

*“Save  
Your  
Breath  
With* **NST<sup>®</sup>** ”  
MODERN SAFETY TECHNIQUES

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**SERVICE MANUAL  
TWIN MODEL RP200C( \_ )-S1/2  
RESPIRATORY PROTECTOR<sup>®</sup>**

\*\*\*\*\*

**WARNING: Do not attempt to operate this equipment without first reading and understanding these operating instructions. Suitability for use of this device lies solely with user.**

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**SPECIFICATIONS**  
**RESPIRATORY PROTECTOR**  
**RP200C( )-S1/2**

INLET PRESSURE (Max.)	150 PSIG STATIC (10.4 bar)
RATED AIR FLOW (Max.)	250 SCFM (118.0 L/s)
OPERATING PRESSURE	100 PSIG DYNAMIC (6.9 bar)
OUTLET PRESSURE RANGE	0-125 PSIG (0-8.6 bar)
OPERATING TEMP. RANGE	68 -150 F (20-65 C) COMPRESSED AIR TEMP 0 - 105 F (-17 TO 40 C) AMBIENT AIR TEMP
OPERATING RELATIVE HUMIDITY (INLET AIR)	30-90% RH
OUTSIDE DIMENSIONS	66"L x 36"W x 7.75"D (1676mm x 714mm x 197mm)
WEIGHT (INCLUDING MONITOR)	250 LBS (113.7 kg.)

**REPLACEMENT FILTERS**

-GRADE 10 ELEMENT FOR 80411 PRE-COALESCE R FILTER	80403
-GRADE 6 ELEMENT FOR 80412 PREFILTER	80404
-THIRD STAGE CHARCOAL CARTRIDGE W/GASKETS (2 REQ'D PER UNIT)	80174-203
-FOURTH STAGE CATALYST CARTRIDGE W/ GASKETS (2 REQ'D PER UNIT)	80174-204

### **GENERAL SAFETY WARNINGS**

#### **WARNING: THE MST RESPIRATORY PROTECTOR® MODELS:**

- 1) SHOULD NOT be used when the air entering the filtering system is oxygen deficient. The MST Respiratory Protector® will not increase the oxygen content of the air.
- 2) SHOULD NOT be used in Immediately Dangerous to Life and Health Atmosphere (IDLH) unless it is used in conjunction with a Back-Up Escape system or a supplied air Self-Contained Breathing Apparatus (SCBA), where applicable.
- 3) CARBON MONOXIDE MONITOR will alarm if Carbon Monoxide levels exceed requirements for Grade “D” Breathing Air set fourth by OSHA/CSA. If alarm should sound, remove respirator or activate SCBA and immediately move to safe breathable atmosphere. Have the proper qualified personnel examine the equipment and make the appropriate corrections before using again.
- 4) SHOULD NOT have air inlet pressure greater than 150 PSIG static (10.4 bar). Personal injury could result.
- 5) PURIFIED AIR provided at the point - of - attachment for the Manufactures’ Respirator/Hose should be regulated and not exceeding the Manufacturers’ Respirator/Hose Assembly pressure requirements.

## **GENERAL PURIFICATION SYSTEM DESCRIPTION**

The MST Respiratory Protector, a compressed breathing air purifier, is a system designed to remove or reduce selected contaminants, including Carbon Monoxide that is found in standard compressed air lines. The Respiratory Protector gives you the advantage of connecting directly to shop air from a standard compressed air source to help provide breathing quality air to face masks, helmets, hoods and other supplied air breathing devices. This eliminates the necessity of providing a separate breathing air compressor or air supply to your workers.

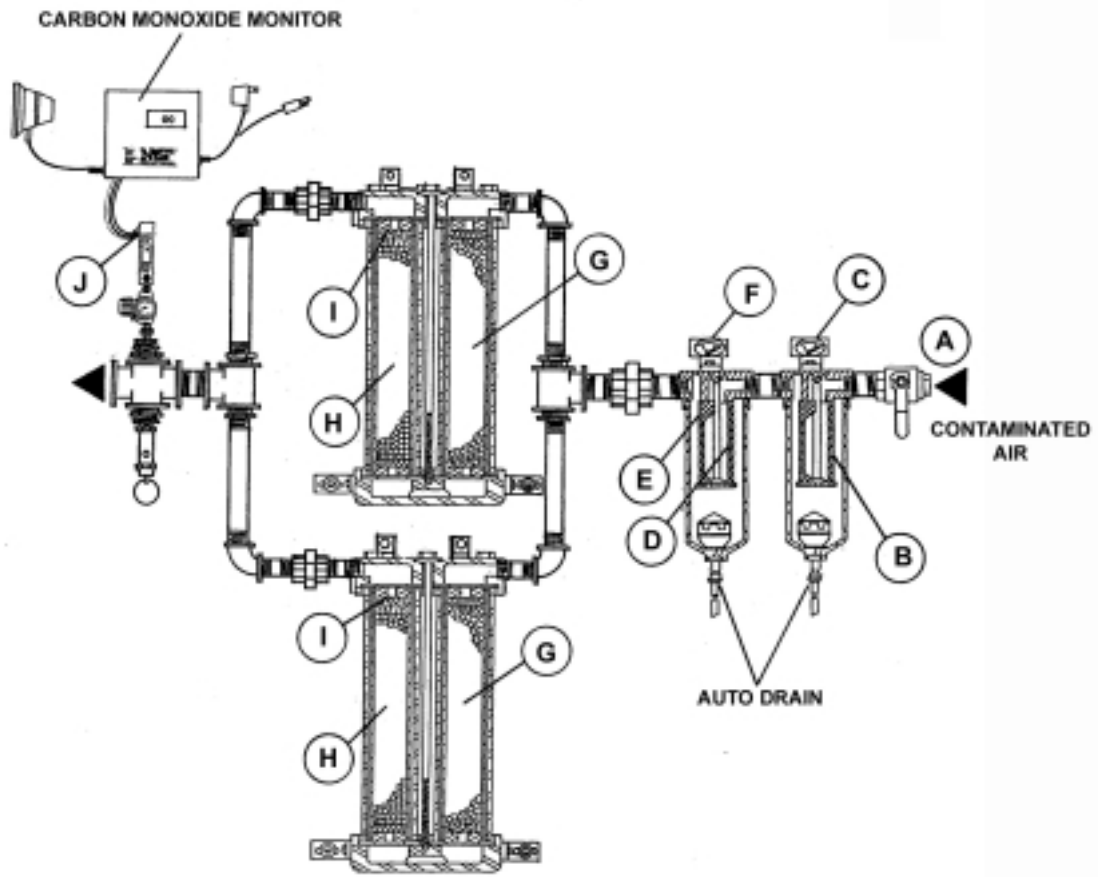
The Respiratory Protector has a five stage filtration system and a Carbon Monoxide Monitor that is mounted on a convenient mounting board that allows the unit to be mounted on any available surface.

