

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 ATEX¹. The specific TopGrade arms have a distinctive colour and are meant for use in clean working environments, such as laboratories.

1 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.

SPECIFICATIONS

■ Physical dimensions and properties		
Diameter	Ø 100 mm (4 in.)	
Material of tubes	aluminium	
Colour:	standard arm	TopGrade
• tubes	• yellow RAL 1004	• white RAL 9010
• hoses	• black	• white
■ Performance		
Recommended airflow	200-450 m³/h (118-265 CFM)	
• min. airflow	• 200 m³/h (118 CFM)	
■ Conditions of storage and use		
Process temperature:		
• min.	• 5°C (41°F)	
• nom.	• 20°C (68°F)	
• max.	• 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	



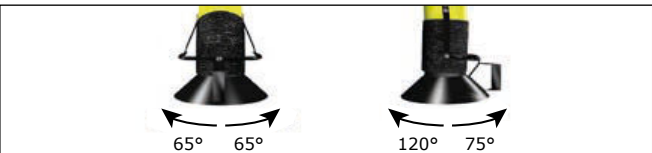
Image: MiniMan type MM-100-2.1/H

■ Product combinations	
PA-110/160 PA-220/160	stanchion + ducting
Extraction fan: • FUA-2100 • FUA-3000 • FUA-4700	suitable for: • 2-3 MiniMan arms • 3-4 MiniMan arms • 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

	MM-100-1.5		MM-100-2.1	
	mm	ft	mm	ft
A	1618	5½		
B			2116	7

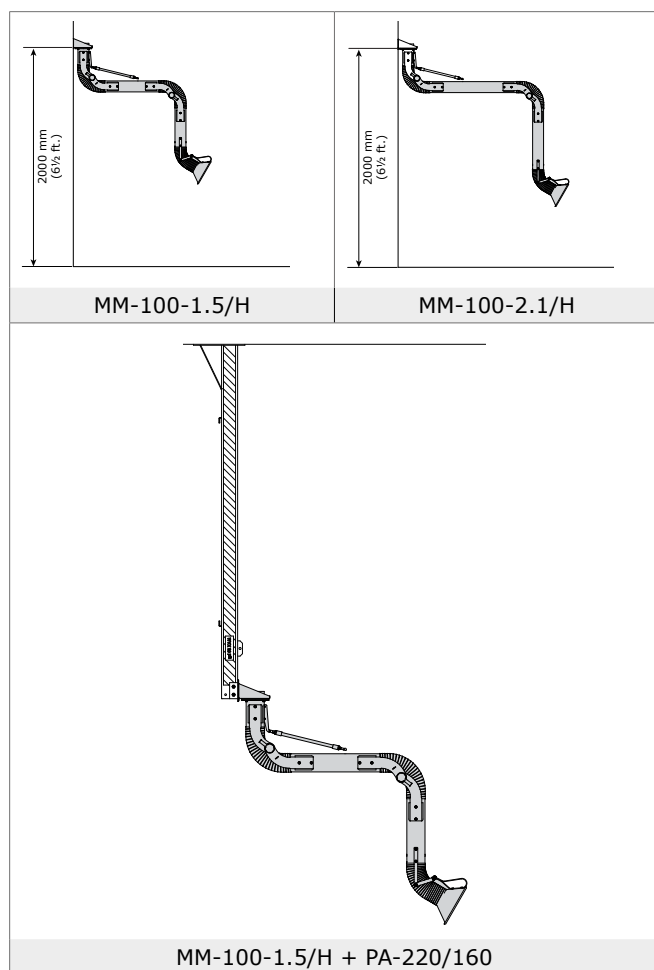
ARM MOVEMENT



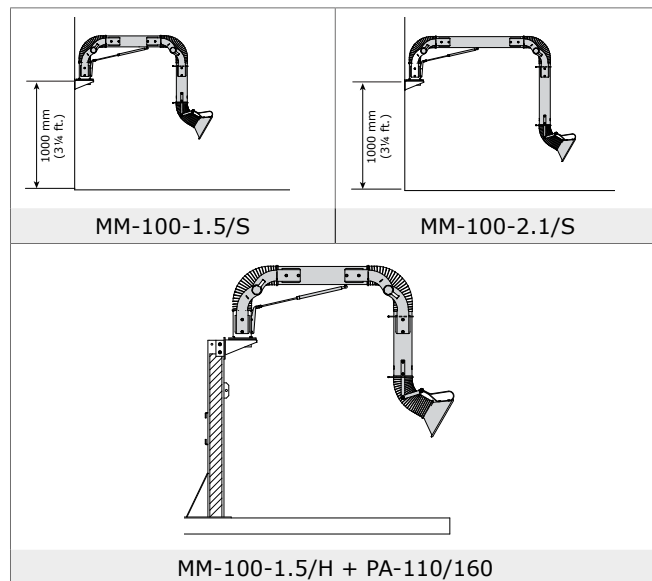
Remaining specifications

Type	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 19⅝ x 11¾ in.)	1200 x 400 x 300 mm (47 x 15¾ x 11¾ in.)	1600 x 500 x 300 mm (63 x 19⅝ x 11¾ in.)	1200 x 400 x 300 mm (47 x 15¾ x 11¾ in.)	1600 x 500 x 300 mm (63 x 19⅝ x 11¾ in.)
Max. number/pallet	10	6	10	6	10	6

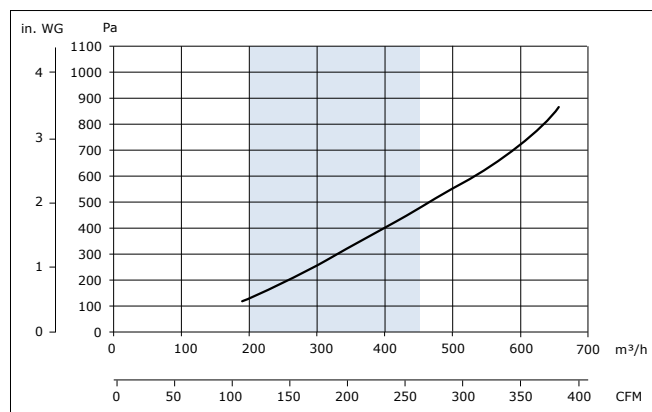
MOUNTING EXAMPLES "H" TYPES



MOUNTING EXAMPLES "S" TYPES



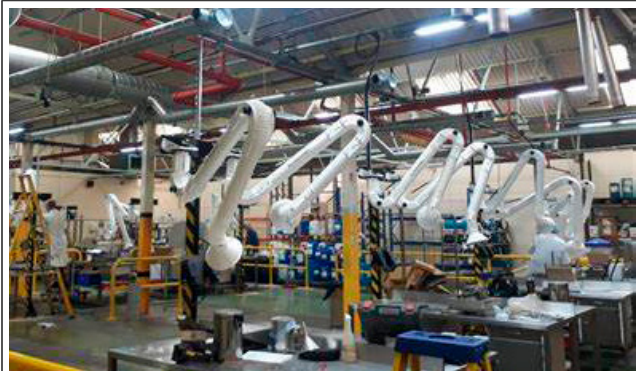
PRESSURE DROP



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	MiniMan-100
Article no.	refer to Order information
Product category	extraction arms
Version	141222/B
Always check the latest version on www.plymovent.com	