



Fume Extraction Arms

LOW VACUUM FLEXIBLE EXTRACTION ARMS



LINCOLN[®]
ELECTRIC



Fume Extraction Arms

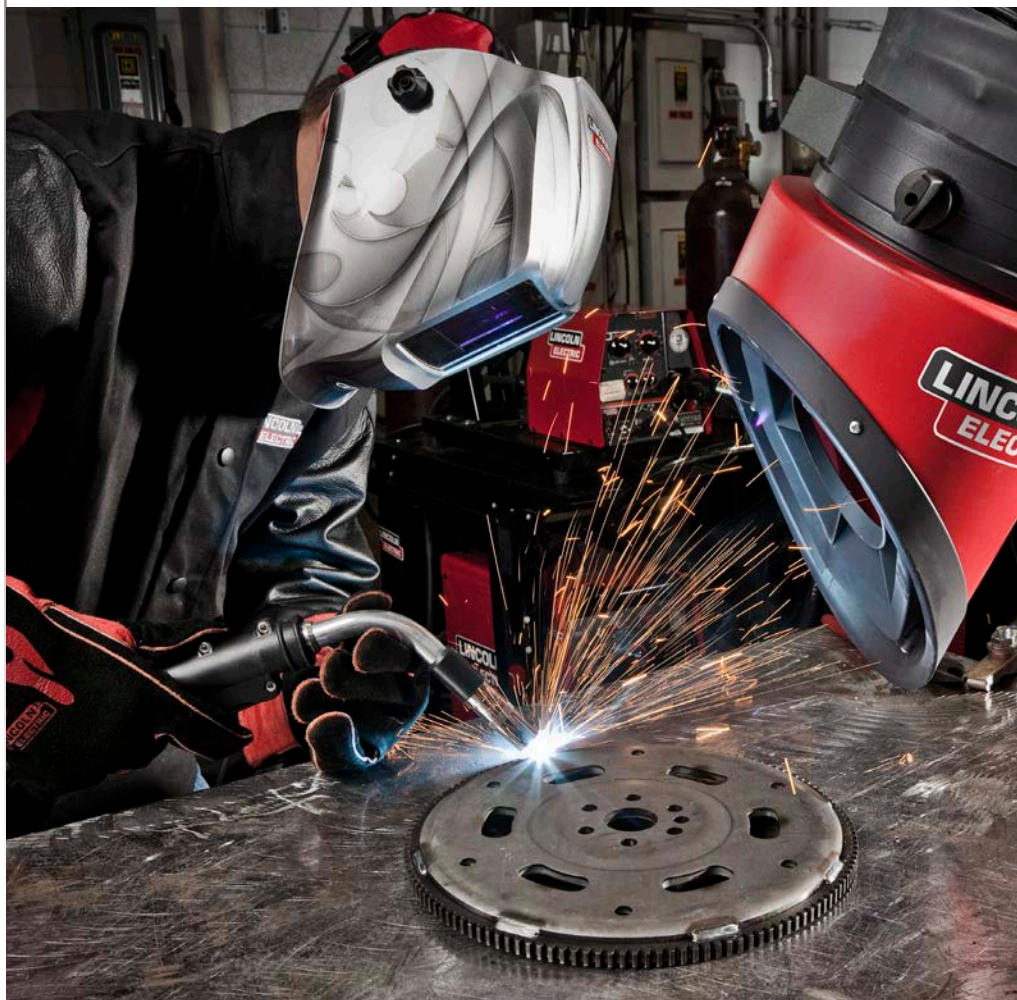
FEATURES:

- Ultra-easy positioning
- Minimal maintenance
- 360° rotatable hood

These flexible extraction arms are built the Lincoln Electric way – rugged and reliable. Designed with the welder in mind, the arms are equipped with a 360° rotatable hood for optimal positioning at the welding arc. With the hood positioned 6-12 in. (152-304 mm) from the welding source, the arc remains clearly visible while the fumes are extracted.

