

KVF SERIES

Vertical | Standard



AHRI RATINGS

MODEL	SIZE	COIL		AIRFLOW CFM (DRY FLOW)	COOLING CAPACITY		WATER		POWER INPUT (Watts)
		ROWS	FPI		QT (BTUH)	QS (BTUH)	FLOW RATE (GPM)	WPD (ft-wg)	
KVFH	02	3	12	231	5700	4400	1.3	2.6	38
	03	3	12	311	8500	6300	1.9	5.85	46
	04	3	12	425	10500	8100	2.4	3.04	51
	06	3	12	602	14900	11400	3.3	2.88	77
	08	3	12	796	19800	14900	4.5	5.62	181
	10	3	12	983	27600	20100	6.3	7.42	170
	12	3	12	1192	28100	21700	6.4	2.88	298
	02	4	12	210	7800	5500	1.8	6.16	41
	03	4	12	281	9100	6800	2.1	2.72	56
	04	4	12	375	12200	9100	2.8	2.3	63
	06	4	12	546	21400	14700	4.9	8.58	87
	08	4	12	722	27400	19000	6.2	14.33	200
	10	4	12	901	35300	24300	7.9	15.57	192
	12	4	12	1098	35100	26200	7.9	2.16	330
KVFF	02	3	12	221	5500	4300	1.3	2.44	45
	03	3	12	301	8300	6200	1.9	5.63	44
	04	3	12	423	10600	8100	2.4	3.05	49
	06	3	12	599	14900	11400	3.3	2.88	77
	08	3	12	823	20400	15400	4.7	6.04	197
	10	3	12	981	27700	20100	6.3	7.42	180
	12	3	12	1178	28200	21700	6.4	2.88	212
	02	4	12	200	7500	5300	1.7	5.91	62
	03	4	12	269	8700	6500	1.9	2.4	47
	04	4	12	379	12300	9100	2.8	2.3	54
	06	4	12	546	21300	14700	4.8	8.3	84
	08	4	12	748	28200	19600	6.4	15.19	218
	10	4	12	893	35300	24200	7.9	15.57	197
	12	4	12	1077	35000	25900	7.9	2.17	225
KVFS	02	3	12	221	5500	4300	1.3	2.44	45
	03	3	12	301	8300	6200	1.9	5.63	44
	04	3	12	423	10600	8100	2.4	3.05	49
	06	3	12	599	14900	11400	3.3	2.88	77
	08	3	12	823	20400	15400	4.7	6.04	197
	10	3	12	981	27700	20100	6.3	7.42	180
	12	3	12	1178	28200	21700	6.4	2.88	212
	02	4	12	200	7500	5300	1.7	5.91	62
	03	4	12	269	8700	6500	1.9	2.4	47
	04	4	12	379	12300	9100	2.8	2.3	54
	06	4	12	546	21300	14700	4.8	8.3	84
	08	4	12	748	28200	19600	6.4	15.19	218
	10	4	12	893	35300	24200	7.9	15.57	197
	12	4	12	1077	35000	25900	7.9	2.17	225

NOTES: Based on 80°F DB and 67°F WB EAT, 45°F EWT, 10°F temperature rise, high fan speed. Motor type is ECM and motor voltage is 115/1/60. Airflow under dry coil conditions. Model KHFE tested at 0.0" external static pressure. Model KHFP tested at 0.05" external static pressure.

UNIT WEIGHTS

COMPONENT	UNIT SIZE						
	02	03	04	06	08	10	12
KVFH BASE UNIT	36 [16]	45 [20]	55 [25]	62 [28]	66 [30]	92 [42]	105 [48]
KVFF BASE UNIT	66 [30]	74 [34]	87 [39]	96 [44]	102 [46]	131 [59]	149 [68]
KVFS BASE UNIT	68 [31]	76 [34]	89 [40]	99 [45]	102 [46]	135 [61]	153 [69]
COIL ROWS	1 - DRY	9 [4]	10 [5]	12 [5]	14 [6]	15 [7]	21 [9]
	1 - WET	12 [5]	13 [6]	17 [7]	19 [9]	20 [9]	29 [13]
	2 - DRY	12 [5]	13 [6]	16 [7]	17 [8]	19 [9]	24 [11]
	2 - WET	16 [7]	17 [8]	21 [9]	25 [11]	26 [12]	37 [17]
	3 - DRY	15 [7]	17 [8]	19 [9]	23 [10]	24 [11]	29 [13]
	3 - WET	19 [9]	21 [10]	26 [12]	31 [14]	33 [15]	41 [18]
	4 - DRY	18 [8]	21 [10]	25 [11]	29 [13]	31 [14]	37 [17]
	4 - WET	25 [11]	27 [12]	34 [15]	40 [18]	42 [19]	51 [23]

