

### SA-2473 series

### AIR FILTER, REGULATOR & CLEAN DRYER (SEMI-AUTO DRAINER)

#### Description

The Air Cleaner / Dryer is designed to remove dirt, most contaminants, oil vapors and water from compressed air. It is a two part system consisting of a coalescing filter which removes most contaminants, oil vapors and condensed water and a desiccant dryer which removes water vapor.

#### Unpacking

After unpacking the air cleaner / dryer, carefully inspect for any damage that may have occurred during transit. Check for loose, missing or damaged parts.

#### Safety Guidelines

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols.

##### **Danger:**

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

##### **Warning:**

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

##### **Caution:**

Caution indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

#### NOTICE

Notice indicates important information, that if not followed, may cause damage to equipment.

#### **General Safety Information**

##### **Danger:**

You can create dust when you cut, and, drill or grind materials such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

##### **Warning:**

***This product or its power cord contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.***

***This product is a part of a high pressure system and the following safety precautions must be followed at all times along with any other existing safety rules.***

1. Read this instruction manual before installing this device on a compressed air system. Be thoroughly familiar with the controls and the proper use of the equipment.
2. Safety glasses must be worn during operation. Always work in a well ventilated area.
3. Do not exceed any pressure rating of any component in the system.
4. Protect air lines from damage and puncture.
5. Check air hoses for weak or worn condition before each use. Make sure all connections are secure.
6. Keep all nuts, bolts and screws tight and ensure equipment is in safe working

##### **Danger:**

**This product is specifically designed for compressed air service ONLY. Use with any other fluid (liquid or gas) is a misapplication and not permitted. For example, use with or injection of certain hazardous liquids or gases in the system (such as alcohol or liquid petroleum gas) could be harmful to the unit or result in a combustible condition or hazardous external leakage.**



### **Specifications:**

Maximum pressure: 150 PSIG (10 bar).

Maximum temperature: 125°F (52°C).

### **Installation:**

#### **⚠ Warning:**

**Disconnect power and release all pressure from the system before attempting to install, service, relocate or perform any maintenance.**

1. The air cleaner/dryer should be located as close as possible to the air tool or spray gun.
2. A shutoff valve should be installed before the air cleaner/dryer so the unit can be easily depressurized for servicing. Securely mount the air cleaner/dryer in a vertical position using the mounting bracket supplied with the unit.
3. Install a filter before and after the coalescing filter/dryer for optimum performance. Connect the piping or hose with airflow in the direction of the arrows cast into the top of the unit. Avoid using unnecessary fittings, couplings, etc., that restrict air flow.
4. Remove the bowl from the dryer housing by loosening the lock ring. Pull bowl down to remove from housing.
5. Open bag of desiccant and pour into bowl. Shake or tap bowl periodically to settle desiccant. Fill to within 1/2" from top of bowl. Do not allow desiccant to get into center tube.
6. Reinstall bowl on housing. Be sure the lock ring is tightened before pressurizing the unit.
7. The coalescing filter is supplied with the filter element preinstalled.
8. Be sure to use a clean air hose to prevent contamination of the cleaned air.
9. Pressurize system and check for any air leaks.

### **Maintenance**

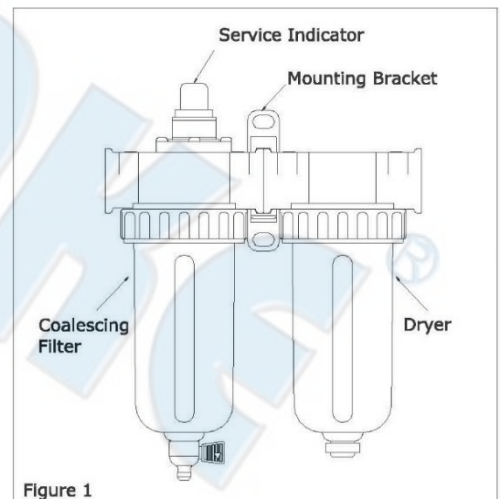
#### **⚠ Warning:**

***Always depressurize the unit before removing any bowl or personal injury and/or property damage could occur.***

1. Drain moisture from coalescing filter before every use. To drain, turn drain valve so that the arrow points downward. Make sure system pressure is 10psig or less.
2. The only other servicing required for the air cleaner/dryer is replacement of the desiccant when the desiccant turns pink, and replacement of the filter element when the service indicator pops up.
3. Desiccant Replacement
  - a. Shut off air flow to the air cleaner/dryer and depressurize system.
  - b. Remove bowl from the dryer housing by loosening the lock ring. Pull bowl down to remove from housing.
  - c. Pour out used desiccant.
  - d. Pour new desiccant into bowl, filling to within 1/2" of the top of the bowl. Do not allow desiccant to get into center tube.
  - e. Reinstall bowl on housing. Be sure it is securely locked in place before pressurizing the unit.
4. Coalescing Filter Replacement – The service indicator on the coalescing filter (shown in Figure 1) signals when the filter element needs to be replaced. When the indicator pops up, the filter element must be replaced. Use replacement filter element part 7.
  - a. Shut off air flow to the air cleaner/dryer and depressurize system.
  - b. Remove bowl from the dryer housing by loosening the lock ring. Pull bowl down to remove from housing.
  - c. Remove used filter element by grasping the bottom of filter element and turning counterclockwise.
  - d. Install new filter element making sure o-ring is properly seated in groove. Always handle the element Do not touch the foam plastic cover. Pressure on the outer foam cover can damage it once it is in service.
  - e. Filter elements cannot be cleaned. A new filter element must be used. is securely locked in place before pressurizing the unit.

