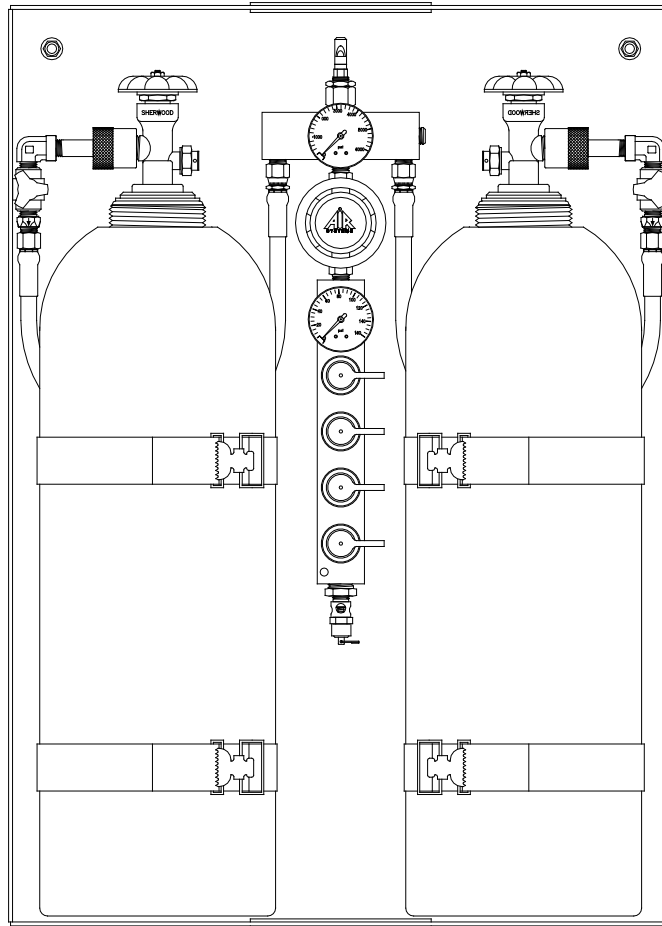




## OPERATING INSTRUCTIONS AND REPLACEMENT PARTS

### Models: PAK-3 and PAK-3HI



### WARNING

This manual must be read carefully and followed by all persons who have or will have the responsibility for using or servicing this equipment. This equipment will perform as designed only if used according to the instructions. Otherwise it could fail to perform as designed, causing personal injury or death.

