THE ULTIMATE WELDING CONCEPT
WELDING HELMET BH3
CONTENTS

BH3 ADVANTAGES 4
MAKE YOUR OWN CONFIGURATION 6
COMPATIBLE AUTO-DARKENING FILTERS 8
CLEAN AIR POWER UNITS 10
ADVANTAGES
OF THE BALDER BH3
WELDING HELMET

ACCEPTS ADF
WITH LARGE VIEWING AREA

SMOOTH ROUNDED EDGE FOR INCREASED COMFORT

AERODYNAMIC DESIGN FOR BETTER FUME DEFLECTION

FRONT LOADED ADF

FRONT LOADED FRONT PROTECTION PLATE

OPTIMUM PROTECTION OF THE FACE, EARS AND THROAT

ENLARGED MOUTH AND NOSE AREA REDUCES CO₂ ACCUMULATION

LIGHTWEIGHT HELMET
399g without ADF

POSSIBLE COMBINATION WITH HARD HAT

QUICK AND EASY REPLACEMENT OF FRONT PROTECTION PLATE

EASY-TO-REPLACE FACE SEAL

POSSIBLE COMBINATION WITH CLEAN AIR POWERED AIR PURIFYING RESPIRATORS

INTEGRATED AIR DUCT

HOSE HOLDER FOR OPTIMUM ADJUSTMENT OF THE HOSE POSITION

EASY ACCESS TO THE HEADGEAR ADJUSTMENT WHEEL

ADJUSTABLE DIRECTION OF AIRFLOW

“B” CERTIFIED - SUITABLE FOR GRINDING

MAKE YOUR OWN CONFIGURATION

GRAND AND POWER SERIES OF AUTO-DARKENING FILTERS

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

1/1/1/1 OPTICAL CLASSES

HARD HAT

BH3 AIR WITH INTEGRATED AIR DUCT

- BH3 AIR Grand DS CA FC
- Grand DS filter
- BH3 AIR welding helmet
- CA BASIC Flow Control

EXAMPLE OF A POSSIBLE CONFIGURATION

- BH3 AIR Grand DS CA FC
- Grand DS
- BH3 AIR welding helmet
- CA BASIC Flow Control

GRAND AND POWER SERIES OF AUTO-DARKENING FILTERS

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

1/1/1/1 OPTICAL CLASSES

- Face Seal FLEXI
- Face Seal STANDARD

TH3*

* In combination with all listed CA power units except with CA Basic Dual Flow and CA Pressure
### NEW TECHNOLOGY

- **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**

### Old Technology

- **Power GDS**
  - 110 x 110mm
  - Standard viewing area
  - Internal shade adjustment range selection
  - External sensitivity adjustment
  - External delay adjustment
  - External grinding mode
- **Power ES**
  - 110 x 110mm
  - Standard viewing area
  - Internal shade adjustment range selection
  - External sensitivity adjustment
  - External delay adjustment
- **Power DS**
  - 110 x 110mm
  - Standard viewing area
  - Internal shade adjustment range selection
  - External sensitivity adjustment
  - Internal delay adjustment

### Standard Angular Dependence

Selected shade ±10°

### Improved Angular Dependence

Selected shade ±30°

### Compatible Auto-Darkening Filters

- **Grand GDS**
  - 110 x 110mm
  - Large viewing area
  - Internal shade adjustment range selection
  - External sensitivity adjustment
  - External delay adjustment
  - External grinding mode
- **Grand ES**
  - 110 x 110mm
  - Large viewing area
  - Internal shade adjustment range selection
  - External sensitivity adjustment
  - External delay adjustment
- **Grand DS**
  - 110 x 110mm
  - Large viewing area
  - Internal shade adjustment range selection
  - Internal sensitivity adjustment
  - Internal delay adjustment

### Power Auto-Darkening Filters

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

### Grand Auto-Darkening Filters

- **Grand GDS**
  - 110 x 110mm
  - Large viewing area
  - Internal shade adjustment range selection
  - External sensitivity adjustment
  - External delay adjustment
  - External grinding mode
- **Grand ES**
  - 110 x 110mm
  - Large viewing area
  - Internal shade adjustment range selection
  - Internal sensitivity adjustment
  - Internal delay adjustment
- **Grand DS**
  - 110 x 110mm
  - Large viewing area
  - Internal shade adjustment range selection
  - Internal sensitivity adjustment
  - Internal delay adjustment

### Improved Angular Dependence Compensation

- Grand GDS / Power GDS
- Grand ES / Power ES
- Grand DS / Power DS
BH3 AIR & CLEAN AIR
POWERED AIR PURIFYING RESPIRATORS

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 99.98%
- filter type PSL
- weight (CA unit incl. filter and battery) 900g
- operating time **6-10h
- battery type Nimh 4.8V/4.5Ah
- 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 99.98%
- filter type PSL
- weight (CA unit incl. filter and battery) 900g
- operating time **6-10h
- battery type Nimh 4.8V/4.5Ah
- EN 12 941/A2 - TH1

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 99.98%
- filter type A2, B2, E2, K2, P3
- weight (CA unit incl. filter and battery) 960g
- operating time **6-10h
- battery type Li-Ion 14.4V/2.6Ah
- 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 99.98%
- filter type A2, B2, E2, K2, P3
- weight (CA unit incl. filter and battery) 1420g
- operating time **6-10h
- battery type Li-Ion 14.4V/2.6Ah
- EN 12 941/A2 - TH3

BH3 AIR
CA PRESSURE
- air flow - adjustable 170-400l/min
- noise level max. 61dB
- filter efficiency 99.98%
- filter type - combined filter
- weight 200g
- 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.
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