NOTE: Unit weight data is in pounds [kilograms].

HEATING CAPACITY

UNIT SIZE	1-ROW				2-ROW			
	CFM	QS (MBH)	GPM	WPD	CFM	QS (MBH)	GPM	WPD
KVF02	230	7579	0.4	0.45	226	12930	0.7	0.38
KVF03	315	10460	0.5	0.76	297	17719	0.9	0.55
KVF04	454	12310	0.6	0.22	429	24969	1.3	1.22
KVF06	562	14369	0.7	0.11	542	30979	1.6	0.23
KVF08	627	8760	0.5	0.01	598	34909	1.8	0.29
KVF10	885	23870	1.2	0.1	836	50810	2.6	0.65
KVF12	959	31290	1.6	0.18	917	51639	2.7	0.14

NOTE: Based on 70°F DB EAT, 180°F EWT, 40°F temperature drop, high fan speed.

PERFORMANCE DATA | PSC MOTOR & FAN DATA

UNIT SIZE	FAN SPEED	MOTOR HP (QTY)	# OF FANS	115 VOLTS		208-230 VOLTS		277 VOLTS	
				AMPS	WATTS	AMPS	WATTS	AMPS	WATTS
02	HIGH	(1) 1/50	1	0.40	45	N/A	N/A	0.21	57
	MEDIUM			0.31	35	N/A	N/A	0.19	44
	LOW			0.27	28	N/A	N/A	0.18	40
03	HIGH	(1) 1/30	1	0.55	60	N/A	N/A	0.31	73
	MEDIUM			0.43	48	N/A	N/A	0.26	60
	LOW			0.40	43	N/A	N/A	0.24	54
04	HIGH	(1) 1/20	2	0.62	70	N/A	N/A	0.27	76
	MEDIUM			0.56	61	N/A	N/A	0.21	65
	LOW			0.54	58	N/A	N/A	0.20	58
06	HIGH	(1) 1/20	2	0.71	80	N/A	N/A	0.30	87
	MEDIUM			0.66	74	N/A	N/A	0.26	77
	LOW			0.59	61	N/A	N/A	0.22	64
08	HIGH	(1) 1/10	2	1.03	114	N/A	N/A	0.40	114
	MEDIUM			0.77	81	N/A	N/A	0.28	80
	LOW			0.70	71	N/A	N/A	0.25	70
10	HIGH	(2) 1/20	4	1.18	132	N/A	N/A	0.53	144
	MEDIUM			1.03	114	N/A	N/A	0.42	120
	LOW			0.99	107	N/A	N/A	0.37	106
12	HIGH	(2) 1/20	4	1.26	142	N/A	N/A	0.57	154
	MEDIUM			1.14	126	N/A	N/A	0.45	131
	LOW			1.08	114	N/A	N/A	0.40	114

NOTES: Exposed unit, 3-row coil, no EH, no toe kick, standard throw away panel filter. Data was taken without ductwork. Unit size 04, 06, 08, 10 and 12 data generated at 115v, 277v. Unit size 02 & 03 data generated with 115v, 240v to 120v transformer (230v line voltage) and 277v to 120v transformer (277v line voltage). For FLA, use unit voltage and size at high speed.

