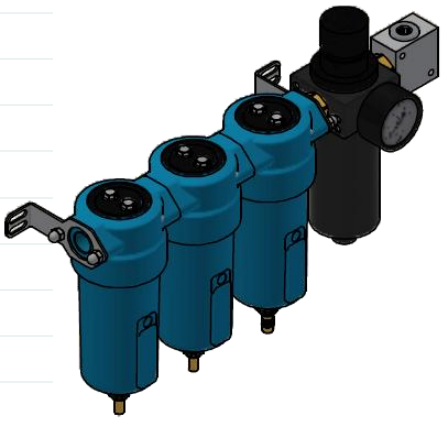
T-AirLine Filter Unit

Wall mounted or floor frame | 1 – 3 persons

Due to the increasing demand for improved environmental and safety control, RSG has compiled a comprehensive range of wall and floor mounted Breathable Air products to suit 2 to 4 user breathing air installations.
The filtration units supply breathable air in accordance with EN12021 and are type approved with RSG breathing air hoses, T-AirLine Regulator and all T-AirLine headtops to EN14594:2005 for a wide variety of applications and tasks.
Both ends of the hoses are fitted with a CEJN 342 series double action safety coupling and nipple for ease of use and safe (dis)connection.

Part number	600173-00
Description	T-AirLine Filter Unit
EN Standard	EN14594:2018
EN Standard (Breathing Air)	EN12021:2014
Number of connections	3
Maximum flow rate	46 scfm (See UI)
Maximum inlet pressure	16 bar
Maxium outlet pressure	10 bar
Material	Brass, Steel-zinc plated, Stainless steel
Corrosion protection	Corrosion protection
Outside protection	Powder paint coated (Epoxy-polyester base)
Filter elements	600175 particle filter; microfilter 0,1µm 600176 particle filter; fine filter 0,01µm 600177 active carbon filter
Particle filter replacement	12 months
Carbon filter replacement	6 months
Fittings	CEJN 342 1/2 ” outer thread
Weight (g)	12 kg
Quantity per box	1
Packaging dimensions	530x153x290X80mm (LxHXWXD)
Optional	600167 floor frame



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Technical notes

1. Breathing air must be installed and maintained in accordance with local regulations and standards.
2. All RSG models are supplied together with a Prefilter (1 micron), Particle filter (0.01 mciron) and Activated Carbon (AC) filters.
3. The units supplied meet and exceed the requirements as specified in the EN 12021 but will not completely remove certain types of gases including Carbon Monoxide (CO) and Carbon Dioxide (CO2). Separate filters (HC) are available.
4. RSG Safety BV recommends that a water separator and a 1 micron particulate removal filter are installed prior to breathable compressed air filter products.
5. Duplex filters offer 2 stage filtration within one filter unit. Each filtration package provides a particle element in the lower section for oil removal, while the Activated Carbon (AC) filter element in the upper section is for odour removal.
6. Activated carbon filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO2).
7. Direction of air flow is inside to out through XA grade and outside to in through AC grade filter element.
8. Breathable air filters include float operated drains as standard.
9. Self-relieving air pressure regulators are used with 0 to 16 barg pressure gauges and can control the outlet air pressure between 2 and 10 barg.
10. Maximum Particle removal 0.01 micron
11. Maximum oil carryover at 20°C is 0.003 mg/m^3 or 0.003 ppm
12. Maximum temperature 50°C. (Recommended operating temperature 25°C)
13. Maximum working pressure 10 barg.
14. Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated carbon filter elements should be changed every 6 months / 1000 hours (whichever comes first).

EN12021:2014 Requirements for Breathing Air

Odour	The gas shall be free from unsatisfactory odor or taste.
Oxygen	(21+1)%
Carbon Dioxide	≤500 PPM
Carbon Monoxide	≤ 5 PPM
Oil	≤ 0.5 mg/m3
Water Airline <40Bar	Apparatus used and stored at known temperature - pressure dew point = 5°C below likely lowest temperature. In case not the pressure dew point shall not exceed -11°C.
Water High Pressure	40 to 200 bar ≤50 mg/m3 >200 bar ≤35 mg/m3 HP Charging Comp ≤25 mg/m3

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