

# BT / TECMEN PAPR FREFLOW IEXP TM1000



## KEY FACTS

- ◆ Eye/Face/Respiratory Protection
- ◆ Large Viewing Area: 107 x 75 mm
- ◆ 1 / 1 / 1 / 1 Highest Optical Class
- ◆ Dual Shade Range 5-8 / 9-13
- ◆ Panoramic View (Shade 5)
- ◆ See True Colours with "RealLens™ Technology"
- ◆ Easy Lift Up for Grinding
- ◆ Intelligent Air Supply
- ◆ Class Leading P3 Filter
- ◆ Rechargeable Li-ion Battery
- ◆ Four Independent Sensors

## DESCRIPTION

BT / Tecmen PAPR Freflow iEXP TM1000 is an exceptional quality welding helmet and powered air purifying respirator system combination, working together to protect the welder from arc radiation, spatter, dust, pollutants, fine particles as well as other contaminants.

The high resolution lens technology gives a high-definition visual experience, increases eyes comfort and reduces fatigue. Ideal for use in the industrial field where welders spend extended periods of time welding.

The Tecmen Freflow filtration unit prevents siphoning in toxic particles, soot and other contaminants for a safe and refreshing breathing experience. The multi-layer particle box filtration system provides efficiency of up to 99.97%.

The Freflow system senses and automatically adjusts power and air-flow depending on the degree of blockage of the filter box. The intelligent control, provides a stable and clean air flow supply, keeping the users comfortable at all times.

## CLASSIFICATIONS / APPROVALS

Helmet: CE, UKCA, UKNI, ANSI Z87.1, Z94.3, AS/NZS1337.1, 1338.1

Respirator: EN12941, AS/NS1716: 2012 - Freflow V1,  
Particle filter with class P3 inside

## APPLICATIONS

Respirators can be used in many different industrial fields such as polishing, welding and metalworking.

- ◆ MIG, TIG & Stick welding
- ◆ Plasma Cutting
- ◆ Grinding

## STANDARD INCLUSIONS

1. Flip Front Auto Darkening Welding Helmet
2. Blower unit (with waist strap and battery)
3. Spare outside cover lens x 5
4. Spare inside cover lens x 2
5. Side lens x 2
6. Hose with cover
7. Battery Charger
8. Shoulder Strap
9. Airflow Indicator
10. Carry Bag

## HELMET SPECIFICATIONS

<b>Auto Darkening Filter (ADF) Model</b>	950 iEXP
<b>Optical Class</b>	1 / 1 / 1 / 1
<b>Viewing Area</b>	107 x 75 mm
<b>Arc Sensor</b>	4
<b>Light State</b>	DIN 3.5
<b>Dark State</b>	Variable Shade 5 ~ 8 / 9 ~ 13
<b>Power On / Off</b>	Manual-on/off, Auto-off
<b>UV / IR Protection</b>	Up to Shade DIN 16 at all times
<b>Power Supply</b>	Solar cell, Battery replaceable 2 x CR2450 lithium battery
<b>Battery Duration</b>	4000 hours
<b>Switching Time</b>	1/25,000 s. from light to dark
<b>Dark to Light</b>	0.1~1.0 s, Digital Display Control
<b>Low Amperage TIG Rated</b>	≥ 2 amps (AC/DC)
<b>Grinding</b>	Yes
<b>Helmet Material</b>	High Impact Resistance Nylon
<b>Warranty</b>	2 Year (ADF & Blower Unit) 1 Year (Blower Unit Battery)

## RESPIRATOR SPECIFICATIONS

<b>Airflow Rate</b>	Manufacturer's minimum design flow rate: 165+lpm (5.8+cfm) Low speed: 170+lpm (6+cfm) High speed: 210+lpm (7.4+cfm)
<b>Fast-charging Battery</b>	Rechargeable Li-ion Battery Duration: 9 h low speed, 5-6 h high speed Charge Time: 1 hour
<b>Filter</b>	> 99.97% efficiency
<b>Relative Humidity</b>	Operating R.H.: < 90%, Storage R.H.: < 85%
<b>Weight</b>	1020g (Blower unit + battery)

## PACKAGING & ORDERING INFORMATION

Description	Part Number
BT / Tecmen PAPR Freflow iEXP TM1000	703090