良機

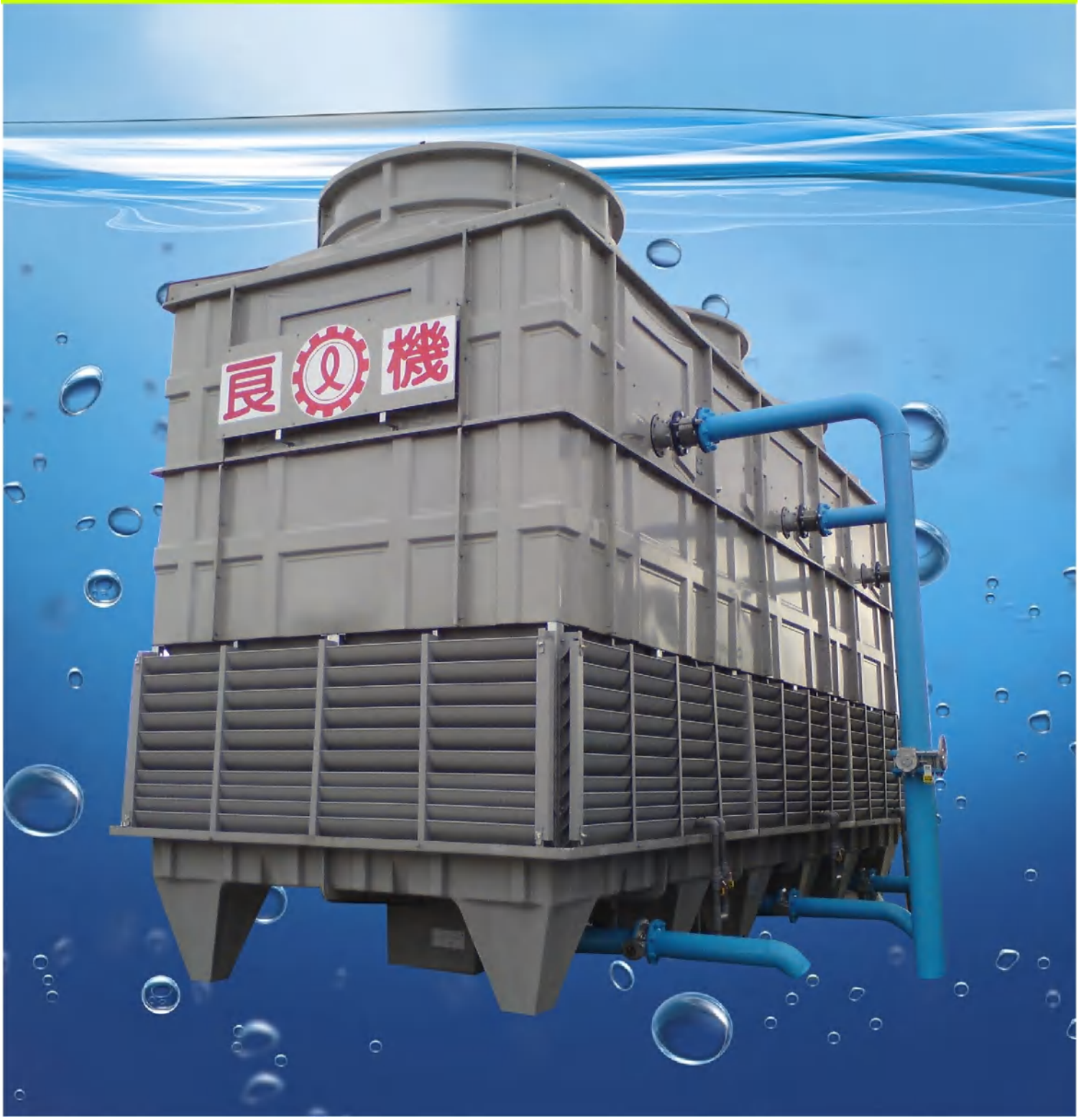
Since 1962

Series D-LC

Liang Chi Series D-LC cooling towers have been designed as counter flow type with Low Noise Motor and Axial Fan. The compact design is suitable for Equipment Cooling, Industrial Process Cooling and Air Conditioning.

CTI CERTIFIED

Thermal Performance certified by the Cooling Technology Institute (CTI) in accordance with CTI STD-201



Characteristics

International Standards
Series D-LC cooling towers have been designed according to the international standards featuring light weight structure, easy transport, easy hoisting and easy site installation.

Low Noise & Easy Maintenance
Series D-LC cooling tower use high tension V-belt reducers, which are correspond to the low noise axial fans featuring silent operation and easy maintenance.

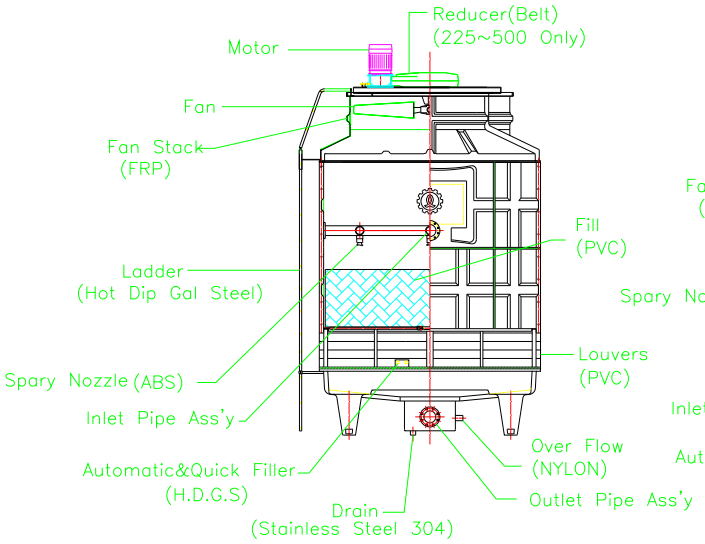
Light Weight, Smaller Footprint and Multi-Cell Installation
Comparing with other types of cooling tower, D-LC features lighter operational weight and smaller footprint. Also the combinative multi-cell structure is suitable for large cooling requirement and future expansion.

High Efficiency Non-Clog Distribution System
Water distribution system consists of spray header and branches with large orifice, non-clog nozzles to spry water evenly on the surface of fill to promote the best mixing of air and water.

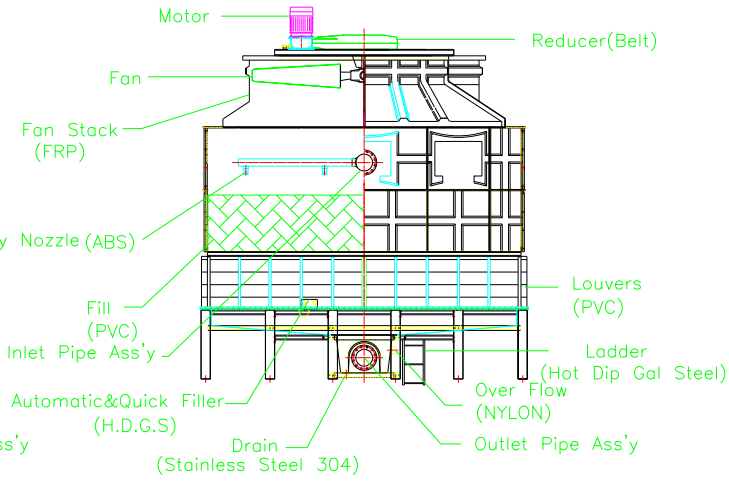
High Efficient Fill
Unique design of vacuum-formed and chevron configuration type fill with ripple surface facilitates even spread and long duration of water drop and free of deposits and scales to get best heat transfer.

