



# Jupiter™ Air Filter Unit

Datablad



## Description

The 3M Jupiter™ Air Filter Unit, when used with one of the 3M approved headtops, forms a power-assisted respiratory protection device.

The Jupiter™ Air Filter Unit can be used with the following 3M headtops: HT-100 Series, HT-400 Series, HT-600 Series, HT-700 Series, and HT-800 Series.

- Choice of 3 batteries: 4 hr, 8 hr, Intrinsically Safe (4 hr).
- Nickel Metal Hydride batteries provide longer duration for less weight.
- Choice of 5 filter types: P, A2P, KP, ABEP, A2BEKP.
- Filter covers reduce dust & sparks entering the filter body.
- Small profile of the Jupiter™ Air Filter Unit allows good freedom of movement especially in smaller spaces.
- Smooth shape of the Jupiter™ Air Filter Unit allows easy cleaning.
- Ergonomically designed belt improves user comfort.
- Electronic alarm gives visual and audible warning of low airflow and/or low battery.
- Simple calibration method provides extended product life without requiring manufacturer's maintenance.
- Low maintenance design.

## Approvals

The 3M Jupiter™ Air Filter Unit, when used as part of an approved system, has been shown to meet the Basic Safety Requirements under Article 10 and 11B of the European Community Directive 89/686/EEC and is thus CE marked.

The product was examined at the design stage by British Standards Institute, Product Services, Maylands Avenue, Hemel Hempstead, Hertfordshire, HP2 4QS, England (Notified body Number 0086).

When fitted with a 3M approved Intrinsically Safe battery, the 3M Jupiter Air Filter Unit has been approved for intrinsic safety as complying with European Community Directive 94/9/EC by:

SIRA Certification Service identification number 0518.

## Standards

The Jupiter™ System incorporating Jupiter™ Air Filter Unit (085-00-10P) with 3M approved headtops has been tested and approved to EN 12941.

The Jupiter™ Air Filter Unit satisfies the following requirements:

- Dust protection and protection against spraying water to EN 60529 code IP53.

When the Jupiter™ Air Filter Unit is fitted with Intrinsic Safety Kit (085-12-00P) consisting of an I.S. Battery and I.S. Pouch and connected by the lightweight breathing tube (008-00-42P) to a 3M approved headtop the system satisfies the following additional requirements:

- Dust protection to EN 60529 code IP63.
- Intrinsically Safe to EN 50014, EN50020 and EN50281 (EEx ib IIB T3 and II 2 G D).

## Applications

The Jupiter™ Air Filter Unit, when used as an approved system with appropriate filters provides protection against:

- Particles e.g. fine dusts, mists and metal fume.
- Gases & vapours.
- Particles & gases combined.

The Jupiter™ Air Filter Unit, when used with an appropriate headtop and filters, can be used in various applications including:

- Pharmaceutical.
- Chemical mixing/handling.
- Laboratories
- Paint Spraying (not isocyanates)
- Fibreglass handling
- Chemical and Agrochemical Spraying
- Welding
- Foundries
- Grinding

## Use Limitations

It should not be used in the following conditions:

- Asbestos stripping
- Oxygen deficient atmospheres
- Confined spaces (i.e. spaces with poor ventilation)
- Where the hazard is regarded as immediately dangerous to life or health (IDLH)
- Where the contaminant concentration is above that specified in the headtop User Instruction

## Technical Specifications

**Nominal Protection Factor:** varies depending on headtop used (please see relevant User Instruction)

**Outlet Flow Characteristics:**

Manufacturers Minimum Design Flow: 150 l/min

Maximum Flow: 230 l/min

**Battery Packs:**

4 hr battery = 5.2V NiMH rechargeable

8 hr battery = 5.2V NiMH rechargeable

I.S. battery = 7.8V NiMH rechargeable

**Intrinsic safety:**

EN50020 EEx ib IIB T3, SIRA Ex02Y2162X.

(ib = incapable of causing ignition in normal operation, IIB = gas sub group as specified in EN50014, T3 = max surface temperature 200°C)

The battery must be charged in a safe area.

**Ingress Protection Code as specified in EN60529 is:**  
IP53.

**When used with the Intrinsic Safety Kit:** IP63  
(5x = dust protection, 6x = Dust tight, x3 = spraying water).

**Operating Temperature:**

-5°C to +40°C and < 90% humidity

**Storage Conditions:**

-20°C to +50°C and < 90% humidity.

**Weight (excluding battery and filters):** 882g.

## Materials

- Air Filter Unit body: Polyphenylene.
- Belt: PVC coated Polyester and EVA.
- Clips: Polypropylene.
- Filter casing: Polystyrene.
- Filter Cover: Polypropylene.
- Battery casing: Polyphenylene.
- Airflow indicator/calibration tube: Polycarbonate.

## Spare Parts and Accessories

PART NO.	DESCRIPTION
085-01-00P	Blower module
085-06-10P	Control module
BLT-12	Decontamination Belt
BLT-14	Belt Clip
BLT-15	IS Belt Clip
022-25-10P4	Braces
021-14-12P	Calibration tube & airflow indicator
450-00-25P2	P filters
453-00-25P2	A2P filters
453-09-25P2	A2BEKP filters
453-16-25P2	K1P filters
456-18-25P2	ABE1P filters
461-00-02P24	Pre-filter pads
105	Disinfectant wipes
007-00-63P	4 hour battery
007-00-64P	8 hour battery
085-12-00P	IS Battery (4hr) & Pouch Kit
085-11-00P	IS Pouch
003-00-58PUK	UK battery charger (3-pin)
003-00-58PEU	European battery charger (3-pin)
003-00-59P	10 Station Intelligent Charger
008-00-41P3	Rubber Breathing Tube
008-00-42P3	Light Weight Breathing Tube
008-08-00P3	Protective Sleeve for Breathing Tube

For more information on 3M products and services please call the 3M Health & Safety Helpline on: **0870 60 800 60**



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