

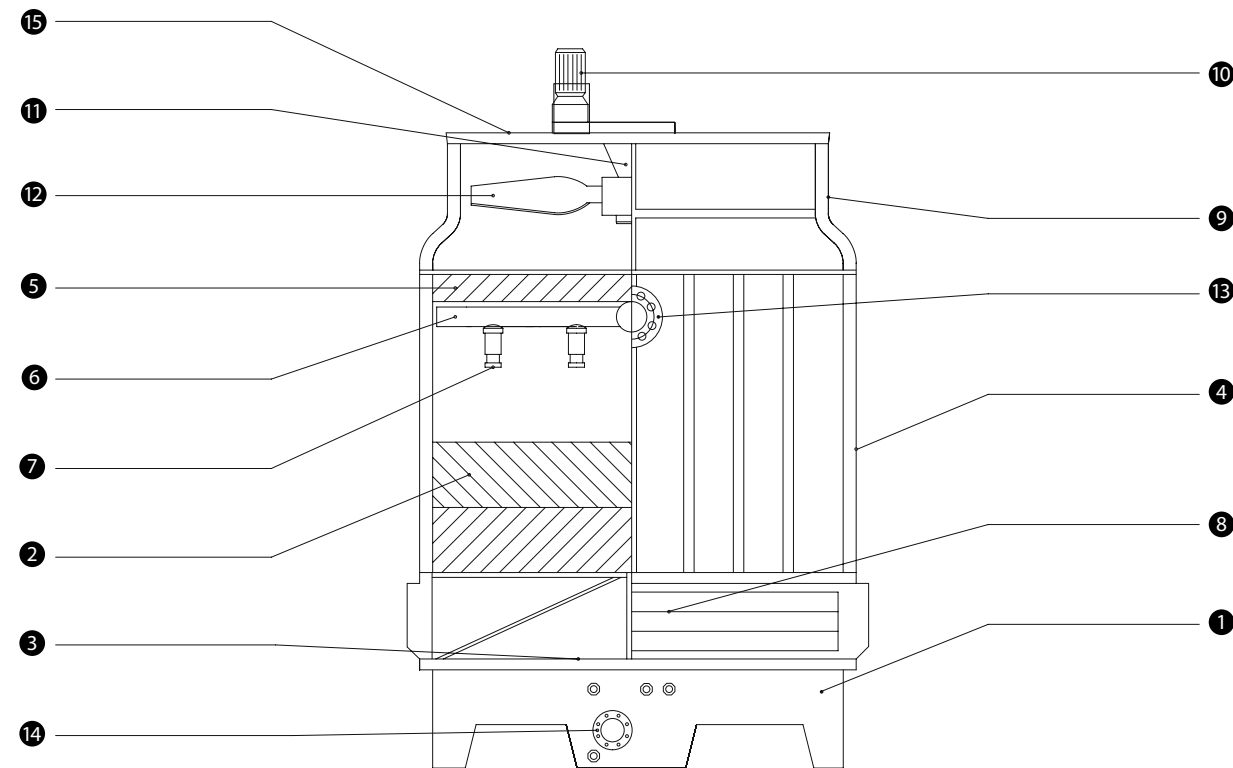
ACHIEVE YOUR VISION

CHILLER
FAN COIL
ICE THERMAL STORAGE SYSTEM
CHU & AHU
BOILER

RAAF

KFT

STRUCTURAL DRAWING



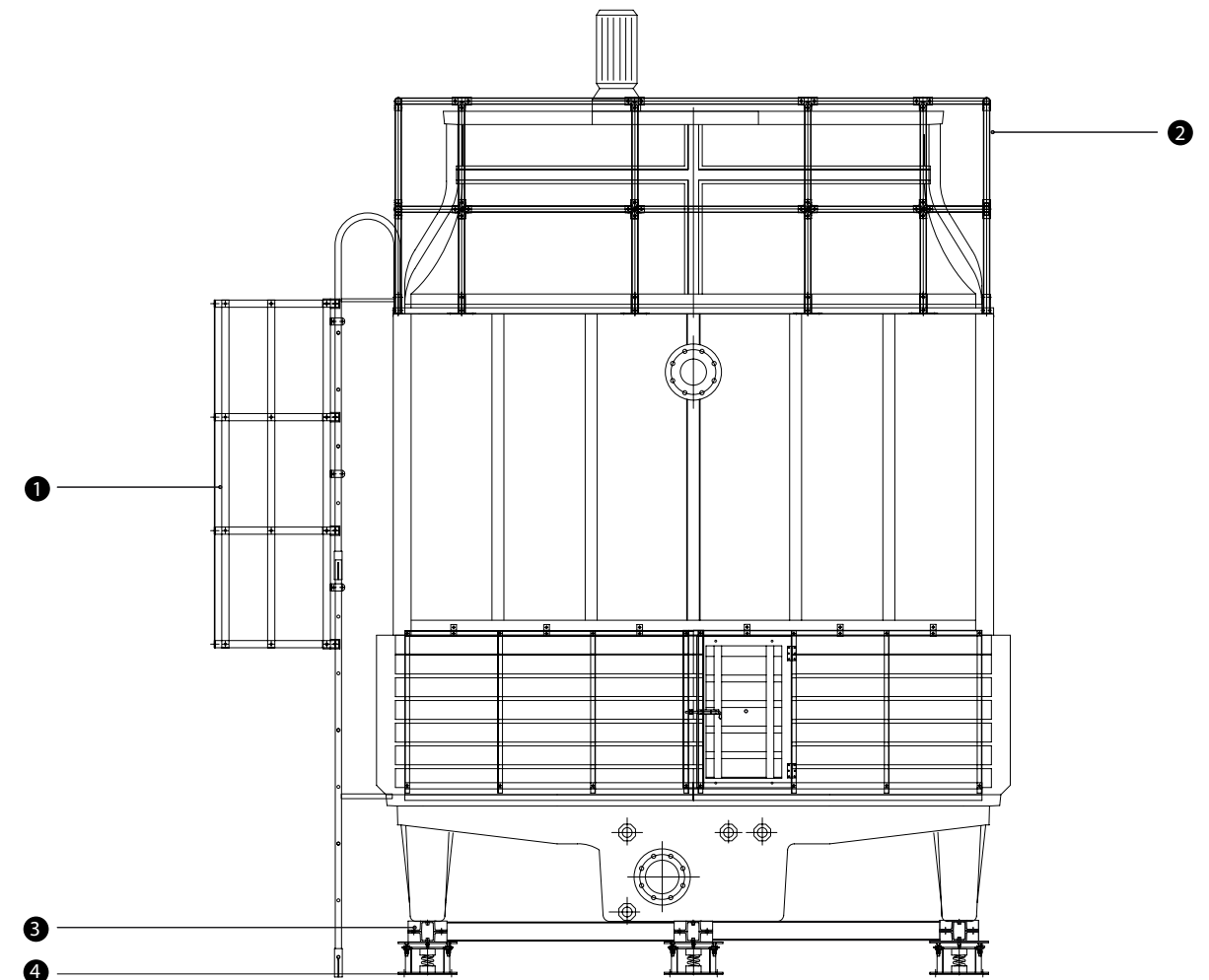
Standard Specifications

No.	Parts	Material
1	Basin	F.R.P.
2	Fill	P.V.C.
3	Basin silencer	Nylon
4	Casing	F.R.P.
5	Drift eliminator	P.V.C.
6	Distribution pipe	P.V.C.
7	Nozzle	A.B.S.
8	Intake louver	P.V.C.

No.	Parts	Material
9	Fan stack	F.R.P.
10	Motor	
11	Reducer	
12	Fan	
13	Water inlet	
14	Water outlet	
15	Motor support	H.D.G. Steel

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OPTIONAL PARTS AND MATERIALS



No.	Part Name	Standard material	Other material
1	Ladder cage	H.D.G. Steel	SUS304, SUS316
2	Safety handrail	H.D.G. Steel	SUS304, SUS316
3	Spring isolator support	H.D.G. Steel	SUS304
4	Spring isolator	H.D.G. Steel	SUS304

H.D.G.Steel Hot Dip Galvanized Steel
SUS304 Stainless steel Grade 304
SUS316 Stainless steel Grade 316

P.V.C. Polyvinyl Chloride
F.R.P Fiberglass Reinforced Plastics

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SELECTION TABLE

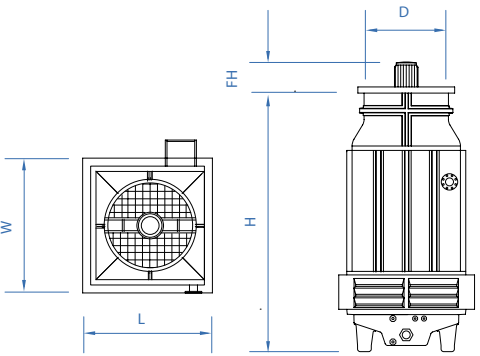
Type	Normal Temperature Type								Medium Temperature Type	High Temperature Type		
Wet Bulb Temperature	27(°C)		28(°C)		29(°C)		30(°C)		27(°C)	28(°C)	27(°C)	28(°C)
I/min °C	37°C	37.5°C	37°C	37.5°C	37°C	37.5°C	38°C	38.5°C	42°C	42°C	60°C	60°C