### AIR SYSTEMS INTERNATIONAL, INC.

829 Juniper Crescent, Chesapeake, Va, 23320

Telephone (757) 424-3967

Toll Free 1-800-866-8100

Fax No. (757) 424-5348

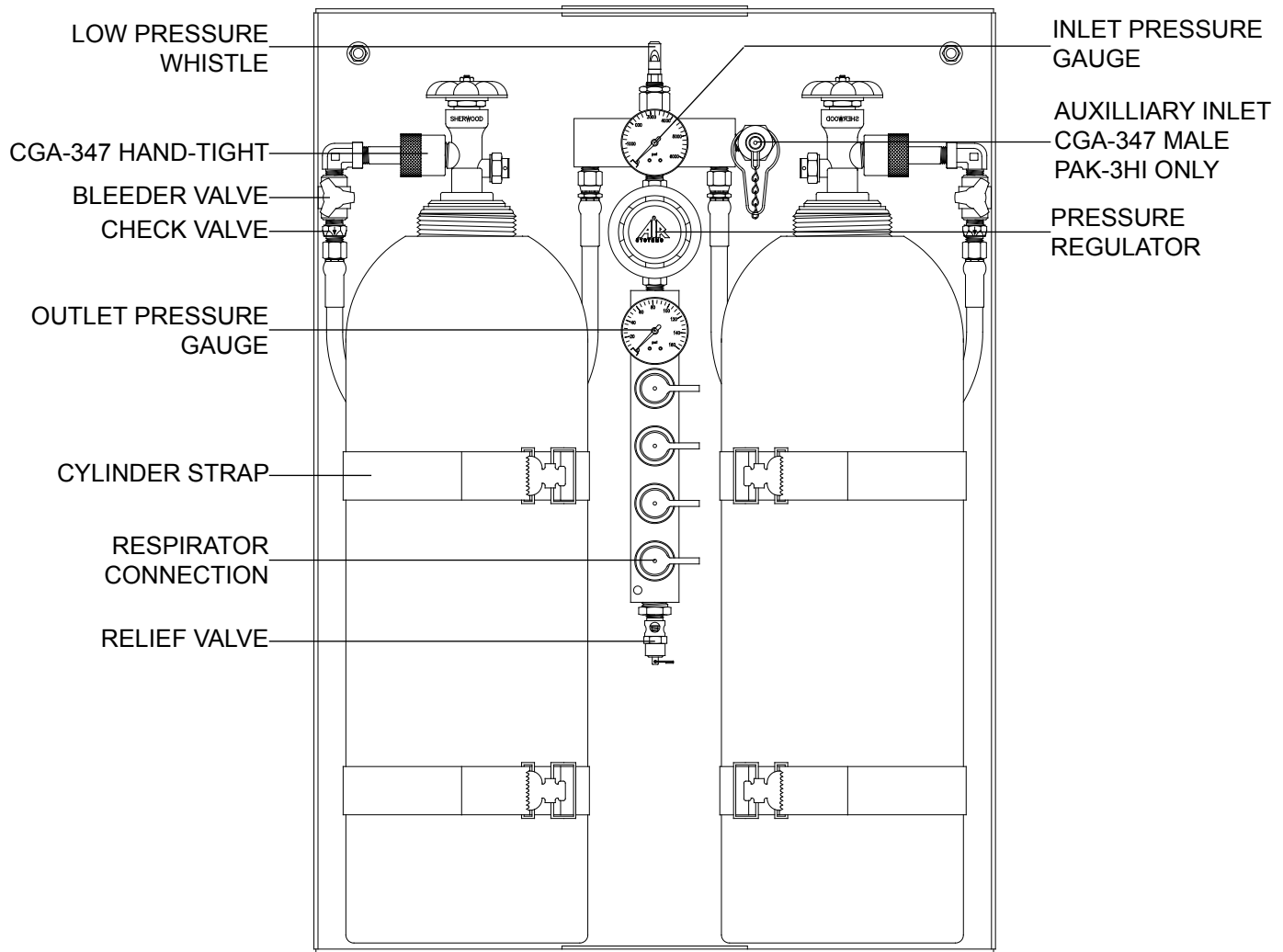
[www.airsystems.com](http://www.airsystems.com).

e-mail: [sales@airsystems.com](mailto:sales@airsystems.com)

## Specifications

Dimensions	29.5"L X 21"W X 6.5"D
Weight	27 lbs.
Frame	Powdercoated Aluminum
Whips	Thermo-Plastic Hose Rated @ 5000 PSI with a 4:1 Safety Factor
Low Pressure Alarm	Whistle Set @ 500 PSI
Pressure Regulator	5000 PSI Max Inlet Pressure / 125 PSI Max Outlet Pressure Flow Rate - 80 CFM @ 5000 PSI Inlet Pressure and 80 PSI Outlet Pressure
High Pressure Auxiliary Inlet	Model: PAK-3HI Only, CGA-347 Male, 5000 PSI MAX.
Relief Valve	125 PSI ASME Preset
Intrinsically Safe	Yes, No Electronic Devices

## Set-Up/Operation



### STEP 1)

Secure cylinders by tightening straps at the buckle and mating the velcro sections to prevent slipping. 2216 PSI and 4500 PSI, cylinders can be used.

### STEP 2)

Install the CGA-347 hand-tight nuts/stems to the cylinder valves. Close bleeder valves by turning the knobs clockwise.

### STEP 3)

Open one cylinder. The low pressure whistle will sound until pressure reaches approximately 1000 PSI. Check reading on inlet pressure gauge to verify cylinder is full. Close the cylinder valve.

