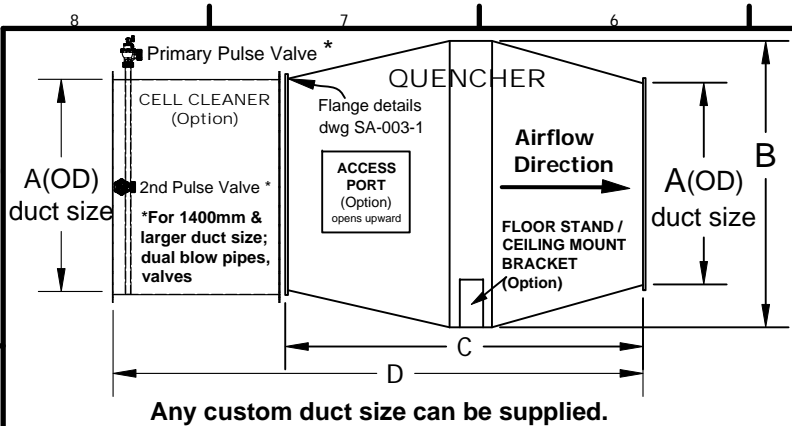


Standard QUENCHER Spark Arrestor

For common ducted dust collection



CONSTRUCTION:

- Built to; ISO 9001-2008 and CWB certified
- Three styles are available;
 - QUENCHER STANDARD MODEL (Qxxx); includes transitions upstream and downstream to duct size.
 - QUENCHER CELL ONLY (QCxxx); can be inserted into an existing duct, of equal diameter.
 - MINI-QUENCHER; for high pressure vacuum systems
- Products are built to North American compliance with EPA, OSHA, NFPA, SMACNA round duct standards. Compliance with local codes and standards, and accuracy of order to job site operating conditions are the responsibility of the purchaser.
- HRS welded construction; Q008 to Q048 = 14 gauge, Q060 to Q084 = 12 gauge, Q096 to Q120 = 10 gauge, good up to 343°C. Special construction available; SS=304 & 316 stainless steel, MD=medium duty for temperature above 343°C, HD=heavy duty for abrasion and tough applications.
- Reducer-transition sections are supplied at both the inlet and outlet of the Quencher cell with a slope not to exceed 15°. These transition sections are designed to adapt the QUENCHER to the most common duct sizes. Other duct sizes are available upon request.
- Paint Finish; Terra Brown RAL8028, outside surfaces, alkylene degreased, iron phosphate chemical etch, Q008 to Q072 are powder coated, Q084 TO Q120 are primed and top coat painted two part epoxy, good to 121°C. Special high temperature, corrosion and abrasion resistant finishes available upon request.
- Flanges and bolt pattern are according to the drawing SA-003 Flanges & Adapters. Others are available with purchaser's specification.
- Pressure drop is 0.23 - 0.643kPa at rated flow (Nm3/hr). It is recommended to allow at least 5 duct diameters of straight duct upstream (inlet side) and downstream (outlet side) of the QUENCHER, otherwise pressure drop will be unpredictable.
- Dust Loading of up to 80-103 grams per cubic meter can be tolerated.