Long Service Life
D-LC tower components are made of weatherproof and anticorrosive materials. Casing is constructed of anti ultraviolet FRP which features soundproof and non-decayed merits with fine streamline outlook. Basin are made by F.R.P. Fill and inlet louvers are by P.V.C. Supporting rack is made of light weight steel. All the steel parts are hot dip galvanized so as to prolong the service life.

Structure and Standard Materials

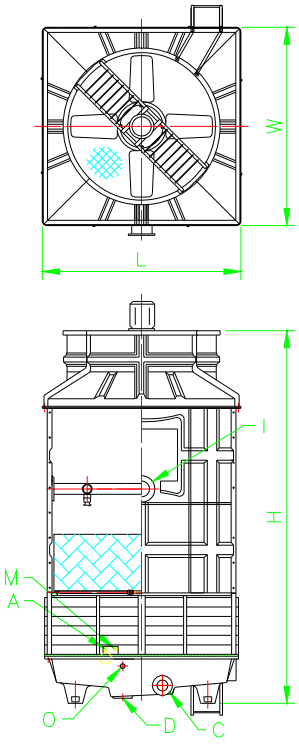


D-LC-02008~20050

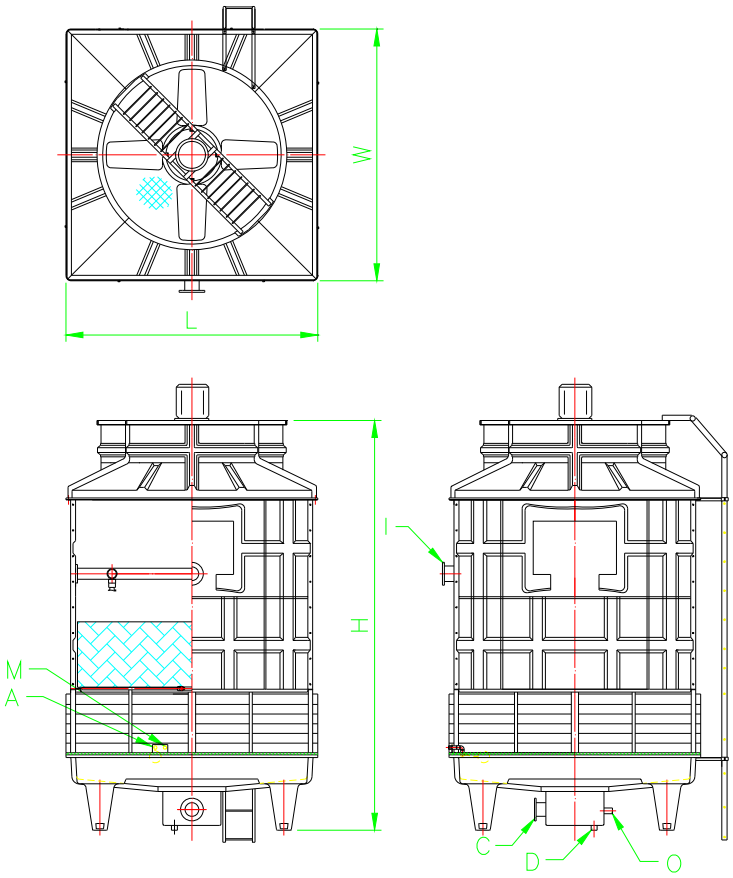


D-LC-20060~30100

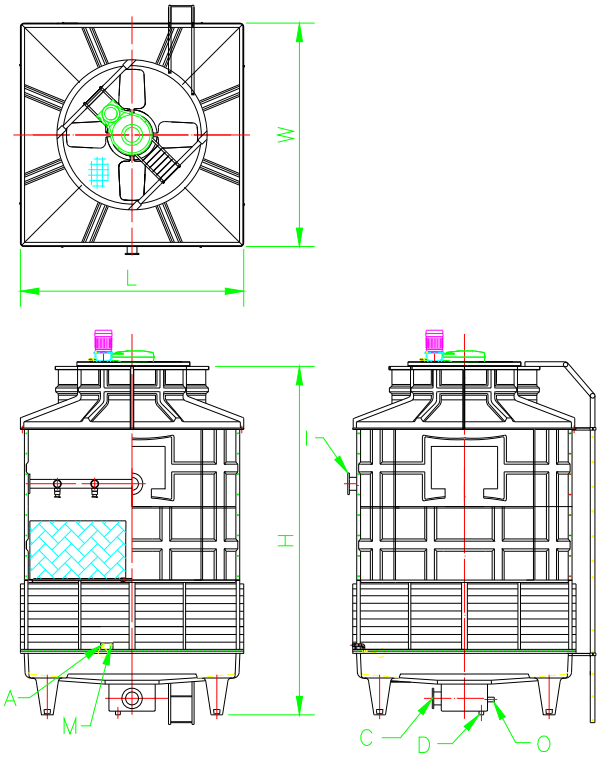
Single-Cell Models Engineering Data and Overall Dimensions



