DIVERSIFIED AIR SYSTEMS, INC.

MICART MARKET

Affordable portable filtration unit



- Filter pressure status gauge
- · Plug and play system
- 4" swivel casters with foot brakes for stability



High-Productivity Innovative Products

MINICART Affortable portable filtration unit

Welding applications do not always require expensive filtration units with options not necessary to perform adequately. The MINICART is a basic no nonsense high efficiency portable unit which is designed for fume and dust filtration. The MINICART base unit comes complete with starter, power cord and MAXFLO fume arm for source capture. Options such as pulse cleaning system, HEPA and charcoal after-filters are available.

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 thirty years of operation, Diversified Air Systems, Inc. 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, Inc. 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, Inc. 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:

Dust Collectors

Air Cleaners High Vacuum Systems

Containment Booths Mist Collectors

Decontamination Booths Paint Booths

Downdraft Tables
Stainless Steel Collectors

Fans and Blowers Vehicle Exhaust Systems

Gas & Odor Control Wet Dust Collectors

MICART MAffortable portable filtration unit

MINICART PORTABLE WELDING AND GRINDING FILTRATION UNIT

Portable, powerful, affordable.

Most of our competitors do not include these standard features:

- 750 C.F.M. at the hood (355 L/s)
- Spark deterrent pre-filter
- Easy maintenance
- Conveniant tool tray

- 68 dB(A) at 3' (1 meter)
- Spark proof backward inclined 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



Buffing, sanding, deburring and grinding applications on various types of surfaces always create volatile airborne contaminants.

Depending on their granular weight, these airborne contaminants are easily breathed in by the employees.

The increased face velocity at the hood allows the workers to perform in a dust free environment.

Welding process facility managers are well aware of the dangers resulting from lingering and airborne pollutants often causes of lung diseases and respitory problems

The MINICART unit with the MAXFLO bellmouth design hood is a perfect solution for source capture of those pollutants.



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.

MICART™ Affortable portable filtration unit

MINICART PORTABLE WELDING FUME AND DUST FILTRATION UNIT

Most of our competitors do not include these standard features :

- Spark deterrent filter
- 99% at 2 microns efficiency
- Powerfull 1 H.P. motor
- Filter pressure status gauge
- Easy access to filter cartridge
- Very low noise level

Ready to be used



750 to 800 C.F.M. at the hood

Spark deterrent aluminum pre-filter

260 square feet cellulosic extended pleat cartridge



Integrated starter with indicator light

Filter pressure status gauge

Convenient grab handles (2)



Convenient tool tray

Clean air exhaust louver

15' power cord with stress relief and 3 prong plug

Quick access to cartridge



Sealed frame access door

Centrally positioned fume arm for proper balance

> Heavy duty cartridge support yoke



4" swivel casters with foot brakes

MINICART MODEL SELECTION SYSTEM

| Model | Unit description | Model | Unit description | |
|-----------|--|------------|--|--|
| MINI-1700 | Unit without MAXFLO fume arm (no air pulse cleaning system) | MINI-1700P | Unit without MAXFLO fume arm with air pulse cleaning system | |
| MINI-1707 | Unit with 6"X 7' MAXFLO fume arm (no air pulse cleaning system) | MINI-1707P | Unit with 6"X 7' MAXFLO fume arm with air pulse cleaning system | |
| MINI-1710 | Unit with 6"X 10' MAXFLO fume arm (no air pulse cleaning system) | MINI-1710P | Unit with 6"X 10' MAXFLO fume arm with air pulse cleaning system | |

Note: units with standard 115/1/60 motors are supplied with starter, 15' power cord and 3 prong plug.

TECHNICAL DATA

| | | CHART 2 | | | | |
|-----------------------------|----------------|-------------------|--|--|--|--|
| Unit | | | | | | |
| Weight without arm | lb / kg | 280 / 127 | | | | |
| Weight with arm (7' or 10") | lb / kg | 335 / 151 | | | | |
| Motor | TEFC | Frame 56 / C face | | | | |
| Power supply | V / Hz | 115 / 1 / 60 | | | | |
| Power | HP / kW | 1 / 0.75 | | | | |
| Amperage draw | | 12 | | | | |
| R.P.M. | | 3450 | | | | |
| Airflow with arm | CFM / L/s | 750 / 340 | | | | |
| Airflow without arm | CFM / L/s | 850 / 400 | | | | |
| Noise level | dB(A) | 69 @ 3' (1m) | | | | |
| Dust storage capacity | Bottom of unit | 2 gallon | | | | |

