

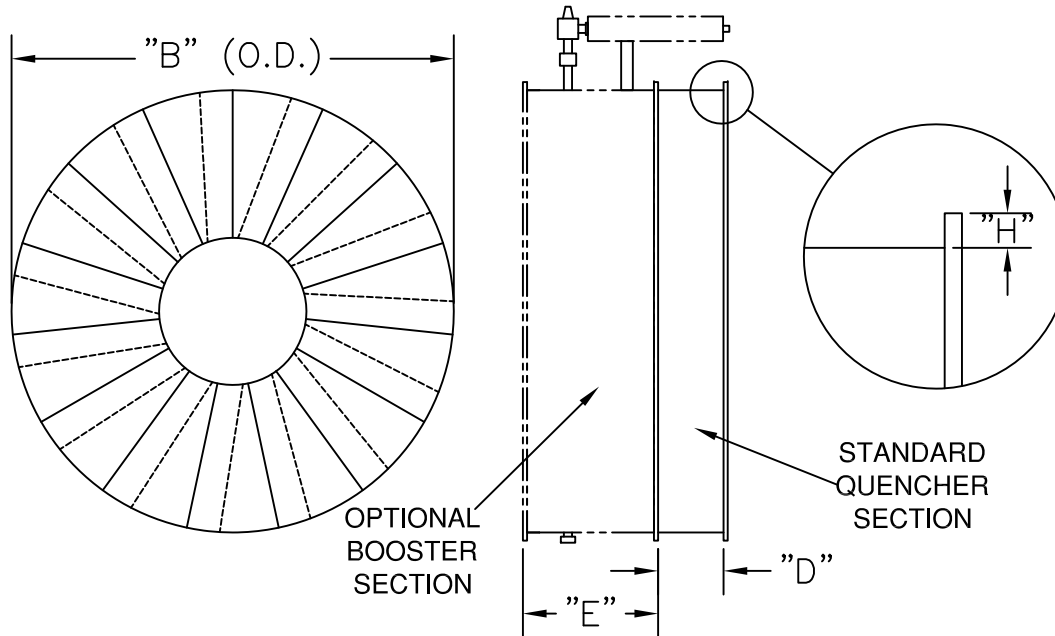
MODEL	SCFM	B	D	E	H	Weight(lb)
QC008	490-820	8	6	22	1	16 / 40
QC010	790-1310	10	6	24	1	20 / 45
QC012	1100-1840	12	8	24	1	25 / 55
QC014	1470-2450	14	10	26	1.5	30 / 70
QC016	1800-3000	16	10	30	1.5	46 / 106
QC020	2980-4960	20	12	36	1.5	75 / 160
QC024	4420-7360	24	14	36	1.5	95 / 210

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

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

D = Standard Quencher Length

E = Added Length for Booster Section



OPTIONS:

1. BOOSTER DUCT CLEANER, to boost the gas flow by 100 percent for approximately 0.1 to 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. PAINT; Q-8 to Q-72 are powder coated, large units are primed and top coat painted Medium Blue, outside surfaces.
3. COMPANION FLANGES with matching bolt hole pattern on Quencher.

Job:
Model:

Approved for Production (sign): _____

Print: _____ **Date:** _____

ALL DIMENSIONS ARE INCHES

MODEL	SCFM	B	D	E	H	Weight(lb)
QC030	7070-11,800	30	16	34	2	100 / 220
QC038	11,300-18,800	38	16	40	2	200 / 450
QC048	18,300-30,600	48	18	48	2	315 / 700
QC060	28,900-48,200	60	20	50	2.5	470 / 1000
QC072	41,600-69,300	72	20	56	3	700 / 1600
QC084	56,500-94,200	84	20	56	3.5	950 / 2200
QC096	74,200-123,700	96	24	66	3.5	1400 / 3000

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 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:			QUALITY AIR MANAGEMENT		
TITLE:			QUENCHER, Cell Only		
DWG.No.	QC-001		REV. No.	1	
			DATE:	22/6/2009	
DATE:	June 5, 2009		SCALE:	N.T.S.	
			DRAWN BY:	QAM	