main Line Prefilter then thread it into the Micro Mist Filter inlet and tighten, ensure both units positioned straight.

FITTING THE AUTO DRAIN UNIT

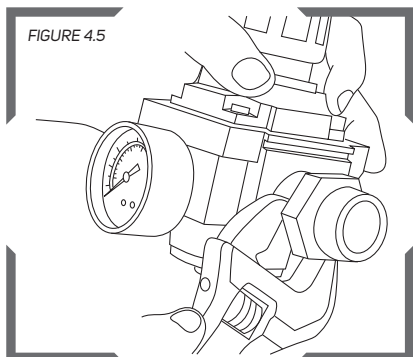
FIGURE 4.4



To fit the Auto Drain Unit, screw the unit onto the elbow connector on the draining valve. Make sure the unit is straight down so it will drain properly.

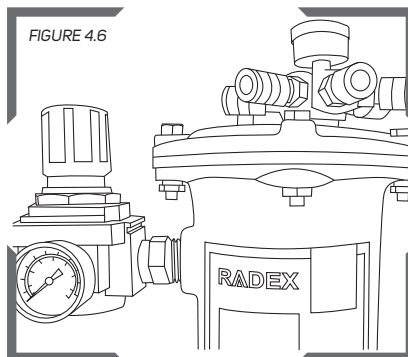
SUPER HIGH FLOW REGULATOR ASSEMBLY

FIGURE 4.5



Thread the 04-915 Pressure Gauge and 04-966 1"NPT Connector into the 04-962 Super High Flow Regulator and tighten.

FIGURE 4.6



Now thread the complete Regulator into the INLET port on the body of the Radex Filter Unit and tighten or connect it to the inlet of the Micro Mist Filter or the Main Line Prefilter.

NOTE

Refer to your respirator instruction manual for pressure ranges for your respirators, increase the pressure according to the number of operators.

Check that ALL fittings and connections are tight. **YOUR FILTER IS NOW READY FOR USE.**

INLET CONNECTION

The Radex Airline Filter has a 1" NPT inlet. Thread in a ball valve close to the inlet so the unit can be shut off for servicing. Connect inlet fittings and tighten. Once the Radex is completely assembled and connected to compressed air open supply line, check fittings for any air leaks and tighten accordingly.

⚠ WARNING **DO NOT over tighten fittings, as over tightening could crack the filter body which may lead to an explosion and cause serious injury.**
Follow tightening directions from the maintenance section using a torque wrench.

BREATHING AIR SUPPLY HOSES AND FITTINGS

GVS air supply hoses and fittings must be used between the Radex (point of attachment) and the respirator breathing air connection at the wearer's belt. The hose sections must be within the correct length and the amount of sections must be within the number specified in the breathing air pressure table in the instruction manual for the respirator being used. All connections should be sealed using liquid thread sealant. If the Radex Airline Filter is hard piped an isolation valve must be used to enable depressurization for servicing.

MAINTENANCE

Drain Moisture Daily

Water will accumulate in the filter tank, this should be drained by opening the ball valve. This should be done each day. In very humid climates or if there is large amounts of water in the air supply it is recommended to leave the ball valve partially open to bleed the moisture. When fitted with auto drain assembly 04-924, moisture will automatically drain from the unit. Check it periodically as particles could cause blockages.

Filter cartridge replacement

The filter cartridge should be inspected weekly or more often depending on usage and the conditions of the air system in which the Radex Airline Filter is installed. The filter cartridge should be replaced after a period of 3 months based on a 40 hour week and typical usage. If the Pressure Gauge on the Super High Flow Regulator and the Pressure Gauge on the Manifold are reading more than 10psi apart, your cartridge is blocked and needs replacing.

The filter cartridge must be replaced immediately if the following exist:

1. The presence of odor and or tastes in the air being supplied to the respirator.
2. Presence of moisture at the outlet fittings.
3. Large pressure drop of 10psi or more across the filter.



RADEX[®] AIRLINE FILTER

SETUP AND CARE CONTINUED

Optional Equipment

Check and replace as needed:

- Main line pre-filter element.
- Micro-mist filter element.

Replacing the Cartridge and Cleaning the unit

1. Shut off the air supply to the Radex Airline Filter and release all air from the body by opening the pressure release valve.

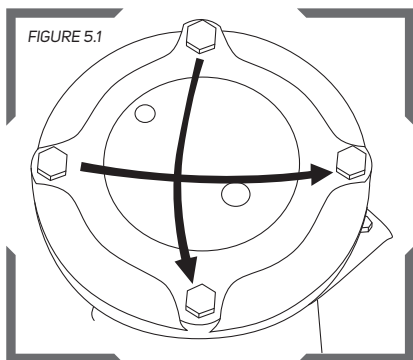


WARNING

Pressurized air in the filter could cause lid to forcefully blow off during removal, resulting in serious injury.

