MAXICART

AQC SOURCE CAPTURE EQUIPMENT

PORTABLE DUAL CARTRIDGE FILTRATION UNIT





Portable filtration unit
1500 CFM (710 l/s)
For 1 or 2 arm configurations

- 99.9% efficiency at 1 micron
- Portable unit for welding and grinding applications
- Self cleaning by air pulse
- 3 step filtration system
- 2 dust collector trays
- Tool-free maintenance

Superior technology generating substantial operating savings

AQC
DUST COLLECTION & SOURCE CAPTURE

MAXICART™

High-Productivity Innovative Products

Compact and portable dual cartridge filtration unit

When source capture is necessary away from fixed working stations, the MAXICART unit is 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 air tank. The unit has large dust trays at the bottom and they are emptied when needed. Backward-inclined fans deliver great air volume while the foam-insulated steel cabinet ensures quiet running. The MAXICART portable unit can be equipped with MAXAIR arms. The unit may also be connected to a ductwork arrangement for remote source capture.

A Leading-Edge, High-Performance Company

The AQC Dust manufacturer fabricates a full range of safe, industrial dust collectors, as well as dust and smoke capture equipment and high pressure industrial dampers at the leading edge of air control technologies based on more than 30 years of experience in the field.

AQC's strength lies in its innovative products designed and developed to generate substantial savings throughout their entire operating life.

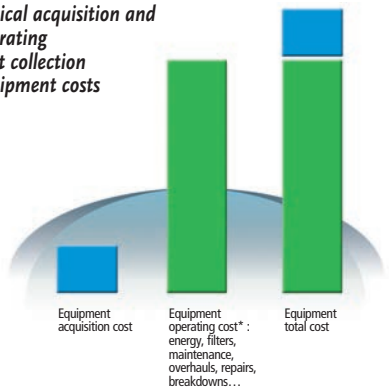
AQC is renowned for its technological innovation, safe and sophisticated equipment design, as well as its robust and precise product manufacturing. AQC stands out with its unique design of the baffles inside dust collectors making filter cleaning easy and a cartridge holder design that provides maximum filter surface, which enhances filter performance. The ultra-smooth concept inside AQC fume arms makes them maintenance-free and the durability of the heavy duty industrial dampers exceed expectations.

In short, AQC equipment is designed and built to generate substantial operating savings in terms of time, money and energy. This translates to major reductions in operating costs – from 10 to 20% – throughout the equipment's operating life. This scale of savings can represent a significant portion of the equipment's total purchase price. Companies looking to maximize their profitability should factor in these savings when purchasing equipment.

The unique design and manufacturing of AQC equipment generates significant savings for various reasons :

- Substantial increase in the duration of filters.
- Lower energy consumption during years of use.
- Significantly less maintenance (easy to clean, robust manufacturing, a minimum number of more reliable and durable parts).
- Reduced operating costs (less frequent overhauls, lack of or minimum down time, etc.).
- Lower administrative costs (coordination, follow-ups, supervision) due to much less frequent breakdowns.
- Safe design can prevent serious or even fatal accidents.
- Increased comfort and productivity of personnel.

Typical acquisition and operating dust collection equipment costs



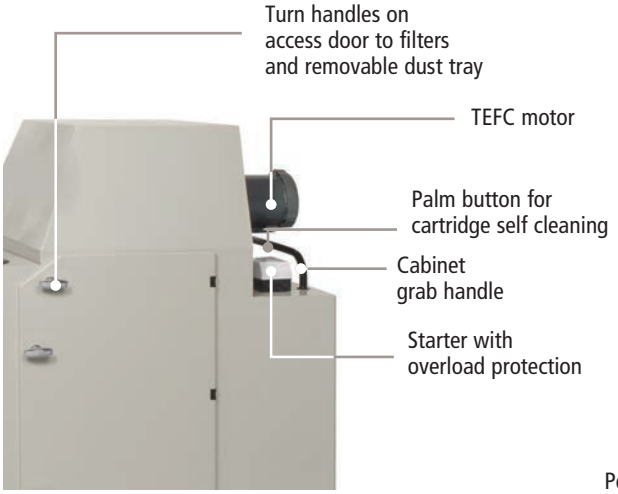
The acquisition cost is just one part of the equation. It's the total cost including the operating cost ***throughout the life cycle of the equipment*** that must be kept low. This is what AQC delivers. The advanced technology, design, robustness, durability and safety of AQC products generate major savings during the equipment's entire life cycle.