### **SYSTEM DESCRIPTION**

(Refer to Figure No. 1 & 2)

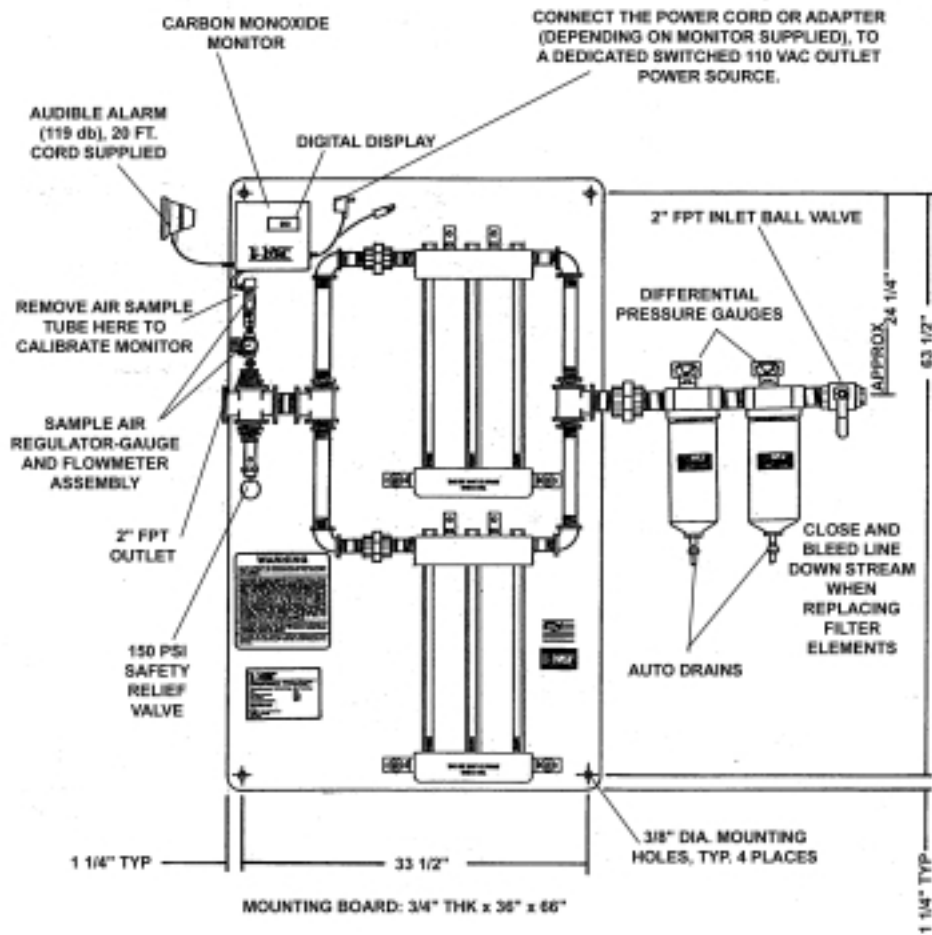
Air entering the Respiratory Protector Filtration System at the inlet **(A)** is usually contaminated with oil, water, dirt, rust, scale and often deadly Carbon Monoxide gas. As the air passes through the Pre-coalescer Stage **(B)**, particulate and liquid contaminants will be trapped and coalesced out, (greater than 0.7 micron solids trapped and down to 2.0 micron liquid aerosols removed at an efficiency rating of 95%). The liquids are trapped and expelled through the Automatic Float Drain. The Differential Pressure Gauge (DPG) at **(C)**, will indicate when the element requires changing. The First Stage **(D)** of Prefilter, traps and retains particulate matter 3.0 micron and larger by a high surface area pleated filter media. The air then passes through the Second Stage **(E)** of Prefilter, which traps all particulate matter larger than 0.3 micron and coalesces liquid aerosols with an efficiency rating of 99.97%, (this meets Underwriter Laboratory Specifications UL586 for high efficiency, particulate, air filter units (HEPA Rating). The liquids are trapped and expelled through the Automatic Float Drain. The "DPG" at **(F)**, will indicate when the element requires changing. The Third Stage **(G)**, contains a deep bed of odor absorbing activated charcoal which collects various gaseous Hydrocarbons (such as oil vapors, benzene, etc.), and removes them. The Fourth Stage **(H)**, contains a low temperature catalyst which converts Carbon Monoxide gas into Carbon Dioxide. The unique catalyst also converts or absorbs Ozone, Nitric Oxide, Sulfur Dioxide, Nitrogen Dioxide, Hydrogen Sulfide, Ammonia, Acetaldehyde, Methyl Chloride, Methyl Ethyl Ketone, Acetone and Methyl Alcohol. Finally, the air passes through a one (1) micron filter disc at **(I)**. A sample of the filtered air is taken at **(J)** and passed through the Carbon Monoxide Monitor. The monitor continuously checks the air quality, per OSHA/CSA requirements for Carbon Monoxide and digitally displays the amount present in PPM, (parts per million). An audible alarm will alert operators if levels of Carbon Monoxide exceed OSHA/CSA requirements.

**MODEL RP200C( )-S1/2  
OPERATIONAL DIAGRAM**



**FIGURE NO. 1**

7  
**MODEL RP200C( )-S1/2  
 RESPIRATORY PROTECTOR**



**GENERAL OPERATIONS**

\*\*\*\*\*

**WARNING: The MST Respiratory Protector should not:**

- 1) be used when the air entering MST's Unit is oxygen deficient. MST's Unit will not increase the oxygen content of the oxygen deficient air.**
- 2) be used in an "Immediately Dangerous to Life and Health" atmosphere, (IDLH), unless it is used in conjunction with a back-up escape system or a supplied air self-contained breathing apparatus, (SCBA), where applicable.**

\*\*\*\*\*

MST, Inc. strongly recommends that a complete safety program be instated to ensure that the respiratory air is in compliance with all OSHA/CSA standards and other applicable laws regulating the use of supplied air respiratory systems. MST, Inc. recommends that the air quality be tested upon installation and periodically re-tested to ensure that the minimum requirements for breathing air are maintained.