2. Remove the bolts from the lid and separate the lid from the body.
3. Remove the cartridge and dispose in an appropriate disposal area.
4. Clean and dry the inside of the filter body with water, mild detergent, and a cloth or paper towels to remove any contaminants, do not clean with volatile chemicals. Irritation or sickness may result from lack of cleaning the inside of the Radex housing.
5. Check the o-rings (04-919) and replace if damaged.
6. Insert a new filter cartridge and reassemble the lid, tighten the bolts in the pattern drawn in (Fig 5.1). Tighten bolts to 10ft/lb torque.
7. Record the data on the sticker supplied with the filter cartridge and place onto the Radex[®] Airline Filter body.

FIGURE 5.1



PRODUCT CARE

Do not apply paints, solvents, adhesives or self-adhesive labels except as instructed by GVS. This product may be adversely affected by certain chemicals.



WARNING

Depending on the contaminants filtered by the Radex, the used filter itself may be hazardous. Take appropriate precautions when handling to avoid exposure to released contaminants; a company disposal procedure may be needed.

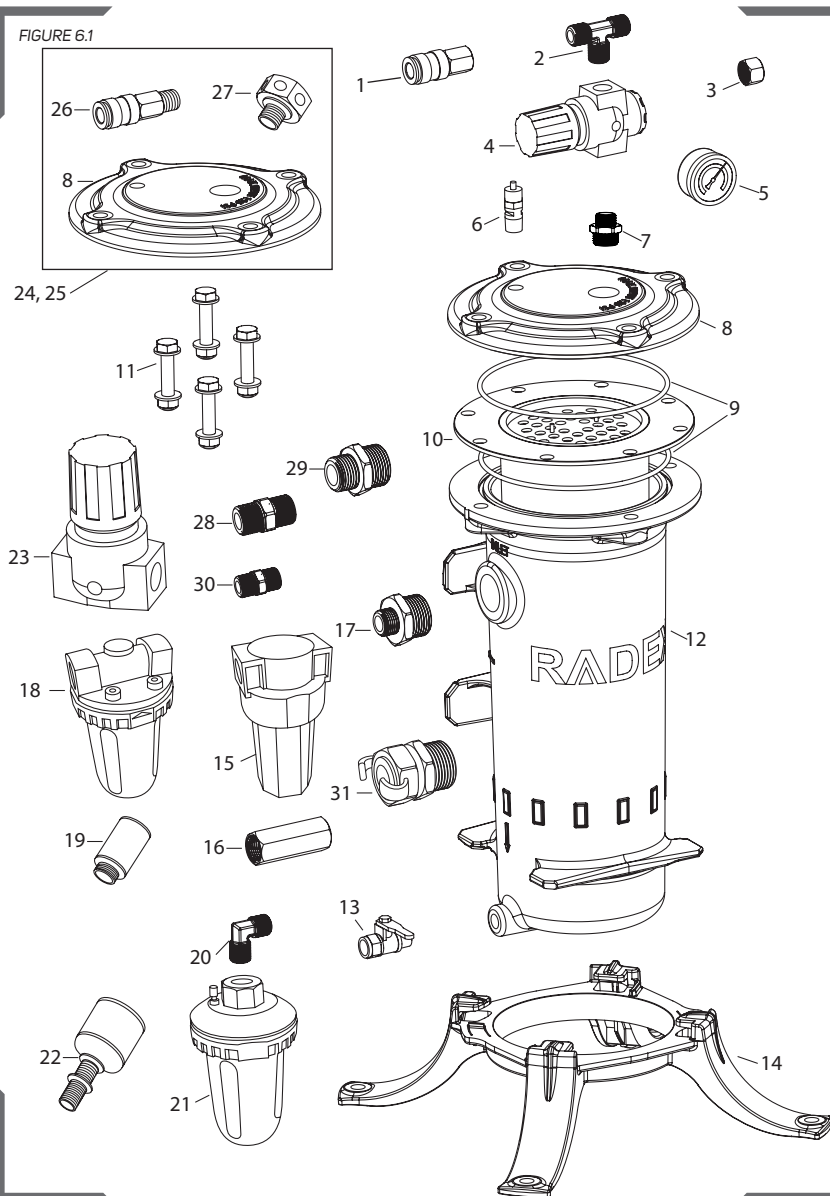
NOTES



RADEX[®] AIRLINE FILTER

PARTS AND ACCESSORIES

FIGURE 6.1



PARTS LIST

Item Number	Description	Part Number
1	GVS Quick Connect Coupler	04-911
	Schrader Quick Connect Coupler	03-042-CF
2	3/8" Tee	04-912
3	3/8" Cap	04-913
4	Pressure Regulator	04-914
5	Pressure Gauge (also for 09-962)	04-915
6	Pressure Relief Valve 150 psig (1034 kpa)	04-916
7	3/4" to 3/8" Hex Nipple Reducer for 2 outlet	04-953
8	Lid for 2 or 6 outlet configurations	04-961
9	O-ring (set of 2)	04-919
10	Filter Cartridge	APF 3100
11	Bolt, Nut, and Washer (set of 4)	04-920
12	Body	04-921
13	Drain Tap	04-922
14	Base Mount	04-923
15	Micro Mist Filter 1/2"*	04-925
16	Micro Mist Filter Element for 04-925*	04-930
17	1" x 1/2" Reducing Nipple*	04-926
18	Main Line Pre Filter*	04-927
19	Filter Element for 04-927*	04-929
20	Brass Elbow*	04-928
21	Auto Drain Unit*	04-924
22	Auto Drain Assembly for 04-924*	04-931
23	Super High Flow Regulator*	04-962
24	Six Outlet Upgrade Kit* inc. 5, 6, 7, 23	04-960
25	Six Outlet RZ Fitting Upgrade Kit* inc. 5, 6, 7, 23	04-964-RZ
26	Six Outlet Coupler*	04-964
27	Six Outlet Manifold*	04-965
28	1" NPT Hex Connector*	04-966
29	1" NPT to 3/4" BSP Bushing*	04-967
30	1/2" NPT Hex Connector*	04-952
31	Claw Coupler*	04-951

*Optional parts.



WARNING

Use only exact, authentic GVS® replacement parts (marked with the GVS® logo and part number), and only in the specified configuration. Using incomplete or inappropriate equipment, including the use of counterfeit or non-GVS® parts, can result in inadequate protection and will void the NIOSH approval of the entire respirator assembly.



RADEX[™] AIRLINE FILTER

LIMITED WARRANTY

GVS[®] warrants that its Products will be free from defects in materials and workmanship for one (1) year, subject to the terms of this limited warranty. The Products are sold only for commercial use, and no consumer warranties apply to the Products. This limited warranty is for the benefit of the original Product purchaser, and cannot be transferred or assigned. This is the sole and exclusive warranty provided by GVS[®], and ALL CONDITIONS AND IMPLIED WARRANTIES (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE EXCLUDED AND DISCLAIMED FROM WARRANTY COVERAGE. GVS[®] limited warranty coverage does not apply to damage resulting from accident, improper use or misuse of the Products, wear and tear resulting from the normal use of the Products, or the failure to properly maintain the Products.

