

Operation instruction

SR 99-1

Compressed air filter



General information

Instructions for use for SR 99-1 should be read before use.

Breathable air must meet at least the following purity requirements:

- the impurities must be maintained at a minimum and must never exceed the hygienic limit value.
- the content of mineral oil must be so low that no smell of oil will be detectable (the odor limit is around 0.3 mg/m³).
- the dew point of the air must be so low that no water will be precipitated out and no freezing will occur inside the equipment.

For further particulars of breathable air, see EN 132:1998, EN 12021:2014 and possibly other national regulations.

1. Use

When the filter is used to its maximum capacity, i.e 3 connected users the available compressor capacity must be at least 900 l/min. The consumption of any tools connected to this system must be added to the above values.

The compressor air intake must be located so that there will be no risk of polluted air being drawn into the system.

The supply pipe to the compressed air filter must have an inside diameter of at least 11 mm to ensure that it can deliver the maximum air flow rate.



1.1 The filter has two outlets one of which is plugged prior to delivery.

Fit the safety coupling supplied.



1.2 The inlet thread of the filter is 1 /2" BSP female.

Fit a suitable coupling/nipple

Use



1.3 The filter is automatically drained to the given level. The drain can also be opened manually by turning the pre-collector at the bottom of the drain bowl.



1.4 The filter element is fitted prior to delivery. Note the date on the label at the outside of the filter housing to be enable you to keep track of the date when the filter should be changed.



1.5 The SR 99-1 is equipped with keyhole mountings for mounting it on a wall, but it can also be stood on a suitable surface.

2. Filter change

Under normal operating conditions, the filter element has a useful life of around six months. However, the useful life may vary widely, depending on the condition of the compressed air system and the air flow rate through the filter.

The condition of the filter element can be assessed by weighing. The original weight is shown on the filter element. If the weight has increased by about 100-150 grams, the filter should be changed.

If the smell or taste of the impurities become detectable the filter should immediately be changed.



2.1 Shut off the air inlet.

Turn the pre-collector at the bottom of the drain bowl to depressurise the filter.



2.2 Loosen the hose between the regulator and filter lid by pushing the red sleeve on the coupling and disconnect the hose from the lid.

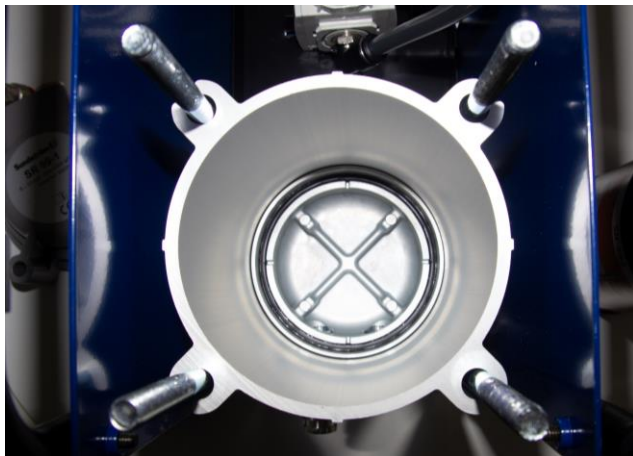


2.3 Unscrew the knobs of the filter housing and remove the lid.

Filter change



2.4 Remove the used filter element.
Clean and wipe if necessary.



2.5 Check the seals and change if they are damaged.



2.6 Mount the new filter element. This has identical ends and can be fitted either way round.

Filter change



2.7 Refit the cover.



2.9 Check that the pads on the cover and end caps fit into their grooves.



2.8 Connect the hose between the control valve and filter lid by pushing the hose into the connector.



2.10 Tighten the knobs alternately by hand until the lid meets the filter housing.

3. Change the pre-collector element



3.1 Shut off the air inlet.
Turn the pre-collector at the bottom of the drain bowl to depressurise the filter.



3.2 Remove the drain bowl.
Press it downward and twist anti-clockwise (bayonet mounting). Wash the bowl in hot water (not solvent) at a maximum of 60 °C.



3.3 Remove the pre-collector element by turning it anti-clockwise.



3.4 Blow the parts clean with compressed air. Check that the drain outlet is not obstructed.
Refit the filter element and the drain bowl.