### STEP 4) LOW PRESSURE ALARM TEST

Set the required respirator pressure by turning the pressure regulator knob clockwise to increase pressure or counter-clockwise to decrease pressure. Partially engage a male plug into one of the respirator connections while watching the inlet pressure gauge. As pressure decreases to approximately 500 PSI the low pressure whistle will begin to sound.

### STEP 5)

Open the other cylinder and verify that it is full on the inlet pressure gauge.

### STEP 6)

Connect hose(s) and respirator(s) to the respirator connections and readjust pressure regulator if necessary.

### HIGH PRESSURE AUXILIARY INLET - PAK-3HI ONLY!

Remove pressure cap from auxiliary inlet. Connect a high pressure connect whip, 5000 PSI max. to the auxiliary inlet, CGA-347 male. This step can be done anytime during operation of system.

**NOTE:** A check valve is installed below the auxiliary inlet port to prevent back flow. If air flows out of auxiliary inlet when pressure cap is removed consult factory.

## Cylinder Change

When the cylinder in use has been depleted to approximately 500 PSI , the low pressure warning alarm will sound indicating the cylinder needs to be replaced. To change a cylinder while the PORTA-PAK™ is in use:

**STEP 1)**

Open the second cylinder and check the incoming pressure gauge to verify cylinder is full.

