

# Mobiflex<sup>®</sup> 200-M and 400-MS

## Processes

Stick, TIG, MIG, Flux-Cored

## Product Number

K1653-2 Mobiflex<sup>®</sup> 200-M

K1741-1 Mobiflex<sup>®</sup> 400-MS

See back for additional models and complete specs

## Filter Type

Cellulose or High Efficiency  
Cellulose/Polyester

## Input Power

115/1/60

## Input Current

12A

## Weight/Dimensions (H x W x D)

See Page 4

## Mobile Welding Fume Extractors with Filtration.

The Mobiflex<sup>®</sup> 200-M and 400-MS are low vacuum systems for welding fume extraction and filtration. Their size and mobility make them ideal for smaller manufacturing facilities that require light to medium duty welding fume extraction<sup>(1)</sup> in variable locations.

### FEATURES

- ▶ **Generous airflow** – 735 CFM with LFA 3.1/4.1 extraction arm<sup>(2)</sup>.
- ▶ **Front casters and rear wheels** – provide mobility.
- ▶ **Low noise operation** – 69 dBA.
- ▶ **Internal spark arrestor** – also functions as a pre-filter for larger-sized particulate.
- ▶ **Choice of filter types** – cellulose or high efficiency cellulose/polyester.
- ▶ **Optimal motion and reach for work area** – choose from a variety of extraction arm models or select a hose/hood set.
- ▶ **One-year warranty** (30 day warranty on filter)

#### 200-M Model

- ▶ **Filter status indicator** – visual guide to remaining filter life.
- ▶ **Large filter capacity** – 538 ft<sup>2</sup> (50 m<sup>2</sup>)

#### 400-MS Model

- ▶ **RotaPulse<sup>®</sup> automatic cleaning system** – simplifies filter maintenance.
- ▶ **Large filter capacity** – 325 ft<sup>2</sup> (30 m<sup>2</sup>)



Shown:  
Mobiflex<sup>®</sup> 200-M with  
required Extraction Arm

Shown:  
Mobiflex<sup>®</sup> 400-MS with  
required Extraction Arm

### WHAT'S INCLUDED

- ▶ Filter
- ▶ Flexible hose for connecting extraction arm
- ▶ Factory-installed transformer relay kit
- ▶ 19 ft. (6 m) input power cord

### WHAT'S REQUIRED

- ▶ Extraction arm or hose/hood set
- ▶ Compressed air, 90-100 psi (Mobiflex<sup>®</sup> 400-MS only)

### INPUT



(1) Not suitable for use with cutting or arc gouging operations.

(2) CFM level is dependent upon arm length, fan type and system maintenance.

**PERFORMANCE**

**Mobiflex® 200-M Filter System**

The LongLife filter in the Mobiflex® 200-M has a surface area of 538 ft<sup>2</sup> (50 m<sup>2</sup>), making it one of the largest disposable filter cartridges in its class. The combination of filter size and unique 3D-pleated structure results in higher filter efficiency, longer filter life, and lower operational costs.

A filter status indicator located on the front of the Mobiflex® 200-M gradually moves from white to red as the filter becomes saturated with particulate, providing visual indication of when system maintenance and filter replacement is necessary.

A washable aluminum pre-filter removes larger-sized particulate and provides spark entrapment.



Mobiflex® 200-M Filter



Filter shown inside Mobiflex® 200-M

**Mobiflex® 400-MS Filter System**

The LongLife filter in the Mobiflex® 400-MS has a surface area of 325 ft<sup>2</sup> (30 m<sup>2</sup>). The combination of filter size and wedge-shaped filter pattern results in higher filter efficiency, longer filter life, and lower operational costs.

Unique to the Mobiflex® 400-MS is an electronic pressure differential system for filter cleaning. The system measures static air pressure as it enters and exits the filter cartridge and if the air pressure entering the filter unit is greater than the air pressure exiting the filter unit by a set amount, the electronic circuit activates the filter cartridge cleaning system.

The filter cleaning system uses compressed air released through multiple air jets to clean a section of the filter at each air burst. A complete cleaning cycle can also be activated by depressing a manual switch on the front of the control panel. Particulate blown off the filter cartridge settles into a plastic collection bin. When cleaning the filter cartridge is no longer effective, the electronic circuit will indicate a full filter cartridge by blinking the light on the front control panel.



Internal view of Mobiflex® 400-MS showing self-cleaning filter mechanism.

**Extraction Arms**

No matter if you are working in a small work station, under a low ceiling, or in a large fabrication area, one of Lincoln Electric's fume extraction arms is right for you. The flexible extraction arms are built the Lincoln® way—rugged and reliable. Low vacuum extraction arms are designed for high volume/low velocity air movement and enable the arm to be positioned at a distance of 6-12 inches (152-304 mm) from the welding fume source. The arms provide welders optimal motion and reach for their specific welding position(s) and work area.

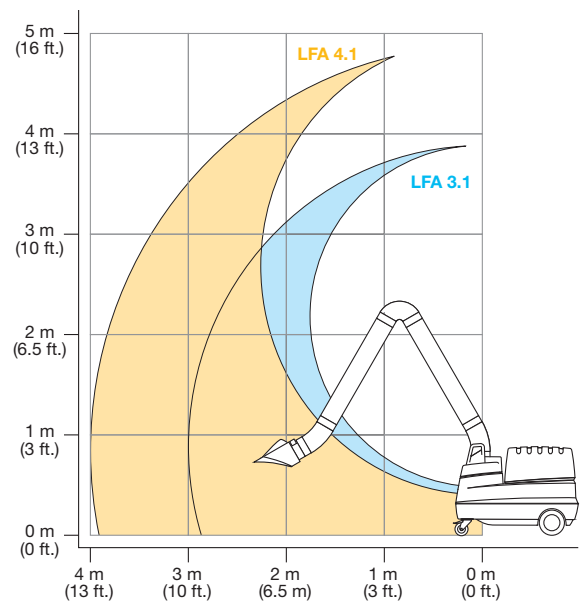
The arms come equipped with a 360° rotatable hood for optimal positioning allowing a larger work envelope with less repositioning of the arm and increased operator visibility. With the extraction arm correctly positioned, the welding fume particulate can be effectively drawn away from the operator's breathing zone, as well as eliminate the residual fume particulate that often rises and hovers within the facility.