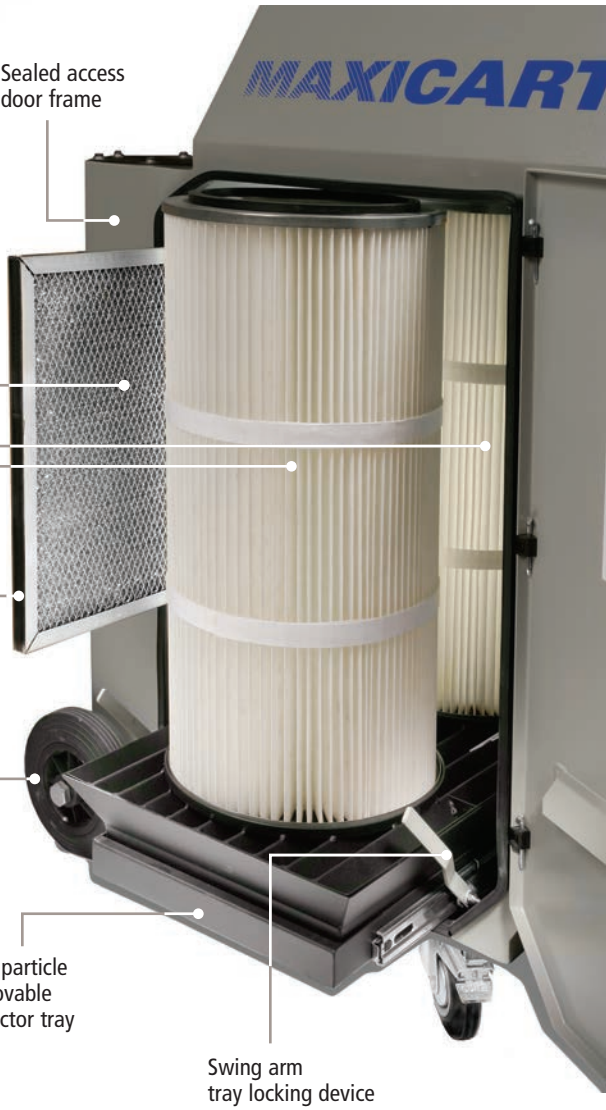
MAXICART PORTABLE FILTRATION UNIT/HIGH CFM CAPACITY

Higher air volume capability, dual or single MAXAIR fume arm option.

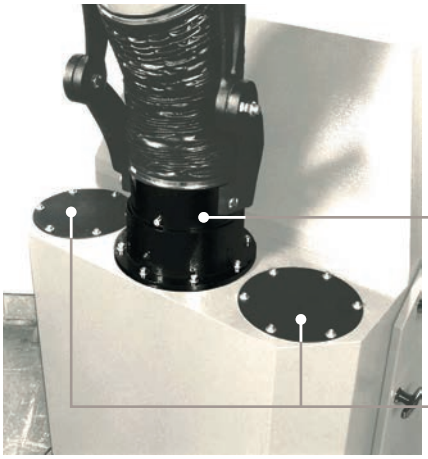
- 1500 CFM at the hood (710 l/s)
- Self-cleaning by air pulsation
- Easy maintenance
- MAXAIR arm without internal joints
- 76 dB(A) @ 3' (1 meter)
- Backward inclined spark proof polyamid impeller
- Portable source capture
- Starter included
- Easy and low cost of maintenance
- Shipped fully assembled (except for arm mount)
- Air recirculation possible
- Minimal or no spare parts required

OUTSTANDING MAXICART FEATURES





Air inlets for MAXAIR fume arm(s) or ducting



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

TECHNICAL DATA

Models

CHART 6

Description	3 HP motor 208/230/1/60	3 HP motor 208/230/460/3/60	3 HP motor 575/3/60
Unit without arm	MC-1500-122	MC-1500-324	MR-1500-35
Unit with 1 Maxair arm 8" x 7'	MC-1587-122	MC-1587-324	MR-1587-35
Unit with 1 Maxair arm 8" x 10'	MC-15810-122	MC-15810-324	MR-15810-35
Unit with 2 Maxair arms 6" x 7'	MC-15267-122	MC-15267-324	MC-15267-35
Unit with 2 Maxair arms 6" x 10'	MC-152610-122	MC-152610-324	MC-152610-35

Note: Units are supplied with a starter and a 15' (4.5m) power cord (plug not included).