KVF SERIES

Vertical | Standard



PERFORMANCE DATA | EC MOTOR & FAN DATA

VERTICAL CONCEALED

UNIT SIZE	FAN SPEED	MOTOR HP (QTY)	# OF FANS	WATTS	115 VOLTS		208-230 VOLTS		277 VOLTS	
					FLA	3-PHASE NEUTRAL	FLA	3-PHASE NEUTRAL	FLA	3-PHASE NEUTRAL
02	HIGH	(1) 1/4	1	58	1.0	1.7	0.6	1.0	0.5	0.9
03	HIGH	(1) 1/4	1	75	1.3	2.3	0.8	1.4	0.7	1.2
04	HIGH	(1) 1/4	2	78	1.3	2.3	0.8	1.4	0.7	1.2
06	HIGH	(1) 1/4	2	144	2.3	4.0	1.4	2.4	1.2	2.1
08	HIGH	(1) 1/4	2	221	3.4	5.9	2.1	3.6	1.7	2.9
10	HIGH	(2) 1/4	4	224	3.6	6.2	2.2	3.8	1.8	3.1
12	HIGH	(2) 1/4	4	283	4.4	7.6	2.6	4.5	2.2	3.8

VERTICAL EXPOSED / SLOPED TOP

UNIT SIZE	FAN SPEED	MOTOR HP (QTY)	# OF FANS	WATTS	115 VOLTS		208-230 VOLTS		277 VOLTS	
					FLA	3-PHASE NEUTRAL	FLA	3-PHASE NEUTRAL	FLA	3-PHASE NEUTRAL
02	HIGH	(1) 1/4	1	60	1.0	1.7	0.6	1.0	0.5	0.9
03	HIGH	(1) 1/4	1	79	1.3	2.3	0.8	1.4	0.7	1.2
04	HIGH	(1) 1/4	2	81	1.3	2.3	0.8	1.4	0.7	1.2
06	HIGH	(1) 1/4	2	142	2.3	4.0	1.4	2.4	1.2	2.1
08	HIGH	(1) 1/4	2	249	3.4	5.9	2.1	3.6	1.7	2.9
10	HIGH	(2) 1/4	4	252	3.6	6.2	2.2	3.8	1.8	3.1
12	HIGH	(2) 1/4	4	357	4.4	7.6	2.6	4.5	2.2	3.8

NOTES: Exposed, 3-row coil, no EH, no toe kick, standard throw away panel filter. Watts as shown are for .05" ESP, 3 row coil, 115/1/60, 12 FPI, and throwaway filters. Motor HP as noted is a nominal rating. Data as supplied is for reference only. For project specific operational points see selection tool report out.

PERFORMANCE DATA | SOUND DATA

UNIT SIZE	MOTOR SPEED	TOTAL SOUND POWER LEVEL						
		OCTAVE BAND / CENTER FREQUENCY (HZ)						
		2/125	3/250	4/500	5/1000	6/2000	7/4000	8/8000
02	HIGH	60	65	60	55	50	47	39
	MEDIUM	51	54	47	44	37	27	30
	LOW	44	46	32	29	22	26	28
03	HIGH	60	62	56	54	50	45	38
	MEDIUM	57	57	52	49	45	38	32
	LOW	51	53	47	44	38	29	30
04	HIGH	61	64	63	57	50	48	40
	MEDIUM	59	60	60	52	47	40	34
	LOW	51	56	49	42	34	28	30
06	HIGH	62	64	68	57	48	45	38
	MEDIUM	58	60	65	52	44	39	32
	LOW	51	54	49	40	32	27	30
08	HIGH	68	68	65	61	55	51	45
	MEDIUM	63	62	63	56	51	44	38
	LOW	59	57	56	48	40	33	31
10	HIGH	65	66	70	60	53	51	40
	MEDIUM	61	63	68	59	52	45	38
	LOW	58	59	65	53	45	41	33
12	HIGH	65	66	66	59	52	47	39
	MEDIUM	64	65	66	57	51	45	37
	LOW	57	57	61	49	41	34	31

NOTES: Sound data tested in accordance with AHRI-350-2008. Sound levels expressed in decibels, dB RE: 1 x 10⁻¹² watts. Total sound power level data based on KVFF, exposed cabinet model with fan CFM at corresponding motor tap with 115/1/60 volt PSC motor, 3-row coil, 1" throwaway filter, 0.0" external static pressure and standard rated internal pressure losses.