4. Cleaning

Clean the outside of the filter as necessary, using soapy water and a sponge or brush. The filter can also be blown clean with the compressed air or flushed with water. A good time to clean the filter regulator and the drain bowl is when the filter insert is replaced.



4.1 Shut of the air inlet.
Turn the pre-collector at the bottom of the drain bowl to depressurise the filter.



4.2 Remove the drain bowl.
Press it downward and twist anti-clockwise (bayonet mounting). Wash the bowl in hot water (not solvent) at a maximum of 60 °C.



4.3 Blow the parts clean with compressed air. Check that the drain outlet is not obstructed.
Refit the filter element and the drain bowl.

Product leaflet

Product
Compressed air filter

Model No.
SR 99-1

Ordering No.
H03-2810

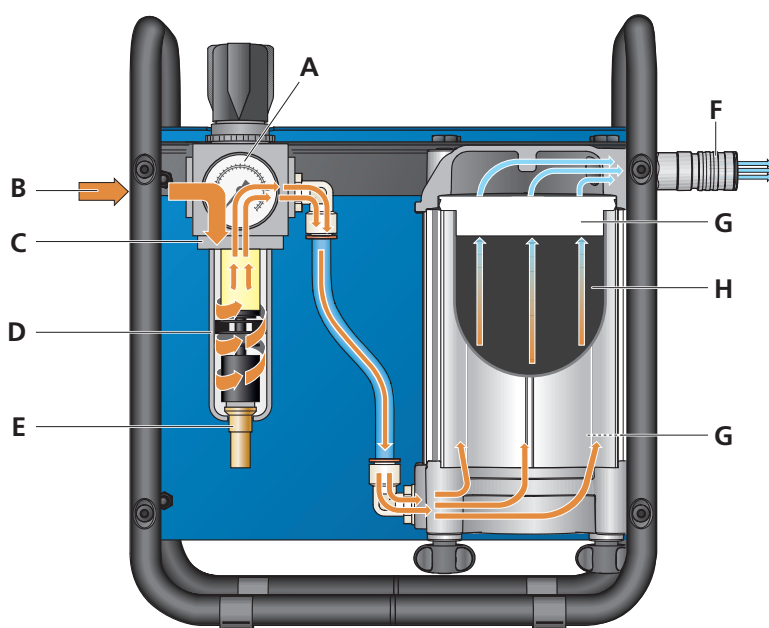
Product Description

The SR 99-1 compressed air filter is used for producing clean breathing air from ordinary compressed air. The unit consists of a regulator (C), pre-collector (D) and main filter (SR 292), all of which are mounted in an enclosing steel sheet stand. The unit can be placed on the floor or mounted on a wall. The pre-separator has automatic drainage, separates coarser particles, water and oil. The SR 292 main filter consists of a carbon filter part (500g) , surrounded by two P3 particulate filters. The air is cleaned to remove any remaining particles/gases/vapours/odours. A Y coupling that increases the number of outlets is available as accessory.

Technical specification

SR 99-1	
Inlet connection	1/2" BSP
Inlet pressure	6–10 bar
Outlet connections	One safety coupling and one plugged opening
Air flow	Maximum 900 l/min - three users
Filter area P3	≈ 2200 cm ²
Activated carbon	≈ 500 grams
Adsorption capacity	≈ 100–150 grams oil.