Specifications

CHART 7

Unit		
Weight without arm	lbs / kg	345 / 156
Weight with (1) arm — (2) arms	lbs / kg	405 / 184 — 465 / 211
Motor	TEFC	Frame 56 / C face
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	90 P.S.I	
Pressured air connection	1/4" N.P.T.	
Airflow with (1) arm — (2) arms	CFM / l/s	1200 / 2035 — 350/ 640
Airflow without arms	CFM / l/s	1500 / 710
Noise level	dB(A)	76 @ 3' (1 m)
Dust storage capacity	Tray # 1	4.5 gallons

Filter specifications

CHART 8

Filters		
Prefilter included (aluminium)		
Quantity	1	
Dimensions	in / mm	17 x 21 x 1 / 431 x 533 x 25
Filtering efficiency	25% @ 10 microns	
Maintenance	Washable / replaceable	
Main cartridge included (polyester, total of 260 sq. ft.)		
Quantity	2	
Dimensions	in / mm	12.8 x 26 / 325 x 660
Filtering efficiency	99.9 % @ 1 micron	
Maintenance	Cleaned by air pulse / replaceable	
Final filter included (polyester fabric)		
Quantity	1	
Dimensions	in / mm	21 x 26 x 1 / 533 x 660 x 25
Filtering efficiency	30 % molecular	
Maintenance	Replaceable	
HEPA after-filter with rack (optional)		
Quantity	1	
Dimensions	in / mm	20 x 25 x 6 / 508 x 635 x 152
Filtering efficiency	99.97 %	
Maintenance	Replaceable	
CGM granular activated charcoal final filter (optional)		
Quantity	1	
Dimensions	in / mm	26.25 x 21 x 0.875 / 666 x 533 x 22
Filtering efficiency	60-90 % molecular	
Maintenance	Replaceable	

Cleaning specifications

CHART 9

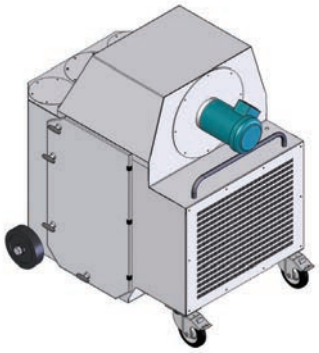
Pulse cleaning operation	
Method	Push button standard (automatic optional)
Air pulse	Through venturi / reverse pulse
Valve	Diaphragm
Constant air connection	Not required
Tank fill time	4 to 6 seconds
Air pulse duration	200 ms
Air tank capacity	3 gallon
Required air pressure	90 psi
Compressed air requirement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