Model	32°C	32°C	32°C	32°C	32°C	32°C	33°C	33°C	32°C	32°C	35°C	35°C
40	520	480	440	415	375	355	395	375	340	300	340	330
50	650	600	550	530	470	440	500	470	400	370	400	390
60	780	720	660	615	560	520	590	560	480	450	520	490
70	910	840	770	740	660	620	700	660	580	530	600	570
80	1040	962	892	826	733	700	788	743	655	570	660	610
100	1300	1210	1120	1025	925	829	937	877	830	729	790	750
125	1625	1513	1398	1304	1152	1104	1237	1166	1034	940	1070	1000
150	1950	1814	1680	1563	1391	1330	1495	1415	1251	1093	1260	1190
175	2275	2108	1963	1837	1624	1541	1728	1634	1460	1310	1510	1430
200	2600	2419	2241	2114	1849	1786	1990	1895	1659	1456	1760	1660
225	2925	2736	2514	2380	2100	1990	2220	2090	1890	1680	1950	1830
250	3250	2995	2791	2610	2330	2180	2480	2310	2090	1860	2140	2040
300	3900	3634	3355	3135	2810	2605	2910	2760	2488	2220	2520	2395
350	4550	4223	3932	3696	3330	3130	3486	3293	2952	2615	3050	2890
400	5200	4832	4490	4250	3800	3518	3960	3748	3350	2992	3450	3220
450	5850	5480	5130	4860	4280	4039	4505	4275	3899	3455	3940	3680
500	6500	6100	5660	5330	4788	4520	5023	4780	4356	3880	4440	4230
600	7800	7280	6749	6340	5613	5330	5960	5650	5100	4550	5250	4950
700	9100	8470	7965	7350	6725	6300	7000	6660	6127	5482	6220	5930
800	10400	9710	8984	8520	7650	7270	8090	7680	7000	6280	7270	6930
900	11700	10920	10186	9600	8680	8240	9160	8700	7930	7080	8160	7700
1000	13000	12180	11430	10710	9756	9200	10100	9700	8965	8050	9250	8840

