

KHF Series Coil Information

COILS

Krueger offers hot water, chilled water, and direct expansion (DX) coils for specific application with all KHF series fan coil units. Strict on-site inspection before, during, and after installation guarantees the highest quality and performance available.

STANDARD FEATURES

- Cooling - 3 or 4 row chilled water or DX.
- Heating - 1 or 2 row hot water.
- 6 total rows of cooling and heating coils maximum.
- 1/2" O.D. seamless copper tubes.
- 0.016" tube wall thickness.
- High efficiency aluminum fin surface for optimizing heat transfer, pressure drop and carryover.
- Left or right hand, same or opposite side connections.
- Manual air vents.

OPTIONAL FEATURES

- Automatic air vents.
- Stainless steel coil casings.
- DX coils are heat pump compatible.
- 3/8" O.D. seamless copper tubes (0.012" tube wall thickness).

Unit Size	Coil Face Area	KHFE				KHFP	
		Return Air Grille Free Area	Supply Air Grille Free Area	Filter Face Area	Nominal Filter Sizes	Filter Face Area	Nominal Filter Sizes
20	1.04 [.09]	0.47 [.04]	0.40 [.04]	1.77 [.16]	30 x 8.5 x 1 [762 x 216 x 25]	1.18 [.11]	20 x 8.5 x 1 [508 x 216 x 25]
25	1.35 [.13]	0.58 [.05]	0.50 [.05]	2.36 [.22]	(2) 20 x 8.5 x 1 [508 x 216 x 25]	1.54 [.14]	26 x 8.5 x 1 [660 x 216 x 25]
30	1.56 [.14]	0.68 [.06]	0.56 [.05]	2.36 [.22]	(2) 20 x 8.5 x 1 [508 x 216 x 25]	1.77 [.16]	30 x 8.5 x 1 [762 x 216 x 25]
40	2.08 [.19]	0.81 [.08]	0.80 [.07]	2.95 [.27]	(1) 20, (1) 30 x 8.5 x 1 [508, 762 x 216 x 25]	2.36 [.22]	(2) 20 x 8.5 x 1 [508 x 216 x 25]
50	2.60 [.24]	1.01 [.09]	0.96 [.09]	3.54 [.33]	(2) 30 x 8.5 x 1 [762 x 216 x 25]	2.95 [.27]	(1) 20, (1) 30 x 8.5 x 1 [508, 762 x 216 x 25]
60	3.13 [.29]	1.15 [.11]	1.20 [.11]	4.13 [.38]	(2) 20, (1) 30 x 8.5 x 1 [508, 762 x 216 x 25]	3.54 [.33]	(2) 30 x 8.5 x 1 [762 x 216 x 25]

NOTES: Face and free areas are in square feet [square meters]. Filter sizes are in inches [millimeters]. Return Air Grille Free Area applies to KHFE and telescoping bottom panel return grilles. Supply Air Grille Free Area applies to KHFE supply grille and minimum free area allowable for a supply grille supplied by others.