MST, Inc. will not assume any liability for accidents or personal injury resulting from the improper use of this equipment. Service on this equipment should only be performed by qualified personnel. This system is to be used only by trained qualified personnel in accordance with a respiratory program as outlined in OSHA Regulation 29 CFR 1910.134(b).

**CUSTOMER AIR SUPPLY**

(Refer To Figure No. 3)

- 1) SUPPLIED AIR LINE - Use minimum 2" I.D. hose or pipe to MST Unit.
- 2) SUPPLIED AIR LINE PRESSURE - Maximum air pressure at MST Unit's inlet should not exceed 150 PSIG. As a Safety Back-Up, all MST Units incorporate a pressure relief valve rated at 150 PSIG.
- 3) SUPPLIED INLET AIR TEMPERATURE RANGE - 68 to 150°F (20-65°C).
- 4) SUPPLIED AIR CONDITIONING - May be required ahead of MST's Unit to control inlet air temperature.
- 5) AVOID INSTALLING MST UNIT AFTER DESICCANT DRYER - The Desiccant Dryer will produce extremely dry air, (4% R.H. or less), and MST's fourth stage catalyst requires 30-90% R.H. in the supplied air for the catalyst to work and remove Carbon Monoxide efficiently. The extremely dry air produced by a Desiccant Dryer will also cause worker discomfort, i.e. dry throat, etc.



**MST RESPIRATORY PROTECTOR INITIAL  
INSTALLATION AND START-UP**

(Refer To Figure No. 3)

- 1) CONNECT CUSTOMER'S PIPE/HOSE TO MST UNIT - Be sure a minimum 2" I.D. pipe or hose is used. Purge new air line prior to connecting to MST Unit. Be sure all solvent fumes and gross particulates (that could build up when initially assembling inlet piping) are purged out of line (s). This will prevent overloading of MST Unit's filter elements.
- 2) NEW FILTER SYSTEM CONDITIONING - Flow supplied air through new filter sets for several minutes to condition.
- 3) REMOTE AUDIBLE ALARM - Is supplied with unit. Plug into the bottom of monitor. It is supplied with a 20 Ft. cord and produces 119db. Check Audible Alarm by rotating "zero potentiometer" (CW) until display reading is equal to alarm level setting (US=10 ppm, CAN=5 ppm). The audible alarm should be energized. The "zero potentiometer" will have to be reset to '00' using "zero air" calibration gas, (refer to Monitor manual).
- 4) POWER MONITOR/CALIBRATE -Connect the Power Cord or Adapter to a dedicated 110 VAC switched outlet power source. Be sure the monitor's "Normal or Power" light is on, and after a (5) minute warm-up, calibrate monitor. Refer to Carbon Monoxide Monitor Manual.
- 5) CALIBRATION GAS REQUIREMENTS - Zero Gas: Nitrogen, free of 'CO'. Span Gas: 50 to 150 ppm of 'CO' concentration in air. Calibration gas flow to monitor should be 0.5 to 1.5 SCFH (approx. 472 cc/min).
- 6) REGULATOR/SAMPLE AIR FLOW METER -After pressurizing system and respirators air flow set, adjust regulator located before air sample flowmeter to 10-20 psi pressure. Turn the flowmeter's adjustment knob counter-clockwise slowly until the black floating ball is within the GREEN BOX area etched on the flowmeter's body. CAUTION: if adjustment knob is turned too quickly, the black floating ball may get stuck to the top of the flowmeter scale. Damage to monitor's sensor may occur due to extremely high air flow to sensor, (not covered by sensor warranty).
- 7) EXTREME TEMPERATURE CHANGES - Avoid; monitor best performs at a temperature range of 32 - 105°F (0 to 40°C). Always calibrate monitor after it has stabilized in the surrounding air temperature where system is to be used.
- 8) RESPIRATOR/HOOD/HOSE ASSEMBLY HOOK-UP - Consult Manufacturer's respirator manual for the proper air pressure requirements and set regulator(s) at point of attachment (MST Unit outlet or remote regulated drops). The air should be dynamically flowing through respirator/hose assemblies when the air pressure is set. **DO NOT EXCEED RESPIRATOR/HOSE ASSEMBLY MANUFACTURER'S PRESSURE REQUIREMENTS OR PERSONAL INJURY COULD RESULT.**

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**MODEL RP200C( )-S1/2**  
**RESPIRATORY PROTECTOR®**

