Chemical Fumes and Laser Dust Extraction System Model LCFE1704

powerful maintenance-free Brushless Turbine • supplied with all accessories

Special Alkalined Main Filter to remove toxic chemical fumes

Adjustable length Gooseneck high temperature Fume Hose supplied with 1.5 meter length. Customized more length of same available as per required positioning.

Main Fume Extraction Control Unit

Metallic Square 180x180 mm Fume Air Purifier Hood has mechanical Air Flow Controller

System Choke Alarm: When display shows circular movement clockwise plus OFF and system beeps, it means any of Filters needs replacement.

Digital Display Indicator

Speed Control Regulator

Airflow Setting Switches

Speed Control Regulator Connector

Various types of Chemical Fumes Extraction possibilities

Specifcations

- Input Power Supply : 230V/50Hz, 250W
- No of Workplaces : 1
- Stationary Pressure : 3000 Pa
- Maximum Airflow Rate : 250m³/h
- Filtering Efficiency (0.3um) : 99.97%
- Noise Level : <65dB
- Dimension (LxWxH) (approx) : 470 x 230 x 350mm

Scope of Supply

- 1xMain Extraction unit
- 1xExtraction Arm (75mm dia, 1.5 meter long)
- 1xSquare Metallic Hood (180x180mm)
- 1xSpeed Control Regulator
- 5xSpare Pre-Filters

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Features

- Hassle-free easy-to-start operation with all inclusive kit supplied
- Easy-to-manoeuver positioning of Fume Extraction Arm
- Reliable & virtually maintenance-free Brushless DC Turbine
- Has low noise (< 65 dBA) in continuous running operation
- Special Main Filter with its last stage of Alkaline type, makes sure to remove obnoxious harmful chemical fumes
- Low running cost as normally low cost Pre-Filter mainly need replacement periodically as and when there is choking of fumes extraction.
- Middle Filter and Main Filter are in Metal Frames
- Ready availability of all spare parts from stock

This is hi-end volume extraction type and ready-to-use Chemical Fume & Laser Dust Extraction System. It is designed for continuous working reliably on main production line. It has very powerful and maintenance-free Brushless Turbine and Electronic Speed Control Unit. Its metal framed special Middle Filter and Main Filter

provide clean working environment. The electronic Speed Controller regulates air-flow volume.

Ready-to-use Chemical Fume and Laser Dust Extraction System Model LCFE1704 is fitted with

4-stage Filters:
- Pre-Filter, Metal Framed
- Middle Filter, another Pre-Filter, Metal Framed
- special Main Filter with last alkaline stage.
Combination of all these Filters cleans chemically polluted air by absorbing these obnoxious fumes. This System is designed for use both in industrial and in laboratory environment. All it needs is merely mains input Power Supply.

Details of 4-Stage Filters used in this Chemical & Laser Dust Fumes Extraction System

- **Stage I Pre-Filter**: The Pre-Filter filters the bigger size particles for prolonging the life of both Middle and Main Filters.
- **Stage II Metal Framed Middle Filter**: It filters coarse size fume particles to prolong life of expensive Metal Framed Main Filter.
- **Stage III Pre-Filter**: This Pre-Filter prolongs life of expensive Metal Framed Main Filter so as to minimize its replacement.
- **Stage IV Metal Framed Main Filter**: This Metal Framed Filter, besides absorbing very fine particles thru its HEPA Filter, also absorbs obnoxious chemical fumes because of its Charcoal & Alkalined based other stages.

1. Normally low cost Pre-Filters need periodic replacement when there is less suction of fumes.  
2. None of these Filters should be washed nor should be cleaned with compressed air at all.
2-Operators powerful Solder Fumes Extraction System FES2-75ESDLC

Couple of 100's (in repeat orders) working reliably all over India for the last many years

3-Stage Filters for 99.97% fumes cleaning
Pre-Cut Metal Plate increases life of 3 Filters
Silent operation with low noise < 60 dBA
Reliable and powerful brushless Turbine

Main Extraction Control Unit

System Choke Alarm:
When display shows circular movement clockwise plus OFF and system beeps, it means any of Filters needs replacement.

