



ENVIRONMENTAL SYSTEMS Quick Look

Environmental Systems

DownFlex® 200-M, 400-MS/A & 100-NF

Dual Purpose Workbench & Extraction Tables

Product Name	Product Number	Input Power (Voltage/Phase/Hertz)	Input Current	H x W x D In. (mm)	Net Weight lbs. (kg)
DownFlex® 200-M	K2751-2	208/230/460/3/60	11/10/5A	36.2 x 54.3 x 39.4 (920 x 1380 x 1005)	540 (245)
DownFlex® 400-MS/A	K2751-3	N/A	N/A	36.2 x 53.8 x 35.9 (920 x 1366 x 911)	562 (255)
DownFlex® 100-NF	K2751-1	N/A	N/A		330 (150)

The compact DownFlex® table can be placed almost anywhere in the shop. It combines a workbench and extraction unit design specifically for the removal of welding fume. The DownFlex® table can be used to remove particulate and dust from metal grinding applications, making the table a safe and effective workplace.

Note suitable for grinding aluminum, magnesium or other explosive materials.

For more information see publication MC13-38

Environmental Systems

Miniflex®

Portable Welding Fume Extractor

Product Name	Product Number	Input Power (Voltage/Phase/Hertz)	Input Current	H x W In. (mm)	Net Weight lbs. (kg)
Miniflex®	K3972-1 K3973-1	115/1/50/60 230/1/50/60	14.6A 7.4A max.	28-3/4 x 16-1/2 (730 x 420)	38 (17)

The Miniflex® is a portable and effective solution for the removal and filtration of welding fumes in confined or limited access spaces. Unlike other bulkier welding fume extractors, the Miniflex® leads the industry in portability and ease of use. The Miniflex® is a high vacuum filtration of welding fume from light duty welding applications.

Shown: K3972-1 Miniflex® Welding Fume Extractor 115V Shown with EN Extraction Nozzle K2389-5

For more information see publication MC12-73

Environmental Systems

Fume Extraction Guns

- Designed for MIG, Metal-Cored and Gas-Shielded Flux-Cored welding, these lightweight flexible welding guns are ideal for any shop welding application.
- Ergonomic design offers optimum feel and balance in all welding positions.

For more information, please contact Lincoln Electric.

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.

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.

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The Lincoln Electric Company
22801 St. Clair Avenue • Cleveland, OH 44117

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Environmental Systems

X-Tractor® 1GC

Portable Welding Fume Extractor

Product Name	Product Number	Filter Type/Filter Area	Input Power (Voltage/Phase/Hertz)	Input Current	H x W x D In. (mm)	Net Weight lbs. (kg)
X-Tractor® 1GC	K652-1 K652-2	Polyester Cartridge/2.8 m² (90 ft²)	120/1/50/60 220/1/50/60	15A 9A	13.4 x 26.8 x 15.8 (340 x 680 x 400)	37 (17)

The X-Tractor® 1GC is a portable, high vacuum, low volume extraction system designed for the removal and filtration of welding fume. The 1GC is lightweight and portable, making it easy to carry to multiple work stations. This machine is perfect for light duty intermittent use such as maintenance and construction applications. The unique internal and self-contained filter cleaning system sets the X-Tractor® apart from the competition.

Shown: K652-1 with optional K639-5 Suction Nozzle

For more information see publication E13.17

Environmental Systems

Green Initiative Awareness Program™

Filtered Air Can Save Heating/Cooling Costs

THE LINCOLN ELECTRIC GREEN INITIATIVE

Filtered Air
saves heating/cooling costs

www.lincolnelectric.com/green

Lincoln Electric's new Green Initiative Awareness Program promotes the company's initiatives to reduce environmental impact of its products and manufacturing processes. Continued investment in technological advancement underlines Lincoln Electric's commitment to creating products that help customers reduce welding costs and adhere to environmental standards.

Environmental systems for Lincoln Electric include industry leading portable, wall mounted and shop-wide solutions for capturing and extracting welding fume and particulate from metalworking operations. Most of these systems feature either disposable or self-cleaning filters. Recirculating filtered air, rather than exhausting non-filtered air to the outside, may result in significantly lower heating/cooling costs. In addition, the high efficiency electric fan/blower motors used in these systems minimize overall power consumption.

Dispose of exhaust system filters and collection bin debris according to your company's waste generator status and in compliance with OSHA, EPA and local regulations.

