

Statiflex® 200-M and 400-MS

Processes

Stick, TIG, MIG, Flux-Cored

Product Number

K1654-1 Statiflex® 200-M Single Arm Base Unit

K1742-1 Statiflex® 400-MS Single Arm Base Unit

See back for additional models and complete specs

Filter Type

Cellulose or
High Efficiency
Cellulose/Polyester

Weight/Dimensions (H x W x D)

See page 4

Wall-Mounted Welding Fume Extractors

The Statiflex® 200-M and 400-MS base units are stationary, wall-mounted low vacuum systems designed for light to medium duty extraction and filtration of welding fume⁽¹⁾. A self-cleaning filter is standard on the Statiflex® 400-MS. Statiflex® units are ideal for facilities with fixed location work stations and little available floor space including general fabrication, job shops, welding schools, and maintenance departments.

FEATURES

- ▶ **Generous airflow** - 735 CFM with LFA 3.1 or 4.1 extraction arms and SF 2400 fan⁽²⁾.
- ▶ **Internal spark arrestor** - Also functions as a pre-filter for larger-sized particulate.
- ▶ **Choice of filter types** - Cellulose or high efficiency cellulose/polyester.
- ▶ **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).
- ▶ **Flexible configuration** - choose single or dual arm system.

400-MS Model

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

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

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



Shown:
Statiflex® 200-M Dual Arm Base Unit
with Fan Units and Extraction Arms



Shown:
Statiflex® 400-MS Base Unit with
Extraction Arm and Fan unit

WHAT'S INCLUDED

Single Arm 200-M and 400-MS Models

- ▶ Filter
- ▶ Plastic housing
- ▶ One 6 inch (152mm) diameter, 4 ft (1m) length hose
- ▶ Two hose clamps
- ▶ Wall-mounting bracket

Dual Arm 200-M Model

- ▶ Filter
- ▶ Plastic housing
- ▶ Two 6 inch (152mm) diameter, 4 ft (1m) length hose
- ▶ Two non-return valves
- ▶ Four hose clamps
- ▶ Wall-mounting bracket

WHAT'S REQUIRED

- ▶ Extraction arm(s)
- ▶ Compressed air, 90-100 psi (Statiflex® 400-MS only)

Statiflex® 200-M Filter System

The LongLife filter in the Statiflex® 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 washable aluminum pre-filter removes larger-sized particulate and provides spark entrapment.

Statiflex® 400-MS Filter System

The LongLife filter in the Statiflex® 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 Statiflex® 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 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.

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. 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.

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.



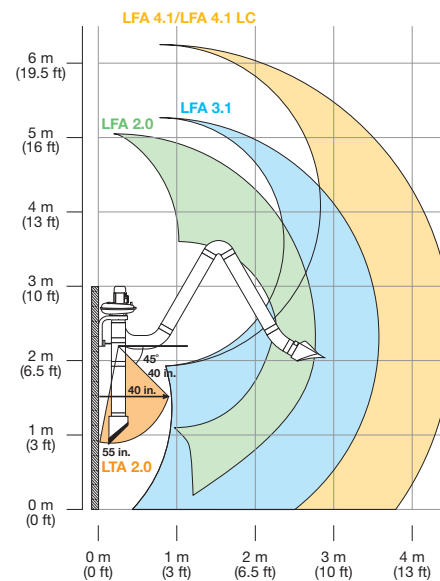
Rotatable Hood



LongLife Filter shown in Statiflex® 200-M Single Arm Base Unit.



Statiflex® 200-M Dual Arm installation.



Statiflex® 200-M and 400-MS Reach

BUILDING A SYSTEM

The flexibility of the Statiflex® system allows you to create a configuration that will meet your application requirements.

Step 1 Choose Base Unit – One required.