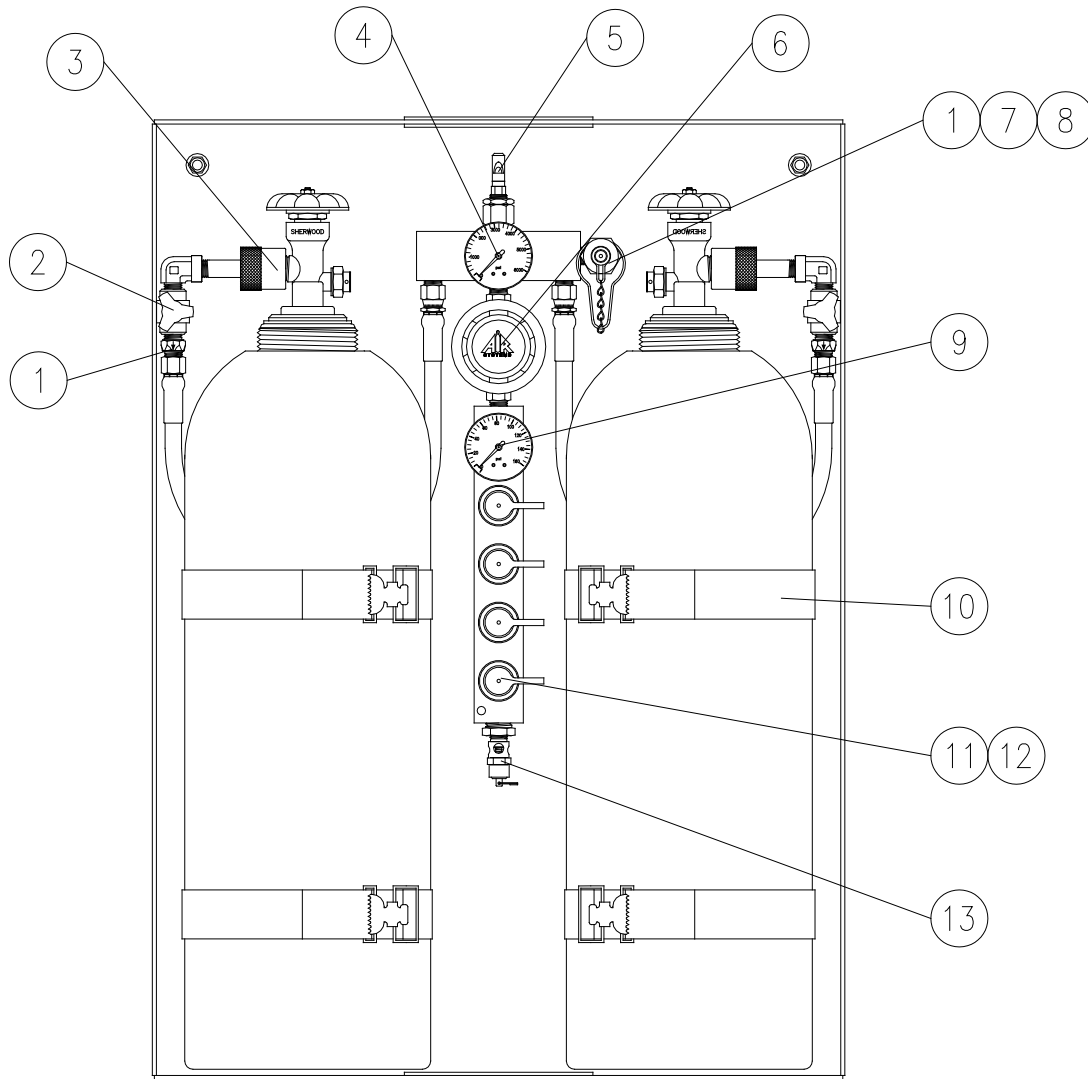
**STEP 2)**

Close the spent cylinder and open the bleeder valve to relieve pressure on the hand-tight nut.

**STEP 3)**

Remove the drained cylinder and replace it with a full cylinder. Connect the CGA-347 hand-tight nut to the cylinder valve and close the bleeder valve.

## System Components



ITEM #	DESCRIPTION	PART #
1	CHECK VALVE	VC4SMMSS
2	BLEEDER VALVE	VAL030
3	CGA-347 HAND-TIGHT NUT/STEM	SS347HT
4	INLET PRESSURE GAUGE	GA2075KB
5	LOW PRESSURE WHISTLE	AC-PA25
6	PRESSURE REGULATOR	REG-5000NG
7	CGA-347 MALE ADAPTER (PAK-3HI ONLY)	SS4F347AM
8	PRESSURE CAP (PAK-3HI ONLY)	SS347CAP
9	OUTLET PRESSURE GAUGE	GA20160B
10	CYLINDER STRAP	HDWR113A
11	HANSEN COUPLING	QDH3SL4M
11A	SCHRADER COUPLING	QDSSL4M
12	HANSEN DUST CAP	QDH3DCAP
12A	SCHRADER DUST CAP	QDSCAP
13	125 PSI RELIEF VALVE	VR4125BR
14	RUBBER FOOT (4 REQ'D)	HDWR025

## Warranty

Air Systems' manufactured equipment is warranted to the original user against defects in workmanship or materials under normal use for one year from the date of purchase. Any part which is determined by Air Systems to be defective in material or workmanship will be, as the exclusive remedy, repaired or replaced at Air Systems' option. This warranty does not apply to electrical systems or electronic components. Electrical parts are warranted, to the original user, for 90 days from the date of sale. During the warranty period, electrical components will be repaired or replaced at Air Systems' option.

**NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER MATTER IS GIVEN BY AIR SYSTEMS IN CONNECTION HERewith. UNDER NO CIRCUMSTANCES SHALL THE SELLER BE LIABLE FOR LOSS OF PROFITS, ANY OTHER DIRECT OR INDIRECT COSTS, EXPENSES, LOSSES, OR DAMAGES ARISING OUT OF DEFECTS IN, OR FAILURE OF THE PRODUCT OR ANY PART THEREOF.**

The purchaser shall be solely responsible for compliance with all applicable Federal, State and Local OSHA and/or MSHA requirements. Although Air Systems International believes that its products, if operated and maintained as shipped from the factory and in accordance with our "operations manual", conform to OSHA and/or MSHA requirements, there are no implied or expressed warranties of such compliance extending beyond the limited warranty described herein. Product designs and specifications are subject to change without notice. Rev. 2, 12/98

Air leaks are not covered under warranty except when they result from a defective system component, i.e. an on/off valve or regulator or upon initial delivery due to poor workmanship. Air leaks due to poor delivery or damage will be covered under delivery claims. Minor air leaks are part of routine service and maintenance and are the responsibility of the customer just as are filters and oil changes.



