

ZEPHYR / FLIP'AIR

The ultimate welder protection

Discover a completely new solution designed to protect welders in the most effective way in efficiency and comfort.

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

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

Helmet with powered and filtered airflow



2011-521

**CE EN 175
for helmet
CE EN 379
for LCD cell**



2010-009

**Flip-up
LCD filter for
grinding**

2012-034

**New: grinding mode
with external button**

Two autodarkening LCD filters with wide vision field

Advance 3200

The new version **Advance 3200** presents 4 innovations:

- Auto-start function: it is not necessary to push the "on" button before starting to weld. Automatic starting.
- Reset button: in case of a malfunction of the electronic system, press the "reset" button twice to re-initialize the original parameters.
- Grinding mode: a fixed shade 4 is activated by an external button, to ensure optimum protection when grinding.
- All digital setting.



1

2011-488

**Warranty
2 years**

2

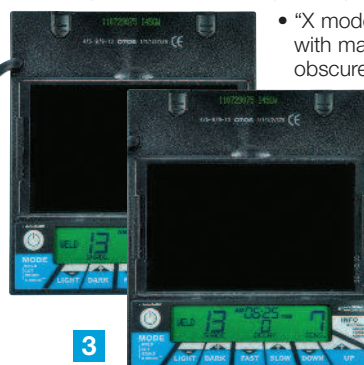
Advance 4500 / 4500 i

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

5 adjustment modes from an LCD screen with digital keys:

- Welding: variable shades 4/9-13, 4 optical sensors, regulation of the sensitivity and return to a clear shade.
- Grinding: activation of the filter in clear shade level 4. (except on FLIP'AIR with its flip-up front filter)
- Cutting, low current welding: adjustable shades 5 to 9 for TIG process low intensity, microplasma, oxy-fuel gas welding...
- "X mode": adjustable shade 4 to 9-13 with magnetic sensors for outside or obscured arc welding...

- Infotrack system: provides useful information (current time - total welding time - alarm - temperature)



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2011-487

**Warranty
2 years**

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PROFESSIONAL WELDING PRODUCTS BY

**AIR LIQUIDE
WELDING**

| | 1 ZEPHYR Advance 3200 | 2 ZEPHYR Advance 4500 | 3 FLIP'AIR 4500 i |
|------------------------------|--|---|----------------------|
| Optical class | 1 / 1 / 1 / 2 | | |
| Switching time light to dark | 0.05 ms | | |
| Switching time dark to light | 10 positions from 0.1 s to 1 s setting per digital key | | |
| Delay setting | 10 positions setting per digital key | | |
| Mode | | | |
| Welding | Yes shade 9 to 13 per digital key | Yes shade 9 to 13 per digital key | |
| Grinding | Yes shade 4 (per external button) | Yes shade 4 (per external button) - For FLIP'AIR flip-up LCD for grinding | |
| Cutting | Yes shade 5 to 9 per digital key | Yes shade 5 to 9 per digital key | |
| X mode* | No | Yes | |
| Infotrack system** | No | Yes | |
| Sensors | 4 independent optical sensors | 4 independent optical sensors - Magnetic in "X" mode | |
| Viewing area | 97 x 60 mm | | |
| 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 | 510 g (helmet + LCD filter) | | |
| 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 (lens turn when it's sense the welding current)

** Infotrack system: provides useful information (current time - total welding time - alarm - temperature)

To order

| | | | |
|--|------------|------------|------------|
| Package (helmet + airflow system+ LCD filter) | W000372466 | W000372468 | W000372470 |
| LCD filter | W000372472 | W000372462 | W000372469 |

The ZEPHYR / FLIP'AIR air flow system

- Air flow system:
2 flows rates (low 160 l/min and high 200 l/min).
- This equipment includes an indication of the **flow chosen**, 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 are made in **flame retardant material**, a big advantage also.
- 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 a 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.

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 fume, odour.

The whole system is water proofed



Hose connection and hose cap

The connection between the flow system and the helmet is 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 mixed of this two solutions.
- These features ensure excellent welder comfort.