ESD Safe Fume Extraction Body with Caster Wheels for easy mobility

Scope of Supply
• 1xESD Safe Black Colour Main unit
• 2xESD Safe Extraction Arms (75mm dia, 1.5 meter long)
• 2xMetallic Square Hoods
• 1xSpeed Control Regulator
• 2xSpare Pre-Filters

Specifications
• Input Power Supply : 230V/50Hz, 250W
• No of Workplaces : 2
• Stationary Pressure : 3000 Pa
• Maximum Airflow Rate : 240m³/h
• Filtering Efficiency (0.3um) : 99.97%
• Noise Level : <60dB
• Dimension (LxWxH) (approx) : 470x230x500mm

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2-Operators powerful Solder Fumes Extraction System FES2-75ESDLC

Couple of 100's (in repeat orders) working reliably all over India for the last many years

Features
- Hassle-free easy-to-start operation with all inclusive kit supplied
- Easy-to-manoeuver positioning of Fumes Extraction Arms
- Reliable & virtually maintenance-free Brushless DC Turbine
- Has low noise (< 60 dBA) in operation continuous running
- Filters design removes hazardous gaseous/ adhesive substances from fumes.
- Low running cost as normally low cost Pre-Filter mainly need replacement periodically as and when there is choking of fumes extraction.
- Readily availability of all spare parts from stock

FES2-75ESD is a reliable and really effective volume extraction type 2-operators ready-to-use Solder Fume Extraction System. It is designed for continuous and reliable working on production line. Its powerful and maintenance-free brushless turbine combined with electronic speed control, provides clean working environment at low maintenance cost. The electronic Speed Controller regulates air-flow volume continuously.

Details of 3-Stage Filters used in this Fume Extraction System

1. Normally Pre-Filter only needs periodic replacement when there is less suction of fumes.  
2. These 3 Filters should never be washed nor should be cleaned with compressed air at all.

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2-Operators powerful Solder Fumes Extraction System FES2-75ESDTC

Couple of 100’s (in repeat orders) working reliably all over India for the last many years

3-Stage Filters for 99.97% fumes cleaning
Pre-Cut Metal Plate increases life of 3 Filters
Silent operation with low noise < 60 dBA
Reliable and powerful brushless Turbine

ESD Safe Fume Extraction Body with Caster Wheels for easy mobility

Main Extraction Control Unit

System Choke Alarm:
When display shows circular movement clockwise plus OFF and system beeps, it means any of Filters needs replacement.

Metallic type Square Hoods
Rigid Gooseneck Arms can be positioned anywhere on table and will stay in same place

No extra Plumbing required just connect supplied hoses thru Table Clamps

Ready-to-use Complete Package
Caster wheels for easy mobility

Scope of Supply
• 1xE3D Safe Black Colour Main unit
• 2xE3D Safe Extraction Arms
  (75mm dia, 0.8 meter long)
• 2xBench Clamps
• 2xSoft Connection Hose
• 2xMetallic Square Hoods
• 1xSpeed Control Regulator
• 2xSpare Pre-Filters

Specifications
• Input Power Supply : 230V/50Hz, 250W
• No of Workplaces : 2
• Stationary Pressure : 3000 Pa
• Maximum Airflow Rate : 240m³/h
• Filtering Efficiency (0.3um) : 99.97%
• Noise Level : <60dB
• Dimension (LxWxH) (approx) : 470x230x500mm

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2-Operators powerful Solder Fumes Extraction System FES2-75ESDTC

Couple of 100's (in repeat orders) working reliably all over India for the last many years

Features

- Hassle-free easy-to-start operation with all inclusive kit supplied
- Easy-to-manoeuver positioning of Fumes Extraction Arms
- Reliable & virtually maintenance-free Brushless DC Turbine
- Has low noise (< 60 dBA) in operation continuous running
- Filters design removes hazardous gaseous/adhesive substances from fumes.
- Low running cost as normally low cost Pre-Filter mainly need replacement periodically as and when there is choking of fumes extraction.
- Readily availability of all spare parts from stock

FES2-75ESD is a reliable and really effective volume extraction type 2-operators ready-to-use Solder Fume Extraction System. It is designed for continuous and reliable working on production line. Its powerful and maintenance-free brushless turbine combined with electronic speed control, provides clean working environment at low maintenance cost. The electronic Speed Controller regulates air-flow volume continuously.

Details of 3-Stage Filters used in this Fume Extraction System

- **Metal Plate**: Metal Plate on top to increase the life of Filters
- **Stage I Pre-Filter**: The Pre-Filter filters the bigger size particles for prolonging the life of both Middle and Main Filters.
- **Stage II Middle Filter**: It filters coarse size fume particles to prolong life of expensive HEPA/Charcoal Filter
- **Stage III Main HEPA/Charcoal Filter**: This Filter is a combination of HEPA (filters fine size fume particles) and Activated Charcoal (absorbs harmful gas substances) Filters to provide clean air finally.