FAN COILS

KHF SERIES

KHF Series AHRI Ratings
AHRI STANDARD 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)	
KHFH 20	3	10	331	9699	7210	1.9	5.26	57
KHFH 25	3	10	448	14189	10210	2.8	10.66	125
KHFH 30	3	10	771	18750	14640	3.8	6.5	165
KHFH 40	3	10	793	22559	16719	4.5	10.22	261
KHFH 50	3	10	1273	31649	24379	6.4	10.13	472
KHFH 60	3	10	1561	36240	28750	7.3	5.15	522
KHFH 20	4	10	312	12680	8760	2.5	10.22	57
KHFH 25	4	10	434	15869	11340	3.1	5.79	125
KHFH 30	4	10	721	23790	17469	4.8	11.51	165
KHFH 40	4	10	779	28399	20280	5.7	9.34	261
KHFH 50	4	10	1243	38810	29049	7.7	9.7	472
KHFH 60	4	10	1486	45389	34599	9	4.59	522
KHFP 20	3	10	265	8220	6039	1.6	4.05	57
KHFP 25	3	10	414	13430	9609	2.7	10.02	125
KHFP 30	3	10	620	16309	12500	3.3	5.19	165
KHFP 40	3	10	768	22069	16309	4.4	9.63	261
KHFP 50	3	10	1141	29559	22540	5.9	8.66	472
KHFP 60	3	10	1432	34099	26920	6.8	4.5	522
KHFP 20	4	10	253	10819	7369	2.2	8.42	57
KHFP 25	4	10	404	15100	10729	3	5.43	125
KHFP 30	4	10	604	21280	15310	4.3	9.52	165
KHFP 40	4	10	743	27530	19559	5.5	9.01	261
KHFP 50	4	10	1103	35950	26559	7.1	8.38	472
KHFP 60	4	10	1356	42369	32110	8.4	3.97	522
KHFE 20	3	10	287	8789	6469	1.8	4.56	57
KHFE 25	3	10	432	13829	9920	2.8	10.34	125
KHFE 30	3	10	668	17030	13159	3.4	5.51	165
KHFE 40	3	10	796	22600	16750	4.5	10.22	261
KHFE 50	3	10	1191	30319	23229	6	9.17	472
KHFE 60	3	10	1487	35110	27750	7	4.82	522
KHFE 20	4	10	275	11529	7900	2.3	9.11	57
KHFE 25	4	10	423	15680	11159	3.1	5.79	125
KHFE 30	4	10	638	21989	15939	4.4	9.8	165
KHFE 40	4	10	773	28299	20180	5.7	9.35	261
KHFE 50	4	10	1154	36979	27459	7.3	8.7	472
KHFE 60	4	10	1410	43759	33209	8.7	4.28	522

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

KHF Series Heating Capacity and Weights

UNIT WEIGHT DATA

Component	Unit Size						
	20	25	30	40	50	60	
KHFH Base Unit	40 [18]	51 [23]	59 [27]	69 [31]	91 [41]	111 [50]	
KHFP Base Unit	45 [20]	56 [25]	65 [30]	80 [36]	103 [47]	123 [56]	
KHFE Base Unit	119 [54]	138 [63]	155 [70]	181 [82]	220 [100]	257 [117]	
Coil Rows	1 Row - Dry	8 [4]	10 [5]	11 [5]	13 [6]	15 [7]	18 [8]
	1 Row - Wet	10 [5]	12 [5]	13 [6]	15 [7]	18 [8]	21 [10]
	2 Rows - Dry	11 [5]	13 [6]	15 [7]	18 [8]	22 [10]	26 [12]
	2 Rows - Wet	14 [6]	16 [7]	18 [8]	22 [10]	27 [12]	32 [15]
	3 Rows - Dry	14 [6]	17 [8]	19 [9]	24 [11]	29 [13]	34 [15]
	3 Rows - Wet	17 [8]	21 [10]	24 [11]	30 [14]	36 [16]	42 [19]
	4 Rows - Dry	17 [8]	20 [9]	23 [10]	29 [13]	36 [16]	42 [19]
	4 Rows - Wet	21 [10]	25 [11]	29 [13]	36 [16]	45 [20]	53 [24]

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

HEATING CAPACITY

Unit Type	Unit Size	1 Row				2 Rows			
		CFM	QS (MBH)	GPM	WPD	QS (MBH)	CFM	GPM	WPD
KHFH KHFP	20	264	10710	0.5	0.84	264	18110	0.9	0.62
	25	414	15890	0.8	2.11	414	27280	1.4	1.6
	30	619	20370	1	3.58	618	36209	1.9	2.88
	40	767	24440	1.3	0.88	766	46310	2.4	5.56
	50	1141	33569	1.7	1.85	1139	60689	3.1	1.55
	60	1433	42319	2.2	3.37	1429	76639	3.9	2.81
KHFE	20	286	11189	0.6	0.92	286	18920	1	0.67
	25	431	16239	0.8	2.22	430	27930	1.4	1.67
	30	667	21120	1.1	3.85	665	37790	1.9	3.13
	40	795	24860	1.3	0.9	794	47250	2.4	5.74
	50	1190	34189	1.8	1.92	1188	62169	3.2	1.63
	60	1489	43069	2.2	3.49	1485	78269	4	2.93

