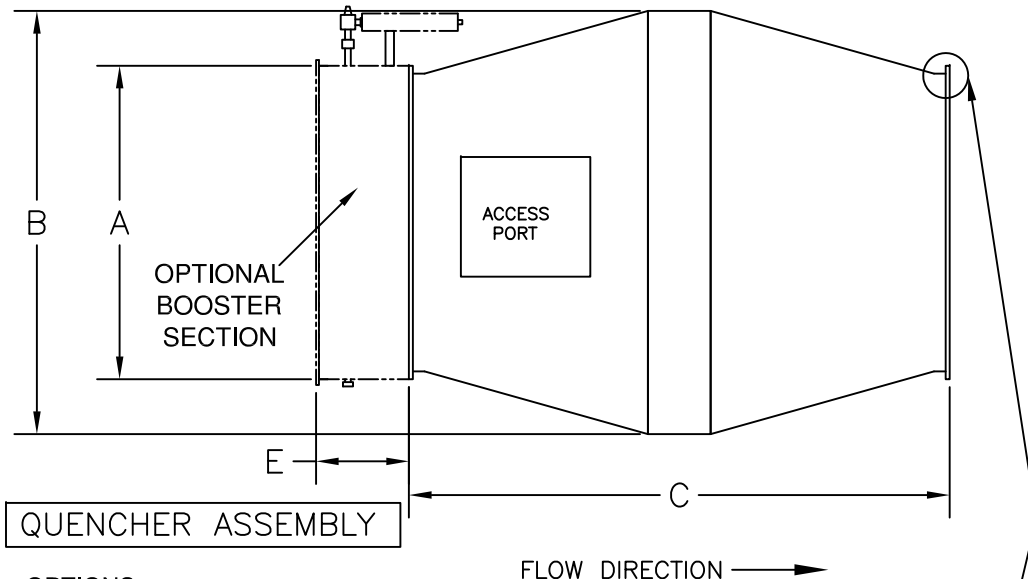


MODEL	SCFM	A	B	C	E	H	ACCESS PORT	WEIGHT (lb)
Q008	490-820	6	8	14	14	1	n/a	20/45
Q010	790-1310	8	10	14	16	1	n/a	25/50
Q012	1100-1840	10	12	16	16	1	n/a	30/60
Q016	1800-3000	12	16	26	18	1	6 x 10	55/115
Q020	2980-4960	14	20	36	18	1.5	10 x 10	105/150
Q024	4420-7360	18	24	38	20	1.5	10 x 10	150/215
Q030	7070-11,800	22	30	46	20	1.5	10 x 10	190/350

MODEL	SCFM	A	B	C	E	H	ACCESS PORT	WEIGHT (lb)
Q038	11,300-18,800	28	38	56	28	2	12 x 12	400/550
Q048	18,300-30,600	36	48	66	30	2	12 x 12	625/800
Q060	28,900-48,200	44	60	80	38	2	18 x 18	940/1250
Q072	41,600-69,300	54	72	88	38	2.5	18 x 18	1360/1900
Q084	56,500-94,200	64	84	96	48	3	18 x 18	1850/2550
Q096	74,200-123,700	72	96	116	48	3	24 x 24	2600/3400
Q108	94,200-157,100	80	108	128	56	3.5	24 x 24	3500/4600

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

A = OD of duct connection, not flange. Add 2x"H" for OD of flange.



**OPTIONS:**

1. BOOSTER DUCT CLEANER, boost the gas flow by 100 percent for approximately 0.1-0.2 seconds mounted upstream from the Quencher. This will help flush dust, into the gas stream, that might be accumulated in the Quencher cell. Standard voltage for the diaphragm valve is 120 AC / 60 Hz. Ask for our "Booster" technical bulletin.
2. ACCESS PORT on upstream side of Quencher assembly.
3. PAINT; Alkyline degreased, iron phosphate chemical etch, Q-8 to Q-72 are powder coated, large units are primed and top coat painted two part epoxy, medium blue, outside surfaces.
4. COMPANION FLANGES with matching bolt hole pattern on Quencher.
5. Non-standard inlet & outlet connections.

**Job:** \_\_\_\_\_  
**Model:** \_\_\_\_\_

**Approved for Production (sign):** \_\_\_\_\_

**Print:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Weights are shown as "Quencher alone / with booster".

**Static Device with No Moving Parts**

**Two styles** are available;

- (1) QUENCHER ASSY (Q-xx) includes transitions to convert from upstream and downstream duct diameter to the diameter of the quencher cell.
- (2) QUENCHER CELL ONLY (QC-xx) can be inserted into an existing duct.

**Pressure drop is 0.70 - 1.94 inch WC** at rated flow (SCFM). It is recommended to allow at least 5 duct diameters upstream (inlet side) and downstream (outlet side) of the QUENCHER, otherwise pressure drop will be unpredictable. *Pressure drop readings, taken in the field, are difficult to rely on due to the extreme turbulence developed in the QUENCHER cell. It requires at least 5 duct diameters of straight duct beyond the cell or outlet of the reducer section. It also requires perfectly laminar flow at the upstream reading.*

**Dust Loading** of up to 35-45 grains per cubic foot can be tolerated.

- Built to **ISO 9001-2000 & CWB certified to CSA W47.1**
  - HRS welded construction, meeting SMACNA standards.
  - Q-8 to Q-48 are 14 gauge, Q-60 to Q-84 are 12 gauge, Q-96 & Q-108 is 10 gauge.
  - 1 to 3.5 inch flanges are provided at the inlet and outlet, meeting SMACNA standards. **"Bolt pattern" holes not provided unless ordered with companion flanges.**
  - Fixed curved blade assembly that thoroughly agitates the gas flow in the duct to produce turbulent flow which extinguishes and cools any sparks to within 50°F of the temperature in the process gas stream.
- Embers & sparks get extinguished mostly in the Quencher cell itself. Combusting material, such as paper or wood shavings, must be completely consumed within 4 duct diameters past the Quencher (where there is still enough turbulence) and taken the form of embers to be extinguished.

COMPANY:		<b>QUALITY AIR MANAGEMENT</b>	
TITLE:		<b>QUENCHER</b>	
DWG.No.	Q-001	REV. No.	4
DATE:	June 5, 2009	DATE:	9/7/2010
SCALE:	N.T.S.	DRAWN BY:	DLP