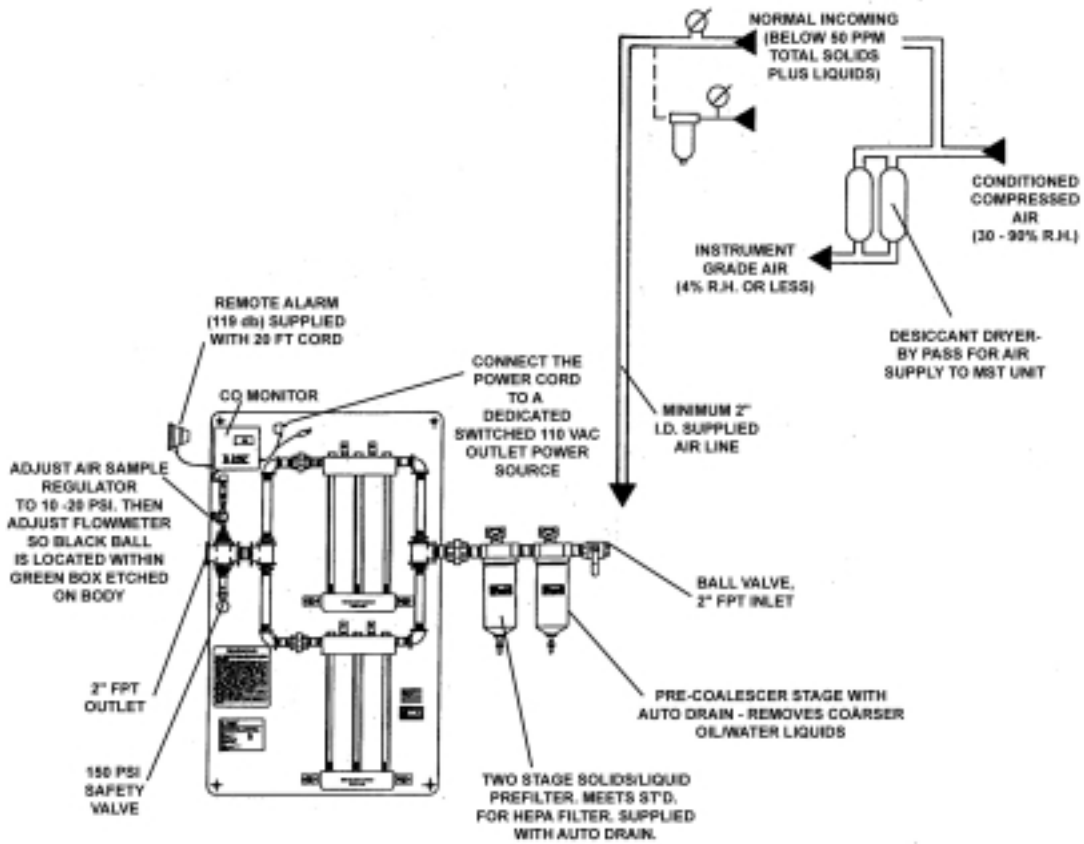
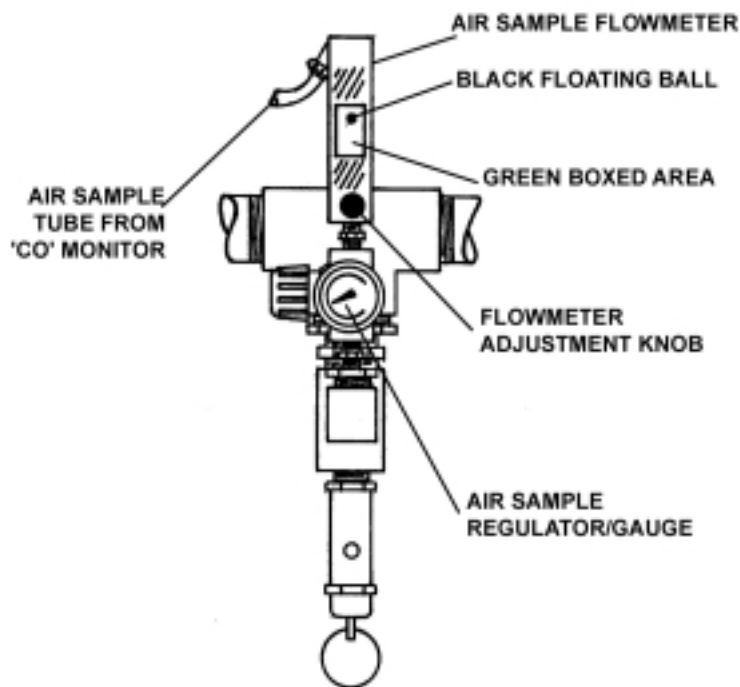


FIGURE NO. 3

\*\*\*\*\*  
**WARNING : SERIOUS INJURY could result if the AIR SAMPLE METERING VALVE is not properly adjusted. Proper sample air flow to 'CO' monitor is required for monitor to give correct 'CO' level readout.**  
\*\*\*\*\*

**AIR SAMPLE METERING VALVE ADJUSTMENT**  
**(REFER TO FIGURE NO. 4)**

- 1) After pressurizing system and respirators air flow is set, adjust the air sample regulator to 10-20 PSI pressure.
- 2) Turn the flowmeter's adjustment knob counter-clockwise slowly until the black floating ball is within the GREEN BOXED AREA etched on flowmeter body. CAUTION: if adjustment knob is turned too quickly, the black floating ball may get stuck to the top of flowmeter scale. Damage to monitor's sensor may occur due to extremely high air flow to sensor, (not covered by sensor warranty).



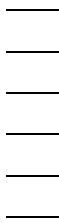
**Figure no. 4**

**MST RESPIRATORY PROTECTOR®**  
**GENERAL OPERATION AND MAINTENANCE**

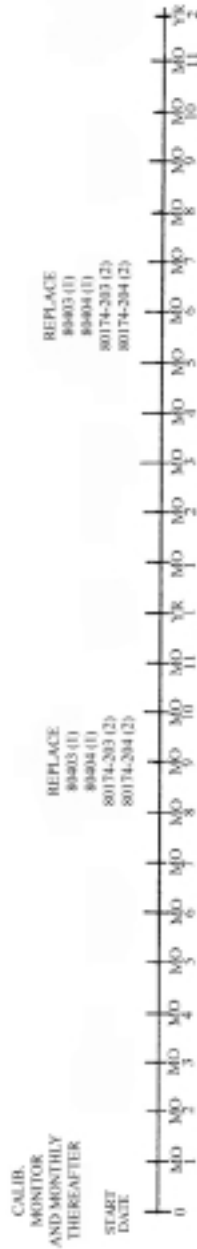
- 1) MONITOR - Utilizes an electrochemical sensor to measure the carbon monoxide content of the respirable air. If a problem has developed in the system, the monitor will alarm due to one or more of the following conditions:
  - a) Monitor may be out of calibration. The monitor should be calibrated monthly if used continuously and prior to use if used on a non-continuous basis. Calibrate monitor as outlined in the MONITOR MANUAL.
  - b) If the monitor can be and is calibrated, but the alarm still sounds, the filter cartridge life is exhausted. Replacement of filter elements as outlined in the Filter Replacement Instructions, page 14 , as required.
  - c) If the monitor can not be calibrated, the carbon monoxide sensor may require replacement. See MONITOR MANUAL for replacement instructions and other troubleshooting information. The MONITOR has one (1) year warranty (sensor has a two (2) year warranty). All warranty work must be performed at factory.
  - d) If the monitor was calibrated in a surrounding temperature other than where the system was being used and the temperature difference was 36°F (20°C) or greater, the monitor may give a false alarm due to its characteristics. Always calibrate the monitor in the temperature conditions where the monitor is to be used in. Monitor best performs at temperature range of 32 to 105°F (0 to 40°C).
- 2) CARBON MONOXIDE MONITOR - Alarm should be checked periodically. Refer to Monitor Manual.
- 3) MONITOR - Flow of the air sample to monitor should be checked periodically to ensure sample air flow meter is not clogged. This situation normally occurs when customers' supplied air has excessive liquids in it and the filters in the MST unit are not routinely c h a n g e d . Periodically check the regulator/air flow meter for proper setting/location of air flow meter floating ball and general appearance (presence of excessive oil, water).
- 4) MST RESPIRATORY PROTECTOR® SYSTEM - Filters should be replaced every (9) months unless the air quality conditions warrant more or less frequent replacement. Replace all (6) filter cartridges if:
  - a) The "CO" monitor alarms (fourth stage catalyst is used up).
  - b) The operator detects a petroleum smell and or taste in his purified air (third stage charcoal is used up).