- 1 Please verify the wet bulb temperature at the geographical location where the tower is to be installed before consulting the Selection Table.
- 2 Should the design temperature condition not be within the selection temperature range of the table, please contact your King Sun representative.
- 3 In order to select the cooling tower model no., the data below are necessary:
 - Water flow rate... LPM, GPM, m³/hr
 - Entering temperature... water temperature into the tower
 - Leaving temperature... water temperature required out of the tower
 - WBT... wet bulb temperature

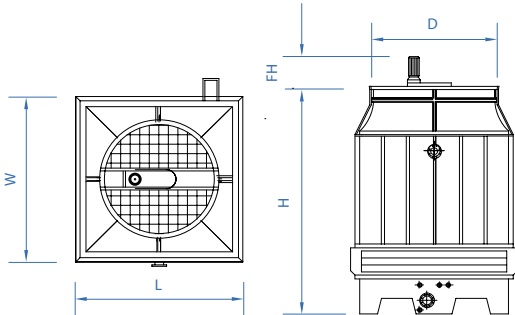
KFT

SPECIFICATIONS

KFT-40~50 SINGLE CELL



KFT-60~350 SINGLE CELL



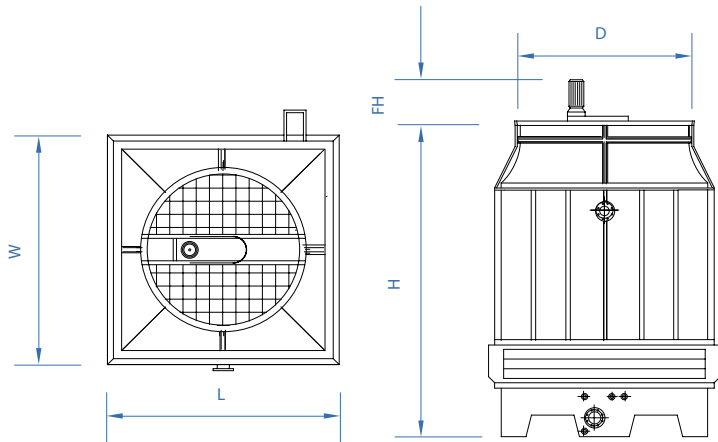
Model KFT	Cells	Heat duty	Water flow	Dimension				Motor		Fan	Head	Dry Weight	Operating Weight
		kcal/h	l/min	L	W	H	FH	Hp	kW	Dφm/m	m	kg	kg
40	40-C1	156000	520	1520	1520	2932	320	2*1	1.5*1	900	3.7	490	980
50	50-C1	195000	650	1520	1520	2932	320	2*1	1.5*1	900	3.7	490	980
60	60-C1	234000	780	2130	2130	3380	420	2*1	1.5*1	1500	3.9	700	1500
70	70-C1	273000	910	2130	2130	3380	420	2*1	1.5*1	1500	3.9	700	1500
80	80-C1	312000	1040	2130	2130	3380	420	2*1	1.5*1	1500	3.9	700	1500
100	100-C1	390000	1300	2130	2130	3380	470	3*1	2.2*1	1500	4	730	1580
200	100-C2	780000	2600	3960	2130	3380	470	3*2	2.2*2	1500	4	1410	2960
125	125-C1	487500	1625	2415	2415	3620	470	3*1	2.2*1	1800	4.2	890	2000
250	125-C2	975000	3250	4550	2415	3620	470	3*2	2.2*2	1800	4.2	1640	3790
150	150-C1	585000	1950	2415	2415	3620	500	5*1	3.7*1	1800	4.4	970	2130
300	150-C2	1170000	3900	4550	2415	3620	500	5*2	3.7*2	1800	4.4	1800	4050
175	175-C1	682500	2275	2740	2740	3910	635	5*1	3.7*1	2100	4.4	1190	2690
350	175-C2	1365000	4550	5180	2740	3910	635	5*2	3.7*2	2100	4.4	2210	5210
525	175-C3	2047500	6825	7620	2740	3910	635	5*3	3.7*3	2100	4.4	3230	7730

- 1 The normal cooling capacity of KFT towers is based on 37°C HWT, 32°C CWT, 27°C WBT and 13LPM per ton.
- 2 The water flow rate (LPM) on the table is based on temperature condition: 37°C-32°C-27°C.