1. Normally Pre-Filter only needs periodic replacement when there is less suction of fumes.
2. These 3 Filters should never be washed nor should be cleaned with compressed air at all.
2-Operators powerful Solder Fumes Extraction System FES2-50ESD
over 1000 units (in repeat orders) working reliably all over India for the last many years

3-Stage Filters for 99.97% fumes cleaning
Pre-Cut Metal Plate increases life of 3 Filters
Silent operation with low noise < 60 dBA
Reliable and powerful brushless Turbine

System Choke Alarm:
When display shows circular movement clockwise plus OFF
and system beeps, it means any of Filters needs replacement.

Solder fumes extraction during hand soldering on PCB & Solder Pot tinning

Scope of Supply includes all of following to make it ready-to-use

- 1xEsd Safe Black Colour Main unit
- 2xESD Safe Extraction Arms (50mm dia, 1.2 meter long)
- 2xESD Safe Round Hoods
- 1xSpeed Control Regulator
- 2xSpare Pre-Filters

Specifications

- Input Power Supply : 230V/50Hz, 250W
- No of Workplaces : 2
- Stationary Pressure : 3000 Pa
- Maximum Airflow Rate : 240m³/h
- Filtering Efficiency (0.3um) : 99.97%
- Noise Level : <60dB
- Dimension (LxWxH) (approx) : 470x230x500mm

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Features

- Hassle-free easy-to-start operation with all inclusive supplied kit
- Easy-to-maneuver positioning of Fumes Extraction Arms
- Reliable & virtually maintenance-free Brushless DC Turbine
- Has low noise (< 60 dBA) in operation continuous running
- Filters design removes hazardous gaseous/adhesive substances from fumes.
- Low running cost as normally low cost Pre-Filter mainly need replacement periodically as and when there is choking of fumes extraction.
- Readily availability of all spare parts from stock

FES2-50ESD is a reliable and really effective volume extraction type 2-operators ready-to-use Solder Fume Extraction System. It is designed for continuous and reliable working on production line. Its powerful and maintenance-free brushless turbine combined with electronic speed control, provides clean working environment at low maintenance cost. The electronic Speed Controller regulates air-flow volume continuously.

Details of top Metal Plate and 3-Stage Filters used in this Fume Extraction System

- **Metal Plate**: Metal Plate on top to increase the life of Filters
- **Stage I Pre-Filter**: The Pre-Filter filters the bigger size particles for prolonging the life of both Middle and Main Filters.
- **Stage II Middle Filter**: It filters coarse size fume particles to prolong life of expensive HEPA/Charcoal Filter
- **Stage III Main HEPA/Charcoal Filter**: This Filter is a combination of HEPA (filters fine size fume particles) and Activated Charcoal (absorbs harmful gas substances) Filters to provide clean air finally.

1. Normally Pre-Filter only needs periodic replacement when there is less suction of fumes.
2. These 3 Filters should never be washed nor should be cleaned with compressed air at all.

Warranty is a value to the date of invoice. It excludes all consumable parts as Filters, Extraction Arms and Hoods

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3-Stage Filters for 99.97% fumes cleaning
Silent operation with low noise < 60 dBA
Reliable and powerful brushless Turbine
Ready-to-use type, no plumbing required

Scope of Supply
- 1xFumePro201 Main Extraction unit
- 2xExtraction Arms (75mm dia, 1.2 meter long)
- 2xMetallic Square Hoods (180x180mm)
- 1xSpeed Control Regulator
- 2xSpare Pre-Filters

Specifications
- Input Power Supply: 230V/50Hz, 250W
- No of Workplaces: 2
- Stationary Pressure: 3000 Pa
- Maximum Airflow Rate: 240m³/h
- Filtering Efficiency (0.3µm): 99.97%
- Noise Level: <60dB
- Dimension (LxWxH) (approx): 470x230x500mm

System Choke Alarm:
When display shows circular movement clockwise plus OFF and system beeps, it means any of Filters needs replacement.

Solder fumes extraction during hand soldering on PCB & Solder Pot tinning

Rigid Gooseneck Arms can be positioned anywhere on table and will stay in same place

Burn-proof Metallic type Square Hoods (180x180mm)

No Plumbing required just position on or under the Table as needed

Ready-to-use Complete Package

Solder fumes extraction during hand soldering on PCB & Solder Pot tinning

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FumePRO201-75LC is a reliable and really effective volume extraction type 2-operators ready-to-use Solder Fume Extraction System. It is designed for continuous and reliable working on production line. Its powerful and maintenance-free brushless turbine combined with electronic speed control, provides clean working environment at low maintenance cost. The electronic Speed Controller regulates air-flow volume continuously.