### **Operation**

Before turning on the air pressure supply, make certain the bowls are securely locked in place and all fittings are tight.



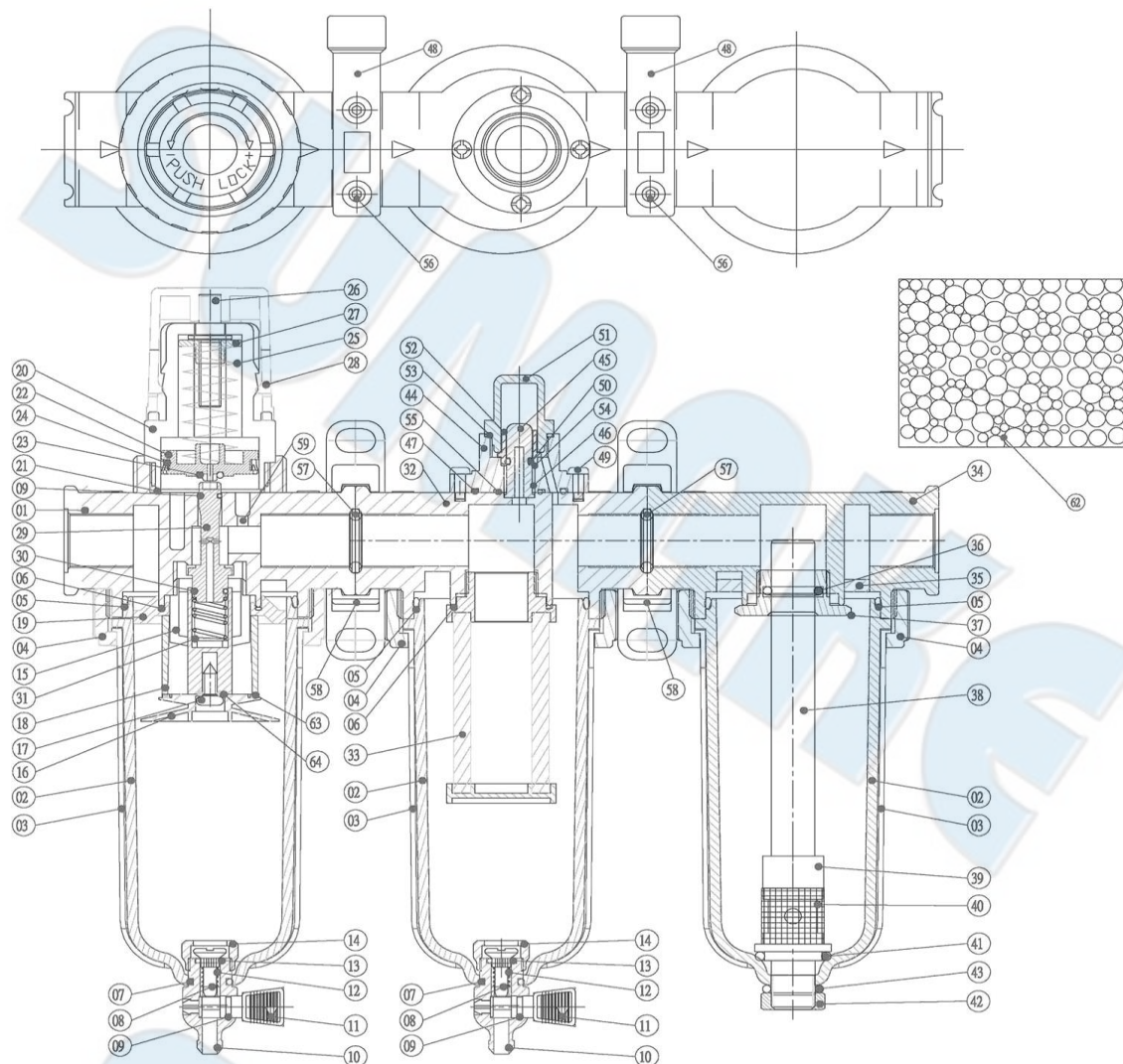
### **Limited Warranty**

1. DURATION: From the date of purchase by the original purchaser as follows: One Year.
2. WHAT IS COVERED UNDER THIS WARRANTY: Substantial defects in material and workmanship which occur within the duration of the warranty period.
2. WHAT IS NOT COVERED UNDER THIS WARRANTY:
  - A. Implied warranties, including those of merchantability and FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED FROM THE DATE OF ORIGINAL PURCHASE AS STATED IN THE DURATION. If this product is used for commercial, industrial or rental purposes, the warranty will apply for ninety (90) days from the date of purchase. Some States do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.
  - B. ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF THE SUMAKE PRODUCT. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
  - C. Any failure that results from an accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied with product. Accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions shall also include the removal or alteration of any safety devices. If such safety devices are removed or altered, this warranty is void.
  - D. Normal adjustments which are explained in the owner's manual(s) provided with the product.
  - E. Items or service that are normally required to maintain the product, i.e. o-rings, springs, bumpers, debris shields, driver blades, fuses, batteries, gaskets, packings or seals, fluid nozzles, needles, sandblast nozzles, lubricants, material hoses, filter elements, motor vanes, abrasives, blades, cut-off wheels, chisels, chisel retainers, cutters, collets, chucks, rivet jaws, screw driver bits, sanding pads, back-up pads, impact mechanism, or any other expendable part not specifically listed. These items will only be covered for ninety (90) days from date of original purchase. Underlined items are warranted for defects in material and workmanship only.