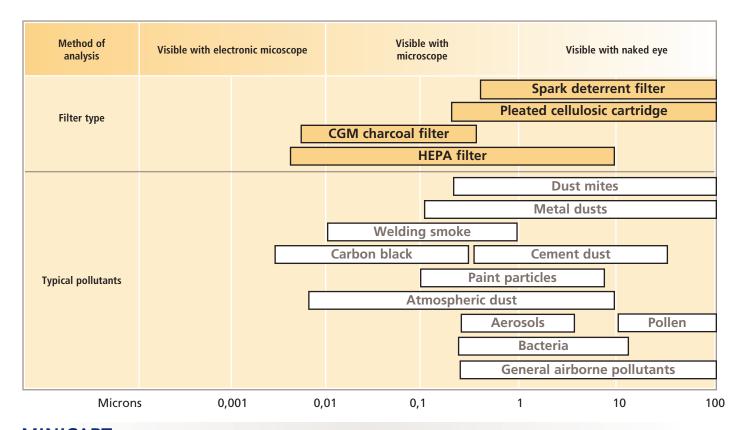
| | CHART 4 | | | |
|-------------------------------------|---------------------------------|--|--|--|
| Pulse cleaning operation (optional) | | | | |
| Manual | Push button | | | |
| Air pulse | Through venturi / reverse pulse | | | |
| Valve | Diaphragm | | | |
| Constant air connection | Not required | | | |
| Tank fill time | 4 to 6 seconds | | | |
| Air pulse duration | 200 ms | | | |
| Air tank capacity | 3 gallon | | | |
| Required air pressure | 80/90 psi | | | |
| Compressed air requirement | Dry and clean | | | |

| CHART 3 | | | | | | |
|---|------------------------------------|------|--|--|--|--|
| Filters | | | | | | |
| Prefilter (aluminium) | | | | | | |
| Quantity | 1 | | | | | |
| Dimensions (nominal) | in / mm 10 x 21 ^{3/4} x 1 | | | | | |
| Filtering efficiency | 25% @ 10 microns | | | | | |
| Maintenance | Washable / replaceable | | | | | |
| Main filter cartridge (cellulosic, 260 sq. ft.) | | | | | | |
| Quantity | 1 | | | | | |
| Dimensions (exact) | in / mm 13.75 x 26 / 342 x 660 | | | | | |
| Filtering efficiency | 99% @ 2 microns | | | | | |
| Maintenance | Cleaned by air pulse / replaceable | | | | | |
| CGM granular activated charcoa | al filter (optio | nal) | | | | |
| Quantity | | 1 | | | | |
| Dimensions (nominal) | in / mm 12 x 24 x 1 | | | | | |
| Filtering efficiency | 60-90% molecular | | | | | |
| Maintenance | Disposable/Replaceable | | | | | |
| HEPA filter (optional) | | | | | | |
| Quantity | 1 | | | | | |
| Dimensions (nominal) | in / mm 12 x 24 x 6 | | | | | |
| Filtering efficiency | 99.97% @ 0.3 micron (PAO test) | | | | | |
| Maintenance | Disposable/Replaceable | | | | | |

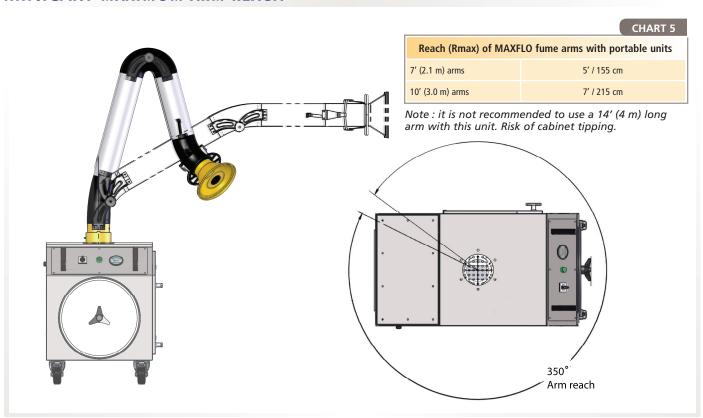
Notes:

- 1. For better cartridge cleaning results, it is a recomended to shut unit off 30 seconds prior to activating pulse.
- 2. Do not operate pulse cleaning while access door is opened.
- 3. Optional HEPA / charcoal after-filters could decrease air volume by 15-20 %.