KFT

SPECIFICATIONS

KFT-60~350 SINGLE CELL



Model KFT	Cells	Heat duty	Water flow	Dimension				Motor		Fan	Head	Dry Weight	Operating Weight
		kcal/h	l/min	L	W	H	FH	Hp	kW	Dφm/m	m	kg	kg
200	200-C1	780000	2600	2740	2740	3910	635	7.5*1	5.5*1	2100	4.6	1280	2830
400	200-C2	1560000	5200	5180	2740	3910	635	7.5*2	5.5*2	2100	4.6	2450	5540
600	200-C3	2340000	7800	7620	2740	3910	635	7.5*3	5.5*3	2100	4.6	3620	8250
800	200-C4	3120000	10400	10060	2740	3910	635	7.5*4	5.5*4	2100	4.6	4790	10960
1000	200-C5	3900000	13000	12500	2740	3910	635	7.5*5	5.5*5	2100	4.6	5960	13670
225	225-C1	877500	2925	2740	2740	3910	635	7.5*1	5.5*1	2100	4.7	1320	2910
450	225-C2	1755000	5850	5180	2740	3910	635	7.5*2	5.5*2	2100	4.7	2530	5700
675	225-C3	2632500	8775	7620	2740	3910	635	7.5*3	5.5*3	2100	4.7	3740	8490
900	225-C4	3510000	11700	10060	2740	3910	635	7.5*4	5.5*4	2100	4.7	4950	11280
1125	225-C5	4387500	14625	12500	2740	3910	635	7.5*5	5.5*5	2100	4.7	6160	14070
250	250-C1	975000	3250	3350	3350	3930	635	7.5*1	5.5*1	2400	4.5	1520	3460
500	250-C2	1950000	6500	6400	3350	3930	635	7.5*2	5.5*2	2400	4.5	2460	6720
750	250-C3	2925000	9750	9450	3350	3930	635	7.5*3	5.5*3	2400	4.5	3690	9580

- 1 The normal cooling capacity of KFT towers is based on 37°C HWT, 32°C CWT, 27°C WBT and 13LPM per ton.
- 2 The water flow rate (LPM) on the table is based on temperature condition: 37°C-32°C-27°C.

KFT

SPECIFICATIONS

KFT-60~350 SINGLE CELL

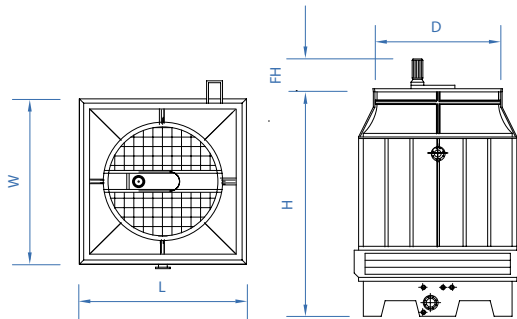
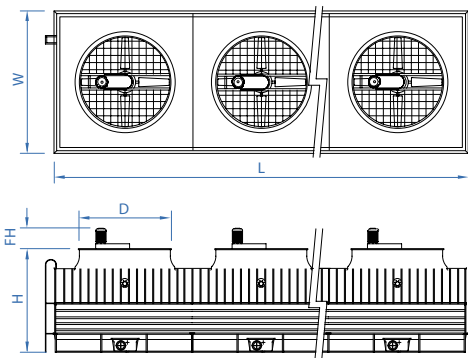


DIAGRAM OF MODULAR CELLS



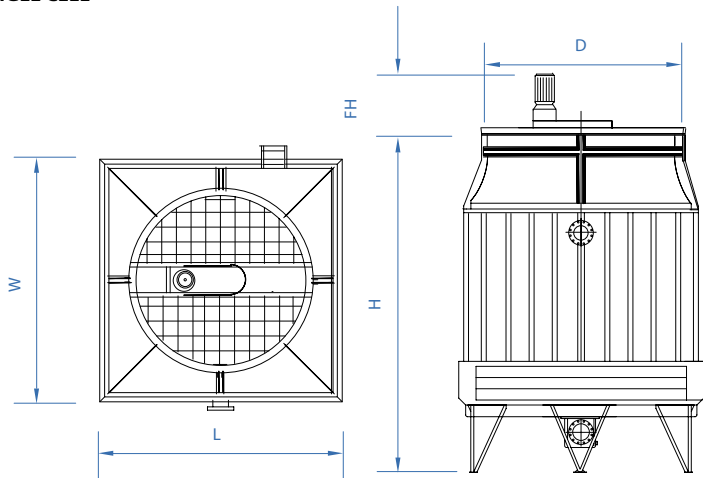
Model KFT	Cells	Heat duty	Water flow	Dimension				Motor		Fan	Head	Dry Weight	Operating Weight
		kcal/h	l/min	L	W	H	FH	Hp	kW	Dφm/m	m	kg	kg
1000	250-C4	3900000	13000	12500	3350	3930	635	7.5*4	5.5*4	2400	4.5	5320	12040
1250	250-C5	4875000	16250	15550	3350	3930	635	7.5*5	5.5*5	2400	4.5	6950	14500
300	300-C1	1170000	3900	3350	3350	4160	670	10*1	7.5*1	2400	4.8	1770	3770
600	300-C2	2340000	7800	6400	3350	4160	670	10*2	7.5*2	2400	4.8	2980	7330
900	300-C3	3510000	11700	9450	3350	4160	670	10*3	7.5*3	2400	4.8	4190	10890
1200	300-C4	4680000	15600	12500	3350	4160	670	10*4	7.5*4	2400	4.8	5400	14450
1500	300-C5	5850000	19500	15550	3350	4160	670	10*5	7.5*5	2400	4.8	6610	18010
350	350-C1	1365000	4550	3350	3350	4560	670	10*1	7.5*1	2400	4.9	1830	3890
700	350-C2	2730000	9100	6400	3350	4560	670	10*2	7.5*2	2400	4.9	3100	7530
1050	350-C3	4095000	13650	9450	3350	4560	670	10*3	7.5*3	2400	4.9	4370	11170
1400	350-C4	5460000	18200	12500	3350	4560	670	10*4	7.5*4	2400	4.9	5640	14810
1750	350-C5	6825000	22750	15550	3350	4560	670	10*5	7.5*5	2400	4.9	6910	18450