3. RESPONSIBILITIES OF WARRANTOR UNDER THIS WARRANTY: Repair or replace, at Warrantor's option, products or components which are defective, have malfunctioned and/or failed to conform within duration of the warranty period.
4. RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:
  - A. Provide dated proof of purchase and maintenance records.
  - B. Deliver or ship the SUMAKE product. Freight costs, if any, must be borne by the purchaser.
  - C. Use reasonable care in the operation and maintenance of the products as described in the owner's manual(s).



# SA-2473S

## 3/8" AIR FILTER, REGULATOR & CLEAN DRYER (SEMI-AUTO DRAINER)



### PARTS LIST

No.	Parts No.	Description	Q'ty
1	SA2473S-01	Body	1
2	SA2473S-02	Bowl	3
3	SA2473S-03	Shatter Guard	3
4	SA2473S-04	Fixed Ring	3
5	SA2473S-05	O Ring	3
6	SA2473S-06	O Ring	2
7	SA2473S-07	O Ring	2
8	SA2473S-08	Piston	2
9	SA2473S-09	O Ring	3
10	SA2473S-10	Body	2
11	SA2473S-11	Valve	2
12	SA2473S-12	Spring	2
13	SA2473S-13	O Ring	2
14	SA2473S-14	Nut	2
15	SA2473S-15	Bowl Baffle	1
16	SA2473S-16	Bowl Baffle Fixed	1
17	SA2473S-17	Screw	1
18	SA2473S-18	5U Filter Element	1
19	SA2473S-19	Interceptor	1
20	SA2473S-20	Dome	1
21	SA2473S-21	O Ring	1
22	SA2473S-22	Piston	1
23	SA2473S-23	O Ring	1
24	SA2473S-24	V Ring	1
25	SA2473S-25	Spring	1
26	SA2473S-26	Adjusting Screw	1
27	SA2473S-27	Nut	1
28	SA2473S-28	Knob	1
29	SA2473S-29	Valve	1
30	SA2473S-30	O Ring	1
31	SA2473S-31	Spring	1
32	SA2473S-32	Body	1

No.	Parts No.	Description	Q'ty
33	SA2473S-33	Filter Element	1
34	SA2473S-34	Body	1
35	SA2473S-35	Filter Foam	1
36	SA2473S-36	O Ring	1
37	SA2473S-37	Fixed	1
38	SA2473S-38	Snorkel	1
39	SA2473S-39	Exhaust Head	1
40	SA2473S-40	Filter	1
41	SA2473S-41	O Ring	1
42	SA2473S-42	Nut	1
43	SA2473S-43	O Ring	1
44	SA2473S-44	Oil Mist Display Seat	1
45	SA2473S-45	Oil Mist Display Stick	1
46	SA2473S-46	Spring	1
47	SA2473S-47	O Ring	1
48	SA2473S-48	Joiner	2
49	SA2473S-49	Screw (E20)	4
50	SA2473S-50	O Ring	1
51	SA2473S-51	Outside Cup	1
52	SA2473S-52	Inside Cup	1
53	SA2473S-53	O Ring	1
54	SA2473S-54	O Ring	1
55	SA2473S-55	O Ring	1
56	SA2473S-56	Hexagon Socket Screws	4
57	SA2473S-57	O Ring	2
58	SA2473S-58	Nut	4
59	SA2473S-59	Pen Tube	1
60	SA2473S-60	Gauge	1
61	SA2473S-61	1/8" PT Plug	1
62	SA2473S-62	Desiccant Beads	2
63	SA2473S-63	Gasket	1
64	SA2473S-64	O Ring	1