For more information visit www.lincolnelectric.com/green

Environmental Systems

X-Tractor® 3A, 5A & 8A

Welding Fume Extractor

Product Name	Product Number	Input Power (Voltage/Phase/Hertz)	CFM	H x W x D In. (mm)	Net Weight lbs. (kg)
X-Tractor® 3A	K3965-1 K3965-2	230/3/60 460/3/60	165	29.1 x 16.9 x 43.3 (740 x 430 x 1100)	192 (87)
X-Tractor® 5A	K3966-1 K3966-2	230/3/60 460/3/60	285	43.3 x 28.0 x 55.1 (840 x 710 x 1400)	242 (110)
X-Tractor® 8A	K3967-1 K3967-2	230/3/60 460/3/60	475	43.3 x 28.0 x 55.1 (1100 x 710 x 1400)	309 (140)

The self-contained X-Tractor® weld fume extraction units are specifically designed for the removal and filtration of welding fume. These high vacuum, low volume systems are engineered to provide suction for multiple nozzles and fume guns and feature an integrated automatic self-cleaning filter system. They are ideally suited for continuous use in heavy duty welding applications.

Shown: K3965-2 X-Tractor® 3A, K3966-2 X-Tractor® 5A, K3967-2 X-Tractor® 8A

For more information see publication E13.19

Environmental Systems

Filter Replacement

Regularly schedule maintenance can provide the following key benefits:

- Keep system working at peak performance
- Maintaining a work environment free of fume and particulate

For a complete list of filter replacement cartridges, options and pricing visit. www.lincolnelectric.com/filters

For more information see publication MC12-127

Environmental Systems

Mobilflex® 100-NF

Portable Welding Exhaust System

Product Name	Product Number	Filter Type/Filter Area	Input Power (Voltage/Phase/Hertz)	Input Current	H x W x D In. (mm)	Net Weight lbs. (kg)
Mobilflex® 100-NF	K1666-1	No Filtration Exhaust Only	115/1/60	10A	23.1 x 18.9 x 18.9 (587 x 480 x 480)	37.5 (17)

The Mobilflex® 100-NF is a portable and lightweight welding fume exhaust unit. It is ideal for construction of shop welding applications where weld fume must be moved away from the operator without the need for added filtration. The Mobilflex® 100-NF features a carrying handle and sturdy base and weighs only 37.5 lbs (17kg), which makes it easy to move and position around the job site.

Shown: K1661-1 Mobilflex® 100-NF with optional hose sets.

For more information see publication E13.42

Environmental Systems

High Vacuum Central Systems

For Welding, Cutting and Grinding

High vacuum, low volume central systems are a cost effective choice. These systems use a central turbine and filter, and supply suction throughout the plant. Since the airflow is one-tenth the volume of low vacuum systems, and the vacuum pressures are ten times higher, these systems use smaller ductwork and less CFM. Header ducts are frequently one size through the whole system. Ductwork is routed through the plant and smaller drops of 3 inch diameter duct distribute suction to each welding area. Valves at the ends of these drops connect to small hoses, usually 1-1/2 inches in diameter, which run to the fume guns or suction heads.

For more information see publication MC11-107

Mobiflex® 200-M and 400-M

Mobile Welding Fume Extractor



Shown: K1653-2 Mobiflex® 200-M with required Extraction Arm

The Mobiflex® 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 extraction¹ in a variety of locations.

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

For more information see publication E13.21

Product Name	Product Number	Filter Type	Input Power Voltage/Phase/Hz	Input Current	H x W x D inches (mm)	Net Weight lbs. (kg)
Mobiflex® 200-M Base Unit	K1653-2	Cellulose 538 ft ² (50 m ²) Cellulose/Polyester 538 ft ² (50 m ²)	115/1/60	12A	36 x 32 x 48 (900 x 810 x 1210)	243 (111)
	K2497-2		230/1/50	9A		
	K1653-3		115/1/60	12A		
Mobiflex® 400-MS Base Unit	K1741-1	Cellulose 325 ft ² (30 m ²) Cellulose/Polyester 325 ft ² (30 m ²)	115/1/60	12A	40 x 32 x 48 (1020 x 810 x 1210)	286 (130)
	K2497-4		230/1/50	9A		
	K1741-2		115/1/60	12A		

Statiflex® 200-M, 200-M Dual Arm, 400-MS

Wall mounted Single or Dual Arm Fume Extractor



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

The Statiflex® 200-M, 200-M Dual Arm and 400-MS are stationary, wall-mounted low vacuum/high volume systems intended for light to medium duty extraction and filtration of welding fume. The Statiflex® is designed for facilities with fixed work stations with little available floor space. A self cleaning filter is standard on the Statiflex® 400-MS.

For more information see publication MC13-96

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

Fume Extraction Arms

Low Vacuum Flexible Extraction Arms



These flexible arms are rugged and reliable. Designed with the welder in mind, the arms come equipped with the 360° rotatable hood for optimal positioning to the welding point. They are easily adjustable.

