

Beta 90 FreshAir / Delta 90 FreshAir

Beta 90 FreshAir welding helmet



+ Why buy

- Protection for Arc welding/Plasma cutting/Gouging/Grinding operations
- Provides safe, clean and cool breathing air
- Positive pressure design makes breathing effortless
- Light-weight 900g battery powered filter pack or air-line supply
- Air flow reduces weld lens misting
- Three stage flip lens for welding, tacking and grinding operations
- Lightweight and comfortable
- Standard or automatic welding lens options
- Welding and grinding rated to EN175B
- Filter efficiency no less than 99,998% of the airborne particles

Respiratory protection for welding and grinding

Beta 90 FreshAir is a lightweight head unit providing protection against welding, grinding and associated air-borne fume and dust contamination. Designed for welders working in all positions, Beta 90 FreshAir provides improved protection for the eye's, face and lungs. The multi-point head harness ensures maximum adjustment and comfort, plus the 3 stage flip lens makes welding, tacking and grinding operations effortless and safe. The shield design also incorporates a perimeter deflection rim, offering additional protection in overhead welding applications and the dual-skin hatch design reduces heat transfer to the welders face.

Beta 90 FreshAir can be combined with either a battery powered FreshAir filter pack or locally supplied breathing air sources. Cool, clean, filtered breathing air is channelled over the welders face, eliminating harmful air-borne welding fumes and dust contamination. The adjustable fabric face seal, combined with the 'positive air pressure' design, creates a safe and easy breathing zone for all day welder comfort, which also prevents the welding lens from misting.

Delta 90 FreshAir welding helmet



+ Why buy

- Welding and hard-hat protection
- Provides safe, clean and cool breathing air
- Positive pressure design makes breathing effortless
- FreshAir prevents welding lens misting
- Choose battery powered filter pack or air-line supply
- Mounting for optional high quality ear defenders
- Choose from standard or automatic welding lens options
- Meets hard-hat standards EN397 and Welding certification EN175

Respiratory protection for welding in hard hat work areas

Delta 90 FreshAir is a robust unit providing all round protection for welding in extreme conditions, such as Ship building, Mining and construction sites. Delta 90 FreshAir integrates head, face and respiratory protection in one high strength unit, providing welder's maximum protection and comfort. In addition, high quality hearing protection can also be integrated as an optional fit extra

Delta 90 FreshAir can be combined with either a rechargeable battery powered FreshAir filter pack or locally supplied breathing air sources. Cool, clean, filtered breathing air is channelled over the welders face, eliminating harmful air-borne welding fume and dust contamination. The adjustable face seal, combined with the 'positive air pressure' design, creates a safe and easy breathing zone for all day welder comfort, which also prevents the welding lens from misting.

Beta 90 FreshAir / Delta 90 FreshAir

FreshAir Flow control with Alarm



+ Main filter cartridge, pre filter and odour filter

- Main particle filter PSL R, provides protection against all types of particulate contaminants such as dusts, non-toxic and toxic fumes, solid and liquid aerosols, bacteria and viruses. The filter separates no less than 99,998% of the airborne particles.
- Certification: EN 12941, type PSL R
- Temperature range of storage and service: 0°C to + 40°C
- Dimensions: (diameter / height): 132 / 55 mm
- Filter weight: 100 g
- Optional pre-filter prolongs the main filter life, preventing premature clogging by larger particles. Adhesive tapes placed on both sides of the pre-filter make fitting easy and fast. Made from 100% PES and suitable for all filtration.
- Odour filter removes unpleasant odours and thus provides additional user comfort

Efficient, intelligent, lightweight and compact

The FreshAir Flow control with Alarm is a blower and filter unit designed to provide protection against particulate contaminant associated with welding and fabrication operations, such as dust, non-toxic and toxic fumes, solid and liquid aerosols, bacteria and viruses. Despite its compact shape and low weight, the unit is designed for long-term operation in welding environments.

The rechargeable battery powered system provides total freedom of movement in the workplace, when compared to the static, airline fed option. Reliable respiratory protection is based on created 'overpressure' in the breathing zone of the head-top unit. The positive pressure and fresh, filtered air eliminates difficulty in breathing, prevents fogging of the welding lens and improves user comfort throughout the working day.

The Flow control system automatically maintains the chosen air-flow rate and the intelligent warning system provides both visual and acoustic signals if the battery is drained, the filter is clogged or the airflow is insufficient. The rechargeable NiMH battery ensures operations for up to 10 hours. The airflow is manually adjustable from 140 l/min up to 210 l/min and the advanced flow control system allows the operator to manage airflow and battery life.



FreshAir Flow control filter pack automatically regulates the fan motor speed to compensate filter clogging and battery state.



The comfort belt mounts the battery powered FreshAir filter pack and also provides additional back support throughout the working day.