NOTE: If the supplied air entering MST's unit has high volumes of liquids in it, the filter set life may be greatly reduced.

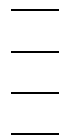
- 5) MST RESPIRATORY PROTECTOR® SYSTEM - New filter set:
    - a) Shelf life is indefinite, but should be stored in a cool/dry storage area.
    - b) When first installed in MST's unit the filters should be conditioned by flowing the customer's supplied air through system for several minutes.
-



**ESTIMATED MAINTENANCE  
REQUIREMENTS - MODEL RP200C ( )-S1/2  
RESPIRATORY PROTECTOR  
AIR PURIFICATION SYSTEM**



THE ABOVE IS A RECOMMENDED MAINTENANCE SCHEDULE AND IS FOR ESTIMATING PURPOSES ONLY. ADVERSE CONDITIONS, UNEXPECTED AIR CONTAMINATION, ETC. CANNOT BE CONTROLLED BY MIST, AND MIST CANNOT WARRANT ACTUAL FILTER LIFE OR EQUIPMENT LIFE EXCEPT FOR OUR STANDARD WARRANTY ON DEFECTS IN MATERIALS AND WORKMANSHIP DURING OUR STANDARD WARRANTY PERIOD. CUSTOMER MUST EVALUATE THEIR OWN PARTICULAR CONDITIONS TO DETERMINE THEIR SPECIAL REQUIREMENTS PLEASE SEE OUR STANDARD WARRANTY POLICY.



## **FILTER SET** **SERVICE INSTRUCTIONS**

(Refer To Figure No. 5 and 6)

\*\*\*\*\*  
**WARNING: Always turn off air supply and bleed air pressure before disassembling unit or  
 SERIOUS INJURY COULD RESULT.**  
 \*\*\*\*\*

MST, Inc. recommends replacing all (6) filter cartridges after (9) months of use unless conditions warrant more or less frequent replacement. To replace the filter cartridges in the RESPIRATORY PROTECTOR® follow these steps:

### 1) **PRE-COALESCER STAGE, GRADE 10, ELEMENT REPLACEMENT**

Element change is required when the Differential Pressure Gauge ('DPG') indicates a 6 - 10 PSID, 12 PSID max., (Refer to Figure No. 5).

- 1) First unscrew Bowl Assembly **(1)**. A strap wrench may be required to break bowl, O-ring/manifold seal. Clean bowl ass'y in mild soap and water and blow dry with low pressure air.
- 2) Remove Coalescing Element **(2)** by unscrewing End Cap Retaining Nut **(3)**.
- 3) Inspect the Filter Manifold **(4)** for dirt/contaminates and clean as required. Inspect O-ring **(5)** for cuts etc. and replace if required. Clean and apply light film of petroleum jell on O-ring before re-installing.
- 4) Install new Coalescing Element and tighten End Cap Retaining Nut. Be sure Element is seated squarely on Manifold's boss and End Cap.
- 5) Apply light film of petroleum jell on Bowl's beveled edge and threads to provide good seal. HAND TIGHTEN ONLY to Manifold.
- 6) Dispose of used Coalescing Element according to local, state and federal regulations.

### 2) **THE FIRST/SECOND DUAL STAGE, GRADE 6, ELEMENT REPLACEMENT**

The Dual stage element change is required when the Differential Pressure Gauge ('DPG') indicates an 8 -10 PSID, (Refer to Figure No. 5).

- 1) Replace the Dual Stage Element **(6)** using the above "Prefilter Stage Element" replacement instructions.
- 2) Dispose of used Prefilter Dual Stage Element according to local, state and federal regulations.

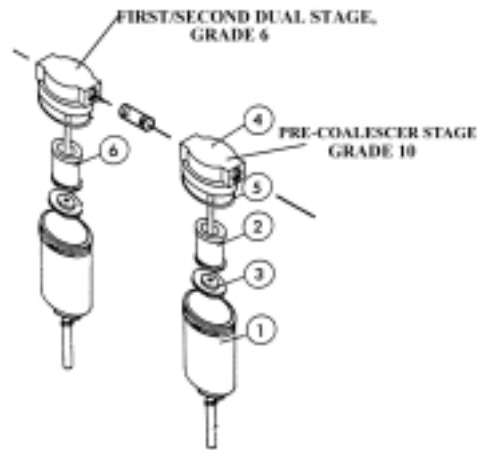


FIGURE NO. 5

### 3) THIRD/FOURTH STAGE CARTRIDGE REPLACEMENT

\_\_\_\_(Third Stage - Charcoal, Fourth Stage - Catalyst, Refer to Figure No. 6)

- a) Loosen Bracket Bolt **(1)** from Bracket **(2)**, (do not remove), on both sides of Base **(3)**.
- b) Loosen the five Manifold Bolts **(4)** and remove the front two Bolts. Now slide out the Third **(5)** and Fourth **(6)** Stage Aluminum Tube Assemblies.
- c) Remove the four old Gaskets **(7)** from the recessed areas in Base **(3)** and Manifold **(8)**; cleaning sealing surfaces from any gasket material, debris.
- d) Slide old Third Stage Filter Cartridge **(9)** out of aluminum tube. Clean aluminum tube in mild soap and water, dry and install new Third Stage Filter Cartridge. Be sure the Flow Direction Arrow on Third Stage Filter Cartridge is pointing down. Remove End Sealing Labels **(10)** from both ends of cartridge completely.
- e) Follow same procedure for the Fourth Stage Filter Cartridge **(11)** replacement as in step (d). Be sure the Flow Direction Arrow on Fourth Stage Filter Cartridge is pointing up. Also remove End Sealing Labels **(10)** from both ends of cartridge.
- f) Before sliding the Third and Fourth Stage Aluminum Tube Assemblies back in place, install Gaskets **(7)**. Coat both sides of each gasket with petroleum jelly and install in recessed areas in Base **(3)** and Manifold **(8)**. After Aluminum Tube Ass'y are installed, check to make sure the Gaskets **(7)** are positioned properly top and bottom - both ass'y.
- g) Replace the front two Manifold Bolts **(4)** and tighten all bolts in sequence from center outward to 25 foot-pounds. Repeat sequence and torque bolts to 30 foot-pounds. Recheck for proper torque limit.
- h) Tighten Bracket Bolts **(1)** against Brackets **(2)**, on both sides.
- i) Dispose of used cartridges according to local, state and federal regulations.