- 1 The normal cooling capacity of KFT towers is based on 37°C HWT, 32°C CWT, 27°C WBT and 13LPM per ton.
- 2 The water flow rate (LPM) on the table is based on temperature condition: 37°C-32°C-27°C.

KFT

SPECIFICATIONS

KFT-400~500 SINGLE CELL



Model KFT	Cells	Heat duty	Water flow	Dimension				Motor		Fan	Head	Dry Weight	Operating Weight
		kcal/h	l/min	L	W	H	FH	Hp	kW	Dφm/m	m	kg	kg
400	400-C1	1560000	5200	3960	3960	4820	750	15*1	11*1	3000	5.2	3060	7350
800	400-C2	3120000	10400	7620	3960	4820	750	15*2	11*2	3000	5.2	4900	13500
1200	400-C3	4680000	15600	11280	3960	4820	750	15*3	11*3	3000	5.2	6740	19800
1600	400-C4	6240000	20800	14940	3960	4820	750	15*4	11*4	3000	5.2	8580	26100
2000	400-C5	7800000	26000	18600	3960	4820	750	15*5	11*5	3000	5.2	10420	32500
450	450-C1	1755000	5850	3960	3960	5050	750	15*1	11*1	3000	5.4	3290	7990
900	450-C2	3510000	11700	7620	3960	5050	750	15*2	11*2	3000	5.4	5420	14810
1350	450-C3	5265000	17550	11280	3960	5050	750	15*3	11*3	3000	5.4	7690	21700
1800	450-C4	7020000	23400	14940	3960	5050	750	15*4	11*4	3000	5.4	9820	28600
2250	450-C5	8775000	29250	18600	3960	5050	750	15*5	11*5	3000	5.4	11950	35600
500	500-C1	1950000	6500	3960	3960	5450	750	15*1	11*1	3000	5.6	3360	8050
1000	500-C2	3900000	13000	7620	3960	5450	750	15*2	11*2	3000	5.6	5560	14950
1500	500-C3	5850000	19500	11280	3960	5450	750	15*3	11*3	3000	5.6	7760	21900
2000	500-C4	7800000	26000	14940	3960	5450	750	15*4	11*4	3000	5.6	9960	28910
2500	500-C5	9750000	32500	18600	3960	5450	750	15*5	11*5	3000	5.6	12160	35970

1 The normal cooling capacity of KFT towers is based on 37°C HWT, 32°C CWT, 27°C WBT and 13LPM per ton.
2 The water flow rate (LPM) on the table is based on temperature condition: 37°C-32°C-27°C.

KFT

SPECIFICATIONS

KFT-600~1000 SINGLE CELL

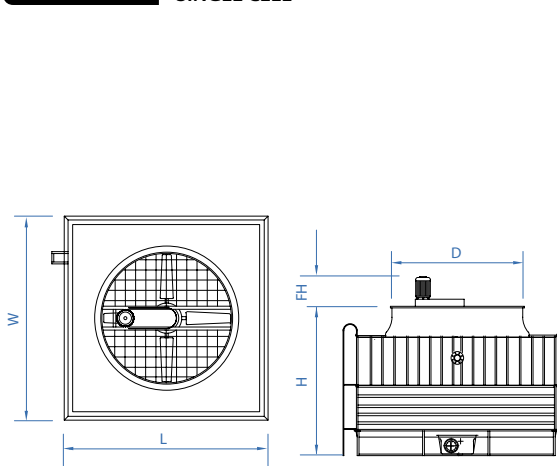
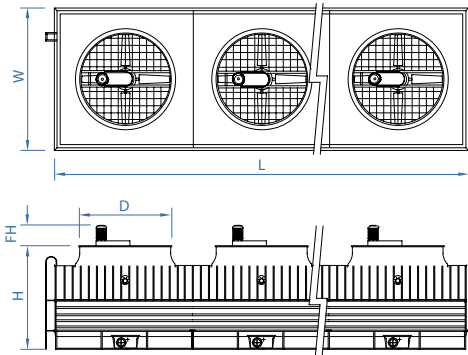


