

Mobiflex™ 400-MS

Mobile Welding Fume Extractor

Lincoln Electric's® Mobiflex™ 400-MS is a portable, low vacuum/high volume self-cleaning filtration system designed for heavy duty extraction and filtration of welding fumes.

The lightweight and rugged design of the Mobiflex™ 400-MS along with the standard front caster and rear wheels allows for easy portability. It is ideal for facilities that require welding fume extraction in multiple locations, including maintenance departments, general fabrication and job shops, and industrial welding environments. Because of the self-cleaning function, the Mobiflex™ 400-MS can also be used in production environments where welding duty cycles are longer and more frequent.

The Mobiflex™ 400-MS can be configured with Lincoln's LFA 3.1 or LFA 4.1 fume extraction arms or with the 152 mm (6") diameter, 5 m (16') long flexible hose and hood set. Lincoln Electric's® fume extraction arms are designed to provide welders optimal motion and reach for their specific welding position(s) and work area. The arm lengths range from 3.1 m (10 ft.) to 4.1 m (13 ft.). For hard to reach areas such as confined spaces, the flexible hose and set can be easily carried to locations where an extraction arm just is not feasible.

The internal extraction fan is designed specifically for weld applications. It extracts weld fume through the arm, into the internal spark arrestor and finally through the self-cleaning filter cartridge capturing the welding fume particulate. As the particulate is collected on the outside of the filter cartridge and builds up, the filter is then automatically cleaned causing the particulate to fall into the collection bin for easy, hands free disposal.

The Mobiflex™ 400-MS filter is recommended for consumable use of approximately 6,000 lbs. (2722 kg) of MIG wire or 4,000 lbs. (1814 kg) of stick or flux-cored wire before replacing.

Filter performance will be affected by process and application variables including: base metal(s), consumables(s), and coatings (oil) if applicable.

Processes

Stick, TIG, MIG, Flux-Cored

Advantage Lincoln

- Generous 735 CFM airflow with LFA 3.1/4.1 extraction arm⁽¹⁾.
- Filter efficiency up to 99.8%⁽²⁾.
- Generous 30 m² (325 ft²) filter cartridge with ExtraCoat® pretreatment.
- Electronic differential pressure system monitors internal static pressure and controls filter cleaning.
- Indicator light for saturated filter.
- RotaPulse® automatic filter cleaning system.
- Internal aluminum mesh spark arrestor.

- Low noise operation: 69dBA.
- One-year warranty on unit; 30 days on filter, hoses and hose adaptors.

Mobiflex™ 400-MS System includes:

- Filter, plastic housing, 8" flexible hose, 6 meter (19 ft.) 115VAC input power cord and instruction manual.

NOTE: Extraction Arm of your choice is required.

⁽¹⁾ CFM level is dependent upon arm length, fan type and system maintenance.

⁽²⁾ Per Din EN 60335-2-69 Standards.



Shown:
Mobiflex™ 400-MS with
optional Extraction Arm

Input



TECHNICAL SPECIFICATIONS

Product Name	Product Number	Filter Type/ Filter Size	Input Power	Input Current	Dimensions H x W x D mm (in.)	Net Weight kg (lbs.)
Mobiflex™ 400-MS Base Unit	K1741-1	Pretreated Cellulose 30 m ² (325 ft ²)	115/1/60	12A	1020 x 810 x 1200 (40 x 32 x 48)	130 (286)

PERFORMANCE

Self-Cleaning Filter

The Mobiflex 400-MS filter has a surface area of 30 m² (325 ft²) with ExtraCoat® pretreatment and the unique 3D-pleated structure results in a high filter efficiency, a longer life, and low operational costs. The ExtraCoat® pretreatment fills the micro pleats in the filter and reduces moisture. This increases its efficiency from the start of usage.

An electronic pressure differential system measures the static air pressure as it enters and exits the filter cartridge. If the air pressure entering the filter unit is greater than the air pressure exiting the filter unit, the electronic circuit signals the cleaning system to clean the filter cartridge. The cleaning of the filter, segment by segment, with compressed air results in maximum airflow.

Compressed air from the internal tank releases through multiple air jets to clean one section of the filter at each air burst. A complete cleaning cycle can be activated by depressing a manual switch on

the front of the control panel. The particulate is blown off the filter cartridge into a plastic collection bin. If 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.



