



BALDER

THE ULTIMATE
WELDING CONCEPT
WELDING HELMET
BH3



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ADVANTAGES

OF THE BALDER BH3
WELDING HELMET

ACCEPTS ADF WITH LARGE VIEWING AREA

CURVED FRONT PROTECTION PLATE

SMOOTH ROUNDED EDGE FOR INCREASED COMFORT

AERODYNAMIC DESIGN FOR BETTER FUME DEFLECTION

"B" CERTIFIED - SUITABLE FOR GRINDING

FRONT LOADED ADF

FRONT LOADED FRONT PROTECTION PLATE

QUICK AND EASY REPLACEMENT OF FRONT PROTECTION PLATE

ENLARGED MOUTH AND NOSE AREA REDUCES CO₂ ACCUMULATION

OPTIMUM PROTECTION OF THE FACE, EARS AND THROAT

POSSIBLE COMBINATION WITH HARD HAT

LIGHTWEIGHT HELMET
399g without ADF

POSSIBLE COMBINATION WITH CLEAN AIR POWERED AIR PURIFYING RESPIRATORS

INTEGRATED AIR DUCT

ADJUSTABLE DIRECTION OF AIRFLOW

HOSE HOLDER FOR OPTIMUM ADJUSTMENT OF THE HOSE POSITION

EASY ACCESS TO THE HEADGEAR ADJUSTMENT WHEEL

EASY-TO-REPLACE FACE SEAL

MAKE YOUR OWN CONFIGURATION



Grand GDS Grand ES Grand DS Power GDS Power ES Power DS



1/1/1/1 OPTICAL CLASSES

ADCplus



HARD HAT

BH3 AIR WITH INTEGRATED AIR DUCT



Face Seal FLEXI

Face Seal STANDARD

TH3*

* in combination with all listed CA power units except with CA Basic Dual Flow and CA Pressure

EXAMPLE OF A POSSIBLE CONFIGURATION

BH3 AIR Grand DS CA FC



CleanAIR® POWERED AIR PURIFYING RESPIRATORS

- CA BASIC Dual Flow TH1
- CA BASIC Flow Control TH3
- CA CHEMICAL 2F TH3
- CA CHEMICAL 3F TH3
- CA PRESSURE 2A



COMPATIBLE AUTO-DARKENING FILTERS



Model	Grand GDS / Power GDS	Grand ES / Power ES	Grand DS / Power DS
Viewing area	96 x 68.5mm / 96 x 46.5mm	96 x 68.5mm / 96 x 46.5mm	96 x 68.5mm / 96 x 46.5mm
Weight	165g / 150g	160g / 145g	125g / 110g
Open state shade	4	4	4
Closed state shade	6-8 / 9-13	9-13	9-13
Shade adjustment	yes / external	yes / external	yes / internal
Sensitivity adjustment	yes / external	yes / external	yes / internal
Delay adjustment	yes / external	yes / external	yes / internal
Grinding mode	yes / external	no	no
Switching time at 23°C	0.15ms	0.15ms	0.15ms
Clearing time	0.1-1.0s	0.1-1.0s	0.1-1.0s
UV / IR protection	UV 16 / IR 16	UV 16 / IR 16	UV 16 / IR 16
Temperature range	-10°C / +60°C	-10°C / +60°C	-10°C / +60°C
TIG detection	enhanced	enhanced	enhanced
Energy supply	solar cells / no battery change		

Grand GDS

- 110 x 110mm
- large viewing area
- internal shade adjustment range selection
- external shade adjustment 6-8 / 9-13
- external sensitivity adjustment
- external delay adjustment
- external grinding mode

Grand ES

- 110 x 110mm
- large viewing area
- external shade adjustment 9-13
- external sensitivity adjustment
- external delay adjustment

Grand DS

- 110 x 110mm
- large viewing area
- internal shade adjustment 9-13
- internal sensitivity adjustment
- internal delay adjustment

GRAND AUTO-DARKENING FILTERS

POWER AUTO-DARKENING FILTERS

Power GDS

- 110 x 110mm
- standard viewing area
- internal shade adjustment range selection
- external shade adjustment 6-8 / 9-13
- external sensitivity adjustment
- external delay adjustment
- external grinding mode

Power ES

- 110 x 110mm
- standard viewing area
- external shade adjustment 9-13
- external sensitivity adjustment
- external delay adjustment

Power DS

- 110 x 110mm
- standard viewing area
- internal shade adjustment 9-13
- internal sensitivity adjustment
- internal delay adjustment

