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# MINIMAN-100

#### **EXTRACTION ARM**

The MiniMan-100 is a compact flexible arm, which is ideal for all types of smaller dust and fume applications.

The arm is fitted with exterior friction joints. The inner tubes are kept in place by a gas spring (standing arm) or a balancing strap (hanging arm). This design ensures smooth movement of the arm.

The MiniMan-100 arm is available in different versions, including ATEX $^{\scriptscriptstyle 1}$ . The specific TopGrade arms have a distinctive colour and are meant for use in clean working environments, such as laboratories.

Approved for use in explosive environments zone 1 and 21; marking Ex II 2G 2D (in accordance with TRGS 727 & ATEX Directive 2014/34/EU)

### **APPLICATIONS**

The standard MiniMan-100 arm (yellow) is intended to be used for the following applications:



- soldering fumes
- airborne dust
- fumes from solvents
- TIG welding
- MIG-MAG/GMAW welding

The MiniMan-100 TopGrade arm (fully white) is especially suitable for use in laboratories in the pharmaceutical, chemical and food processing industry.

Physical dimensions and properties



### **SPECIFICATIONS**

Diameter	Ø 100 mm (4 in.)					
Material of tubes	aluminium					
Colour:	standard arm TopGrade					
• tubes	• yellow RAL 1004 RAL 9010					
• hoses	• black • white					
■ Performance						
Recommended airflow • min. airflow	200-450 m³/h (118-265 CFM) • 200 m³/h (118 CFM)					
■ Conditions of storage and use						
Process temperature:     min.     nom.     max.	• 5°C (41°F) • 20°C (68°F) • 70°C (158°F)					
Max. relative humidity	90%					
Suitable for outdoor use	no					
Storage conditions	• 5-45°C (41-113°F) • relative humidity max. 80%					
Options and accessories						
DAMPER-100	shut-off valve					
MiniMan-100 all types (except for ATEX versions):						
S-100	manual on/off switch for hood mounting					
LL-5.5/24-100 + TR-24	manual on/off switch, incl.					

working light; transformer

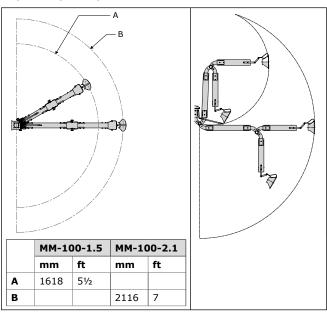
230/24V



Image: MiniMan type MM-100-2.1/H

■ Product combinations					
PA-110/160   PA-220/160	stanchion + ducting				
Extraction fan:	suitable for:				
• FUA-2100	• 2-3 MiniMan arms				
• FUA-3000	• 3-4 MiniMan arms				
• FUA-4700	• 4-5 MiniMan arms				
■ Scope of supply					
Extraction arm (fully assembled)   Mounting bracket					
■ Order information					
Number/package	1				
■ Logistics data					
Harmonized Tariff Code	84219990				

#### **WORKING REACH**



# **ARM MOVEMENT**



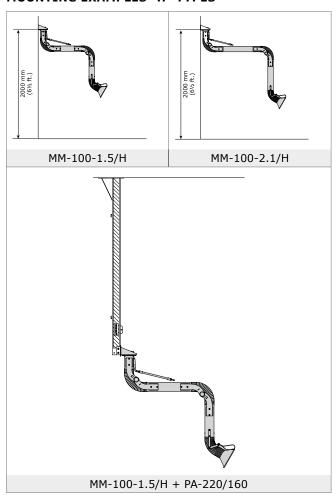


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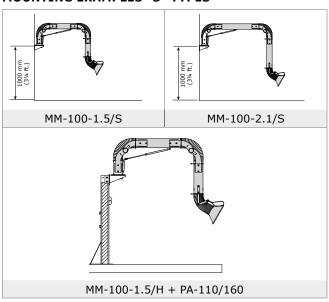
# **Remaining specifications**

Туре	MM-100-1.5/H	MM-100-2.1/H	MM-100-1.5/H ATEX	MM-100-2.1/H ATEX	MM-100-1.5/S	MM-100-2.1/S			
			Extraction arm in accordance with: TRGS 727 & ATEX directive 94/9/EC						
Physical dimensions and properties									
Material of hoses	PVC with internal steel spiral; flame-retardant		PVC with internal steel spiral; flame-retardant and antistatic		PVC with internal steel spiral; flame-retardant				
Mounting position	hanging	hanging	hanging	hanging	standing	standing			
Length (nom.)	1,5 m (5 ft.)	2,1 m (7 ft.)	1,5 m (5 ft.)	2,1 m (7 ft.)	1,5 m (5 ft.)	2,1 m (7 ft.)			
Weight (net)	9,5 kg (21 lbs.)	12 kg (26½ lbs.)	9,5 kg (21 lbs.)	12 kg (26½ lbs.)	9,5 kg (21 lbs.)	12 kg (26½ lbs.)			
■ Order information									
Article no.:									
• yellow arm	0000101109	0000101110	0000101128	0000101129	0000114588	0000114587			
white arm (TopGrade)	0000101117	0000101118	-	-	-	-			
■ Logistics data									
Gross weight	10,5 kg (23 lbs.)	13 kg (28½ lbs.)	10,5 kg (23 lbs.)	13 kg (28½ lbs.)	10,5 kg (23 lbs.)	13 kg (28½ lbs.)			
Packing dimensions	1200 x 400 x 300 mm (47 x 15¾ x 11¾ in.)	1600 x 500 x 300 mm (63 x 19% x 11¾ in.)	1200 x 400 x 300 mm (47 x 15 <sup>3</sup> 4 x 11 <sup>3</sup> 4 in.)	1600 x 500 x 300 mm (63 x 19% x 11¾ in.)	1200 x 400 x 300 mm (47 x 15¾ x 11¾ in.)	1600 x 500 x 300 mm (63 x 19% x 11¾ in.)			
Max. number/pallet	10	6	10	6	10	6			

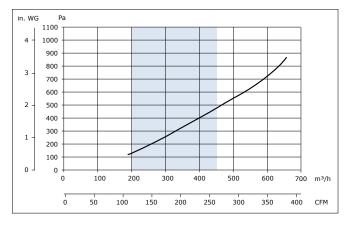
## **MOUNTING EXAMPLES "H" TYPES**



## **MOUNTING EXAMPLES "S" TYPES**



# PRESSURE DROP





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## **FEATURES & BENEFITS**



Exterior friction joints ("ClearThru" design), which allows for maximum air velocity, low pressure drop and low noise level



Special TopGrade version, especially for clean working environments

#### **Application restrictions**

Do not use the product in combination with a filter for the following applications or in the following circumstances: polishing applications in combination with grinding, welding or any other application that generate sparks (fibres from polishing or abrasive flap disks are highly flammable and pose a high risk of filter fires when exposed to sparks) | aluminium laser cutting | oil mist | heavy oil mist in welding fume | arc-air gouging | extraction of aggressive fumes and gases (e.g. from acids, from alkaline, from soldering paste containing lithium) | extraction of hot gases (more than 70°C/158°F continuously) | grinding aluminum and magnesium | flame spraying | extraction of cement, saw dust, wood dust etc. | sucking cigarettes, cigars, oiled tissues and other burning particles, objects and acids | explosive environments or explosive substances/gases

Product type Article no. Product category MiniMan-100

refer to Order information extraction arms 141222/B

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