Self-Cleaning Filter

Extraction Arms

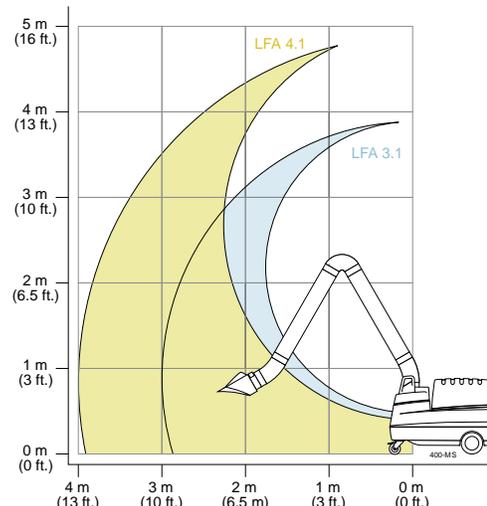
No matter if you are working in a small work station, under a low ceiling, or in a large fabrication area, one of Lincoln Electric's® various fume extraction arms for welding will work for you. The flexible extraction arms are built the Lincoln® way—rugged and reliable. Low vacuum extraction arms are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

The arms come equipped with the 360° rotatable hood for optimal positioning to welding source. This allows 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 arms provide a long-lasting, user-friendly solution. The extraction arms external shell is made of solid, lightweight 203 mm (8 in.) diameter dent and scratch resistant tubing. Incorporated into the arm is an airflow throttle valve and extraction focus spoiler. A clear halogen lamp and automatic start/stop are available as recommended optional features. With the use of an arc sensor, the system automatically starts and stops the fan unit, providing hands-free operation and helping to conserve energy. All this combined provides a highly effective system with maximum efficiency and minimal disruption to welder productivity.



Rotatable Hood



Mobiflex™ 400-MS Reach

RECOMMENDED OPTIONS



GENERAL OPTIONS

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 every positioning. Hood lamp and automatic start/stop models available.

Order:

K2633-1 LFA 3.1

K2633-2 LFA 3.1 with lamp/arc sensor

K2633-3 LFA 4.1

K2633-4 LFA 4.1 with lamp/arc sensor



Starter Overload Switch for 230V

This overload switch retrofits the extraction unit for 230V operation.
Order K1494-3



LongLife® 400-MS Filter

Standard replacement LongLife® filter with ExtraCoat® treatment that provides a 99.8% filter efficiency.

Order K1673-2



Hose and Hood Set

Completely flexible extraction hose with magnetic hood set. Ideal for those hard to access fume extraction applications. Comes with 152 mm (6") diameter hose and reinforced outside steel rings to protect against wear and crushing.

Order K1668-1



Lamp Kit with Arc Sensor

To conserve energy and extend the life of your system, order the lamp kit with arc sensor. It senses an arc while the lamp illuminates the work area. The arc sensor turns on the unit when it senses an arc flash and automatically turns off 20 seconds after the arc goes out. Also includes a manual override on/off switch that works independently of the arc sensor. Kit includes work lamp with arc sensor housing, switch bank, and wiring.

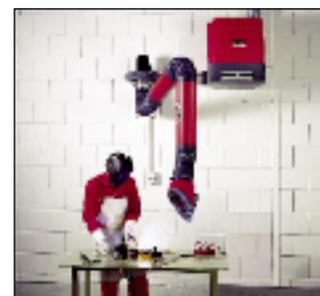
Order K1706-2

Consult your local Lincoln Representative to help you decide which options are right for you!

MOBIFLEX™ 400-MS ORDER FORM

PRODUCT DESCRIPTION	ORDER NUMBER	QUANTITY	PRICE
Mobilflex™ 400-MS Base Unit	K1741-1		
Choose an Extraction Arm or Hose			
LFA 3.1 – 10 ft. Extraction Arm	K2633-1		
LFA 3.1 – 10 ft. Extraction Arm with Lamp/Arc Sensor	K2633-2		
LFA 4.1 – 13 ft. Extraction Arm	K2633-3		
LFA 4.1 – 13 ft. Extraction Arm with Lamp/Arc Sensor	K2633-4		
Hose and Hood Set, 5 meter (16 ft.)	K1668-1		
Options			
Lamp Kit with Arc Sensor	K1706-2		
Starter Overload Switch for 230V	K1494-3		
Filter Options			
LongLife® 400-MS Filter	K1673-2		
	TOTAL:		

Environmental Systems Family



High & Low Vacuum Solutions



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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