

(EU) 2016/425 (PPE)
EN 166:2001,
EN 379:2003+A1:2009,
EN 175:1997,
EN 12941:2009-02



HELMETS
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ZEPHYR LS / FLIP'AIR LS



The ultimate welder protection.

Discover a complete solution designed to protect welders in the most effective way.

With the ZEPHYR LS / FLIP'AIR LS solution, you will find in a rugged carry bag:

- ◆ The ZEPHYR or FLIP'AIR helmet,
- ◆ The ZEPHYR air flow system,
- ◆ A protected hose connection,
- ◆ A shoulder strap,
- ◆ A battery charger,
- ◆ An air flow-meter,
- ◆ One extra filter.

Helmet with powered and filtered airflow



FLIP'AIR 4500 LS
W000403675

Flip-up LCD filter for grinding



Grinding mode with external button



ZEPHYR 4500 LS
W000403674



Autodarkening LCD filters with wide vision field.

Filter Advance 4500 LS - Infotrack shade 3/8-13:

The top-of-the-range solution for any application:

4 adjustment modes from an LCD screen with digital keys:

- ◆ Welding: variable shades 8-13, 4 optical sensors, sensitivity regulation and return to a clear shade.
- ◆ Grinding: filter activation in clear shade level 3 [except on FLIP'AIR with its flip-up front filter].
- ◆ Cutting, low current welding: adjustable shades 5 to 8 for low intensity TIG process, microplasma, oxy-fuel gas welding...
- ◆ "X mode": adjustable shade 3 to 8-13 with magnetic sensors for outside use or obscured arc welding

Infotrack system: provides useful information [current time - total welding time - alarm - temperature].



WARRANTY
2
YEARS

HELMETS

The ZEPHYR LS / FLIP'AIR LS air flow system

- ◆ Air flow system: **2 flow rates** (low 160 l/min and high 200 l/min).
- ◆ This equipment includes an indication of the **chosen flow**, an indication of the **battery charge**, and **two alarms** in case of flow insufficiency: **a tone and a vibration**. This is important for the welder who is often in a noisy environment. A specific system **sends the tone through the hose** to bring the sound to the welder.
- ◆ The belt, as well as the shoulder strap, is made in **flame retardant material**.
- ◆ The belt includes a cushion to ensure a high comfort level.
- ◆ **Disconnecting the battery is easy** with only one button to push. It is a **lithium battery with an 8-hour lifetime duration**. A stronger one can be put in place for special cases with **14-hour duration ±5%** (on request). No need to fully discharge the Li-Ion battery before recharging it.
- ◆ Opening the filter is simple by turning a quarter to the left. Two symbols indicate if it is locked or open, this is also indicated inside the filter box.

Hose connection and hose cap.
The connection between the flow system and the helmet is made via the hose. The connection with the air flow system is water proof. The helmet includes a quick connection allowing flexibility when the welder moves his head. The hose is protected with an outer covering (75% cotton, 25% Kevlar).



Flow circulation
You can choose between:
◆ air flow from the top of the helmet **1**
◆ or a lateral flow coming from each side at the mix level **2** (only for ZEPHYR),
◆ or a mix of these two solutions.
These features ensure excellent welder comfort.



- Inside, 3 kinds of filters can be included.
- ◆ One pre filter against the biggest particles
 - ◆ One particle filter against the dust (> 0.3 micron)
 - ◆ One carbon filter against the fumes and the odour.

The whole system is water proofed.



Comfort 	Arc sensors 	Optical class
Respiratory protection 	Grind mode / Shade control 	Lens switching speed
Variable shades 	Viewing area 	X-mode

	ZEPHYR 4500 LS	FLIP'AIR 4500 LS
Switching time dark to light	10 positions (setting per digital key)	
Delay setting	10 positions (setting per digital key)	
Mode	Welding: Yes shade 8 to 13 per digital key Grinding: Yes shade 4 (per external button) - For FLIP'AIR flip-up LCD for grinding Cutting: Yes shade 5 to 9 per digital key X mode*: Yes Infotrack system**: Yes	
Constant UV/IR protection	Yes	
Battery type	2 lithium CR2450 3 Volts	
Mix power (battery/cell)	Yes	
Temperature scale	Use : -5 °C to +55 °C - Storage : -30 °C to +70 °C	
Weight	938 g (helmet) + 1 760 g (air flow system)	
Standard	LCD filter: CE EN 379 - Helmet: CE EN 175	

* X-mode: this mode allows welding in outdoor conditions or with very low arc current
 ** Infotrack system: provides useful information (current time - total welding time - alarm - temperature)

To order		
Package (helmet + airflow system + LCD filter)	W000403674	W000403675
LCD filter	W000402681	W000402682

List of spare parts : see page 27