UNIVERSAL





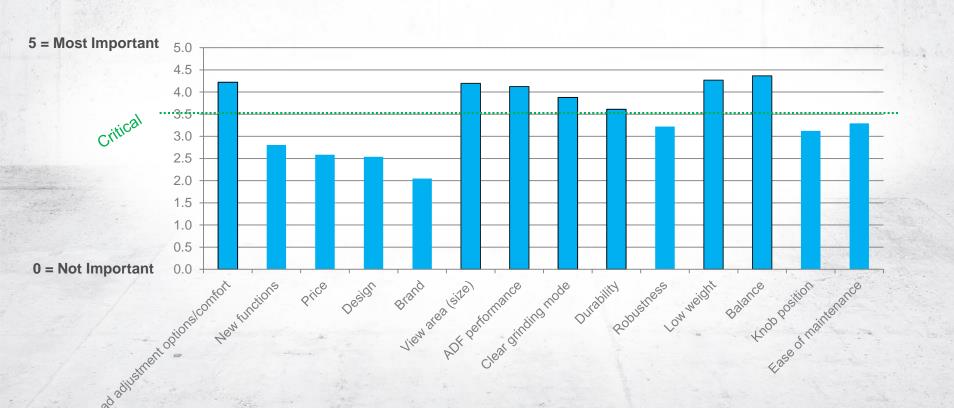


THE UNIVERSAL VISION

To create a quality, recognised brand name in welding PPE by offering a competitive and comprehensive range of Personal Protection Equipment. Universal's successful team experience combines to bring over 100 years' of know-how and proficiency to the welding PPE business. As a result, Universal Customers will maintain confidence and trust in our reliability, professionalism and safety standards, coupled with unrivalled Customer Service.



WHAT MATTERS THE MOST





STYLISH SHELL DESIGN WITH LIGHTWEIGHT PERFORMANCE



Traditional welding helmets tend to be bulky and cumbersome. The Horizon's streamlined shell design is not too big and not too small, accounting for a range of different head sizes. The flush proportioned exterior also minimizes extrusions, so nothing catches when working in a tight space.

The black matte finish not only gives a smart and fresh look, but also prevents scratches and chips that can often occur on gloss finish helmets



490g Total Helmet Weight

"EN166 B Impact - For Grinding



ERGONOMIC HEADGEAR



ADF PERFORMANCE



Specifications / Technical Data	
Cartridge Dimensions	110(W) x 90(H) x 9(T) mm
Viewing Area	98 x 48mm (3.85"x 1.88")
Lens Shade	DIN 9-13 (open state 4)
Power Supply	Solar Cells Batteries, Lithium Batteries (CR2450 1EA, Replaceable)
Sensors	4
Switch Time @ 23C	0.1
Optical Class	1/1/1/2
Standards	DIN EN379, AS/NZS 1338.1, ANSI Z87.1, CSA Z94.3

Grind Mode

Lens Control

Delay Control Time

Sensitivity / Delay Control





(when not on welding)

0.1 - 1.9 sec

Auto-ON, Auto-OFF 15-20 minutes

Grind Mode selected via external switch

Internal



EXTERNAL GRIND MODE





Majority of welding helmets don't offer a grind modefunction, and in the helmets that do, they are often located inside the helmet, which means having to remove the helmet to activate/deactivate.

Horizon's externally activated "GRIND" button allows for a quick and easy switch between welding and grinding applications, eliminating down time from having to remove the helmet, and also without removing the welding glove.

This combined with the True Colour + and large 98x48mm viewing area, allows for a clear grinding view.



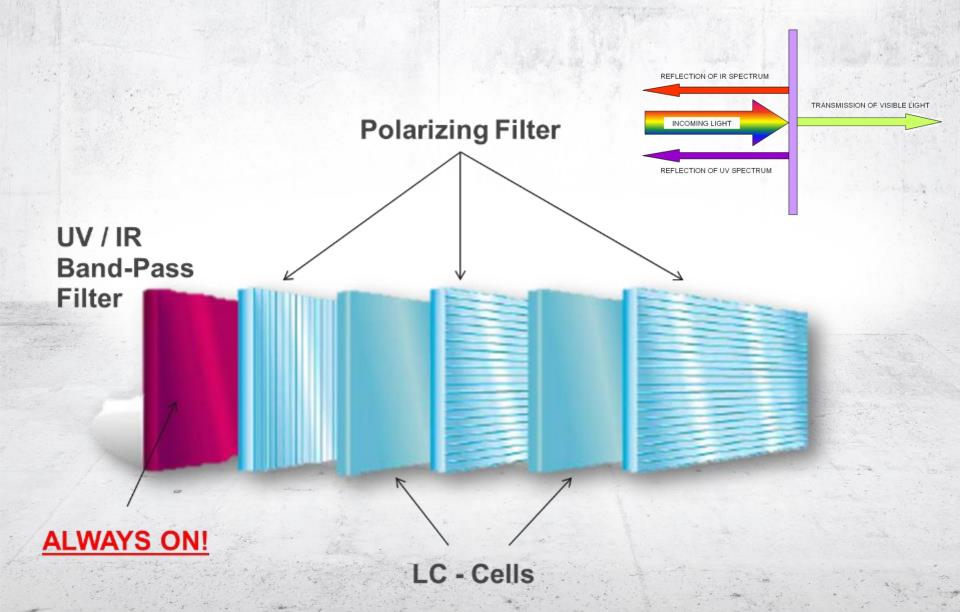
Green LED light will flash to indicate
Grind Mode





