

SA-CU219F, SA-CU21AF

FILTER (AUTO DRAINER)

SA-CU219F-H, SA-CU21AF-H

FILTER (MANUAL DRAINER)

SA-CU229F, SA-CU22AF

AIR CLEAN/DRYER (AUTO DRAINER)

SA-CU229F-H, SA-CU22AF-H

AIR CLEAN/DRYER (MANUAL DRAINER)

Description:

The Filter/Coalescing filter Activated-charcoal Filter is a two part system.

The first stage Filter is design to remove most liquid and solid particles from the air supply.

The second stage Coalescing filter is used to removes 99.9% of oil vapor particles.

Specifications:

Max. Temperature.....60°C / 140°F

Auto drain:

Working Pressure.....30~175psi (2.1~12 Bar)

Max Pressure.....175psi (12 Bar)

Manual drain:

Max Pressure.....225psi (16 Bar)

Air Inlet/outlet.....1-1/2", 2"

Unpacking:

After unpacking the unit, inspect carefully for any damage that may have occurred during transit. Make sure to tighten fittings, bolts, etc., before putting unit into service.

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.

General Safety Information:

- 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.
- Read this instruction manual before Installing this device to the air supply System.
- Be thoroughly familiar with the controls and the proper use of the equipment.



1. Safety glasses must be worn during operation. Always work in a well ventilated area.
2. Do not exceed any pressure rating of any component in the system.
3. Protect air lines from damage and/or punctures.
4. Check air hoses for weak or worn condition before each use. Make sure all connections are secure.
5. Keep all nuts, bolts and screws tight and ensure equipment is in safe working condition.

 **Warning:**

- This product is specifically designed for compressed air service ONLY.
- Use with any other material (liquid or gas) is a misapplication and not permitted.
- Use or injection of certain hazardous liquids or gases in the system (such as oxygen, alcohol or liquid petroleum gas) will harm the unit and result in a combustible condition or hazardous external leakage.
- Misapplication will void all warranties and manufacturer's responsibilities.

 **Warning:**

- The relief flow capacity of regulators is limited.
- Install additional pressure relief devices to alleviate over pressurized conditions. Written approval must be obtained from manufacturer if this device is to be used for life support systems or other non-industrial applications.

Installation:

1. The assembly of all calibration shall meet the maximum flow requirement.
2. Direction air flow in the triangle "▷" on the primary unit.
3. Site as close to the unit to be protected as possible.
4. Place free of direct sun shine, hot area, and hazardous chemicals.
5. The water drainage shall be deployed beneath the water discharge for outlet of water into proper area.

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.
3. 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 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, packing 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.
4. 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.
5. RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:
 - A. Provide dated proof of purchase and maintenance records.

- B. Deliver or ship the 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).

Function / Maintenance

1. Filter: (SA-CU219F-H, SA-CU21AF-H, SA-CU219F, SA-CU21AF)

- (1) Before pressurizing system, make certain the bowl is securely locked in place by hand tightening the bowl ring until it is snug.
- (2) The first filter stage separates particles $> 5\mu\text{m}$ as well as condensed water and oil. The PE filter (part 8) is integrated in the filter, fineness $5\mu\text{m}$.
- (3) PE filter (part 8) and filter housings have to be cleaned after 6 months at the latest; replace PE filter, if necessary

2. Micro – Filter: Clean/Dryer Type (SA-CU229F-H, SA-CU22AF-H, SA-CU229F, SA-CU22AF)

- (1) The fine filter cartridge (part 10) of the second filter stage separates smallest particles.
- (2) The filter (part 10) fineness $0.01\mu\text{m}$, separation degree 99.998% related to a particle size $> 0.01\mu\text{m}$.
- (3) 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.
- (4) Must install after filter.

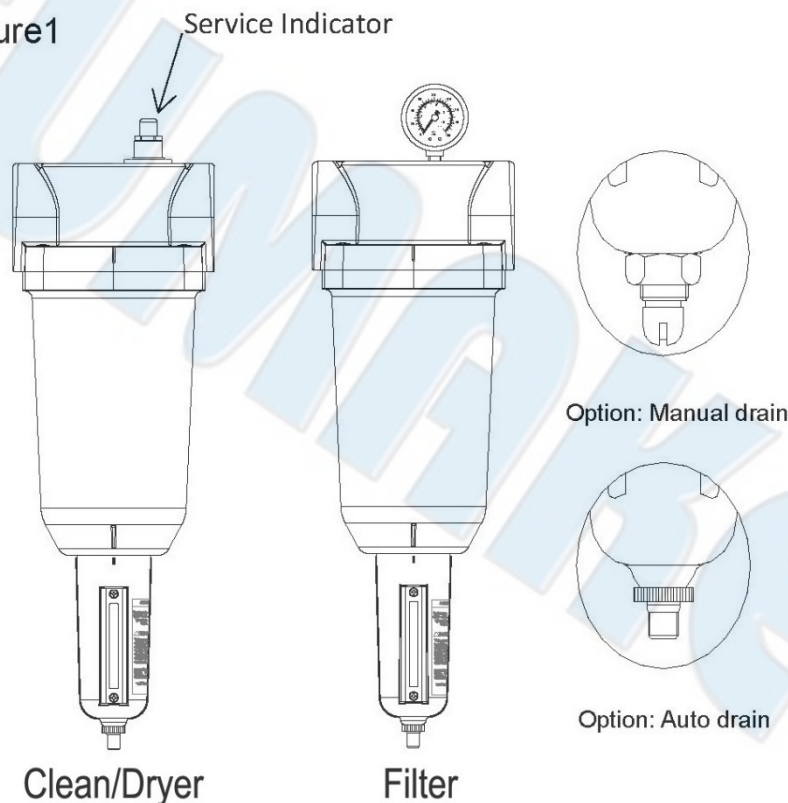
3. Drainage:

- (1) Manual drain (part 31): (SA-CU219F-H, SA-CU21AF-H, SA-CU229F-H, SA-CU22AF-H)
- (2) When water exceeds the level, please drain off the water, press up the bottom of brass drain body, then it will start to drain.
- (3) when the water level exceeds the maximum limit, please drain off the water to keep optimal dehumidification.
- (4) Auto drain (part 21) : (SA-CU219F, SA-CU21AF, SA-CU229F, SA-CU22AF)
- (5) The auto drain only works properly when the filter is vertically mounted. If a certain condensate filling level is reached inside the filter housing the condensate drain valve opens automatically draining the condensate through the condensate drain hose

Warning:

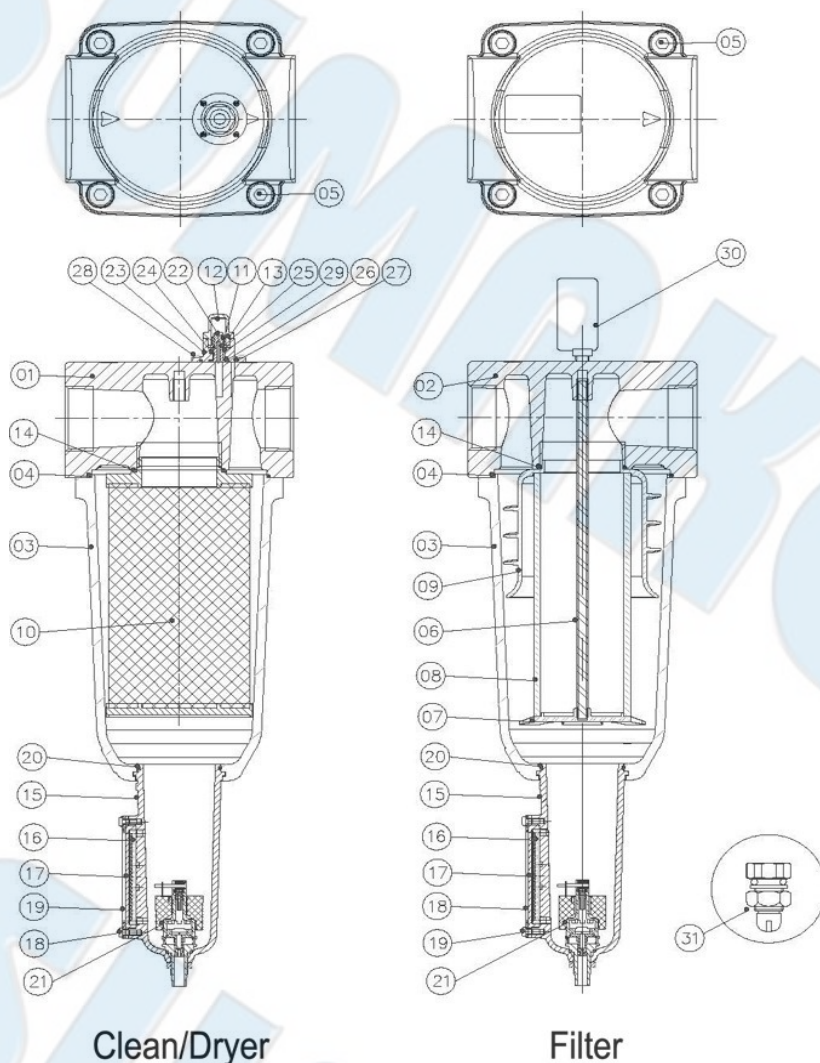
- When the compressed air is heavily contaminated, the filter cartridges have to be exchanged in shorter intervals!
- Saturated filter cartridges may cause quality problems during paint jobs. Furthermore, using a supplied –air respirator could then be harmful, causing permanent

Figure1



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PARTS LIST

No.	Description	Q'ty
1	Body	1
2	Body	1
3	Bowl	1
4	O-Ring	1
5	Screw	1
6	Screw	1
7	Filter Holder	1
8	Filter Element	1
9	O-Ring	1
10	Interceptor	1
11	Inside Cup	1
12	Dutside Cup	1
13	O-Ring	1
14	O-Ring	1
15	Bowl	1
16	Seal Strip	1

No.	Description	Q'ty
17	Indication	1
18	Screw	1
19	Slat	1
20	O-Ring	1
21	Auto Drain	1
22	Indicator	1
23	Display Stand	1
24	Spring	1
25	O-Ring	1
26	O-Ring	1
27	O-Ring	1
28	Screw	1
29	O-Ring	1
30	Gauge	1
31	Valve Drain	1
		1