MAXROLL™
Portable filtration unit / 650 CFM (1100 m³H)

MAXCART™
Portable filtration unit / 1500 CFM (2550 m³H)
For 2 arm configuration

- Push-cart type unit
- Self cleaning by air pulsation
- 3 steps filtration system
- 2 dust collector trays
- Tool free maintenance
- Swivel casters with foot brakes

Diversified Air Systems, Inc.

Superior technology generating substantial operating savings
MAXROLL & MAXCART  Compact and portable filtration units

When welding, grinding or dust source capture is necessary away from a fixed work station, both MAXROLL and MAXCART units are easily moved to the desired location with the help of swivel casters and push handles. Cartridge cleaning is a snap. Simply push the palm button to discharge the compressed air from the integrated tank. Both units have large dust trays at the bottom and emptied when needed. Backward inclined fans deliver great air volume while the foam insulated steel cabin ensures quiet running. MAXFLO arms are offered with the units or they can also be hard piped to a fume hood or other remote source capture device.

Industrial Air Specialists

With our headquarters in Louisville, Kentucky, Diversified Air Systems, Inc. has been providing quality air solutions to industrial and commercial facilities since 1981. During our more than twenty-five years of operation, Diversified Air Systems has established two important company traditions: offering state-of-the-art equipment at competitive prices and achieving long-term customer satisfaction.

The staff of Diversified Air Systems includes five application engineers, with a combined experience of more than 75 years in the air filtration and HVAC industry. Whether your facility requires an air filtration system for dust, mist, or fumes, or an HVAC solution to meet ventilation needs, Diversified Air Systems has the equipment and expertise to meet the need.

Services include air quality analysis, system design, equipment sales, turnkey installation, onsite servicing, and supply of replacement filters and accessories.

Other Filtration Systems available:

- Air Cleaners
- Containment Booths
- Decontamination Booths
- Downdraft Tables
- Dust Collectors
- Fans and Blowers
- Gas & Odor Control
- High Vacuum Systems
- Mist Collectors
- Paint Booths
- Stainless Steel Collectors
- Vehicle Exhaust Systems
- Wet Dust Collectors
Portable, powerful, affordable.

Most of our competitors do not include these standard features:

- 650 C.F.M. at the hood (1100 m³/hr)
- Self-cleaning by air pulsation
- Easy maintenance
- MAXFLO arm has no internal joints
- 69dBa at 3’ (1 meter)
- Backward inclined aluminum impeller
- Portable source capture
- TIG/MIG welding fume capture
- Easy/very low cost maintenance of unit
- Shipped fully assembled (except for arm mount)
- Dusty air filtration and recirculation possibility
- Minimal or no spare parts required

OUTSTANDING MAXROLL FEATURES

Stainless steel cabinet for laboratory or food grade applications

650 C.F.M.
1100 M³/HOUR

Access door seal
Charcoal after filter
Polyester main cartridge
Integraded air tank for self-cleaning
Spark deterrent aluminium filter
Large rear casters
Removable collector tray (2)
Swing arm tray locking device
Removable collector tray (1)
Locking swivel casters with foot brakes

TEFC motor
Starter with overload protection
15’ power cord
Palm button for cartridge self-cleaning
Air inlet for MAXFLO fume arm or ducting
Compressed air inlet to integrated air tank
Turn handles on access door to filters and removable dust trays

Please call 800-264-8958
MAXROLL TECHNICAL DATA

<table>
<thead>
<tr>
<th>Models</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MR-100</td>
<td>Unit without arm</td>
</tr>
<tr>
<td>MR-107</td>
<td>Unit with MAXFLO arm 6&quot; x 7'</td>
</tr>
<tr>
<td>MR-110</td>
<td>Unit with MAXFLO arm 6&quot; x 10'</td>
</tr>
</tbody>
</table>

Note: it is not recommended to use MAXFLO 14’ (4m) arm with MAXROLL unit. Use of such arm may make unit to tip over.

### Chart 1

<table>
<thead>
<tr>
<th>Unit</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight without arm</td>
<td>240 / 110 lb / kg</td>
</tr>
<tr>
<td>Weight with arm</td>
<td>292 / 132 lb / kg</td>
</tr>
<tr>
<td>Motor</td>
<td>TEFC</td>
</tr>
<tr>
<td>Power supply</td>
<td>V / Hz</td>
</tr>
<tr>
<td>Power</td>
<td>HP / KW</td>
</tr>
<tr>
<td>R.P.M.</td>
<td>3450</td>
</tr>
<tr>
<td>Pressured air tank</td>
<td>3 gallon capacity</td>
</tr>
<tr>
<td>Air pressure required</td>
<td>80 to 100 p.s.i.</td>
</tr>
<tr>
<td>Pressured air connection</td>
<td>1/4&quot; N.P.T.</td>
</tr>
<tr>
<td>Airflow with arm</td>
<td>650 / 1100 CFM / M³/hr</td>
</tr>
<tr>
<td>Airflow without arm</td>
<td>850 / 1450 CFM / M³/hr</td>
</tr>
<tr>
<td>Noise level</td>
<td>69 @ 3’ (1m)</td>
</tr>
<tr>
<td>Dust storage capacity</td>
<td></td>
</tr>
<tr>
<td>Tray # 1</td>
<td>1 gallon</td>
</tr>
<tr>
<td>Tray # 2</td>
<td>2 gallons</td>
</tr>
</tbody>
</table>