With a unique spring-balanced internal mechanism, Lincoln's® fume extraction arm's provide a long-lasting, user-friendly solution. The extraction arm's external shell is made of solid, lightweight dent and scratch resistant tubing. Incorporated into the arm is an airflow throttle valve and extraction focus spoiler.

Some models include a clear halogen lamp and automatic start/stop feature. With the use of an arc sensor, the system automatically starts and stops the fan unit, providing hands-free operation and energy conservation. All this combined provides a highly effective system with maximum efficiency and minimal disruption to welder productivity.



Rotatable Hood



Mobiflex® 200-M and 400-MS Reach

## REQUIRED ACCESSORIES



**LFA 3.1 (10 ft.) and LFA 4.1 (13 ft.) Extraction Arm**  
Extraction arms with 360° rotatable hood, airflow throttle valve, extraction focus spoiler, and handle for easy positioning.  
**Order:**  
**K2633-1 LFA 3.1**  
**K2633-2 LFA 3.1** with arc sensor and lamp  
**K2633-3 LFA 4.1**  
**K2633-4 LFA 4.1** with arc sensor and lamp



**Hose and Hood Set**  
Completely flexible extraction hose with magnetic hood set. Ideal for those hard to access fume extraction applications. Hose is reinforced with outside steel rings to protect against wear and crushing. Diameter of hose is 5.75 in. (146 mm), length is 16.4 ft. (5 m). Includes one clamp.  
**Order K1668-1**



K1668-1 installed on Mobiflex® base unit

## EXTRACTION ARM SPECIFICATIONS

Product Name	Product Number	Arm Length ft. (m)	H x W in. (mm)	Net Wt. lb. (kg)
LFA 3.1	K2633-1	10 (3.1)	8 x 118 (208 x 3,000)	33 (15)
LFA 3.1 (w/Lamp & Sensor)	K2633-2	10 (3.1)	8 x 118 (208 x 3,000)	35 (16)
LFA 4.1	K2633-3	13 (4.1)	8 x 157 (208 x 4,000)	37.5 (17)
LFA 4.1 (w/Lamp & Sensor)	K2633-4	13 (4.1)	8 x 157 (208 x 4,000)	39.5 (18)

## RECOMMENDED ACCESSORIES TO EXPAND MACHINE CAPABILITIES



**GENERAL OPTIONS**  
**Starter Overload Switch for 230V**  
This overload switch retrofits the extraction unit for 230V operation.  
**Order K1494-3**



**Cellulose/Polyester High Efficiency Filter**  
Use as replacement for cellulose/polyester high efficiency filter included with model K1653-3 Mobiflex® 200-M. Filter class MERV 16 per ASHRAE 52.2. Filter can also be used in model K1653-2.  
**Order K1673-3**



**GENERAL OPTIONS**  
**MOBIFLEX® 400-MS ONLY**  
**Cellulose Filter**  
Use as replacement for cellulose filter included with model K1741-1 Mobiflex® 400-MS.  
**Order K1673-2**



**GENERAL OPTIONS**  
**MOBIFLEX® 200-M ONLY**  
**Cellulose Filter**  
Use as replacement for cellulose filter included with model K1653-2 Mobiflex® 200-M.  
**Order K1673-1**



**Activated Carbon Filter**  
Activated carbon filter installs over cellulose (K1673-1) or cellulose/polyester filter (K1673-3) and is designed to neutralize welding fume odors.  
**Order K1852-1**



**Cellulose/Polyester High Efficiency Filter**  
Use as replacement for cellulose/polyester high efficiency filter included with model K1741-2 Mobiflex® 400-MS. Filter class MERV 16 per ASHRAE 52.2. Filter can also be used in model K1741-1.  
**Order K1673-4**





## PRODUCT SPECIFICATIONS

Product Name	Product Number	Filter Type/ Filter Size	Input Power Voltage/Phase/Hertz	Input Current	H x W x D (inches) mm	Net Weight lbs. (kg)
Mobiflex® 200-M Base Unit	K1653-2	Cellulose 538 ft <sup>2</sup> (50 m <sup>2</sup> )	115/1/60	12A	36 x 32 x 48 (900 x 810 x 1210)	243 (111)
	K1653-3	Cellulose/Polyester 538 ft <sup>2</sup> (50 m <sup>2</sup> )				
Mobiflex® 400-MS Base Unit	K1741-1	Cellulose 325 ft <sup>2</sup> (30 m <sup>2</sup> )	115/1/60	12A	40 x 32 x 48 (1020 x 810 x 1210)	286 (130)
	K1741-2	Cellulose/Polyester 325 ft <sup>2</sup> (30 m <sup>2</sup> )				



The operation of welding fume control equipment is affected by various factors including proper use and positioning of the equipment, maintenance of the equipment and the specific welding procedure and application involved. Worker exposure level should be checked upon installation and periodically thereafter to be certain it is within applicable OSHA PEL and ACGIH TLV limits.

### CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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