## 3) FINAL CHECK AND CALIBRATION

- a) Pressurize system and check for leaks.
- b) Flush system with compressed air for several minutes.
- c) Calibrate Carbon Monoxide Monitor as outlined in the MONITOR MANUAL.

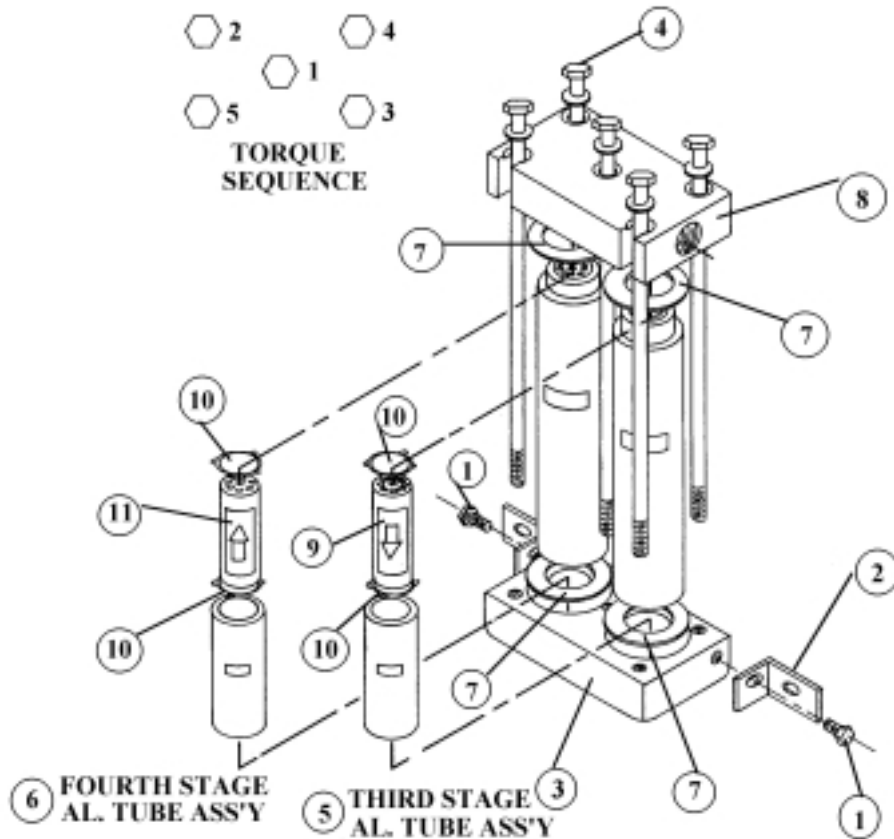


FIGURE NO. 6

## 3. Final Check and Calibration:

- a. Pressurize system and check for leaks. Re-tighten necessary parts to stop any leakage.
- b. Flush system with compressed air for five (5) minutes.
- c. Calibrate the Carbon Monoxide Monitor as outlined in the Monitor's instruction manual.