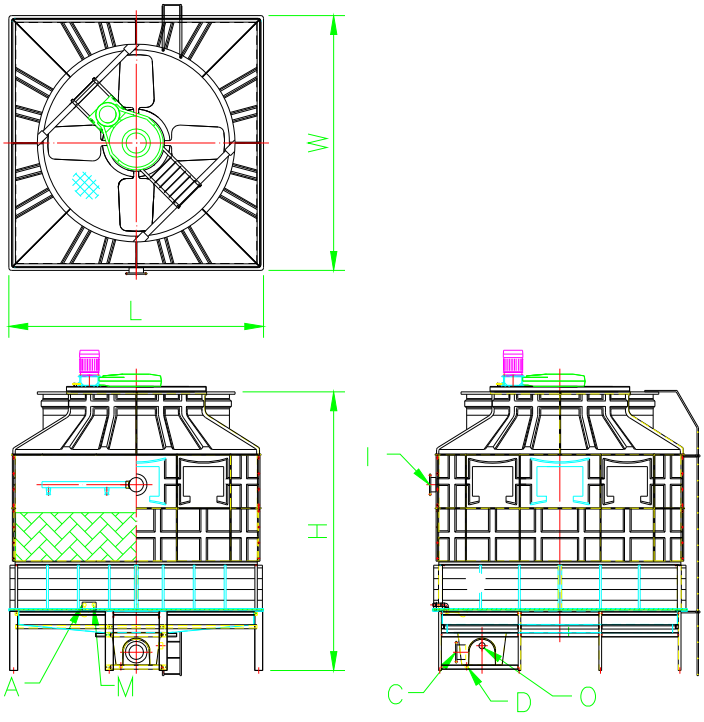
D-LC-02008~03012



D-LC-05015~05020



D-LC-07022~20050



D-LC-20060~30100

Tower Model D-LC-	Nominal Ton*1	Nominal Water Flow (LPM)	Dimensions (mm)			Fan Dia. (mm)	Fan Motor (HP)
			Width	Length	Height		
			W	L	H		
02008	59	767	2220	2220	3950	1170	2×1
03010	83	1079	2220	2220	3950	1470	3×1
03012	93	1209	2420	2420	3950	1470	3×1
05015	116	1508	2720	2720	4230	1750	5×1
05017	122	1586	2720	2720	4230	1750	5×1
05020	141	1833	3020	3020	4330	1750	5×1
07022	161	2093	3020	3020	4530	2360	7 1/2×1
07025	174	2262	3020	3020	4530	2360	7 1/2×1
10030	231	3003	3620	3620	4730	2360	10×1
10035	244	3172	3620	3620	4730	2360	10×1
15040	328	4264	4220	4220	4780	2970	15×1
20050	376	4888	4220	4220	4780	2970	20×1
20060	437	5681	4730	4730	5160	3380	20×1
20070	486	6318	5230	5230	5135	3580	20×1
30080	607	7891	5730	5730	5235	3580	30×1
30090	677	8801	6230	6230	5535	4250	30×1
30100	781	10153	6730	6730	5635	4250	30×1

Tower Model D-LC-	Pipe Connections						Approximate		Tower Head*2 (M)
	Inlet	Outlet	Drain	Over Flow	Auto Filler	Quick Filler	Dry Wt. (kg)	Operating Wt. (kg)	
	(I)	(C)	(D)	(O)	(A)	(M)			
02008	4B(100A)×1	4B(100A)×1	2B(50A)×1	1B(25A)×1	1B(25A)×1	1B(25A)×1	650	1770	6.7
03010	4B(100A)×1	4B(100A)×1	2B(50A)×1	1B(25A)×1	1B(25A)×1	1B(25A)×1	730	1870	7.9
03012	5B(125A)×1	5B(125A)×1	2B(50A)×1	2B(50A)×1	1B(25A)×1	1B(25A)×1	850	2230	7.9
05015	5B(125A)×1	5B(125A)×1	2B(50A)×1	2B(50A)×1	1B(25A)×1	1B(25A)×1	900	2720	5.8
05017	5B(125A)×1	5B(125A)×1	2B(50A)×1	2B(50A)×1	1B(25A)×1	1B(25A)×1	990	3020	7.0
05020	6B(150A)×1	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 1/4B(32A)×1	1 1/4B(32A)×1	1100	3800	7.0
07022	6B(150A)×1	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 1/4B(32A)×1	1 1/4B(32A)×1	1260	4050	8.5
07025	6B(150A)×1	6B(150A)×1	2B(50A)×1	2B(50A)×1	1 1/4B(32A)×1	1 1/4B(32A)×1	1290	4200	10.1
10030	8B(200A)×1	8B(200A)×1	2B(50A)×1	2B(50A)×1	1 1/4B(32A)×1	1 1/4B(32A)×1	1500	5500	7.4
10035	8B(200A)×1	8B(200A)×1	2B(50A)×1	2B(50A)×1	1 1/4B(32A)×1	1 1/4B(32A)×1	1620	5980	9.0
15040	8B(200A)×1	8B(200A)×1	2B(50A)×1	4B(100A)×1	2B(50A)×1	2B(50A)×1	2050	8150	8.9
20050	10B(250A)×1	10B(250A)×1	2B(50A)×1	4B(100A)×1	2B(50A)×1	2B(50A)×1	2400	8880	7.2
20060	10B(250A)×1	10B(250A)×1	2B(50A)×1	4B(100A)×1	2B(50A)×1	2B(50A)×1	3300	9500	7.2
20070	10B(250A)×1	10B(250A)×1	2B(50A)×1	4B(100A)×1	2B(50A)×1	2B(50A)×1	4050	11550	6.9
30080	12B(300A)×1	12B(300A)×1	3B(80A)×1	4B(100A)×1	2B(50A)×1	2B(50A)×1	4750	13800	6.6
30090	12B(300A)×1	12B(300A)×1	3B(80A)×1	4B(100A)×1	2B(50A)×1	2B(50A)×1	5550	16450	6.2
30100	12B(300A)×1	12B(300A)×1	3B(80A)×1	4B(100A)×1	2B(50A)×1	2B(50A)×1	6300	19050	5.8