For more information see publication MC13-173

Product Name	Product Number	Arm Length ft. (m)	H x W in. (mm)	Net Wt. lbs. (kg)	CFM with SF 2400 Fan (w/no filtration)	Use with:
LFA 3.1	K2633-1	10 (3.1)	8 x 118 (208 x 3,000)	33 (15)	760	Mobiflex® Statiflex®
LFA 3.1 (w/Lamp & Sensor)	K1655-1	10 (3.1)	8 x 118 (208 x 3,000)	35 (16)	760	Mobiflex®
	K2633-2			35 (16)		
LFA 4.1	K2633-3	13 (4.1)	8 x 157 (208 x 4,000)	37.5 (17)	760	Mobiflex® Statiflex®
	K1655-2			37.5 (17)		
LFA 4.1 (w/Lamp & Sensor)	K2633-4	13 (4.1)	8 x 157 (208 x 4,000)	39.5 (18)	760	Mobiflex® Statiflex®
	K1655-3			39.5 (18)		
LFA 4.1-LC Low Ceiling	K1655-4	13 (4.1)	8 x 157 (208 x 4,000)	37.5 (17)	760	Statiflex®
	K1655-5			37.5 (17)		
LFA 2.0	K1655-6	6.5 (2)	8 x 85 (208 x 2,160)	33 (15)	760	Statiflex®
LTA 2.0	K1655-7	Retracts from 3-4.5 (1-1.5) Retracts from 5-8.2 (1.5-2.5)	8 x 59.5-95 (208 x 1,000-1,400)	15.4 (7)	780	Statiflex®
			8 x 62-100.5 (208 x 1,575-2,553)	59.5 (27)		

Robotic Hoods

Sleek and Effective Solution to Robotic Cell Fume Extraction



Pre-designed Structure - Custom formed design provides a smooth, secure fit for every Lincoln Electric robotic welding cell.

Durable Construction - Rugged aluminum framework, built to withstand the high volume production environment of robotic welding applications.

Enhanced Features - Optional interior lighting kit improves visibility for work observation and in-cell maintenance.

Guardian Fire Safety Solution

A Fire Safety Engineered Solution



Lincoln Electric's Guardian™ fire safety solution is a total system to prevent, detect and suppress fires in the welding and fume extraction and filtration systems – reducing the risk of fire to a minimum. The system contains several components which may be added or deleted to form a custom solution.

For more information see publication MC12-20

Modular Extraction Hood

An Innovative and Flexible Solution for Efficient Weld Fume Control



Combining innovation and simplicity, the Modular Extraction Hood provides a flexible and efficient option for weld fume extraction in a work zone with automated equipment. The Modular Extraction Hood is an easy to install, customizable enclosure that helps provide a cleaner work environment for a variety of industrial processes. Designed and built to be rugged and dependable, these units are ideal for robotic and hard automation applications. The Modular Extraction Hood is a reliable and practical solution to contain and extract welding, cutting, arc gouging and grinding fume from the work environment.

For more information see publication MC12-05

Low Vacuum Central Systems

For Schools and Industry



Lincoln Electric offers low vacuum, high volume exhaust systems for source capture applications. They are an ideal solution to address welding fume removal in educational environments and manufacturing plants that require multiple station drops.

The low vacuum/high volume system utilizes source capture extraction arms that can be easily positioned into place by the operator and do not impede the welding process.

System Configurations Include:

- Automatic operation with filtration.
- Manual operation with filtration.
- Automatic operation without filtration (exhaust only).
- Manual operation with filtration (exhaust only).

For more information see publication MC11-07

Statiflex® Filter Banks

Quality, Self-Cleaning Filtration Solutions Ideal for a Variety of Welding Applications

The Statiflex® Filter Bank is ideal for filtering fume and particulate generated by welding, cutting, arc gouging and grinding. Its higher efficiency, innovative cartridge cleaning system and modular design make the Statiflex® Filter Bank a more robust filtration solution for your metalworking operations.



Shown: Statiflex® Filter Bank, 8-Bank

For more information see publication MC12-05

Push/Pull Systems

For Welding and Fabrication Facilities



Have you ever noticed the formation of a layer of welding fume in the air within your welding and fabrication facility? Fume and metal particulate from metalworking operations such as welding, plasma cutting, arc gouging and grinding can form a layer of particulate in your facility that can settle back to the floor. Lincoln Electric has a proven ventilation solution that dilutes and filters this layer of particulate. Effective welding fume control can significantly contribute to a cleaner work environment and higher productivity.

For more information see publication MC08-88

Circulator Systems

For Smaller Shops or Work Areas

The Lincoln Electric Circulator System has been customer designed to improve indoor air quality in smaller shops or work areas. The system handles this task by continuously moving cleaner, filtered air into the facility, preventing the formation of a fume layer at the ceiling and/or rafters. The filtration is provided by Lincoln Electric's Statiflex® 6000-MS, which is a self-cleaning central filter unit with a filter surface area of 150 m² (1614 ft²). The Lincoln Electric Circulator System is a smart solution for welding safety, workplace cleanliness and an overall positive manufacturing work environment.



For more information see publication MC08-88