Dimensions: CU METRES/HR , MILLIMETRES, KILOGRAMS

| MODEL | Nm3/hr (1) min - max | A diam. | B (2) diam. | C | D | ACCESS PORT | WEIGHT | WEIGHT w/ cell cleaner |
|-------|-------------------------|------------|----------------|------|------|----------------|--------|---------------------------|
| Q008 | 803-1300 | 152 | 203 | 355 | 737 | n/a | 5 | 10 |
| Q010 | 1284-2086 | 203 | 254 | 355 | 940 | n/a | 7 | 14 |
| Q011 | 1541-2568 | 203 | 279 | 457 | 940 | n/a | 8 | 16 |
| Q014 | 2408-3852 | 254 | 355 | 610 | 1194 | 152 x 254 | 14 | 26 |
| Q016 | 3371-5296 | 305 | 406 | 610 | 1194 | 152 x 254 | 20 | 31 |
| Q020 | 4976-8185 | 355 | 508 | 813 | 1499 | 254 x 254 | 31 | 45 |
| Q024 | 7865-12198 | 457 | 610 | 864 | 1753 | 254 x 254 | 41 | 58 |
| Q026 | 8667-14445 | 508 | 660 | 864 | 1753 | 254 x 254 | 43 | 64 |
| Q030 | 11556-19,099 | 559 | 762 | 1118 | 2007 | 254 x 254 | 62 | 88 |
| Q038 | 18,458-30,816 | 711 | 965 | 1372 | 2311 | 305 x 305 | 96 | 137 |
| Q048 | 29,693-48,952 | 914 | 1219 | 1626 | 2718 | 305 x 305 | 151 | 213 |
| Q060 | 46,545-76,237 | 1118 | 1524 | 2032 | 3277 | 457 x 457 | 312 | 414 |
| Q072 | 67,410-110,745 | 1372 | 1829 | 2337 | 3734 | 457x 457 | 429 | 592 |
| Q084 | 91,485-150,870 | 1575 | 2134 | 2692 | 4089 | 457 x 457 | 592 | 776 |
| Q096 | 118,770-197,415 | 1829 | 2438 | 2997 | 4445 | 610 x 610 | 957 | 1143 |
| Q108 | 150,067-249,577 | 2032 | 2743 | 3302 | 4826 | 610x 610 | 1245 | 1571 |
| Q120 | 185,378-307,357 | 2235 | 3048 | 3861 | 5385 | 610 X 610 | 1809 | 2161 |

AUTOMATIC CELL CLEANER (not available with Mini-Quencher):

- A high pressure pulse is periodically injected to the air stream which blows out accumulated debris that may have settled in the turbulence cell.
- Standard voltage for diaphragm valve is 120 VAC/60 Hz, UL/ULC approval. Other voltages available.

OPTIONS:

- ACCESS PORT on upstream side of Quencher assembly, c/w piano hinge and spring latch. Standard position as shown.
- FLOOR STAND / CEILING MOUNT BRACKET; to mount the Quencher on the floor or from the ceiling.
- UPGRADED CONSTRUCTION; SS=304 & 316 stainless steel, MD=medium duty for above 343°C HD=heavy duty for abrasion and tough applications.
- NON-STANDARD INLET/OUTLET connections; Custom build, adds 2-4 weeks to delivery.
- COMPANION FLANGES; matching set of flanges for the install on the duct.
- ROLLED EDGE adapter (for clamp together ducts); available for 152.4 to 609.6 mm duct, adds 127mm to "C" or "D" dimension.
- SLEEVE JOINT (slip / raw edge) for slip on ducting, **not recommended for Q024 and larger models.**

CAUTION: For conditions other than standard air (21°C, 0% RH or moisture, sea level, and refrigeration cycle effects), consult factory. Selection of any spark arrestor must be done by a professional who knows how to make necessary adjustments when dealing with conditions other than ideal standard air.

QAM reserves the right to change design and specifications without notice.

- DO NOT Operate Below the Minimum Nm3/hr
- There is a dimension tolerance of "B" + 13mm, depending on the material thickness.

| | | | | | | | |
|----------------------------------|--|------------------------|--|--|------------|----------------------------------|--|
| COMPANY | | QUALITY AIR MANAGEMENT | | ALL DIMENSIONS ARE IN INCHES UNLESS STATED OTHERWISE | | PROJECTION | |
| Phone: 1-800-267-5585 | | www.qamanager.com | | 4 | 7/17/2020 | added detail to image | |
| | | | | 3 | 2/18/2020 | Created metric version | |
| | | | | 2 | 11/13/2019 | added new models, deleted others | |
| | | | | 1 | 10/11/2019 | replaces all previous versions | |
| TITLE | | PAGE | | SCALE | | REV. DATE | |
| Q-series Specifications (metric) | | 1 OF 1 | | NTS | | REVISION DESCRIPTION | |
| DATE | | DATE | | SCALE | | DWG. NO. | |
| Sep 26, 2019 | | Sep 26, 2019 | | NTS | | SA-001-2 | |