DIAGRAM OF MODULAR CELLS



Model KFT	Cells	Heat duty	Water flow	Dimension				Motor		Fan	Head	Dry Weight	Operating Weight
		kcal/h	l/min	L	W	H	FH	Hp	kW	Dφm/m	m	kg	kg
600	600-C1	2340000	7800	4825	4825	4920	841	20*1	15*1	3400	5.2	4687	9768
1200	600-C2	4680000	15600	9400	4825	4920	841	20*2	15*2	3400	5.2	8687	18726
1800	600-C3	7020000	23400	13975	4825	4920	841	20*3	15*3	3400	5.2	12727	27786
2400	600-C4	9360000	31200	18550	4825	4920	841	20*4	15*4	3400	5.2	16727	36805
3000	600-C5	11700000	39000	23125	4825	4920	841	20*5	15*5	3400	5.2	20757	45855
700	700-C1	2730000	9100	5740	5740	4920	841	20*1	15*1	3600	5.3	5426	12327
1400	700-C2	5460000	18200	11230	5740	4920	841	20*2	15*2	3600	5.3	10074	23698
2100	700-C3	8190000	27300	16720	5740	4920	841	20*3	15*3	3600	5.3	14763	35200
2800	700-C4	10920000	36400	22210	5740	4920	841	20*4	15*4	3600	5.3	19410	46659
3500	700-C5	13650000	45500	27700	5740	4920	841	20*5	15*5	3600	5.3	24087	58149
800	800-C1	3120000	10400	5740	5740	5320	1026	25*1	18*1	3600	5.4	5733	12964
1600	800-C2	6240000	20800	11230	5740	5320	1026	25*2	18*2	3600	5.4	10653	24917
2400	800-C3	9360000	31200	16720	5740	5320	1026	25*3	18*3	3600	5.4	15617	37014
3200	800-C4	12480000	41600	22210	5740	5320	1026	25*4	18*4	3600	5.4	20537	49066
4000	800-C5	15600000	52000	27700	5740	5320	1026	25*5	18*5	3600	5.4	25490	61152

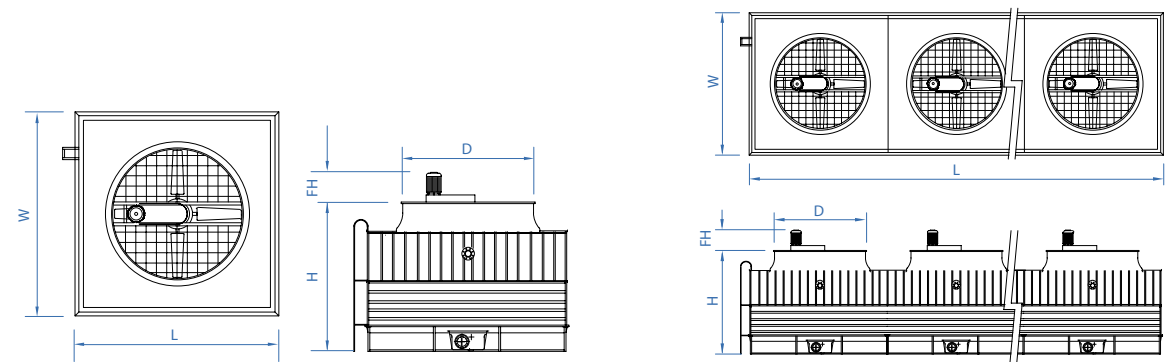
1 The normal cooling capacity of KFT towers is based on 37°C HWT, 32°C CWT, 27°C WBT and 13LPM per ton.
2 The water flow rate (LPM) on the table is based on temperature condition: 37°C-32°C-27°C.

KFT

SPECIFICATIONS

KFT-600~1000 SINGLE CELL

DIAGRAM OF MODULAR CELLS



Model KFT	Cells	Heat duty	Water flow	Dimension				Motor		Fan	Head	Dry Weight	Operating Weight
		kcal/h	1/min	L	W	H	FH	Hp	kW	Dφm/m	m	kg	kg
900	900-C1	3510000	11700	6655	6655	4875	1026	30*1	22*1	4270	5.4	6716	15694
1800	900-C2	7020000	23400	13060	6655	4875	1026	30*2	22*2	4270	5.4	12535	30249
2700	900-C3	10530000	35100	19465	6655	4875	1026	30*3	22*3	4270	5.4	18398	44969
3600	900-C4	14040000	46800	25870	6655	4875	1026	30*4	22*4	4270	5.4	24217	59645
4500	900-C5	17550000	58500	32275	6655	4875	1026	30*5	22*5	4270	5.4	30065	74350
1000	1000-C1	3900000	13000	6655	6655	5275	1026	30*1	22*1	4270	5.6	6895	16313
2000	1000-C2	7800000	26000	13060	6655	5275	1026	30*2	22*2	4270	5.6	12890	31484
3000	1000-C3	11700000	39000	19465	6655	5275	1026	30*3	22*3	4270	5.6	18933	46824
4000	1000-C4	15600000	52000	25870	6655	5275	1026	30*4	22*4	4270	5.6	24928	62116
5000	1000-C5	19500000	65000	32275	6655	5275	1026	30*5	22*5	4270	5.6	30955	77440

- 1 The normal cooling capacity of KFT towers is based on 37°C HWT, 32°C CWT, 27°C WBT and 13LPM per ton.
 2 The water flow rate (LPM) on the table is based on temperature condition: 37°C-32°C-27°C.