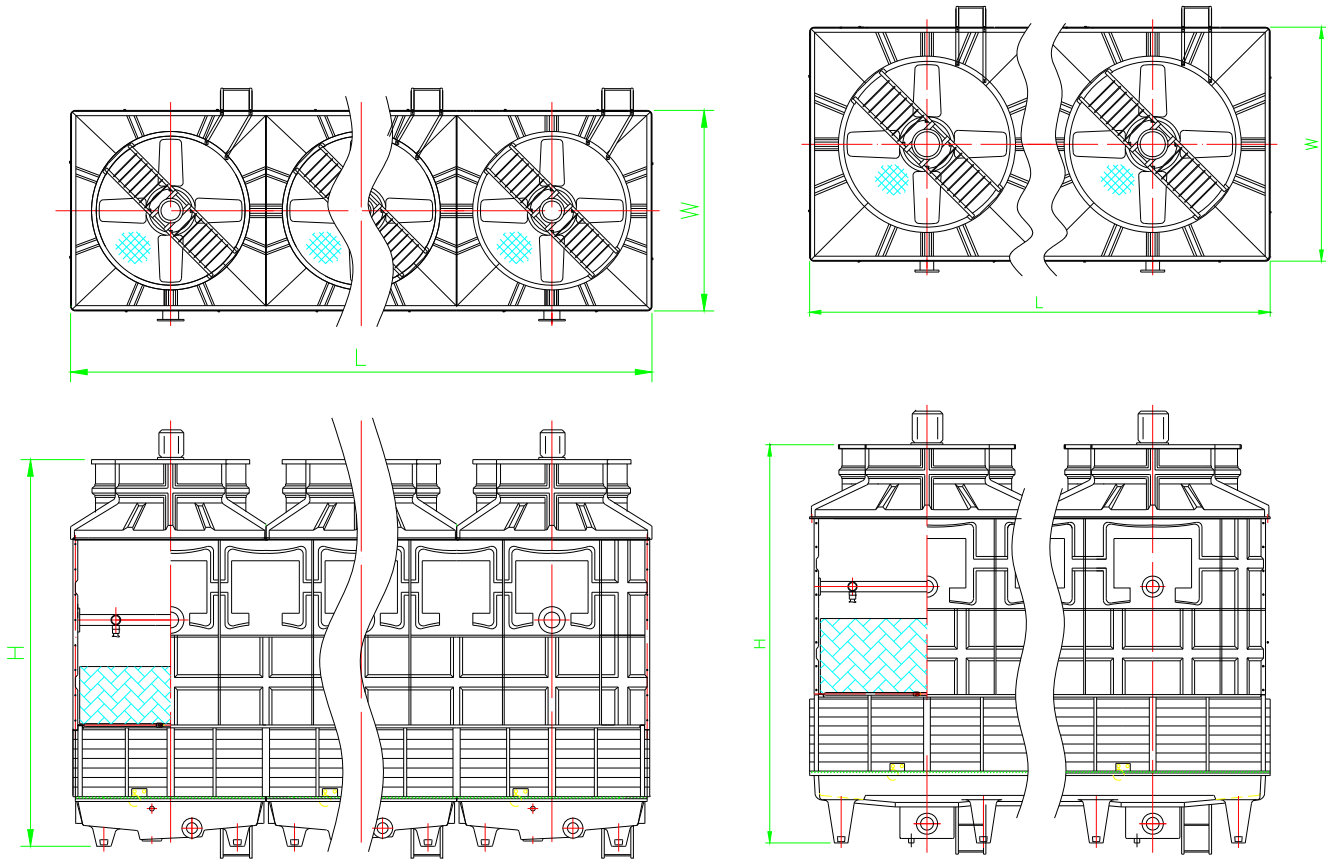
Note：

1. Nominal Tons are defined as the capacity that can deal with 13 lpm of water per ton, cooled from 37℃ to 32℃ with a 27℃ entering wet bulb temperature.
2. Total pump head required for cooling water circulation pump is the sum of condenser water pressure drop, piping friction loss and tower head.
3. All dimensions are in millimeters. Weights are in kilograms.
4. Multiple-cell models of the single-cell models above are also available but not listed. Air inlet height increases for multiple-cell models and a derating of cell capacity will apply for multiple-cell models as follows:

   For cells with three air inlet sides, a 3% derating of cell capacity will apply.

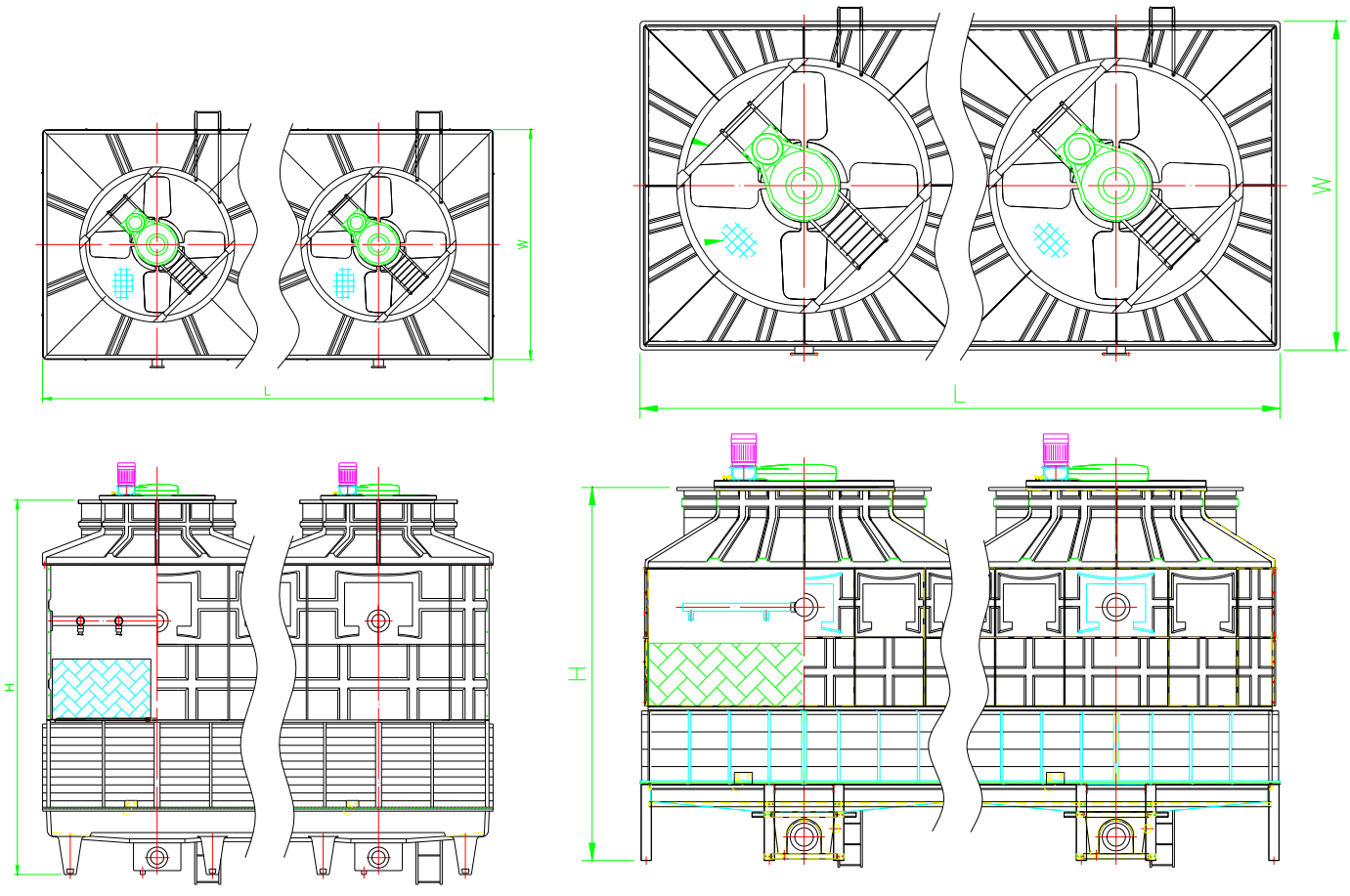
   For cells with two air inlet sides, a 5% derating of cell capacity will apply.