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

FAN COILS

KHF SERIES

KHF Series Performance Data
MOTOR AND FAN DATA

Unit Size	Fan Speed	Motor HP (Qty)	Number of Fans	115 Volts		208-230 Volts		277 Volts	
				Amps	Watts	Amps	Watts	Amps	Watts
20	High	(1) 1/30	1	0.8	57	0.6	77	0.3	71
	Medium	(1) 1/50		0.4	39	0.3	49	0.3	48
	Low	(1) 1/60		0.3	33	0.3	43	0.3	41
25	High	(1) 1/15	1	1.1	125	0.5	120	0.5	120
	Medium	(1) 1/30		0.9	90	0.3	80	0.3	80
	Low	(1) 1/60		0.5	60	0.2	60	0.2	60
30	High	(1) 1/10	2	1.9	165	0.8	158	0.8	162
	Medium	(1) 1/30		0.8	76	0.3	75	0.5	65
	Low	(1) 1/60		0.5	47	0.2	54	0.4	41
40	High	(1) 1/6	2	2.5	261	1.4	284	1.0	254
	Medium	(1) 1/12		1.5	162	0.5	171	0.5	152
	Low	(1) 1/40		0.6	75	0.4	79	0.3	74
50	High	(1) 1/8	3	1.6	215	0.9	216	0.8	214
		(1) 1/6		2.5	257	1.4	233	1.0	255
	Medium	(1) 1/15		1.3	145	0.6	109	0.5	132
		(1) 1/12		1.5	156	0.5	106	0.5	151
	Low	(1) 1/40		0.8	69	0.3	63	0.3	86
		(1) 1/40		0.6	75	0.4	62	0.3	84
60	High	(2) 1/6	4	5.0	522	2.8	568	2.0	508
	Medium	(2) 1/12		3.0	324	1.0	342	1.0	304
	Low	(2) 1/40		1.2	150	0.6	158	0.6	148

NOTES: Motor electrical data is nameplated data. Actual data will vary with application. 230 volt motor is nameplated for 208-230/1/60. Use 230 volt motor data for 208 volt applications. Unit size 30, 208-230 and 277 volt motors are 1/12 HP at high tap.

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
20	High	57	61	53	52	48	42	40
	Medium	53	54	48	45	41	33	36
	Low	49	49	44	40	34	30	33
25	High	61	63	58	57	54	47	43
	Medium	55	53	50	47	45	36	32
	Low	50	44	39	38	36	30	30
30	High	63	62	58	58	53	48	44
	Medium	60	56	54	53	49	43	40
	Low	50	45	43	40	34	29	34
40	High	68	70	65	63	57	54	51
	Medium	63	62	58	54	50	44	40
	Low	54	47	42	39	31	31	34
50	High	64	69	69	65	57	55	54
	Medium	59	63	63	57	51	47	44
	Low	51	55	60	47	42	37	36
60	High	71	75	72	70	61	59	54
	Medium	63	66	68	60	55	49	45
	Low	53	58	48	42	35	32	35

NOTES: Sound data tested in accordance with AHRI 350-2000. Sound levels are expressed in decibels, dB RE: 1 x 10⁻¹² watts. Total sound power level data based on Model KHFP with fan CFM at corresponding motor tap with 115/1/60 volt motor, 3 or 4 row coil, 1" throwaway filter, 0.0" external static pressure and standard rated internal pressure losses.