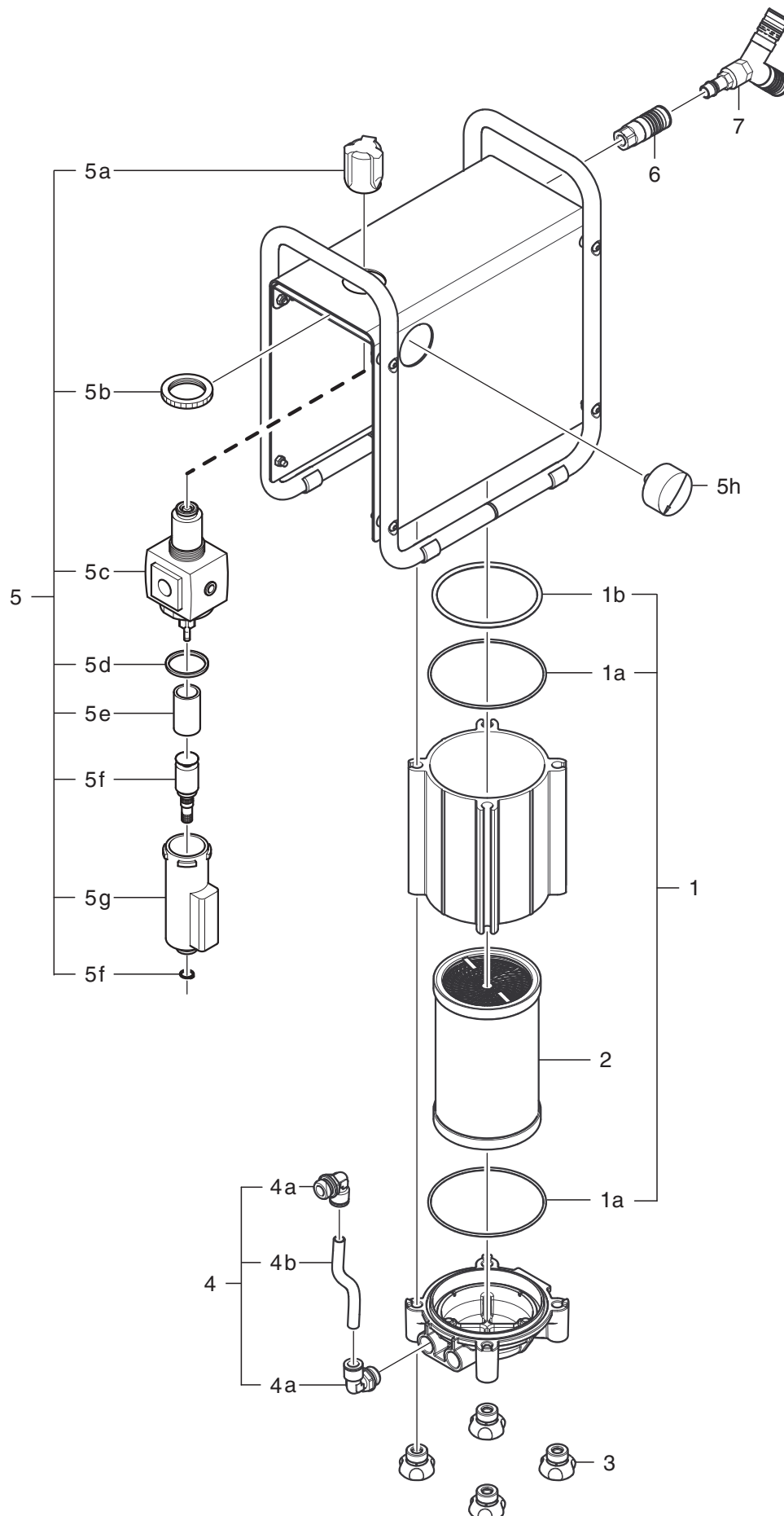
- A. Pressure gauge
- B. Inlet
- C. Regulating valve
- D. Pre-collector
- E. Drain
- F. Outlet
- G. Particle filter
- H. Activated carbon



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Spare parts / Accessories



No.	Description	Ordering No.
1.	Set of seals for filter housing	R03-2604
1a.	O-ring	-
1b.	O-ring	-
2.	SR 292 Filter element	R03-2001
3.	Knob	R03-2607
4.	Hose with couplings	R03-2605
4a.	Hose	-
4b.	Coupling	-
5.	Filter regulator, automatic drain	R03-2801
5a.	Knob	R03-2803
5b.	Mounting nut, filter regulator	R03-2809
5c.	Filter regulator	-
5d.	Seal, drain bowl	R03-2806
5e.	Pre-collector element	R03-2805
5f.	Pre-collector	R03-2804
5g.	Drain bowl	R03-2808
5h.	Pressure gauge	R03-2108
6.	Safety coupling female 1/2"	R03-2103
7.	Y coupling	R03-2127