### Chart 2

<table>
<thead>
<tr>
<th>Filters</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Prefilter (aluminium)</td>
<td>1</td>
</tr>
<tr>
<td>Quantity</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>in / mm</td>
</tr>
<tr>
<td>Filtering efficiency</td>
<td>25% @ 10 microns</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Washable / replacable</td>
</tr>
<tr>
<td>Main cartridge (spun bond polyester, 130 sq. ft.)</td>
<td>1</td>
</tr>
<tr>
<td>Quantity</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>in / mm</td>
</tr>
<tr>
<td>Filtering efficiency</td>
<td>99% @ 1 micron</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Cleaned by air pulse / washable / replacable</td>
</tr>
<tr>
<td>Final filter (carbon polysorb)</td>
<td>1</td>
</tr>
<tr>
<td>Quantity</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>in / mm</td>
</tr>
<tr>
<td>Filtering efficiency</td>
<td>30% molecular</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Disposable / replacable</td>
</tr>
</tbody>
</table>

### Chart 3

<table>
<thead>
<tr>
<th>Pulse cleaning operation</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual</td>
<td>Push button (standard) / automatic (optional)</td>
</tr>
<tr>
<td>Air pulse</td>
<td>Through venturi / reverse pulse</td>
</tr>
<tr>
<td>Valve</td>
<td>Diaphragm</td>
</tr>
<tr>
<td>Constant air connection</td>
<td>Not required</td>
</tr>
<tr>
<td>Tank fill time</td>
<td>4 to 6 seconds</td>
</tr>
<tr>
<td>Air pulse duration</td>
<td>200 ms</td>
</tr>
</tbody>
</table>

### Chart 4

<table>
<thead>
<tr>
<th>Amperage draw</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>115-1-60</td>
<td>12 amps</td>
</tr>
<tr>
<td>230-1-60</td>
<td>6.5 amps</td>
</tr>
<tr>
<td>208-3-60</td>
<td>3.1 amps</td>
</tr>
<tr>
<td>460-3-60</td>
<td>1.6 amps</td>
</tr>
<tr>
<td>575-3-60</td>
<td>1.4 amps</td>
</tr>
</tbody>
</table>

**Note:**

1. For better cartridge cleaning results, it is recommended to shut unit off 30 seconds prior to activating pulse.
2. Do not operate pulse cleaning while access door is opened.

Please call 800-264-8958
Higher air volume capability, dual or single fume arm options.

Most of our competitors do not include these standard features:
- 1500 C.F.M. at the hood (2550m³/hour)
- Self-cleaning by air pulsation
- Easy maintenance
- MAXFLO arm has no internal joints
- 76dbA at 3’ (1 meter)
- Backward inclined aluminum impeller
- Portable source capture
- Gouging, plasma cutting, heavy smoke
- Easy/very low cost maintenance of unit
- Shipped fully assembled (except for arm mount)
- Dusty air filtration and recirculation possibility
- Minimal or no spare parts required

Please call 800-264-8958
MAXCART TECHNICAL DATA

<table>
<thead>
<tr>
<th>Models</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC-1500</td>
<td>Unit without arm</td>
</tr>
<tr>
<td>MC-11500-1-807</td>
<td>Unit with 1 MAXFLO arm 8&quot; x 7'</td>
</tr>
<tr>
<td>MC-11500-1-810</td>
<td>Unit with 1 MAXFLO arm 8&quot; x 10'</td>
</tr>
<tr>
<td>MC-11500-1-814</td>
<td>Unit with 1 MAXFLO arm 8&quot; x 14'</td>
</tr>
<tr>
<td>MC-11500-2-607</td>
<td>Unit with 2 MAXFLO arms 6&quot; x 7'</td>
</tr>
<tr>
<td>MC-11500-2-610</td>
<td>Unit with 2 MAXFLO arms 6&quot; x 10'</td>
</tr>
<tr>
<td>MC-11500-2-614</td>
<td>Unit with 2 MAXFLO arms 6&quot; x 14'</td>
</tr>
</tbody>
</table>

**Unit**

- Weight without arm: lb / kg 345 / 156
- Weight with (1) arm — (2) arms: lb / kg 405 / 184 — 465 / 212
- Motor: TEFC
- Power supply: V / Hz As requested or specified
- Power: HP / KW 3 / 2.2
- R.P.M.: 3450
- Pressured air tank: 3 gallon capacity
- Air pressure required: 80 to 100 p.s.i.
- Pressured air connection: 1/4" N.P.T.
- Airflow with (1) arm — (2) arms: CFM / M³/hr 1200 / 2035 — 1350 / 2300
- Airflow without arms: CFM / M³/hr 1500 / 2550
- Noise level: dB(e) 76 @ 3' (1m)
- Dust storage capacity: Tray # 1 2 gallon