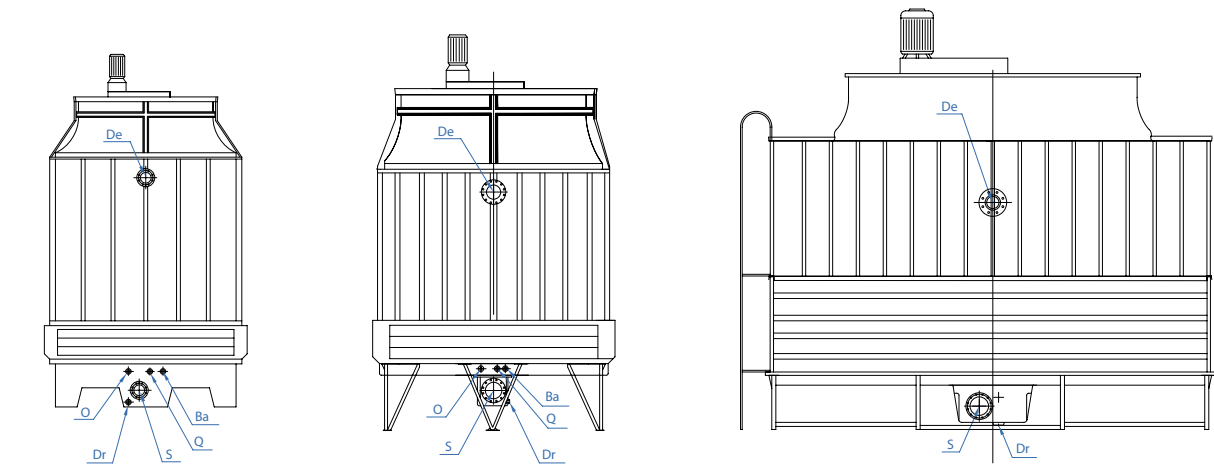
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PIPE CONNECTION DETAILS

KFT-40~350

KFT-400~500

KFT-600~1000



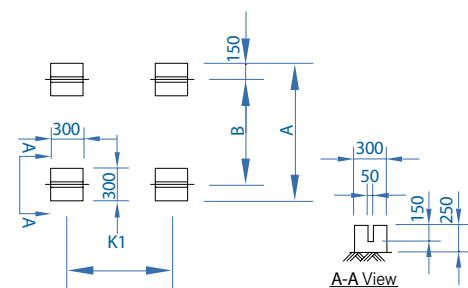
RT	Inlet De	Outlet S	Automatic Make up Ba	Quick Make up Q	Over flow O	Drain Dr
40	3"(80A)	3"(80A)	3/4"(20A)	3/4"(20A)	1"(25A)	1"(25A)
50	3"(80A)	3"(80A)	3/4"(20A)	3/4"(20A)	1"(25A)	1"(25A)
60	4"(100A)	4"(100A)	3/4"(20A)	3/4"(20A)	1"(25A)	1"(25A)
70	4"(100A)	4"(100A)	3/4"(20A)	3/4"(20A)	1"(25A)	1"(25A)
80	4"(100A)	4"(100A)	3/4"(20A)	3/4"(20A)	1"(25A)	1"(25A)
100	4"(100A)	4"(100A)	3/4"(20A)	3/4"(20A)	1"(25A)	1"(25A)
125	5"(125A)	5"(125A)	1"(25A)	1"(25A)	2"(50A)	2"(50A)
150	6"(150A)	6"(150A)	1"(25A)	1"(25A)	2"(50A)	2"(50A)
175	6"(150A)	6"(150A)	1"(25A)	1"(25A)	2"(50A)	2"(50A)
200	6"(150A)	6"(150A)	1 1/4"(32A)	1 1/4"(32A)	2"(50A)	2"(50A)
225	8"(200A)	8"(200A)	1 1/4"(32A)	1 1/4"(32A)	2"(50A)	2"(50A)
250	8"(200A)	8"(200A)	1 1/4"(32A)	1 1/4"(32A)	2"(50A)	2"(50A)
300	8"(200A)	8"(200A)	1 1/4"(32A)	1 1/4"(32A)	2"(50A)	2"(50A)
350	8"(200A)	8"(200A)	1 1/4"(32A)	1 1/4"(32A)	2"(50A)	2"(50A)
400	8"(200A)	8"(200A)	1 1/2"(40A)	1 1/2"(40A)	2"(50A)	2"(50A)
450	10"(250A)	10"(250A)	1 1/2"(40A)	1 1/2"(40A)	2"(50A)	2"(50A)
500	10"(250A)	10"(250A)	1 1/2"(40A)	1 1/2"(40A)	2"(50A)	2"(50A)
600	10"(250A)	10"(250A)	2"(50A)	2"(50A)	2"(50A)	2"(50A)
700	12"(300A)	12"(300A)	2"(50A)	2"(50A)	2"(50A)	2"(50A)
800	12"(300A)	12"(300A)	2"(50A)	2"(50A)	2"(50A)	2"(50A)
900	14"(350A)	14"(350A)	2"(50A)	2"(50A)	2"(50A)	2"(50A)
1000	14"(350A)	14"(350A)	2"(50A)	2"(50A)	2"(50A)	2"(50A)

- 1 If there's a need for equalization connection, please contact your King Sun representative.
 2 For high temperature applications, there may possibly exist a need to modify the pipe diameters on the water inlet and water outlet. For this type of application, please contact your King Sun representative for advice.