Fume Extraction Arms are ideally used for:

- ▶ Welding



CONSTRUCTION

LFA and LTA extraction arms from Lincoln Electric have a solid, lightweight aluminum internal skeleton and an 8 in. (203 mm) diameter dent and scratch resistant outer plastic shell. Incorporated into the arm is a throttle valve that can be set to partial, full or no airflow setting at the opening. The arms also feature an extraction focus spoiler, which directs the air into the hood.

The arm's balance system provides stability and easy positioning. When the arm is raised, it is free to move in any direction. When the arm is positioned, it is fixed into place.

PERFORMANCE

The extensive positioning capability of these arms result in a larger work envelope requiring less repositioning. Operator visibility is also enhanced.

A correctly positioned extraction arm effectively draws welding fume particulate away from the operator's breathing zone and helps to reduce the amount of residual fume particulate that often rises and hovers within a facility.

An optional lamp kit with arc sensor is available. Through the use of an arc sensor, the system automatically starts and stops the fan, providing hands-free operation and energy conservation.

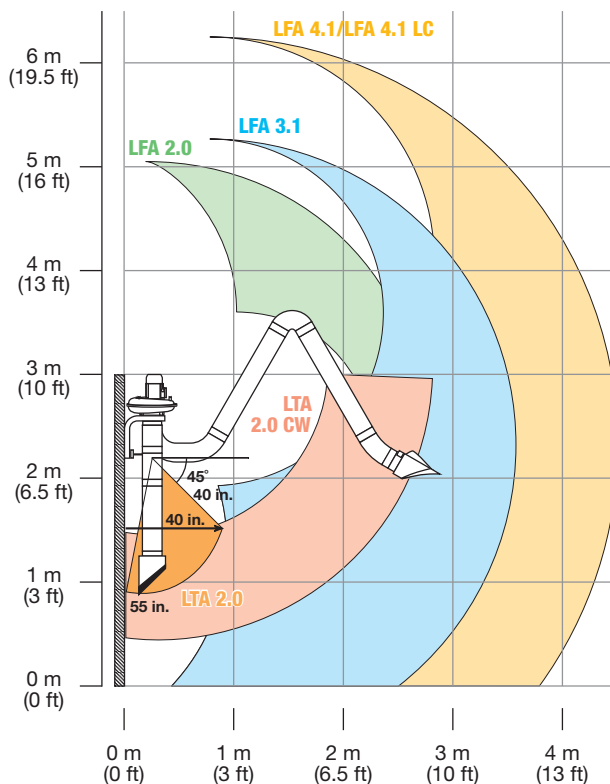


Figure 1 - Extraction Arm Reach

RECOMMENDED ACCESSORIES

SF2400 Stationary Fan

The 1 HP, 115/1/60 fan has self-cleaning concave blades and provides a maximum open air flow of 1200 CFM with extraction arm. Requires a mounting bracket.

Order **K1656-1**



SF2400 Wall Mounting Bracket

Use K1657-1 Wall Mounting Bracket with LFA 3.1 and 4.1. Use K1657-2 with LFA 2.0, LTA 2.0-C.W. and LFA 4.1-LC.

Order

K1657-1 for LFA 3.1, 4.1 and 4.1-LC

K1657-2 for LTA 2.0 and LFA 2.0



SF4200 Stationary Fan

The 2 HP, 230/3/60 fan has self-cleaning concave blades and provides a maximum open airflow of 1750 CFM with extraction arm. Includes integrated provision for mounting to a vertical surface.

Order **K1656-4**



Lamp Kit with Arc Sensor

Mounted in the lamp housing, the arc sensor turns the fan on when sensing the arc flash, and turns off 20 seconds after the arc ends. Hood mounted switches turn the unit on and off independently of the arc sensor. Kit includes lamp housing with arc sensor, control box, interconnect wire, hood mounted lamp/fan switch and instruction manual.