FreshAir Pressure flow control valve regulates supply air flow and includes an air supply monitoring gauge

Beta 90 FreshAir / Delta 90 FreshAir

Technical specifications

FreshAir Flow Control

| | |
|--|--|
| Airflow | 140 – 210 l/min at 8 adjustable flow rates |
| Weight of the blower unit incl. the filter and battery | 900 g |
| Noise level | 55 – 61 dB |
| NiMH battery lifetime | 500 – 700 charging cycles |
| One charging cycle | 10 – 14 hours |
| Belt size | 80 – 100 cm |
| Recommended temperature range | 10 °C – 40 °C |
| Recommended humidity range | 20 – 80 % Rh |
| Certification | EN 12 941 TH2 |

FreshAir Pressure Flow Control

| | |
|---|----------------|
| Minimum air flow | 170 l/min-1 |
| Maximum air flow | > 400 l/min-1 |
| Weight of unit | 250 g |
| Inlet connection | |
| Outlet connection | MINI DN 5 |
| Noise level of unit | 61 dB |
| Belt size | 60 – 150 cm |
| Supply pressure range | 300 – 1000 kPa |
| Recommended temperature range at work | 10 – 60 °C |
| Recommended air humidity range at workplace | 20 – 80 % Rh |
| Certification | Class 2A |

FreshAir Pressure Conditioner

| | |
|---|--|
| Maximum air flow | 500 l/min |
| Weight without filter | 6300 g |
| Weight including filter | 6800 g |
| Inlet connection | Compatible with RECTUS series 25, 26 a CEYN320 |
| Outlet connection | Compatible with RECTUS series 25, 26 a CEYN320 |
| Recommended temperature range at work | 10 – 60 °C |
| Recommended air humidity range at workplace | 20 – 80 % Rh |
| Certification | If the requirements of TP-610050-1 are met, it complies with EN 12 021 |

Beta 90 FreshAir / Delta 90 FreshAir

Ordering information

| Beta 90 FreshAir with Flow Control pack | | P1700 |
|--|--|--------------|
| BETA 90 FreshAir | | 9873065 |
| FreshAir Flow Control pack | | W007513 |
| Delta 90 FreshAir with Flow Control pack | | P1701 |
| Delta 90 FreshAir | | 9873066 |
| FreshAir Flow Control pack | | W007513 |
| Beta 90 FreshAir with Pressure Flow Control pack | | P1702 |
| BETA 90 FreshAir | | 9873065 |
| FreshAir Pressure Flow Control pack | | W007515 |
| Delta 90 FreshAir with Pressure Flow Control pack | | P1703 |
| Delta 90 FreshAir | | 9873066 |
| FreshAir Pressure Flow Control pack | | W007515 |

| Beta 90 FreshAir helmet | | 9873065 |
|--------------------------------|-----|----------------|
| Protection plate | x 1 | 9873253 |
| Hatch spring | x 2 | 4300700 |
| Safety plate (90x110x1.5) | x 1 | 9873254 |
| Filter retaining spring | x 1 | 3149850 |
| Face seal | x 1 | W007523 |
| Hatch set Beta | | 4301050 |
| Headband | | 4306370 |
| Sweat band | | 9873018 |
| Head cover | | W007827 |
| Protective neck cover | | W007828 |
| Flexi-hose protection cover | | W007788 |

| Delta 90 FreshAir helmet | | 9873066 |
|---------------------------------|------|----------------|
| Face seal | x 1 | W007516 |
| Ear muffs | x 1 | W007517 |
| Fixing screws | x 2 | W007518 |
| Headband | x 1 | W007519 |
| Protection plate, outside | x 10 | W007520 |
| Welding visor | | W007522 |
| Head cover | | W007827 |
| Protective neck cover | | W007828 |
| Flexi-hose protection cover | | W007788 |

| Beta/Delta welding lens options | | |
|--|-------|---------|
| Glass welding filter lens | | |
| DIN 8 90x110 | | 9873241 |
| DIN 9 90x110 | | 9873242 |
| DIN 11 90x110 | | 9873244 |
| DIN 12 90x110 | | 9873245 |
| DIN 13 90x110 | | 9873246 |
| DIN 14 90x110 | | 9873247 |
| Automatic welding lens | | |
| ADF 9-13 welding filter pack | | 9873058 |
| Inside protection plate | 5 pcs | W007521 |
| 51x107 mm | | |
| Magnifying lenses for ADF pack | | |
| 51x108 mm | 1,0 | 9873260 |
| 51x108 mm | 1,5 | 9873261 |
| 51x108 mm | 2,0 | 9873262 |
| 51x108 mm | 2,5 | 9873263 |

| FreshAir Flow Control pack | | W007513 |
|--------------------------------------|------------|----------------|
| FreshAir Flow Control with alarm | | W007512 |
| FreshAir Battery | Euro plug | W007485 |
| FreshAir Flow Control Flexi hose | | W007487 |
| FreshAir Flow Control Flow indicator | | W007488 |
| Comfort belt | | W007489 |
| Basic filter, 2 pcs, standard | | W007490 |
| Flow Control pre-filter | 10 pcs | W007492 |
| Basic odour prefilter | 10 pcs | W007494 |
| Heavy duty comfort belt | | W007789 |
| Flow Control Sealing ring | for filter | W007491 |
| Battery pack, NIMH 4.8 V/4.5 AH | | W007493 |
| Flow Control Filter cover | | W007495 |

| FreshAir Pressure Flow Control pack | | W007515 |
|---|-----------|----------------|
| FreshAir Pressure Flow Control set (valve and belt) | | W007496 |
| FreshAir Pressure Flow Flexi hose | | W007501 |
| Pressure Noise silencer | | W007498 |
| Pressure Control valve | | W007499 |
| Pressure Air fitting | | W007500 |
| Pressure Flow control belt | | W007502 |
| Pressure Flow indicator | RD40x1/7" | W007503 |
| Pressure CONDITIONER UNIT | | W007504 |
| Pressure CONDITIONER FILTER | | W007505 |
| Pressure FLOW SPIRAL HOSE 10m | | W007506 |