BASE UNIT				
Product Name	Filtration System	Product Number		
		Single Arm Base Unit	Single Arm Base Unit with High Efficiency Filter	Dual Arm Base Unit
Statiflex® 200-M	Disposable	K1654-1	K1654-3	K1654-2
Statiflex® 400-MS	Self-Cleaning	K1742-1	K1742-2	

Step 2 Choose Extraction Arm – One required for Single Arm Base Units, two required for Dual Arm Base Units.

EXTRACTION ARM				
Product Name	Product Number	Arm Length ft. (m)	H x W in. (mm)	Net Weight lbs. (kg)
LFA 2.0	K1655-5	6.5 (2)	8 x 85 (208 x 2,160)	33 (15)
LTA 2.0 (Telescopic)	K1655-3	Retracts from 3-4.5 (1-1.5)	8 x 39.5-55 (208 x 1,000-1,400)	15.4 (7)
LTA 2.0-CW	K1655-7	5-8.2 (1.5-2.5)	8 x 62-100.5 (208 x 1575-2553)	59.5 (27)
LFA 3.1	K1655-1	10 (3.1)	8 x 118 (208 x 3,000)	33 (15)
LFA 4.1	K1655-2	13 (4.1)	8 x 157 (208 x 4,000)	37.5 (17)
LFA 4.1-LC (Low Ceiling)	K1655-6	13 (4.1)	8 x 157 (208 x 4,000)	37.5 (17)

Step 3 Choose Extraction Arm Mounting – Wall or Extension Crane. One item required from each subcategory for Single Arm Base Units, two items required from each subcategory for Dual Arm Base Units.

WALL MOUNT	
Product Name	Product Number
WALL MOUNTING HARDWARE	
Bracket for LFA 2.0 and LTA 2.0 Extraction Arms	K1657-2
Bracket for LFA 3.1, 4.1 and 4.1-LC Extraction Arms	K1657-1
STARTING CONTROL	
Lamp with Arc Sensor ⁽¹⁾	K1669-4 ⁽¹⁾
Starter/Overload Switch ⁽²⁾ for SF 2400 Fan – 115V	K1494-2 ⁽²⁾
Starter/Overload Switch ⁽²⁾ for SF 2400 Fan – 230V	K1494-3 ⁽²⁾
FAN	
SF 2400 (1 HP)	K1656-1

EXTENSION CRANE	
Product Name	Product Number
EXTENSION CRANE	
EC 2 – 7 ft (2m) long	K1671-1
EC 4 – 14 ft (4m) long	K1671-2
STARTING CONTROL	
Lamp with Arc Sensor ⁽¹⁾	K1669-10 ⁽¹⁾
Starter/Overload Switch ⁽²⁾ for SF 4200 Fan	K1494-10 ⁽²⁾
FAN	
SF 4200 (2 HP)	K1656-4

(1) Required for Statiflex® 400-MS.

(2) For Statiflex® 200-M only

REQUIRED ACCESSORIES

GENERAL OPTIONS

LTA 2.0 Telescopic Fume Extraction Arm

Arm retracts from 1 meter (3 ft.) to 1.5 meters (4.5 ft.) and pivots 45°. Optional Lamp Kit with Arc Sensor available. Includes wall mounting bracket.
Order K1655-3

(Shown with SF 2400 Fan)



(Shown with SF 2400 Fan)

LFA 2.0 (6.5 ft.), LFA 3.1 (10 ft.) and LFA 4.1 (13 ft.) Fume Extraction Arms

Friction balanced extraction arm with 360° rotatable hood, airflow throttle valve and extraction focus spoiler. Optional Lamp Kit with Arc Sensor available.

Order
K1655-5 for LFA 2.0 (6.5 ft.)
K1655-1 for LFA 3.1 (10 ft.)
K1655-2 for LFA 4.1 (13 ft.)



(Shown with SF 2400 Fan)

LFA 4.1-LC Low Ceiling Extraction Arm

4.1 meter (13 ft.) spring balanced low ceiling extraction arm with 360° rotatable hood, airflow throttle valve and extraction focus spoiler. Optional Lamp Kit with Arc Sensor available. Ideal for facilities with ceiling heights of 3.1 meters (10 ft.) or less.
Order K1655-6

REQUIRED ACCESSORIES CONT.