Features
- Hassle-free easy-to-start operation with all inclusive kit supplied
- Easy-to-manoeuver positioning of Fumes Extraction Arms
- Reliable & virtually maintenance-free Brushless DC Turbine
- Has low noise (< 60 dBA) in operation continuous running
- Filters design removes hazardous gaseous/adhesive substances from fumes.
- Low running cost as normally low cost Pre-Filter mainly need replacement periodically as and when there is choking of fumes extraction.
- Readily availability of all spare parts from stock

Details of 3-Stage Filters used in this Fume Extraction System

- **Stage I Pre-Filter**: The Pre-Filter filters the bigger size particles for prolonging the life of both Middle and Main Filters.
- **Stage II Middle Filter**: It filters coarse size fume particles to prolong life of expensive HEPA/Charcoal Filter.
- **Stage III Main HEPA/Charcoal Filter**: This Filter is a combination of HEPA (filters fine size fume particles) and Activated Charcoal (absorbs harmful gas substances) Filters to provide clean air finally.

1. Normally Pre-Filter only needs periodic replacement when there is less suction of fumes.
2. These 3 Filters should never be washed nor should be cleaned with compressed air at all.
### HEPA Filter (High-efficient filter paper: Material - fiberglass)

<table>
<thead>
<tr>
<th>Item</th>
<th>Test</th>
<th>Specification</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Appearance</td>
<td>White and even</td>
<td>White and even</td>
</tr>
<tr>
<td>2</td>
<td>Thickness: mm</td>
<td>0.32-0.34</td>
<td>0.33</td>
</tr>
<tr>
<td>3</td>
<td>Gram weight: g/m²</td>
<td>/</td>
<td>75.8</td>
</tr>
<tr>
<td>4</td>
<td>Strength: KN/m</td>
<td>≥1.2 (Portrait)</td>
<td>1.33</td>
</tr>
<tr>
<td></td>
<td></td>
<td>≥0.5 (Lateral)</td>
<td>0.724</td>
</tr>
<tr>
<td>5</td>
<td>Efficiency: 0.321/min.cm²</td>
<td>≥98 (0.3um)</td>
<td>99.97 (0.3um)</td>
</tr>
<tr>
<td>6</td>
<td>Resistance: 0.321/min.cm²</td>
<td>≤220</td>
<td>196</td>
</tr>
<tr>
<td>7</td>
<td>Stiffness: Mn.m</td>
<td>≥1.2</td>
<td>1.55</td>
</tr>
</tbody>
</table>

### Middle Filter (Middle filter paper: Material - fiberglass)

<table>
<thead>
<tr>
<th>Item</th>
<th>Test</th>
<th>Specification</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Appearance</td>
<td>White and even</td>
<td>White and even</td>
</tr>
<tr>
<td>2</td>
<td>Thickness: mm</td>
<td>0.32-0.34</td>
<td>0.34</td>
</tr>
<tr>
<td>3</td>
<td>Gram weight: g/m²</td>
<td>/</td>
<td>69.7</td>
</tr>
<tr>
<td>4</td>
<td>Strength: KN/m</td>
<td>≥1.2 (Portrait)</td>
<td>1.44</td>
</tr>
<tr>
<td></td>
<td></td>
<td>≥0.5 (Lateral)</td>
<td>0.733</td>
</tr>
<tr>
<td>5</td>
<td>Efficiency: 0.321/min.cm²</td>
<td>≥60</td>
<td>66.67</td>
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<tr>
<td>6</td>
<td>Resistance: 0.321/min.cm²</td>
<td>30-40</td>
<td>36</td>
</tr>
<tr>
<td>7</td>
<td>Stiffness: Mn.m</td>
<td>≥1.2</td>
<td>1.75</td>
</tr>
</tbody>
</table>

### Pre-Filter (Filter Material - polypropylene)

<table>
<thead>
<tr>
<th>Item</th>
<th>Gram per square meter: g/m²</th>
<th>Free state thickness: mm</th>
<th>Filter speed: m/s</th>
<th>Initial resistance: Pa</th>
<th>Artificial dust efficiency: %</th>
<th>Dust capacity: g/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>350</td>
<td>5-6</td>
<td>1</td>
<td>323</td>
<td>78</td>
<td>110</td>
</tr>
</tbody>
</table>