Order

K1669-4 for SF2400 Stationary Fan

K1669-10 for SF4200 Stationary Fan



230V Conversion Kit for SF2400 Fan

Provides 230V operation of SF2400 Stationary Fan when using Lamp Kit with Arc Sensor.

Order **K1750-1**



SF2400 Starter Overload Switch for 115V

When a Lamp Kit with Arc Sensor is NOT used, this overload switch retrofits the extraction unit for 115V operation of SF2400 Fan.

Order **K1494-2**



RECOMMENDED ACCESSORIES

SF2400 / SF4200

Starter Overload Switch for 230V Provides simple on/off operation when a Lamp Kit with Arc Sensor is NOT used. This overload switch retrofits the extraction unit for 230V operation of fan.



Order

K1494-3 for SF2400 Stationary Fan

K1494-10 SF4200 Stationary Fan

EC 2 7 ft. (2.1 m) and EC 4 14 ft. (4.3 m) Extension Cranes

For large work areas. Extend your reach 7 ft. (2 m) or 14 ft. (4 m). A side-to-side hinge has a unique spring controlled lock to hold the arm in place for steady positioning. Each crane includes support boom, mounting plate, 8 in. (203 mm) tubing, flexible hose, and mounting brackets.



Order

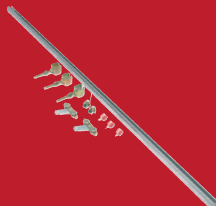
K1671-1 for EC 2

K1671-2 for EC 4

Feeder Hanging Rail

Use with extension crane to slide mount a wire feeder.

Order **K1672-1**



WALL MOUNTED EXTRACTION ARMS TECHNICAL DATA:

► Processes: Stick, TIG, MIG, Flux-Cored		► Dimensions (H x W):	
► Product Number:		LFA 2.0	8 x 85 in. (206 x 2,160 mm)
LFA 2.0	K1655-5	LTA 2.0	8 x 39.5-55 in. (208 x 1,000-1,400 mm)
LTA 2.0	K1655-3	LTA 2.0-CW	8 x 62-100.5 in. (208 x 1,575-2,553 mm)
LTA 2.0-CW	K1655-7	LFA 3.1	8 x 118 in. (208 x 3,000 mm)
LFA 3.1	K1655-1	LFA 4.1	8 x 157 in. (208 x 4,000 mm)
LFA 4.1	K1655-2	LFA 4.1-LC*	8 x 157 in. (208 x 4,000 mm)
LFA 4.1-LC*	K1655-6	► Net Weight:	
► Arm Length:		LFA 2.0	33 lbs (15 kg)
LFA 2.0	6.5 ft. (2.0 m)	LTA 2.0	15.4 lbs (7 kg)
LTA 2.0	Retracts from 3-4.5 ft. (1-1.5 m)	LTA 2.0-CW	59.5 lbs (27 kg)
LTA 2.0-CW	Retracts from 5-8.2 ft. (1.5-2.5 m)	LFA 3.1	33 lbs (15 kg)
LFA 3.1	10 ft. (3.1 m)	LFA 4.1	37 lbs (17 kg)
LFA 4.1	13 ft. (4.1 m)	LFA 4.1-LC*	33 lbs (15 kg)
LFA 4.1-LC*	13 ft. (4.1 m)	► CFM (with SF2400 Fan and no filtration)	
		LFA 2.0	760
		LTA 2.0	780
		LTA 2.0 CW	760
		LFA 3.1	760
		LFA 4.1	760
		LFA 4.1-LC*	760

* LC Model designed for low ceiling applications.

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.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

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.



The Lincoln Electric Company Automation Division

22221 Saint Clair Avenue
Cleveland, Ohio 44117-2522 USA

1.888.935.3877

WeldFumeControl@LincolnElectric.com
www.LincolnWeldFumeControl.com

www.lincolnelectric.com/safety