



The automatic welding filters operate on the basis of a liquid crystal optical light shutter that protects the welder's eyes against intense visible light emitted during arc welding.



Model number	SR 59007	SR 59005	SR 59006
Ordering number	T06-4009	T06-4007	T06-4008
Size and weight	90x110 mm/95 g	90x110 mm/75 g	90x110 mm/75 g
Viewing area	46.5x95 mm	46.5x95 mm	46.5x95 mm
Open state shade	EN 4	EN 3	EN 3
Closed state shade	EN 9-13	EN 10	EN 11
Shade adjustment	Yes/stepless	No	No
Sensitivity adjustment	Yes	No	No
Sensors	2 optical sensors	2 optical sensors	2 optical sensors
Energy supply	Solar cells	Solar cells	Solar cells
Switching time at +23 °C	0,00015 s	0,0005 s	0,0005 s
Clearing time	0.2 - 0.8 s (delay)	0.2 s	0.2 s
UV/IR protection	UV 15/IR 14	UV 15/IR 14	UV 15/IR 14
Service temperature	-10 - +55 °C	-10 - +55 °C	-10 - +55 °C
Storage temperature	-20 - +40 °C	-20 - +40 °C	-20 - +40 °C
TIG detection	Good	Good	Good
Optical class	1/1/1	1/1/1	1/1/1
Approvals	EN 169/EN 379	EN 169/EN 379	EN 169/EN 379



SR 59018 Protective hood.



SR 59020 Neck cover.

# Technical specification

## **Air flow rate**

Air flow rate during normal operation (MMDF) is at least 175 l/min.  
Air flow rate can be boosted to at least 225 l/min.

## **Air flow control**

Automatic air flow control system.

## **Automatic welding lenses**

Scale numbers: EN 3/10, EN 3/11 and EN 4/9 – 13.  
Size 90x110 mm. Viewing area: 46.5x95 mm.  
Powered by solar cells.

## **Batteries**

Lithium-jon 14.8V, 2.2 AH. Standard. Charging time is about 1.5 hrs.  
Lithium-jon 14.8V, 3.6 Ah. Optional. Charging time is about 2 hrs.

## **Correction lenses**

Size: 51x108 mm. 1.0, 1.5, 2.0 and 2.5 dioptres.

## **Material**

The plastic parts are marked with the material code.

## **Operating times**

Expected operating time with SR 515 ABE1/SR 510P3 R filter and 2.2 Ah standard battery at 175 l/min is 6 hours.  
Expected operating time with SR 515 ABE1/SR 510P3 R filter and optional 3.6 Ah HD battery at 225 l/min is 6 hours.

## **Protective lens, inner/outer**

Size: 90x110 mm. Scratch resistant and anti-misting treated polycarbonate (PC).

## **Protective lens, inner, for auto welding lenses**

Size: 51x108 mm. Scratch resistant and anti-misting treated polycarbonate (PC).

## **Shelf life**

The equipment has a shelf life of five years from the date of manufacture.

## **Temperature range**

- Storage temperature: from -20 to +40 °C at a relative humidity below 90 %.
- Service temperature: from -10 to +55 °C at a relative humidity below 90 %.

## **Warning systems**

In the event of air flow blockage, clogged particle filters or low battery capacity, this is indicated by light- and sound signals and vibrations.

## **Weight**

Shield with hose: Approx. 800 g.

## **Welding lenses**

Scale numbers: EN 8 to EN 13.  
Size: 90x110 mm

## **Approvals**

The SR 590 welding shield is approved in accordance with EN 175:1998.  
The SR 590 welding shield together with SR 500 powered respirator is approved in accordance with EN 12941:1998, class TH3.