

Mobiflex® 200-M 300-E and 400-MS/A

Processes

Stick, TIG, MIG, Flux-Cored

Product Number

CK1653-2 Mobiflex® 200-M

CK1741-3 Mobiflex® 300-E

CK1741-1 Mobiflex® 400-MS/A

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® 200-M, 300-E and 400-MS/A 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⁽¹⁾ in variable locations.

FEATURES

- ▶ **Generous airflow** – 735 CFM with LFA 3.1/4.1 extraction arm⁽²⁾.
- ▶ **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 ft² (50 m²)

400-MS Model

- ▶ **RotaPulse® automatic cleaning system** – simplifies filter maintenance.
- ▶ **Large filter capacity** – 325 ft² (30 m²)

300-E Model

Electrostatic Precipitator — washable filter.
Ideal for oily welding fume



Shown:
Mobiflex® 400-MS with
required Extraction Arm

Shown:
Mobiflex® 200-M 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

INPUT



WHAT'S REQUIRED

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

⁽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 ft² (50 m²), 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® 400-MS Filter System

The LongLife filter in the Mobiflex® 400-MS has a surface area of 325 ft² (30 m²). 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.

Mobiflex 300 Electrostatic Precipitator System

The Mobiflex 300-E uses a washable pre-filter for larger particles and captures fume using an electrostatic charges to precipitate fume onto washable collection plates. Ionizing wires put a charge on the flue gas. These attach to fume particles in the air stream which are then attracted to the positive and negative collection plates, where they precipitate on the surface. When the collection cell is removed, the precipitated particles can be washed off with water and detergent, and the cell can be reused. This system is ideal for oily fume that would plug up a media filter.

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 the Lincoln Electric's fume extraction arms is right for you. The flexible extraction arms are built to 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 optional 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 large 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.



Rotatable Hood



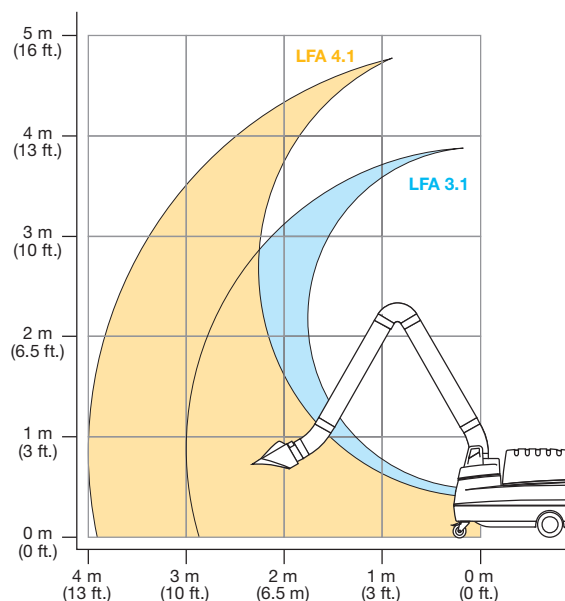
Mobiflex® 200-M Filter



Filter shown inside Mobiflex® 200-M



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



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:

CK2633-1 LFA 3.1
CK2633-2 LFA 3.1 with arc sensor and lamp
CK2633-3 LFA 4.1
CK2633-4 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 6 in. (160 mm) or 8 in. (205 mm), length is 16.5 ft. (5 m).



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	CK2633-1	10 (3.1)	8 x 118 (208 x 3,000)	33 (15)
LFA 3.1 (w/Lamp & Sensor)	CK2633-2	10 (3.1)	8 x 118 (208 x 3,000)	35 (16)
LFA 4.1	CK2633-3	13 (4.1)	8 x 157 (208 x 4,000)	37.5 (17)
LFA 4.1 (w/Lamp & Sensor)	CK2633-4	13 (4.1)	8 x 157 (208 x 4,000)	39.5 (18)

EXTRACTION HOSE SPECIFICATIONS

Product Name	Product Number	Description	H x W in. (mm)	Net Wt. lb. (kg)
SUS 5/160	CK1668-1	160 mm Suction Set	6.25 (160) 16.5 (5)	10
EXS 5/160	CK1668-2	160 mm Extension Set	6.25 (160) 16.5 (5)5	5
SUS 5/200	CK1668-21	200 mm Suction Set	8 (200) 16.5 (5)8	12
EXS 5/200	CK1668-22	200 mm Extension Set	8 (200) 16.5 (5)8	7

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



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



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



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



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



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	HxWxD (inches) mm	Net Weight lbs. (kg)
Mobiflex® 200-M Base Unit	K1653-2	Cellulose 538 ft² (50 m²)	115/1/60	12A	36 x 32 x 48 (900 x 810 x 1210)	243 (111)
	K1653-3	Cellulose/Polyester 538 ft² (50 m²)				
Mobiflex® 400-MS Base Unit	K1741-1	Cellulose 325 ft² (30 m²)	115/1/60	12A	40 x 32 x 48 (1020 x 810 x 1210)	286 (130)
	K1741-2	Cellulose/Polyester 325 ft² (30 m²)				

Extraction Packages arrive complete with the base unit and the extraction arm or hose, ready for quick assembly.
AST/WL arms have the Work Lamp/Arc Sensor and Hood Switch pre-mounted and wired, with a quick connect plug ready to go.

Extraction Package	LFA 3.1		LFA 4.1		Hose and Hood Set	
	STANDARD	ARC SENSOR	STANDARD	ARC SENSOR	SUS 160	SUS 205
MOBIFLEX 200M	CK0901-23	CK0901-26	CK0901-24	CK0901-28	CK0901-25	CK0901-27
MOBIFLEX 300-E	CK0901-33	CK0901-36	CK0901-34	CK0901-38	CK0901-35	CK0901-37
MOBIFLEX 400MS/A	CK0901-43	CK0901-46	CK0901-44	CK0901-48	CK0901-45	CK0901-47



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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