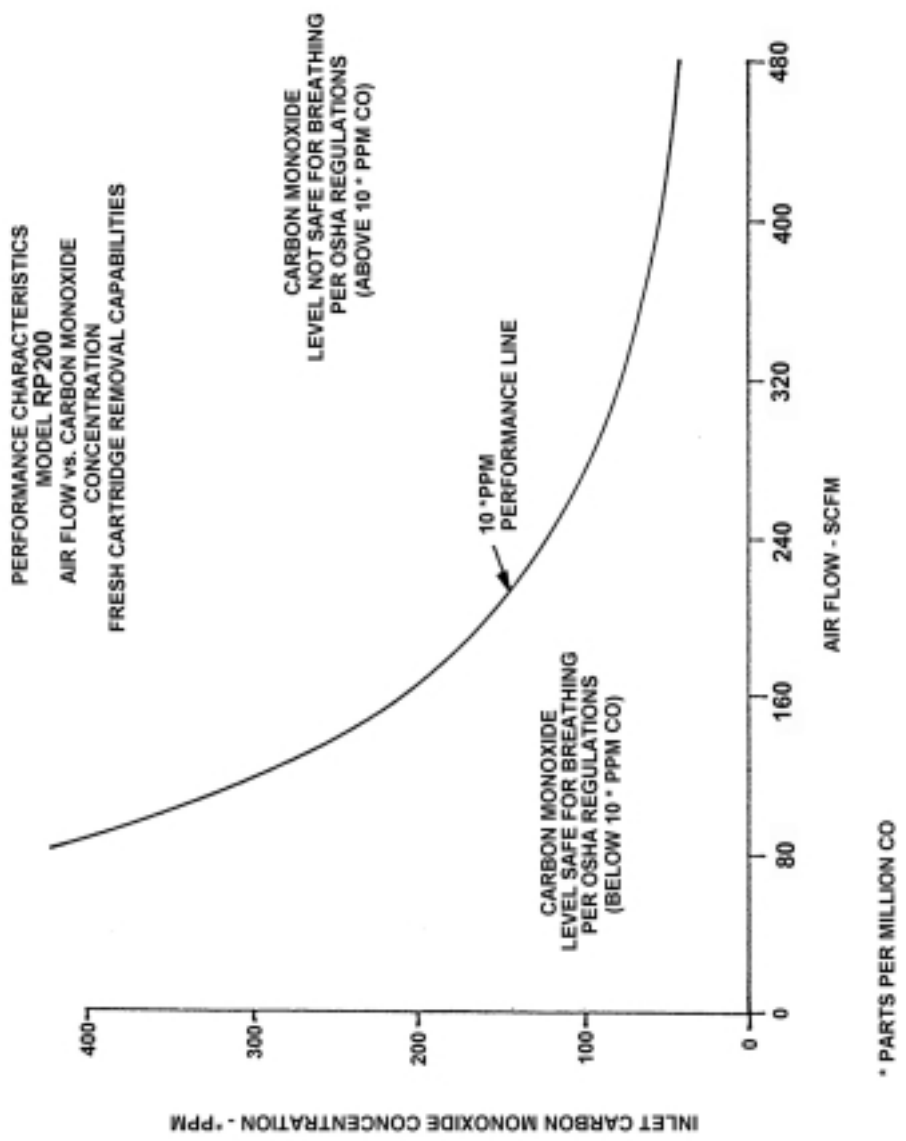
**RECORD KEEPING:**

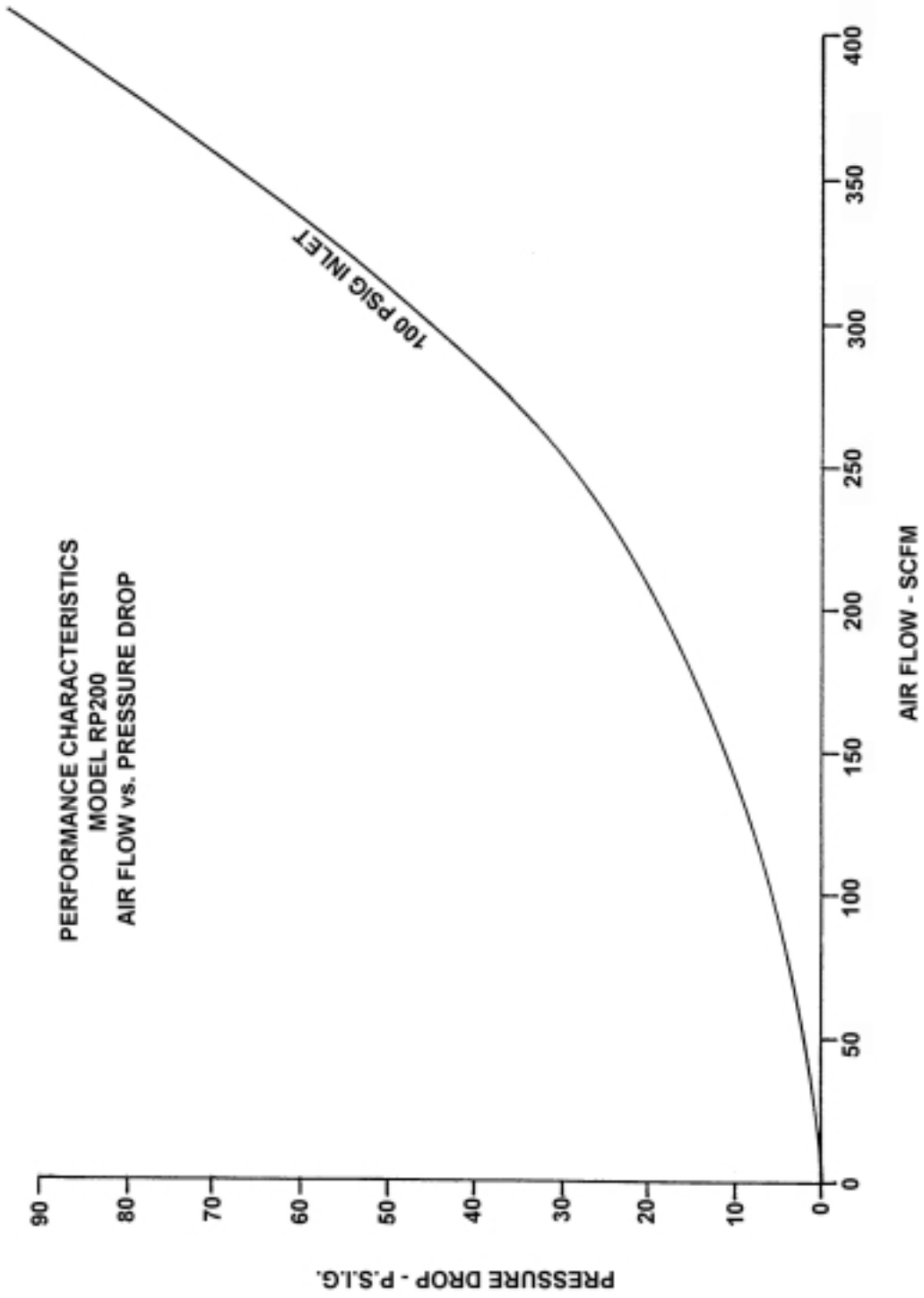
Record all periodical air quality checks, monitor calibration dates, filter cartridge change intervals and any other service performed on the Respiratory Protector Unit.

**MST, Inc. Shall not be liable for any injury, loss, or damage, direct or consequential, arising out of the use of or the inability to use this product, beyond the replacement of defective materials or workmanship. Users of supplied air respirators should evaluate their own particular application and perform their own tests for air quality to determine the suitability for use of this product.**

For further information, or questions about service or maintenance care of this unit, contact your local distributor or MST, Inc. At (800) 542-6646.