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 extinguishes. 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. Required for Statiflex® 400-MS.

Order

K1669-4 SF 2400 Fan
K1669-10 SF 4200 Fan



SF 2400/SF 4200 Starter Overload Switch for 230V

When a Lamp Kit with Arc Sensor is NOT used, this overload switch retrofits the extraction unit for 230V operation of SF 2400 Fan. For Statiflex® 200-M only.

Order

K1494-3 SF 2400 Fan
K1494-10 SF 4200 Fan



SF 4200 Fan

The 2 HP, 230/3/60 fan has self-cleaning concave blades and provides a minimum airflow of 1750 CFM. Includes mounting bracket.

Order K1656-4



SF 2400 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 SF 2400 Fan. For Statiflex® 200-M only.

Order K1494-2



SF 2400 Fan

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

Order K1656-1

SF 2400 Wall Mounting Bracket

Use K1657-1 Wall Mounting Bracket with LFA 3.1, LFA 4.1 or LFA 4.1-LC. Use K1657-2 with LTA 2.0 telescopic extraction arm, LFA 2.0 or EC 2 and EC 4 extension cranes.

Order

K1657-1 for LFA 3.1, 4.1, and 4.1-LC
K1657-2 for LTA 2.0, LFA 2.0, EC 2, and EC 4



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

For large work areas, extend your reach 2 meters (7 ft.) or 4 meters (14 ft.). 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" tubing, flexible hose, and mounting brackets.

Order

K1671-1 for EC 2
K1671-2 for EC 4

RECOMMENDED ACCESSORIES TO EXPAND MACHINE CAPABILITIES

GENERAL OPTIONS

230V Conversion Kit for SF 2400 Fan

Provides 230V operation of SF 2400 Fan when using Lamp Kit with Arc Sensor.

Order K1750-1



GENERAL OPTIONS STATIFLEX® 200-M ONLY

Cellulose Filter

Use as replacement for cellulose filter.

Order K1673-1



Cellulose/Polyester High Efficiency Filter

Use as replacement for cellulose/polyester high efficiency filter. Filter class MERV 16 per ASHRAE 52.2. Filter can also be used in models originally equipped with cellulose filter.

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



Non-Return Valve

Converts Statiflex® 200-M to exhaust only (no filtration). Remove filter and install Non-Return Valve.

Order K1743-2



Feeder Hanger Arm

Use with either extension crane to slide mount a wire feeder on the first section of the crane.

Order K1672-1



Air Exhaust Silencer

Reduces exhaust air noise from filter unit. Noise reduction on airflow 20 dB(A) (indicative only).

Order K1534-2



GENERAL OPTIONS STATIFLEX® 400-MS ONLY

Cellulose Filter

Use as replacement for cellulose filter.

Order K1673-2



Cellulose/Polyester High Efficiency Filter

Use as replacement for cellulose/polyester high efficiency filter. Filter class MERV 16 per ASHRAE 52.2. Filter can also be used in models originally equipped with cellulose filter.

Order K1673-4



PRODUCT SPECIFICATIONS

Product Name	Product Number	Filter Type	Filter Size ft. ² (m ²)	H x W x D in. (mm)	Net Weight lbs. (kg)
Statiflex® 200-M Single Arm Base Unit	K1654-1	Pretreated Cellulose	538 (50)	36 x 32 x 29 (900 x 810 x 730)	66 (30)
	K1654-3	Cellulose/Polyester			
Statiflex® 200-M Dual Arm Base Unit	K1654-2	Pretreated Cellulose	538 (50)	36 x 32 x 29 (900 x 810 x 730)	66 (30)
	K1742-1	Cellulose	325 (30)	41 x 27 x 26 (1040 x 670 x 660)	187 (85)
Statiflex® 400-MS Single Arm Base Unit	K1742-2	Cellulose/Polyester			

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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