Multiple-Cell Models Engineering Data and Overall Dimensions



D-LC-02008-CN~03012-CN

D-LC-05015-CN~05020-CN



D-LC-07022-CN~20050-CN

D-LC-20060-CN~30100-CN

Tower Model D-LC-	Dimensions (mm)		
	Width	Length	Height
	W	L	H
02008-C2	2220	4220	3950
＊02008-CN (3 cells and above)	2220	2220N-220(N-1)	4050
03010-C2	2220	4220	4050
03010-C3	2220	6220	4150
＊03010-CN (4 cells and above)	2220	2220N-220(N-1)	4250
03012-C2	2420	4620	4050
03012-C3	2420	6820	4150
＊03012-CN (4 cells and above)	2420	2420N-220(N-1)	4250
05015-C2~05017-C2	2720	5220	4430
05015-C3~05017-C3	2720	7720	4530
05015-C4~05017-C4	2720	10220	4630
＊05015-CN~05017-CN (5 cells and above)	2720	2720N-220(N-1)	4730
05020-C2	3020	5820	4530
05020-C3	3020	8620	4630
05020-C4	3020	11420	4730
＊05020-CN (5 cells and above)	3020	3020N-220(N-1)	4830
07022-C2~07025-C2	3020	5820	4730
07022-C3~07025-C3	3020	8620	4830
07022-C4~07025-C4	3020	11420	4930
＊07022-CN~07025-CN (5 cells and above)	3020	3020N-220(N-1)	5030
10030-C2~10035-C2	3620	7020	4930
10030-C3~10035-C3	3620	10420	5030
10030-C4~10035-C4	3620	13820	5130
＊10030-CN~10035-CN (5 cells and above)	3620	3620N-220(N-1)	5230
15040-C2~20050-C2	4220	8220	4980
15040-C3~20050-C3	4220	12220	5080
15040-C4~20050-C4	4220	16220	5180
＊15040-CN~20050-CN (5 cells and above)	4220	4220N-220(N-1)	5280
20060-C2	4730	9230	5360
20060-C3	4730	13730	5360
＊20060-CN (4 cells and above)	4730	4730N-230(N-1)	5560
20070-C2	5230	10230	5435
20070-C3	5230	15230	5435
＊20070-CN (4 cells and above)	5230	5230N-230(N-1)	5635
30080-C2	5730	11230	5535
30080-C3	5730	16730	5535
＊30080-CN (4 cells and above)	5730	5730N-230(N-1)	5735
30090-C2	6230	12230	5835
30090-C3	6230	18230	5835
＊30090-CN (4 cells and above)	6230	6230N-230(N-1)	6035
30100-C2	6730	13230	5935
30100-C3	6730	19730	5935
＊30100-CN (4 cells and above)	6730	6730N-230(N-1)	6135

Note：

1. The models with starmark '＊' need calculating for the 'Length'.

Sample Model Number：

D-LC-10030-CN~10035CN (5 cells and above) where:

D-LC = Product Line Designator

-10030/-10035 = Box Size Designator

-C = Cell

N = Number of Cells

Assume N is 5, then the Length of D-LC-10030-C5~10035-C5 will be 17220mm.

3620N-220(N-1) =3620*5-220(5-1) = 17220

STD-201RS Table 3a - IP Units - Cooling Towers (CT)

Condition Reference #	1	2	3	4	5	6	7	8	9	10
Wet Bulb °F	50	50	50	50	50	55	55	55	55	55
Range °F	10	10	10	15	15	10	10	10	15	15
Approach °F	7	10	12	7	12	7	10	12	7	12
Inlet Water Temperature °F	67	70	72	72	77	72	75	77	77	82
Outlet Water Temperature °F	57	60	62	57	62	62	65	67	62	67
	GPM									
D-LC-02008	50.46	75.29	94.05	36.72	65.25	59.18	88.24	109.64	42.53	76.61
D-LC-03010	81.9	116.51	141.34	61.29	103.03	94.31	134.21	162.74	71.07	119.15
D-LC-03012	89.56	128.66	156.93	66.58	113.07	103.56	148.47	180.97	77.14	131.04
D-LC-05015	119.94	168.02	202.63	90.88	149	137.11	192.33	231.69	104.62	171.19
D-LC-05017	125.49	175.95	212.14	95.11	156.13	143.72	201.57	243.05	109.37	179.65
D-LC-05020	140.02	198.67	241.2	104.88	175.42	161.15	228.52	277.4	121.26	202.63
D-LC-07022	160.89	227.73	276.08	120.73	201.31	184.93	261.81	317.29	139.49	232.48
D-LC-07025	177.53	249.39	300.91	134.74	221.92	203.95	286.38	345.03	155.08	255.73
D-LC-10030	287.17	373.82	437.76	222.71	340.54	318.08	420.32	492.18	258.9	383.6
D-LC-10035	308.31	398.92	464.97	232.48	365.63	345.82	447.53	522.3	278.19	410.55
D-LC-15040	383.34	512.52	604.72	300.64	464.44	431.15	579.36	683.98	345.56	526.52
D-LC-20050	434.06	583.85	689.79	340.8	528.11	490.07	660.47	780.94	391.26	599.7
D-LC-20060	536.56	705.64	822.94	391.79	648.31	611.06	793.62	926.24	485.05	730.48
D-LC-20070	580.42	769.05	904.84	454.14	697.72	648.84	867.33	1021.1	523.35	789.39
D-LC-30080	762.44	992.55	1156.1	560.87	916.99	864.95	1113.8	1298.2	687.94	1024.3
D-LC-30090	783.05	1051.7	1241.9	615.03	952.39	883.7	1190.2	1406	706.7	1081.3
D-LC-30100	965.34	1260.2	1476	749.76	1146.8	1068.9	1416.8	1660.7	870.23	1292.9

STD-201RS Table 3b - SI Units - Cooling Towers (CT)

Condition Reference #	1	2	3	4	5	6	7	8	9	10
Wet Bulb °C	10	10	10	10	10	13	13	13	13	13
Range °C	6	6	6	8	8	6	6	6	8	8
Approach °C	4	6	7	4	7	4	6	7	4	7
Inlet Water Temperature °C	20	22	23	22	25	23	25	26	25	28
Outlet Water Temperature °C	14	16	17	14	17	17	19	20	17	20
	L/S									
D-LC-02008	3.07	4.85	5.85	2.47	4.52	3.65	5.75	6.93	2.88	5.38
D-LC-03010	5	7.48	8.83	4.08	7.05	5.83	8.72	10.3	4.77	8.25
D-LC-03012	5.48	8.27	9.8	4.43	7.77	6.4	9.65	11.43	5.2	9.1
D-LC-05015	7.33	10.78	12.65	6.03	10.17	8.5	12.48	14.65	7	11.82
D-LC-05017	7.68	11.3	13.27	6.32	10.67	8.9	13.1	15.37	7.33	12.4
D-LC-05020	8.55	12.77	15.07	6.97	12.02	9.97	14.87	17.53	8.15	14.03
D-LC-07022	9.83	14.63	17.25	8.03	13.78	11.45	17.02	20.07	9.37	16.08
D-LC-07025	10.87	16.03	18.82	8.92	15.15	12.63	18.62	21.83	10.42	17.65
D-LC-10030	17.68	23.97	27.42	14.8	22.92	19.83	27.2	31.15	17.22	26.08
D-LC-10035	18.95	25.57	29.15	15.57	24.52	21.58	28.98	33.07	18.58	27.87
D-LC-15040	23.63	32.88	37.87	19.93	31.37	26.8	37.57	43.28	22.95	35.93
D-LC-20050	26.75	37.45	43.18	22.58	35.7	30.45	42.83	49.42	25.97	40.95
D-LC-20060	32.92	45.25	51.62	26.45	43.52	38.12	51.42	58.68	32.58	49.57
D-LC-20070	35.77	49.3	56.65	30.12	47.07	40.33	56.2	64.62	34.75	53.8
D-LC-30080	46.8	63.62	72.47	37.8	61.12	53.93	72.12	82.22	46.15	69.43
D-LC-30090	48.28	67.47	77.77	40.75	64.37	54.93	77.18	89	46.9	73.83
D-LC-30100	59.47	80.77	92.45	49.82	77.23	66.65	91.75	105.1	57.87	87.93

