

## TYPES OF WFC SYSTEMS

### SOURCE CAPTURE

- Capture fume at the source

### LOCAL EXTRACTION

- Contain fume in controlled space while it's being extracted

### GENERAL VENTILATION

- Dilutes and filters layer of particulate that forms at a height of 15 ft. to 18 ft. above the floor

## CATEGORIES OF WFC SYSTEMS

### LOW VACUUM / HIGH VOLUME

- High airflow rates (650 CFM and up)
- Position source capture device 6 in. to 12 in. from arc

### HIGH VACUUM / LOW VOLUME

- Low airflow rates (less than 175 CFM)
- Position source capture device 2 in. to 3 in. from arc



*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.*

For assistance with your weld fume control needs, please contact your local Lincoln Electric Technical Sales Representative or call us at:

P: 1-800-935-3878 : Menu Option 4  
E: [weldfumecontrol@lincolnelectric.com](mailto:weldfumecontrol@lincolnelectric.com)

### 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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Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to [www.lincolnelectric.com](http://www.lincolnelectric.com) for any updated information.

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# WELCOME TO THE LINCOLN ELECTRIC WELD FUME CONTROL DEMO LAB



**LINCOLN**  
**ELECTRIC**

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## 1. LFA EXTRACTION ARMS – WALL MOUNT

- Source Capture
- LFA 2.0 [6 ft.], LFA 3.1 [10 ft.], LFA 4.1 [13 ft.] and LFA 4.1-LC [13 ft., Low Ceiling]
- Extend reach with 7 ft. or 14 ft. extension crane [not shown]
- Arc sensor/work lamp

## 2. MODULAR EXTRACTION HOOD

- Local Extraction
- Sizes: 1.0x1.5m up to 5.5x5.5m in 0.5m increments

## 3. THERMAL SUPPRESSION

- Prevention: Spark Guardian™ [3a], Oil Guardian™ [3b]
- Detection/Suppression: Heat, spark, and smoke detectors, Guardian Control™ [3c], Flame Guardian™ and sliding valves.
- Also available: Prism® Thermal Suppression (Heat detection tubing, suppressant, inlet/exhaust dampers and smoke detector).

## 4. FILTER BANK

- Compressed air filter cleaning
- Indoor and outdoor installation
- Filter Types: MERV 11, MERV 16 and MERV 16 PTFE

- Statiflex® Filter Bank
  - From 4 to 48 filters
  - Horizontally positioned filters
  - Remote fan
- Also available: Prism®, Reduced-Height Prism, Compact Prism
  - From 4 to 32 filters
  - Vertically positioned filters
  - Top-mount and remote fans

## 5. EXHAUST FAN AND SILENCER

- Wide range of airflow/static pressure ratings
- Fan Sizes: 3 to 100 HP
- Matching air exhaust silencer on filtered systems
- Sound absorbing box option for quieter operation on 30 HP and less

## 6. PORTABLE AND MOBILE UNITS

- Low Vac: Mobiflex® 100-NF, 200-M and 400-MS

## 7. DOWNFLEX® 200-M DOWNDRAFT TABLE

- For welding, plasma cutting and grinding\*
- Disposable filter
- Also available: DownFlex 400-MS/A [self-cleaning filter] and DownFlex 100-NF [for integration into a central extraction system]

## 8. PORTABLE AND MOBILE UNITS

- High Vac: Miniflex® and X-Tractor® 1GC

## 9. WELDING BOOTHS

- Available in 4x4 ft., 5x5 ft. and 6x6 ft. sizes.
- Optional curtains, welding tables, floor stands, lockable storage cabinet, LED light kits

## 10. PUSH-PULL SYSTEM

- General Ventilation
- Use when:
  - Source capture is difficult
  - Welder shifts positions frequently
  - Large weldments or work pieces

## 11. WALL MOUNT FILTRATION AND TELESCOPIC EXTRACTION ARMS

- Source Capture
- Statiflex® 200-M Dual
- LTA 2.0 and LTA 2.0-CW extraction arms
- Also available: Statiflex 800 single and dual arm [self-cleaning filter] base units and packages

\* Not suitable for grinding Aluminum, Magnesium or other explosive materials