**RESPIRATORY PROTECTOR  
MODEL RP200C( \_)-S1/2 PARTS**

- |  |   |
|--|---|
| 1) 80425, (1), 2" BALL VALVE                       | 23) 80114, (4), BASE BRACKET  |
| 2) S603-092, (3), 2" BR. PIPE NIPPLE x 3" LG.      | 24) S037-056, (4), 1/4"-20 x 3/4" BH SCREWS                                   |
| 3) 80411, (1), PRE-COALESCE, 450 CFM, GR. 10       | 25) S412-009, (4), 1/4" INTERNAL LOCK WASHER                                  |
| 4) 80422, (2), DIFFERENTIAL PRESSURE GAUGE         | 26) 80115, (4), 1/4" FENDER WASHER  |
| 5) 80051, (2), TUBE LOCKING COLLAR                 | 27) 80447, (2), 1 1/4" BR. UNION  |
| 6) S710-005, (2), DRAIN TUBE                       | 28) S603-075, (2), 1 1/4" BR. PIPE NIPPLE x 2" LG                             |
| 7) 80412, (1), PRE FILTER, 450 CFM, GR 6, 2-stg    | 29) 80424, (1), 2" BR. CROSS  |
| 8) 80448, (1), 2" BR. UNION                        | 30) S638-017, (2), 1 1/4" X 3/4" BR. HEX BUSHING                              |
| 9) S603-091, (2), 2" BR. PIPE NIPPLE x 2 1/2" LG   | 31) 80427, (1), 3/4" X 150 PSI PRV  |
| 10) 80449, (2), 2" BR. TEE                         | 32) S638-016, (1), 3/4" X 1/4" BR. HEX BUSHING                                |
| 11) S638-019, (6), 2" x 1 1/4" BR. HEX BUSHING     | 33) S608-003, (1), 1/4" HEX NIPPLE  |
| 12) 80586, (4), 1 1/4" BR. PIPE NIPPLE x 12" LG    | NO#) S608-002, (1), 1/4" x 1/8" HEX NIPPLE                                    |
| 13) S622-006, (4), 1 1/4" BR 90 <sup>0</sup> ELBOW | NO#) S623-001, (1), 1/8" 90 <sup>0</sup> ELBOW                                |
| 14) S603-077, (4), 1 1/4" BR. PIPE NIPPLE x 3" LG. | 34) 80091, (1), 0-160 PSI GAUGE   |
| 15) 80196, (4), MANIFOLD BRACKETS                  | 35) 80533, (1), REGULATOR, 1/4"   |
| 16) S006-150, (12), 5/16"-18 x 3/4" HH SCREWS      | 36) 80213, (1), FLOWMETER   |
| 17) 80187, (10), MANIFOLD BOLTS                    | 37) 80261, (1), 90 <sup>0</sup> TUBE LOCKING COLLAR                           |
| 18) 80197, (10), MANIFOLD WASHERS                  | 38) 80605, (1), MNT BOARD, 3/4" x 36" x 66"                                   |
| 19) 80173, (2), BLUE MANIFOLD                      | 39) 8008403, (1), REMOTE ALARM, (119db)                                       |
| 20) 80172, (2), BLUE BASE                          | 40) 80077, (1), CO MONITOR - 2002<br>FOR MODEL RP200CA-S1/2                   |
| 21) 80176-2, (2), AL. TUBE - 3 <sup>RD</sup> STAGE | 41) 80127, (1), CO MONITOR - 5700<br>FOR MODEL RP200CMST-S1/2                 |
| 22) 80176-2, (2), AL. TUBE - 4 <sup>TH</sup> STAGE | 41A) 80247, (1), 110 VAC ADAPTER FOR 5700 CO<br>MONITOR, MODEL RP200CMST-S1/2 |

**See following page, Figure No.7, for detailed drawing.**

MODEL RP200C( )-S1/2  
RESPIRATORY PROTECTOR®

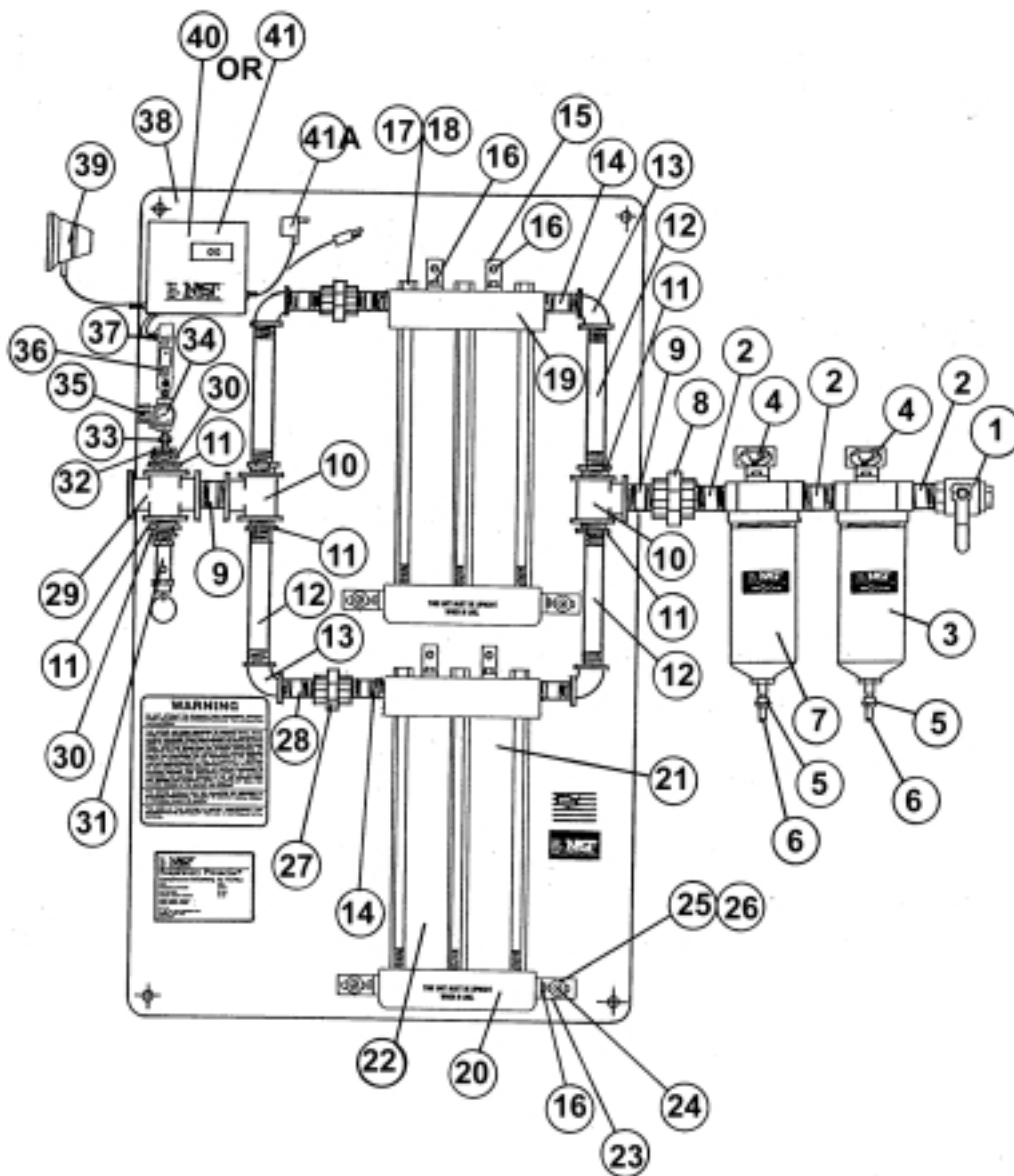


FIGURE NO. 7