STD-201RS Table 3a - IP Units - Cooling Towers (CT)

Condition Reference #	11	12	13	14	15	16	17	18	19	20
Wet Bulb °F	60	60	60	60	60	65	65	65	65	65
Range °F	10	10	10	15	15	10	10	10	15	15
Approach °F	7	10	12	7	12	7	10	12	7	12
Inlet Water Temperature °F	77	80	82	82	87	82	85	87	87	92
Outlet Water Temperature °F	67	70	72	67	72	72	75	77	72	77
	GPM									
D-LC-02008	69.75	103.56	128.66	50.46	90.62	82.43	122.32	151.64	59.97	107.52
D-LC-03010	109.37	155.08	188.1	82.69	138.17	127.34	180.18	218.22	96.43	161.15
D-LC-03012	120.21	171.99	209.5	90.09	152.7	140.28	200.25	243.84	105.41	178.33
D-LC-05015	157.72	221.12	266.56	120.47	197.61	182.29	255.2	307.78	139.75	228.79
D-LC-05017	165.65	231.96	279.77	126.55	207.65	191.54	268.15	323.1	146.89	240.67
D-LC-05020	186.25	263.92	320.19	140.81	235.13	216.37	306.19	371.18	164.06	273.7
D-LC-07022	213.73	302.23	366.16	161.95	269.47	248.34	350.58	424.28	188.63	313.85
D-LC-07025	235.39	329.97	397.6	179.91	296.15	272.9	381.75	459.42	209.76	344.24
D-LC-10030	357.97	474.22	555.85	293.25	434.32	405.53	537.62	630.35	327.59	493.24
D-LC-10035	383.6	504.33	589.14	319.4	463.91	433.79	570.91	666.81	355.6	526.26
D-LC-15040	489.54	658.09	776.97	389.68	599.7	557.96	750.29	886.08	445.15	685.83
D-LC-20050	556.91	751.08	887.93	442.25	683.98	635.9	857.29	1013.7	505.92	783.05
D-LC-20060	681.34	896.39	1046.7	565.62	827.7	772.48	1016.6	1187.5	633.52	941.3
D-LC-20070	734.7	982.78	1157.7	589.67	896.91	835.62	1118.3	1317.8	669.45	1023.2
D-LC-30080	956.62	1255.4	1464.1	799.17	1157.4	1081.9	1420.5	1657.5	894.54	1312.7
D-LC-30090	1004.4	1352.9	1598.6	798.11	1233	1146.6	1544.2	1825	913.56	1411.8
D-LC-30100	1206	1600.2	1877.1	984.62	1464.1	1366.6	1814.7	2129.6	1102.7	1664.4

STD-201RS Table 3b - SI Units - Cooling Towers (CT)

Condition Reference #	11	12	13	14	15	16	17	18	19	20
Wet Bulb °C	16	16	16	16	16	18	18	18	18	18
Range °C	6	6	6	8	8	6	6	6	8	8
Approach °C	4	6	7	4	7	4	6	7	4	7
Inlet Water Temperature °C	26	28	29	28	31	28	30	31	30	33
Outlet Water Temperature °C	20	22	23	20	23	22	24	25	22	25
	L/S									
D-LC-02008	4.37	6.87	8.25	3.47	6.43	4.93	7.73	9.28	3.93	7.27
D-LC-03010	6.85	10.22	12.05	5.62	9.68	7.65	11.38	13.42	6.28	10.82
D-LC-03012	7.53	11.33	13.42	6.13	10.72	8.42	12.65	14.97	6.88	11.98
D-LC-05015	9.9	14.53	17.07	8.18	13.78	10.98	16.13	18.93	9.1	15.33
D-LC-05017	10.38	15.27	17.92	8.58	14.5	11.53	16.95	19.88	9.55	16.12
D-LC-05020	11.67	17.38	20.52	9.57	16.47	13.02	19.37	22.83	10.7	18.37
D-LC-07022	13.4	19.92	23.45	11.02	18.87	14.93	22.17	26.1	12.3	21.05
D-LC-07025	14.78	21.73	25.47	12.22	20.68	16.45	24.15	28.3	13.63	23.03
D-LC-10030	22.52	31.05	35.57	19.47	29.82	24.63	33.98	38.95	21.17	32.7
D-LC-10035	24.13	33.02	37.68	21.25	31.8	26.38	36.1	41.23	22.83	34.82
D-LC-15040	30.77	43.15	49.73	26.17	41.37	33.83	47.45	54.68	28.82	45.57
D-LC-20050	35.02	49.27	56.85	29.73	47.22	38.53	54.22	62.57	32.77	52.05
D-LC-20060	42.92	58.72	67.05	37.73	56.73	47	64.32	73.45	40.7	62.23
D-LC-20070	46.18	64.42	74.08	39.4	61.78	50.68	70.72	81.35	43.3	67.93
D-LC-30080	60.22	82.17	93.72	53.3	79.27	65.82	89.85	102.52	57.42	86.8
D-LC-30090	63.15	88.75	102.37	53.67	85.12	69.48	97.65	112.65	59.13	93.82
D-LC-30100	75.83	104.75	120.07	65.37	100.6	83	114.73	131.55	71.27	110.33

STD-201RS Table 3a - IP Units - Cooling Towers (CT)

Condition Reference #	21	22	23	24	25	26	27	28	29	30
Wet Bulb °F	70	70	70	70	70	75	75	75	75	75
Range °F	10	10	10	15	15	10	10	10	15	15
Approach °F	7	10	12	7	12	7	10	12	7	12
Inlet Water Temperature °F	87	90	92	92	97	92	95	97	97	102
Outlet Water Temperature °F	77	80	82	77	82	82	85	87	82	87
	GPM									
D-LC-02008	98.01	144.77	179.12	71.59	127.87	116.77	171.72	212.14	85.86	152.44
D-LC-03010	148.47	209.76	253.88	113.34	188.63	174.1	245.17	296.42	133.41	221.39
D-LC-03012	164.06	233.81	284.53	123.9	209.24	192.86	273.96	332.88	146.36	246.22
D-LC-05015	211.61	295.89	356.65	162.74	266.3	246.49	343.97	414.51	190.21	310.68
D-LC-05017	222.45	310.95	374.62	171.19	280.3	259.43	361.94	435.38	200.25	327.33
D-LC-05020	252.3	356.65	431.95	192.33	319.93	295.36	416.62	504.07	225.88	375.15
D-LC-07022	289.28	407.9	493.24	220.86	366.43	338.42	476.06	575.13	259.43	429.57
D-LC-07025	317.82	443.31	532.86	245.17	401.3	370.92	516.22	619.78	287.44	469.2
D-LC-10030	461.01	611.59	717.53	373.03	562.45	525.73	697.98	819.24	426.13	643.29
D-LC-10035	492.18	648.31	757.69	401.56	598.91	560.6	738.67	863.63	458.1	683.98
D-LC-15040	638.54	858.61	1014	510.67	787.01	733.38	985.68	1164	588.08	905.9
D-LC-20050	728.63	981.98	1161.4	581.48	899.56	837.74	1128.9	1334.7	670.24	1036.9
D-LC-20060	879.21	1157.1	1351.8	719.64	1073.9	1003.7	1321.2	1543.6	823.47	1229.5
D-LC-20070	953.98	1277.1	1505.1	765.88	1171.4	1092.9	1463.1	1724.6	879.21	1345.5
D-LC-30080	1227.7	1613.1	1883.1	1005	1494.2	1398.3	1838	2146.5	1146.6	1706.4
D-LC-30090	1313.8	1768.7	2090.3	1049.6	1621.8	1510.6	2032.9	2402	1210.2	1869.4
D-LC-30100	1554.7	2065.4	2424.7	1256.5	1898.7	1774.5	2358.4	2770	1436.7	2172.9

