



training



Sundström 
SR507
Supplied air regulator





Companion module:

Sundström SR507 supplied air regulator — **HOW TO...**

Related material:

Sundström air hoods

Sundström SR99 supplied air filter

About your SR507 supplied-air regulator:

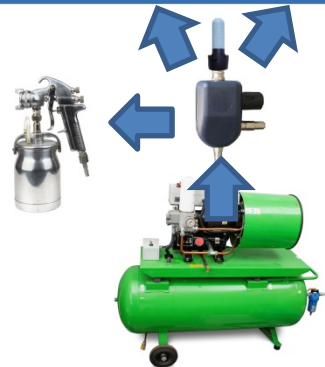
What is it?

A supplied-air regulator is the intermediate connection between a continuous-flow air supply and a face-piece or headpiece, such as a respirator or hood.



How does it work?

Clean air from a remote source (such as a compressor or pump) is fed into the regulator, which is worn on the user's waist. After moving through the regulator, the air then continues into a face piece or head piece, such as a mask, hood or helmet, allowing the user to breathe the continuous flow of clean air. The regulator is fitted with a control valve that allows the user to adjust the air flow to the mask or hood. In addition, the regulator is fitted with an extra outlet for a spray gun or other air-driven tool. A warning whistle is also fitted to the regulator, letting the user know if the air supply drops below a safe level.



Breathing air hose

The supply hose must be certified for breathing air. The most important qualities are:

- Odourless
- Kink and tangle proof
- Passing pull tests and pressure tests
- Fitted with connectors that cannot be connected to non-breathing air



IMPORTANT: about the quality of supplied air for breathing:

- The intake air at the source (compressor etc.) must be free of contaminants, or at least kept to a minimum and never exceed hygienic limit levels
- Any mineral oil content must be kept below the smell threshold level (about 0.3 mg/m³)
- The air must not be so cold as to cause internal freezing of the equipment

If there are any doubts about any of the points above, a supplied-air filter should be used, such as the Sundström SR99 airline filter



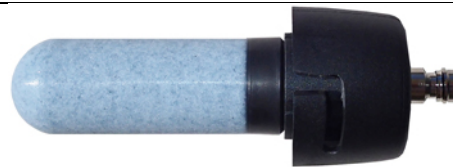
How can the SR307 be used?

The hose adapter on the SR507 supplied-air regulator means that supplied air can be connected to all Sundström headpieces that have a breathing hose that normally fits the SR500 or SR700 PAPRs. This includes hard and soft hoods, protective hoods, helmet and visor with or without welding cassette, as well as the SR200 full face mask.



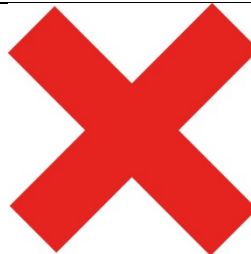
The hose adapter

The adapter nipple fits into the regulator like a regular supplied-air hose. Once fitted, any of Sundström's PAPR headpiece can be connected through the bayonet coupling.



When should the SR507 regulator NOT be used?

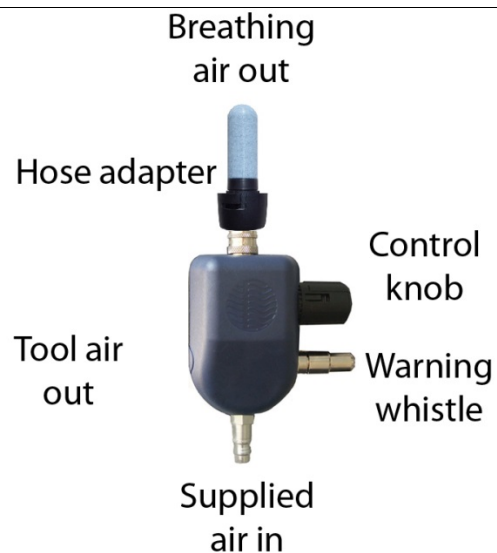
- If there is not enough oxygen for human breathing in the ambient atmosphere
- If the contaminant is unknown
- If the contaminant is Immediately Dangerous to Life and Health (IDLH)
- If the ambient atmosphere is oxygen-enriched or pure oxygen
- If breathing becomes difficult
- If you can smell or taste any contaminant
- If you feel dizzy or nauseous, or suffer any discomfort
- If the warning whistle on the regulator sounds



Main features

The SR507 regulator is made for the greatest possible simplicity and reliability.

- Only one control knob. Large and easy to turn, even when wearing thick gloves
- Control valve can be adjusted from 175 litres/minute to 260 litres/minute. The air flow cannot be shut off
- Secure spring connectors. Two-way unlocking to prevent accidental disconnection
- In-built extra air outlet for spray gun or other air-driven tool
- Warning whistle sounds if air supply drops below 175 litres/minute
- Wide, rugged waist belt. Easy to fit and adjust



Before using the regulator:

- Make sure the regulator and all connectors are clean and intact
- Make sure all hoses are securely connected to the regulator
- Make sure the quality of the breathing air is adequate
- Make sure all hoses are rated for breathing-quality air
- Make sure you are familiar with the equipment and know how to use it



Watch this on **YouTube**

(using your SmartPhone, tablet or computer)



<http://youtu.be/gSGIULmfDw>