GVS[®] limited warranty coverage runs from the original date of purchase of the Products, and applies only to warranted defects which first manifest themselves and are reported to GVS[®] within the warranty period. GVS[®] retains the right to determine to its reasonable satisfaction whether any claimed defect is covered by this limited warranty.

If a warranted defect occurs, GVS[®] will repair or replace the defective Product (or a component of the Product), in its sole discretion. This "repair or replacement" remedy is the sole and exclusive remedy under this limited warranty, and under no circumstances shall GVS[®]'s liability under this limited warranty exceed the original purchase price for the Products (or the applicable component). GVS[®] has no responsibility for incidental or consequential damages, including loss of use, maintenance and other costs, and ALL INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED AND DISCLAIMED from this limited warranty. Contact GVS[®] to obtain warranty service. Proof of purchase must be provided to obtain warranty service. All costs of returning the Products to GVS[®] for warranty service must be paid by the purchaser.

GVS[®] reserves the right to improve its Products through changes in design or materials without being obligated to purchasers of previously manufactured Products.

LIABILITY

GVS[®] Safety cannot accept any liability of whatsoever nature arising directly or indirectly from the use or misuse of GVS[®] Safety products, including purposes that the products are not designed for. GVS[®] Safety is not liable for damage, loss or expense resulting from the failure to give advice or information or the giving of incorrect advice or information, whether or not due to GVS[®] Safety's negligence or that of its employees, agents or subcontractors.

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OTHER PRODUCTS

ISO9001
CERTIFIED COMPANY

GVS® NOVA 3® RESPIRATOR

The GVS® NOVA 3® combines breakthrough protection technology with advanced comfort and functionality, surpassing even the most rigorous industry standards and the demands of the most quality-conscious companies. Designed to optimize safety and productivity, and to minimize worker downtime, the helmet has a host of features that maximize its lifetime value.



AIR QUALITY MONITORING

Do you need an intelligent gas monitor that can give you complete confidence in the air you and your employees are breathing? The GVS® GX4® Gas Monitor has the ability to detect up to 4 gases simultaneously, giving you total peace of mind.



GVS® C40™ CLIMATE CONTROL

Looking for an advanced climate control device that can heat and cool your supplied air just by the slide of a lever? Look no further than the GVS® C40™. From the searing heat of an Arizona summer to a severe Scandinavian winter the GVS® C40™ will keep you comfortable.



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