STD-201RS Table 3b - SI Units - Cooling Towers (CT)

Condition Reference #	21	22	23	24	25	26	27	28	29	30
Wet Bulb °C	21	21	21	21	21	24	24	24	24	24
Range °C	6	6	6	8	8	6	6	6	8	8
Approach °C	4	6	7	4	7	4	6	7	4	7
Inlet Water Temperature °C	31	33	34	33	36	34	36	37	36	39
Outlet Water Temperature °C	25	27	28	25	28	28	30	31	28	31
	L/S									
D-LC-02008	5.95	9.28	11.13	4.75	8.75	7.18	11.17	13.37	5.78	10.58
D-LC-03010	9.05	13.43	15.82	7.47	12.8	10.75	15.9	18.7	8.9	15.2
D-LC-03012	9.98	14.97	17.7	8.18	14.23	11.88	17.78	20.98	9.78	16.95
D-LC-05015	12.9	18.93	22.2	10.72	18.03	15.22	22.3	26.13	12.67	21.3
D-LC-05017	13.57	19.9	23.33	11.27	18.98	16.02	23.45	27.47	13.35	22.43
D-LC-05020	15.37	22.83	26.9	12.67	21.73	18.23	27.02	31.8	15.08	25.78
D-LC-07022	17.63	26.1	30.72	14.55	24.87	20.9	30.87	36.28	17.32	29.48
D-LC-07025	19.38	28.38	33.22	16.13	27.15	22.93	33.47	39.13	19.15	32.12
D-LC-10030	28.28	39.08	44.8	24.33	37.65	32.62	45.1	51.72	28.1	43.53
D-LC-10035	30.23	41.43	47.33	26.18	40.03	34.82	47.72	54.55	30.17	46.2
D-LC-15040	39.13	54.9	63.28	33.4	52.83	45.47	63.75	73.52	38.87	61.5
D-LC-20050	44.65	62.8	72.48	38.03	60.43	51.93	73.03	84.28	44.33	70.43
D-LC-20060	54.03	73.98	84.52	46.88	71.73	62.38	85.42	97.6	54.22	83
D-LC-20070	58.48	81.63	93.95	50.05	78.58	67.77	94.6	108.9	58.08	91.25
D-LC-30080	75.47	103.1	117.7	65.47	99.8	86.87	118.77	135.63	75.47	115.17
D-LC-30090	80.52	113.12	130.48	68.65	108.92	93.65	131.52	151.72	80.03	126.93
D-LC-30100	95.4	131.98	151.38	82.02	127.17	110.08	152.4	174.88	94.77	147.1

STD-201RS Table 3a - IP Units - Cooling Towers (CT)

Condition Reference #	31	32	33	34	35	36	37	38	39	40
Wet Bulb °F	80	80	80	80	80	85	85	85	85	85
Range °F	10	10	10	15	15	10	10	10	15	15
Approach °F	7	10	12	7	12	7	10	12	7	12
Inlet Water Temperature °F	97	100	102	102	107	102	105	107	107	112
Outlet Water Temperature °F	87	90	92	87	92	92	95	97	92	97
	GPM									
D-LC-02008	139.75	204.22	251.51	103.3	182.29	167.23	243.32	299.06	124.7	218.22
D-LC-03010	204.48	287.44	346.88	157.46	260.49	240.94	337.37	406.58	186.25	307.25
D-LC-03012	226.94	321.78	390.47	173.04	290.34	268.15	379.11	459.16	205.54	343.18
D-LC-05015	287.7	401.3	483.2	222.71	363.52	337.1	469.46	564.83	261.81	426.66
D-LC-05017	303.02	422.17	507.77	235.13	383.34	355.33	494.03	593.36	276.87	450.17
D-LC-05020	346.88	487.95	589.93	266.3	441.19	408.17	573.02	691.91	314.91	520.18
D-LC-07022	397.07	557.17	672.62	305.66	504.6	467.08	653.86	788.33	361.14	594.42
D-LC-07025	434.06	602.35	722.55	338.16	549.77	509.35	704.85	844.08	398.92	645.94
D-LC-10030	601.82	798.9	938.13	488.48	737.87	690.58	917.52	1077.6	561.66	849.1
D-LC-10035	640.39	844.08	987.53	524.15	783.31	733.65	967.45	1132.3	601.29	899.82
D-LC-15040	844.87	1135	1340.5	678.96	1046.2	975.91	1310.6	1547.6	786.48	1211.3
D-LC-20050	966.4	1301.1	1538.4	775.12	1198.9	1117.8	1504.3	1778	899.03	1389.9
D-LC-20060	1149.5	1513	1767.9	945.26	1411.6	1320.4	1737.6	2030.5	1087.9	1625.3
D-LC-20070	1256.2	1681.6	1982.2	1012.6	1550.3	1448	1937.8	2285	1169.6	1791.2
D-LC-30080	1597.3	2100.6	2454	1312	1954.2	1830.3	2407.5	2813.3	1505.6	2244.8
D-LC-30090	1742.1	2343.1	2768.2	1399.4	2160.8	2015	2708.2	3198.8	1623.2	2505
D-LC-30100	2032.1	2701.6	3173.9	1647.7	2494.5	2333.8	3103.4	3647.4	1895.5	2872

STD-201RS Table 3b - SI Units - Cooling Towers (CT)