**Filters**

- Prefilter (aluminium)
  - Quantity: 1
  - Dimensions: in / mm 17 x 21 x 1 / 540 x 440 x 25
  - Filtering efficiency: 25% @ 10 microns
  - Maintenance: Washable / replacable
- Main cartridge (spun bond polyester)
  - Quantity: 2
  - Dimensions: in / mm 12.8 x 26 / 325 x 660
  - Filtering efficiency: 99% @ 1 micron
  - Maintenance: Cleaned by air pulse / washable / replacable
- Final filter (carbon polysorb)
  - Quantity: 1
  - Dimensions: in / mm 20 x 24 x 1 / 500 x 600 x 25
  - Filtering efficiency: 30% molecular
  - Maintenance: Disposable / replacable

**Pulse cleaning operation**

- Manual: Push button (standard) / automatic (optional)
- Air pulse: Through venturi / reverse pulse
- Valve: Diaphragm
- Constant air connection: Not required
- Tank fill time: 4 to 6 seconds
- Air pulse duration: 200 ms

**Amperage draw**

- 230-1-60: 17 amps
- 208-3-60: 9.6 amps
- 460-3-60: 4.8 amps
- 575-3-60: 3.9 amps

**Note:**

1. For better cartridge cleaning results, it is recommended to shut unit off 30 seconds prior to activating pulse.
2. Do not operate pulse cleaning while access door is opened.
Safety note: units are not designed to collect possible explosive dusts such as aluminum, magnesium, wood chips or similar. Refer to ASHRAE industrial ventilation handbook for references. If used for such applications, it is highly recommended to empty dust collector drawers in units between applications. **DO NOT MIX COLLECTION OF EXPLOSIVE DUSTS IN UNITS.**

Please call 800-264-8958
### Create your MAXROLL portable filtration unit specification

1. **Cabinet should have the following components:**
   - Powder coat painted steel housing
   - Sound insulation foam for noise reduction (69 dBa)
   - Swivel casters with foot brakes
   - Sealed access door with twist handles
   - Spark deterrent primary filter, polyester cartridge (99% efficiency), charcoal final filter
   - Cabinet grab handle
   - Starter with overload protection and reset
   - Three (3) gallon reserve air tank for pulse cleaning with palm button operation and air venturi
   - Two (2) removable dust drawers

2. **Unit should include:**
   - 1 H.P. [0.75 Kw] TEFC 3450 R.P.M. direct drive motor with backward inclined aluminium impeller.

3. **Voltage to be:**
   - 115/1/60
   - 208/3/60
   - 230/1/60
   - 460/3/60
   - 575/3/60

4. **Inlet connection to be equipped with:**
   - a) MAXFLO fume arm model FA-1PPG6-07 (6" X 7’)
   - b) MAXFLO fume arm model FA-1PPG6-10 (6" X 10’)
   - c) Flanged inlet for ducting or flexible hose connection

5. **Unit should be equipped with optional:**
   - a) Teflon coated main cartridge
   - b) Automatic pulse cleaning with electronic control panel
   - c) Halogen light kit and hood switch
   - d) HEPA (99.97%) final filter in exterior housing
   - e) All stainless steel components for F.D.A. application
   - f) Explosion proof motor and starter

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### Create your MAXCART portable filtration unit specification

1. **Cabinet should have the following components:**
   - Powder coat painted steel housing
   - Sound insulation foam for noise reduction (76 dBa)
   - Swivel casters with foot brakes
   - Sealed access door with twist handles
   - Spark deterrent primary filter, polyester cartridge (99% efficiency), charcoal final filter
   - Cabinet grab handle
   - Starter with overload protection and reset
   - Three (3) gallon reserve air tank for pulse cleaning with palm button operation and air venturi
   - Two (2) removable dust drawers

2. **Unit should include:**

3. **Voltage to be:**
   - 230/1/60
   - 460/3/60
   - 575/3/60

4. **Inlet connection to be equipped with:**
   - a) (2) MAXFLO fume arms FA-1PPG6-07 (6” X 7”)
   - b) (2) MAXFLO fume arms FA-1PPG6-10 (6” X 10”)
   - c) (2) MAXFLO fume arms FA-1PPG6-14 (6” X 14”)
   - d) (1) MAXFLO fume arm FA-1PPG8-07 (8” X 7”)
   - e) (1) MAXFLO fume arm FA-1PPG8-10 (8” X 10”)
   - f) (1) MAXFLO fume arm FA-1PPG8-14 (8” X 14”)
   - g) Flanged inlets for ducting or flexible hoses connection

5. **Unit should be equipped with optional:**
   - a) Teflon coated main cartridge
   - b) Automatic pulse cleaning with electronic control panel
   - c) Halogen light kit and hood switch
   - d) HEPA (99.97%) final filter in exterior housing
   - e) All stainless steel components for F.D.A. application
   - f) Explosion proof motor and starter

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**Diversified Air Systems**

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Continuous product improvement is a policy of D.A.S. Inc. Product features and specifications may be modified without prior notice.