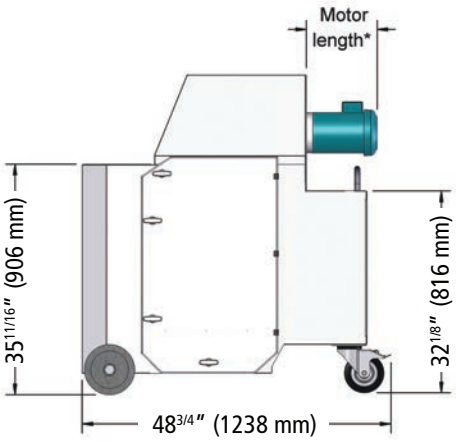
Amperage specifications

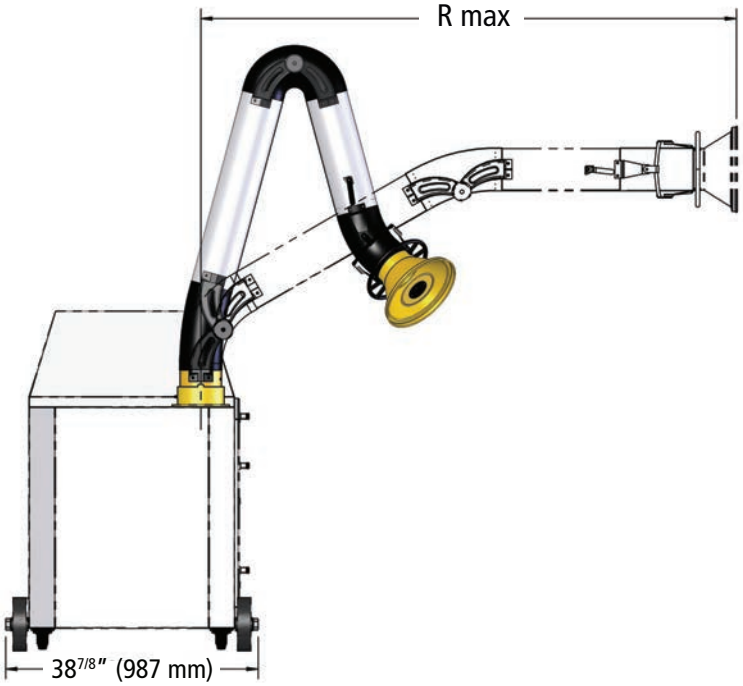
CHART 10

Amperage draw		Amperage draw	
208/230/1/60	17 amps	460/3/60	4.8 amps
208/230/3/60	9.6 amps	575/3/60	3.9 amps

MAXICART DIMENSIONS







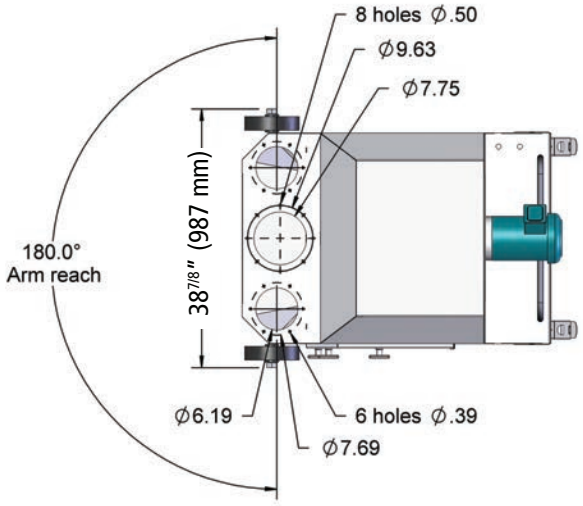


CHART 11

Reach (Rmax) of MAXAIR fume arms with portable units	
7′ (2.1 m) arms	5′ / 1.5 m
10′ (3 m) arms	7′ / 2.1 m

Safety note: Units are not designed to collect possible explosive dusts such as aluminum, magnesium, wood chips or other explosive materials.

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 EXPLOSIVE DUSTS IN UNITS***.

Notes:

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

Portable dual cartridge filtration unit

MAXICART™

MAXICART SPECIFICATION

1. Unit:

Powder coat painted steel housing, 14 gauge, 3 HP TEFC direct drive motor/fan assembly with spark proof backward inclined polyamid impeller, 3450 RPM, sound insulation foam for noise reduction 76 dB(A), swivel casters with foot brakes, sealed access door with twist handles, spark deterrent primary filter, (2) main filter cartridges (99.9 % efficiency), polyester fabric charcoal 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, removable dust drawer.

2. Voltage:

230 / 1 / 60 ☐ 208/ 230/3/ 60 ☐

460 / 3 / 60 ☐ 575 / 3 / 60 ☐

3. Inlet connection equipped with:

a) (2) MAXAIR fume arms FA-PPG6-07 (6" X 7') ☐

b) (2) MAXAIR fume arms FA-PPG6-10 (6" X 10') ☐

c) (1) MAXAIR fume arm FA-PPG8-07 (8" X 7') ☐

d) (1) MAXAIR fume arm FA-PPG8-10 (8" X 10') ☐

e) Flanged inlets for ducting or flexible hoses connection ☐

5. Unit should be equipped with:

a) Automatic pulse cleaning with electronic control panel ☐

b) Light kit with hood switch ☐

c) Hood mounted fan switch ☐

d) Light kit with hood switch and hood mounted fan switch ☐

e) CGM granular activated charcoal filter ☐

f) HEPA (99.97 %) final filter in exterior housing ☐

g) Filter status pressure gauge ☐

Note: Specifications listed above may be modified to suit application. Contact AQC or representative for information.

Your AQC representative is:

AQC DUST COLLECTION & SOURCE CAPTURE

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