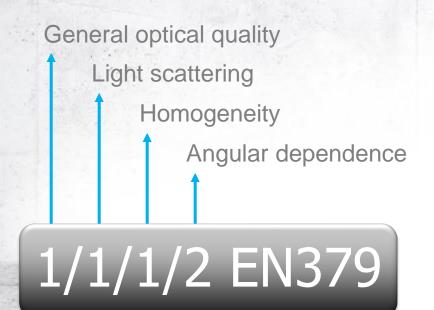
CONSTRUCTION OF AN ADF





OPTICAL PERFORMANCE







Auto darkening cartridges undergo evaluation in four important categories, all referring to optical clarity. Each category is graded on a scale of 1 to 3, with a score of 1 being the best (perfect) and a score of 3 being the worst.

Experienced welders who have used a 1/1/1/1-rated helmet can immediately tell the difference in optical clarity. They report that they see better, the workpiece is clearer, and the experience is more comfortable than when they are wearing a helmet rated, for example, at 1/2/1/2. They see the arc without distortion in the higher-rated lens and notice clarity issues in the one that is rated lower.

OPTICAL QUALITY



Optical class 1, 2 or 3 – Indicates optical quality of the ocular

Class 1 is the best



View through high quality ADF

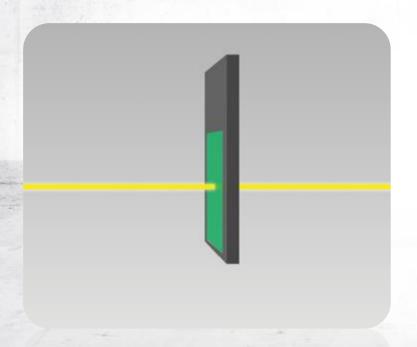


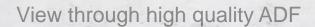
View through inferior ADF

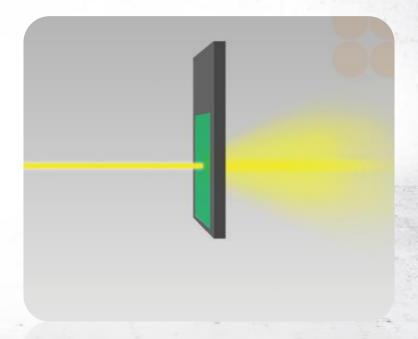
LIGHT SCATTERING



Light diffusion class – (switchable filters only) 1, 2 or 3 Indicates the light diffusion / scattering by the ocular Class 1 is the best







View through inferior ADF

HOMOGENEITY



Variations in luminous transmittance – (Switchable filters only)
1, 2 or 3 – Indicates shade variability in the dark state of the ocular Class 1 is the best



View through high quality ADF



View through inferior ADF

ANGULAR DEPENDENCE



Angular dependence of luminous transmittance class 1, 2 or 3 – Class 1 is the best



View through high quality ADF



View through inferior ADF



TRUE COLOUR + TECHNOLOGY



NORMAL ADF





HOW TO CHANGE THE BATTERY





DIOPTRE LENS OPTIONS



Dioptre lens can be fitted to the back to ADF retainer, no additional adapter required

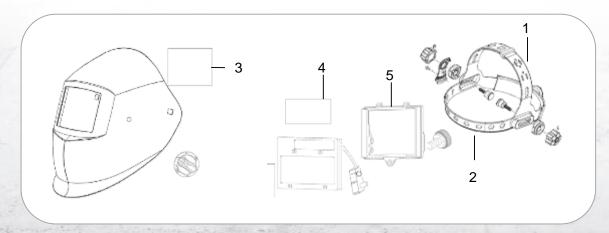


* Dioptre +1,0	EP158-000-041-D10
* Dioptre +1,5	EP158-000-041-D15
* Dioptre +2,0	EP158-000-041-D20
* Dioptre +2,5	EP158-000-041-D25





