KQFS Unit Capacities & Damper Leakage

KQFS, UNIT CAPACITIES

		KQFS with PSC Motor							
Unit Size	Inlet Size	Primary Airflow		Fan Airflow		Motor HP	Motor Amps		
		Max.	Min.	Max.	Min.		120V	208/240V	277V
2	6	515	90 or 0	530	50	1/10	1.4	0.8	0.6
	8	530	160 or 0						
3	6	515	90 or 0	1110	200	1/4	4.3	2.4	1.8
	8	920	160 or 0						
	10	1110	250 or 0						
	12	1110	360 or 0						
4	8	920	160 or 0	1400	500	1/4	4.3	2.4	1.8
	10	1400	250 or 0						
	12	1400	360 or 0						
5	10	1425	250 or 0	1850	800	1/2	8.3	4.4	3.5
	12	1850	360 or 0						
	14	1850	480 or 0						
6	10	1425	250 or 0	2600	1200	3/4	9.5	5.0	4.4
	12	2060	360 or 0						
	14	2600	480 or 0						
	16	2600	630 or 0						
7	10	1425	250 or 0	3000	1250	1	N/A	7.1	5.3
	12	2060	360 or 0						
	14	2800	480 or 0						
	16	3000	630 or 0						

		KQFS with ECM Motor							
Unit Size	Inlet Size	Primary Airflow		Fan Airflow		Motor HP	Motor Amps		
		Max.	Min.	Max.	Min.		120V	208/240V	277V
3	6	515	90 or 0	1050	250	1/2	7.7	5.0	4.1
	8	920	160 or 0						
	10	1050	250 or 0						
	12	1050	360 or 0						
6	10	1425	250 or 0	2000	500	1	12.8	10.5	6.9
	12	2000	360 or 0						
	14	2000	480 or 0						
	16	2000	630 or 0						
7	10	1425	250 or 0	2500	600	1	12.8	10.5	6.9
	12	2060	360 or 0						
	14	2500	480 or 0						
	16	2500	630 or 0						

NOTES: KQFS 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 KQFS 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 B2-15 and B2-16 for complete fan curves.

KQFS, DAMPER LEAKAGE DETAIL

	Damper Leakage		
Inlet Size	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.