QFC Unit Capacities & Damper Leakage

QFC, UNIT CAPACITIES

Unit Size	Inlet Size	QFC with PSC Motor								QFC with Attenuator			
		Primary Airflow		Fan Airflow		Motor HP	Motor Amps			Primary Airflow		Fan Airflow	
		Max.	Min.	Max.	Min.		120V	208/240V	277V	Max.	Min.	Max.	Min.
2	6	515	90 or 0	560	100	1/10	1.8	1	0.7	480	90 or 0	480	100
3	6	515	90 or 0	990	300	1/4	3.6	2	1.5	515	90 or 0	890	300
	8	920	160 or 0							890	160 or 0		
4	8	920	160 or 0	1440	550	1/4	5	2.8	2.1	920	160 or 0	1400	580
	10	1430	250 or 0							1400	250 or 0		
	12	1440	360 or 0							1400	360 or 0		
5	10	1430	250 or 0	2140	1100	1/2	8.3	4.6	3.5	1430	250 or 0	2050	1100
	12	2060	360 or 0							2050	360 or 0		
6	12	2060	360 or 0	2530	1200	3/4	9.5	5.8	4.4	2060	360 or 0	2500	1200
	14	2530	480 or 0							2500	480 or 0		
7	16	3660	630 or 0	3900	2100	(2) 3/4	N/A	13.2	9.9	3660	630 or 0	3900	2100

Unit Size	Inlet Size	QFC with ECM Motor							
		Primary Airflow		Fan Airflow		Motor HP	Motor Amps		
		Max.	Min.	Max.	Min.		120V	208/240V	277V
3	6	515	90 or 0	1100	165	1/2	7.7	5.0	4.1
	8	920	160 or 0						
6	10	1430	250 or 0	2550	385	1	12.8	10.5	6.9
	12	2060	360 or 0						
	14	2550	480 or 0						
7	16	3660	630 or 0	4550	685	(2) 1	N/A	21.0	13.8

NOTES: QFC maximum primary airflow (CFM) is based on 1.00" WG differential pressure signal from inlet airflow sensor until the value reaches maximum fan CFM for that unit size. A properly balanced QFC unit will be set so the maximum primary CFM is never greater than the fan CFM. Minimum recommended airflow (CFM) is based on 0.03" WG differential pressure of the inlet airflow sensor, or 0 CFM. 0.03" WG is equal to 15%–20% of the nominal flow rating of the terminal. Less than 15%-20% may result in greater than +/-5% control of box flow. Maximum/minimum fan airflow (CFM) is based on 0.10"/0.60" WG external downstream static pressure. See page B2-60 and B2-61 for complete fan curves. Unit size 7 motor amps includes amperage for two motors.

QFC, DAMPER LEAKAGE DETAIL

Inlet Size	Damper Leakage		
	1.5" WG CFM	3.0" WG CFM	6.0" WG CFM
6	4	5	7
8	4	5	7
10	4	5	7
12	4	5	7
14	4	6	8
16	5	7	9

NOTES: Damper leakage is measured with the damper fully closed using an actuator. A precision low flow orifice is used upstream of the unit to measure the leakage rate as a function of the measured upstream static pressure. Leakage testing conducted in accordance with ASHRAE 130-2008.