Ordering Information	
Description	Part Number
Horizon 9-13 helmet complete	EP235-000-005-000
1. Headgear complete	AC235-000-005-000
2. Sweatband	AC236-000-005-000
3. Front cover lens	EP236-000-041-000
4. Inside cover lens	EP237-000-041-000
5. Lens retainer with screws	AC237-000-005-000
* Dioptre +1,0	EP158-000-041-D10
* Dioptre +1,5	EP158-000-041-D15
* Dioptre +2,0	EP158-000-041-D20
* Dioptre +2,5	EP158-000-041-D25



UNIVERSAL

HORIZON SUMMARY



- Lightweight shell design 490g. High impact resistance Nylon
- √ 98x48mm 1/1/1/2 9-13 ADF
- √ 4 Sensors
- True colour + ADF technology
- Externally activated grind mode button
- Ergonomic multiple adjustable headgear, with rear pivot pad
- 2 year warranty



SENSORS



EXTERNAL GRIND BUTTON



TRUE COLOUR



VARIABLE SHADE ADF



COMFORT



LARGE VIEWING AREA



CONVEX COVER LENS



LIGHTWEIGHT 490G



SERIAL NUMBER



Serial number located on the back of the ADF cartridge

17: Year 2017

05: Month May

Example: 21A 1705 0931202



INTRODUCING...

MOMENTUM AIR

Key Features include:

- ✓ Adjustable air flow 180 210 l/min
- ✓ Ultra light weight 1kg
- ✓ Up to 8 hour duration at maximum airflow
- ✓ International Intelligent charger
- ✓ High efficiency P3 filter
- ✓ Blocked filter alarm
- √ Low battery alarm
- ✓ CE EN 12941 THP3
- ✓ The Momentum PAPR System has been designed and manufactured to comply with EN12941: 1998 as a TH / 3 P R SL device.





OPERATING THE UNIT

Switch on the unit by pressing the ON/OFF button on the control panel. The airflow can be adjusted by pressing the + /- buttons from 180l/min up to 220 l/min in six speeds.. The Green LED diodes shows the actual airflow level. Please note that for every press of the buttons, it is necessary to hold the press for 2 seconds for the action to occur. This is to avoid accidental changes.





ADJUSTABLE AIRFLOW





ADJUSTABLE AIRFLOW

The Momentum airoffers an electronically controlled constant air flow

The air flow indicator 6 x green LED's indicates the approximate air flow.

When switched on, it's default set to 180 l/min (one LED illuminates)

=	188 l/min (Approx)
=	196 l/min (Approx)
=	204 I/min (Approx)
=	212 I/min (Approx)
=	220 I/min (Approx)
	= = = = =



Additional LED's will illuminate when the air flow increases – blocked filter



BATTERY EFFICIENCY

Slim profile Li Ion battery pack. The unit can run on high speed for up to 8 hours in a clean environment with a new filter and battery, working in a contaminated atmosphere can significantly reduce the run time'

On a HD battery the run times are:

Up to 14 hours on Maximum air flow & up to 21 hours on Minimum air flow



Other competitors come with a 4 h battery at 200 l/min – Pay extra to get an 8 h battery!



When the battery is low the LED will begin to flash and the alarm will sound



9cm

COMPACT & LIGHTWEIGHT



Under 1kg





18cm



SERIAL NUMBER



Serial number located on the back of the air unit body

18: Year 2018

01: Month January

Example: R900B 18 01 441231



READY FOR USE

"Ready to use" helmet fitted with:

Proban head and Face seal.*

Solid "overhead" air duct.



Momentum Delivered with:

Air Unit with Air Hose & Hose Cover

Battery, Intelligent Charger, Comfort Pad, P3 Filter, Pre-Filter



HELMET & AIR UNIT KIT BAG UNIVERSAL 1 PART NUMBER...



RP140-000-000-000





10 REASONS TO BUY MOMENTUM AIR

- 1. Comfortable design
- 2. Light weight
- 3. Compact
- 4. THP3 highest protection level
- 5. Value for money
- 6. Simple To Use
- 7. User Friendly
- 8. High Air Flow
- 9. Long Filter Life with pre filter
- 10.Long Battery Duration





New PPE EU Regulation – 2016/425

...What will change starting April 21st 2018:

- Type examination certificates will be valid for a maximum of 5 years and must be issued accordingly to the new regulation
- Any new PPE products should comply to this regulation
- Some PPE products will be reclassified from category II to III, like hearing protection

...What will happen until April 21st 2019:

Products with a valid EC type certificate in accordance to the "old" Directive 89/686/EEC may continue to be sold if they were paced on the market before April 21st 2019, after that date, they must comply with requirements of the new regulation.

...What will happen until April 21st 2023

• EC type examination certificates and approvals issued under the "old" Directive 89/686/EEC will remain valid for sales purposes until April 21st 2023, unless they become invalid before that day.