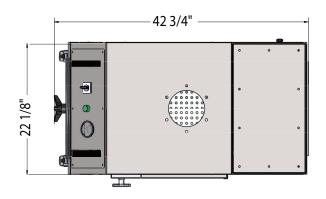
CHARACTERISTICS OF PARTICLE SIZES VERSUS FILTER EFFICIENCY



MINICART MAXIMUM ARM REACH

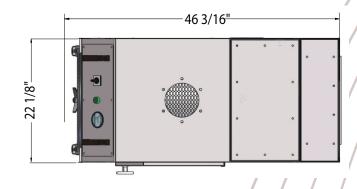


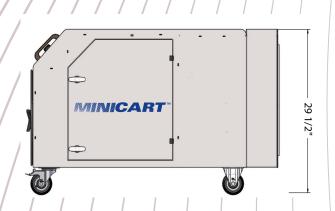
MINICART DIMENSIONS (STANDARD UNIT)



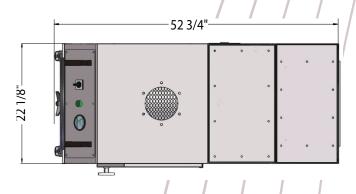


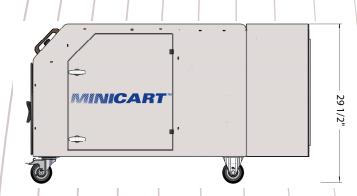
MINICART DIMENSIONS WITH CHARCOAL FILTER





MINICART DIMENSIONS WITH HEPA/CHARCOAL FILTERS





Notes: unit dimensions indicated above are with or without pulse cleaning system.

MINICART FILTERS



(standard with unit)

Spark deterrent washable aluminum pre-filter.

25% @ 10 microns

Life duration: permanent



(standard with unit)

Pleated cellulosic main cartridge. Cleaned by unit air pulse action or by facility shop compressed air system.

99% @ 2 microns

Life duration: + or - 24

months



(optional)

CGM granular activated charcoal filter

60-90% molecular weight

Life duration: 12 to 18 months



(optional)

HEPA after filter

99.97% @ 0.3 micron

Life duration: 18 to 24

months

CREATE YOUR MINICART SPECIFICATION

1. CABINET SHOULD HAVE THE FOLLOWING COMPONENTS:

Powder coat hammertoned painted steel housing, 14 gauge, 1 HP TEFC direct drive motor / fan assembly with spark proof backward inclined impeller, 3450 RPM, cartridge status pressure gauge, 15' power cord with 3 prong plug, cabinet design for low noise reduction 68 dB(A), swivel casters with foot brakes, sealed access door with turn knob, heavy duty yoke for proper horizontal cartridge support, spark deterrent primary filter, main filter cartridge (99 % efficiency), cabinet grab handles, starter with overload protection and reset, unit ON indicator light, center cabinet arm location for proper unit balancing.

| 2. | INLET | CONNECTIO | N TO | BE EO | HIDDED | WITH . |
|------------|--------|-----------|------|-------|--------|--------|
| ~ • | LIAFEL | COMMECTIO | N IO | DE EQ | UIPPED | wiin. |

- A) MAXFLO fume arm FA-1PPG6-07 (6" X 7")
- B) MAXFLO fume arm FA-1PPG6-10 (6" X 10")
- c) flanged inlet for ducting or flexible hose connection

- 3. UNIT SHOULD BE EQUIPPED WITH:
 - manual pulse cleaning with reserve air tank
 - **GM** granular activated charcoal filter in extended housing
 - HEPA (99.97 %) final filter in extended housing
- 4. UNIT SHOULD INCLUDE:
 - spare main filter cartridge
 - B) spare CGM charcoal filter
 - c) spare HEPA (99.97 %) final filter
 - **o)** spare spark deterrent filter

Note: specifications listed above may be modified to suit application. Contact D.A.S. or representative for information.

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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.