Condition Reference #	31	32	33	34	35	36	37	38	39	40
Wet Bulb °C	27	27	27	27	27	29	29	29	29	29
Range °C	6	6	6	8	8	6	6	6	8	8
Approach °C	4	6	7	4	7	4	6	7	4	7
Inlet Water Temperature °C	37	39	40	39	42	39	41	42	41	44
Outlet Water Temperature °C	31	33	34	31	34	33	35	36	33	36
	L/S									
D-LC-02008	8.73	13.47	16.1	7.05	12.82	9.93	15.28	18.23	8.07	14.58
D-LC-03010	12.8	18.88	22.18	10.63	18.12	14.42	21.22	24.88	12	20.38
D-LC-03012	14.2	21.17	24.97	11.73	20.23	16.02	23.82	28.07	13.25	22.82
D-LC-05015	18.02	26.35	30.87	15.02	25.23	20.18	29.5	34.55	16.87	28.3
D-LC-05017	18.98	27.72	32.45	15.85	26.6	21.28	31.05	36.33	17.82	29.83
D-LC-05020	21.7	32.07	37.72	18	30.68	24.42	36	42.32	20.3	34.53
D-LC-07022	24.85	36.62	43	20.65	35.08	27.95	41.08	48.23	23.28	39.45
D-LC-07025	27.2	39.57	46.23	22.8	38.1	30.53	44.32	51.73	25.67	42.75
D-LC-10030	37.77	52.23	59.92	32.57	50.5	41.7	57.7	66.22	36	55.87
D-LC-10035	40.22	55.17	63.1	34.9	53.5	44.37	60.88	69.65	38.52	59.12
D-LC-15040	53.02	74.3	85.67	45.42	71.83	58.83	82.45	95.05	50.47	79.82
D-LC-20050	60.63	85.22	98.33	51.87	82.37	67.35	94.62	109.18	57.7	91.58
D-LC-20060	72.27	98.97	113.08	62.92	96.37	79.87	109.37	124.98	69.62	106.63
D-LC-20070	78.82	110.02	126.67	67.65	106.33	87.32	121.88	140.33	75.03	117.97
D-LC-30080	100.37	137.28	156.85	87.3	133.37	110.72	151.5	173.12	96.38	147.35
D-LC-30090	109.33	153.45	176.98	93.62	148.42	121.43	170.35	196.47	104.15	165.02
D-LC-30100	127.52	176.6	202.73	109.9	170.77	140.9	195.2	224.13	121.55	188.98

STD-201RS Table 3a - IP Units - Cooling Towers (CT)

Condition Reference #	41	42	43	44	45		46	47	48	49
Wet Bulb °F	90	90	90	90	90		69.8	78	80.6	82.4
Range °F	10	10	10	15	15		9	10	9	9
Approach °F	7	10	12	7	12		10.8	7	9	7.2
Inlet Water Temperature °F	107	110	112	112	117		89.6	95	98.6	98.6
Outlet Water Temperature °F	97	100	102	97	102		80.6	85	89.6	89.6
	GPM									
D-LC-02008	200.78	290.61	355.86	150.59	262.07		172.25	129.98	202.63	170.4
D-LC-03010	284.27	397.07	477.91	221.12	363.26		245.17	191.8	285.06	244.37
D-LC-03012	317.29	447.27	541.05	244.37	406.85		274.23	212.67	319.4	272.38
D-LC-05015	395.75	550.3	661.79	308.57	501.95		344.5	270.26	398.39	342.12
D-LC-05017	417.68	579.36	695.34	326.53	529.96		361.67	284.79	419	360.35
D-LC-05020	481.61	674.47	813.17	373.03	614.5		416.89	325.21	484.25	414.24
D-LC-07022	550.57	769.05	925.71	427.72	701.94		476.06	372.24	552.94	473.69
D-LC-07025	598.91	826.38	988.32	471.31	760.59		514.37	407.38	597.59	515.16
D-LC-10030	794.94	1056.2	1241.2	647.52	979.87		695.6	569.85	793.35	697.19
D-LC-10035	843.02	1112.2	1301.9	692.17	1036.4		734.7	606.84	838	739.46
D-LC-15040	1130.7	1517.8	1792	913.56	1406.5		981.72	798.11	1126.5	985.42
D-LC-20050	1296.6	1743.6	2060.4	1045.9	1615.8		1124.1	912.5	1291.4	1128.3
D-LC-20060	1520.7	2000.7	2338.6	1255.9	1876.5		1309.3	1088.5	1500.9	1327
D-LC-20070	1673.6	2239.8	2640.8	1355	2075.5		1458.1	1187.8	1669.1	1462
D-LC-30080	2102.9	2766.8	3234.7	1733.1	2585.9		1825.8	1514.1	2084.7	1842.4
D-LC-30090	2337	3138.5	3706.3	1887.9	2911.6		2023.1	1645.1	2325.1	2033.2
D-LC-30100	2687.8	3575.5	4203.2	2186.9	3316.1		2350.7	1924.1	2682.3	2356.3

STD-201RS Table 3b - SI Units - Cooling Towers (CT)

Condition Reference #	41	42	43	44	45		46	47	48	49
Wet Bulb °C	32.2	32.2	32.2	32.2	32.2		21	25.56	27	28
Range °C	6	6	6	8	8		5	5.56	5	5
Approach °C	4	6	7	4	7		6	3.89	5	4
Inlet Water Temperature °C	42.2	44.2	45.2	44.2	47.2		32	35.00	37	37
Outlet Water Temperature °C	36.2	38.2	39.2	36.2	39.2		27	29.44	32	32
	L/S									
D-LC-02008	12.27	18.75	22.3	10.02	17.95		10.87	8.18	12.78	10.75
D-LC-03010	17.47	25.6	29.98	14.6	24.68		15.47	12.07	17.98	15.42
D-LC-03012	19.47	28.83	33.93	16.18	27.72		17.3	13.38	20.15	17.18
D-LC-05015	24.3	35.45	41.5	20.38	34.1		21.73	17.02	25.13	21.58
D-LC-05017	25.65	37.32	43.62	21.55	35.97		22.82	17.92	26.43	22.73
D-LC-05020	29.55	43.45	51.02	24.67	41.8		26.3	20.47	30.55	26.13
D-LC-07022	33.8	49.55	58.08	28..27	47.72		30.03	23.43	34.88	29.88
D-LC-07025	36.83	53.25	62.07	31.08	51.53		32.45	25.65	37.7	32.5
D-LC-10030	49.05	67.9	77.95	42.4	65.87		43.88	35.88	50.05	43.98
D-LC-10035	52.07	71.48	81.82	45.27	69.55		46.35	38.22	52.87	46.65
D-LC-15040	69.72	97.63	112.57	59.92	94.75		61.93	50.25	71.07	62.17
D-LC-20050	79.93	112.18	129.43	68.63	108.87		70.92	57.45	81.47	71.18
D-LC-20060	94	128.72	147.12	82.08	125.78		82.6	68.53	94.68	83.72
D-LC-20070	103.2	144.05	165.87	88.85	139.72		91.98	74.78	105.3	92.23
D-LC-30080	129.93	177.88	203.35	113.28	173.37		115.18	95.33	131.52	116.23
D-LC-30090	144.08	201.95	232.87	123.87	196.13		127.63	103.57	146.68	128.27
D-LC-30100	165.83	229.83	263.98	143.27	222.95		148.3	121.15	169.22	148.65

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LIANG CHI INTERNATIONAL GROUP

• Office : No.1, Sec.3, Nanking E. Rd., Taipei, Taiwan, R.O.C.
Tel : 886-2-2506-3588~98 Fax : 886-2-2506-7227

• Factory : No.291, Sec.2, Hae-sun Rd., Hae-Hwe Village, Taoyuan, Taiwan, R.O.C.
Tel : 886-3-354-1201~10 Fax : 886-3-354-1426

• Http : //www.liangchi.com E-mail : intl-trade@liangchi.com.tw