IMPROVED VISIBILITY IN OPEN STATE

IMPROVED COLOR RECOGNITION

WORLD'S FIRST ADFs RATED 1/1/1/1

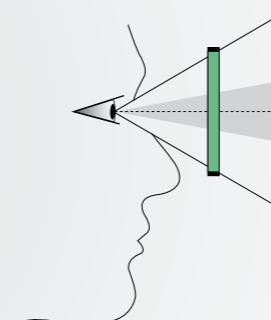
WORLD'S FIRST ADFs RATED
WITH CLASS 1 FOR ANGULAR
DEPENDENCE FEATURE

NEW TECHNOLOGY

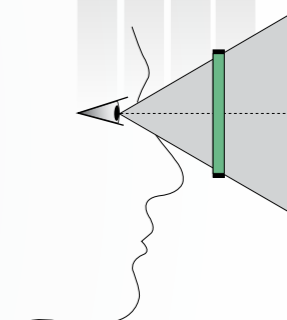
OLD TECHNOLOGY



STANDARD ANGULAR DEPENDENCE Selected shade $\pm 10^\circ$



IMPROVED ANGULAR DEPENDENCE Selected shade $\pm 30^\circ$



BH3 AIR & CLEAN AIR POWERED AIR PURIFYING RESPIRATORS



CleanAIR®

BH3 AIR CA BASIC Dual Flow

- initial flow rate *140-160l/min - Eco
- final flow rate *180-200l/min - TURBO
- noise level max. 61dB
- filter efficiency 99.998%
- filter type PSL
- weight (CA unit incl. filter and battery) 900g
- operating time **6-10h
- battery type Nimh 4.8V/4.5Ah
- CE - EN 12 941/A2 - TH1



BH3 AIR CA BASIC Flow Control

- flow rate 140-210l/min (8 optional levels)
- noise level max. 61dB
- filter efficiency 99.998%
- filter type PSL
- weight (CA unit incl. filter and battery) 900g
- operating time **6-10h
- battery type Nimh 4.8V/4.5Ah
- CE - EN 12 941/A2 - TH3



BH3 AIR CA CHEMICAL 2F

- initial flow rate *120-160l/min - Eco
- final flow rate *160-235l/min - TURBO
- noise level max. 61dB
- filter efficiency 99.998%
- filter type A2, B2, E2, K2, P3
- weight (CA unit incl. filter and battery) 960g
- operating time **8-10h
- battery type Li-Ion 14.4V/2.6Ah
- CE - EN 12 941/A2 - TH3



BH3 AIR CA CHEMICAL 3F

- initial flow rate *120-160l/min - Eco
- final flow rate *160-235l/min - TURBO
- noise level max. 61dB
- filter efficiency 99.998%
- filter type A2, B2, E2, K2, P3
- weight (CA unit incl. filter and battery) 1420g
- operating time **8-10h
- battery type Li-Ion 14.4V/2.6Ah
- CE - EN 12 941/A2 - TH3



BH3 AIR CA PRESSURE

- air flow - adjustable 170-400l/min
- noise level max. 61dB
- filter efficiency 99.998%
- filter type - combined filter
- weight 200g
- CE - EN 14 594 - 2A



* with fully charged battery and clean filters
 ** parameters depend on the selected operating mode
 Warranty: 1 year
 Leaflet with more detailed information available on request.



ALL PRODUCTS



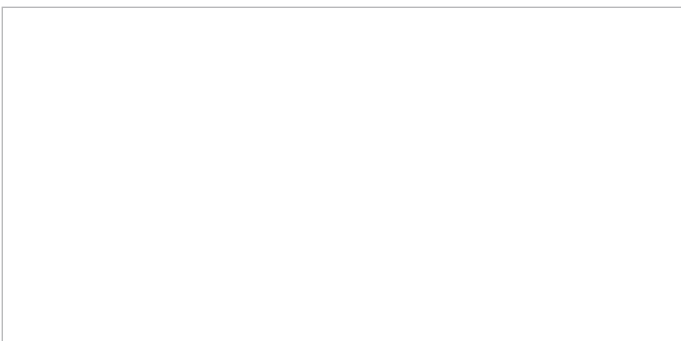
BH3 WELDING HELMET, GRAND and POWER
AUTO-DARKENING FILTERS

ANSI-Z87.1 BH3 WELDING HELMET, GRAND and POWER
AUTO-DARKENING FILTERS



Optoelectronic elements and
measuring systems, Ltd.

Teslova ulica 30
SI-1000 Ljubljana, Slovenia
tel +386 1 477 67 13
+386 1 426 45 79
fax +386 1 426 45 82
web www.balder.eu



Authorized dealer:

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