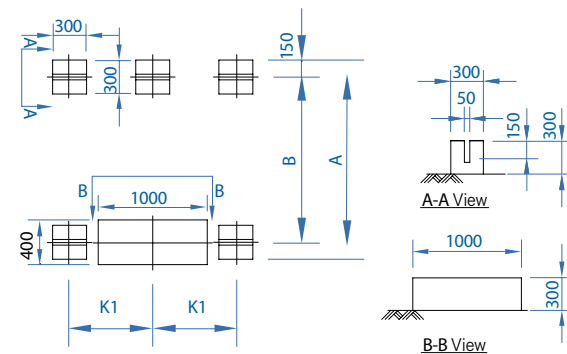
KFT

FOUNDATION DETAILS

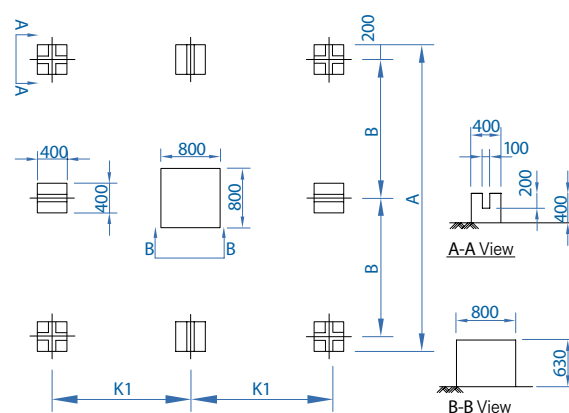
KFT-40~50 SINGLE CELL



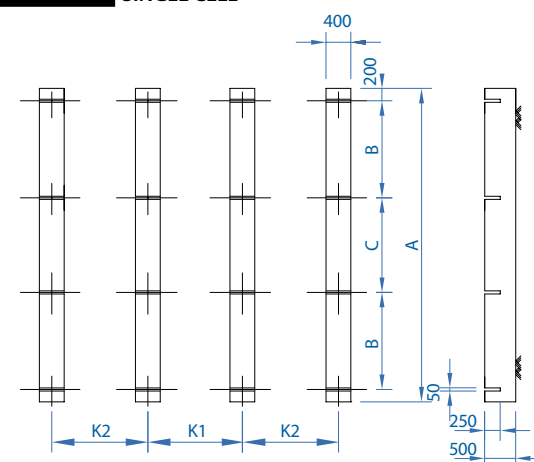
KFT-60~350 SINGLE CELL



KFT-400~500 SINGLE CELL



KFT-600~1000 SINGLE CELL



KFT

FOUNDATION DETAILS

	RT Location	40	50	60	70	80	100	125	150	175
1 Cell	A	1270	1270	1840	1840	1840	1840	2155	2155	2450
	B	970	970	1540	1540	1540	1540	1855	1855	2150
	K1	970	970	775	775	775	775	928	928	1080
Anchor Bolts M16*200L	1 Cell	4	4	5	5	5	5	5	5	5
	2 Cells	6	6	8	8	8	8	8	8	8
	3 Cells	8	8	11	11	11	11	11	11	11
	4 Cells	10	10	14	14	14	14	14	14	14
	5 Cells	12	12	17	17	17	17	17	17	17

	RT Location	200	225	250	300	350	400	450	500
1 Cell	A	2450	2450	3060	3060	3060	4140	4140	4140
	B	2150	2150	2760	2760	2760	1870	1870	1870
	K1	1080	1080	1385	1385	1385	1870	1870	1870
Anchor Bolts M16*200L	1 Cell	5	5	5	5	5	16	16	16
	2 Cells	8	8	8	8	8	26	26	26
	3 Cells	11	11	11	11	11	36	36	36
	4 Cells	14	14	14	14	14	46	46	46
	5 Cells	17	17	17	17	17	56	56	56

	RT Location	600	700	800	900	1000
1 Cell	A	5055	5970	5970	6885	6885
	B	1565	1870	1870	2175	2475
	C	1525	1830	1830	2135	2135
	K1	1525	1830	1830	2135	2135
	K2	1550	1855	1855	2160	2160
Anchor Bolts M16*200L	1 Cell	16	16	16	16	16
	2 Cells	28	28	28	28	28
	3 Cells	40	40	40	40	40
	4 Cells	52	52	52	52	52
	5 Cells	64	64	64	64	64

In the event that spring mount vibration isolators are to be used, the foundation detail would need to be modified. For this type of application, please contact your King Sun representative for advice.



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Mainzer Landstr.127

60327 Frankfurt am Main, Germany

Tel: +49 69 34867944

info@raaf-hvac.de

www.raaf-hvac.de