

良機

1962 創業

Cooling Tower

Series C-LC Closed Circuit

LIANG CHI INDUSTRY CO., LTD.

Liang Chi series C-LC have been designed for closed circuit cross flow type cooling towers with Low Noise Motor and Fan. The compact design is suitable for Equipment Cooling, Industrial Process Cooling and Air Conditioning.



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

Characteristics

International Standards

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

Low Noise & Easy Maintenance

Series C-LC cooling towers use high tension V-belt reducers, which correspond to the low noise axial flow fans featuring silent operation and easy maintenance.

Light Weight, Less Space and Multi-Cell Installation

Comparing with other types of closed circuit cooling tower, C-LC features lighter operational weight and less installation space. Also the combinative multi-cell structure is suitable for large cooling requirement and future expansion.

Unique Distribution System & Efficient Heat Exchange

Gravitational distribution systems features low pressure and slow water flow which can prolong cooling duration and ensure cooling efficiency.

Efficient Performance

Unique design of vacuum-formed and round-chorded filling with ripple surface facilitate even spread and long duration of water drop and free of deposits and scales.

Low Electrical Power Consumption

The high efficient hydrodynamic "venturi-tube" fan stack with high efficient low-resistance filling facilitates good ventilation and reduction of fan motor power to save electrical power.

Long Service Life

C-LC tower components are made of weatherproof and anticorrosive materials. Casing is constructed of anti ultraviolet P.V.C. which features soundproof and non-decayed merits with fine streamline outlook. Fan stack, basin and access door are made by F.R.P. Filling and inlet louvers are made of 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.

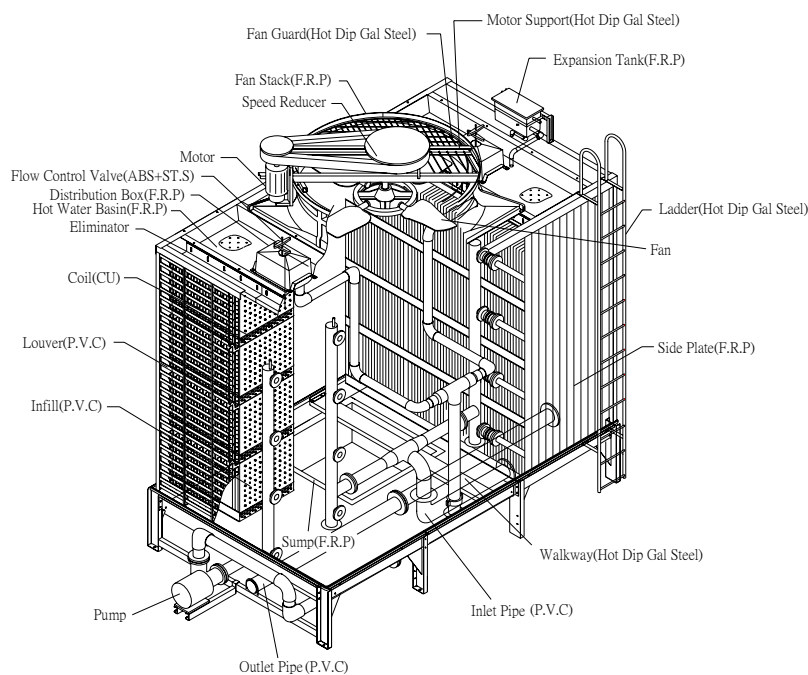
Easy Inner Piping Arrangement & Low Piping Cost

Instead of outer piping arrangement, C-LC provides an inner piping arrangement, which keeps the outer maintenance area pipe free so that it is easier and safer for people to maintain the tower, and it can save the cost of outer piping work.

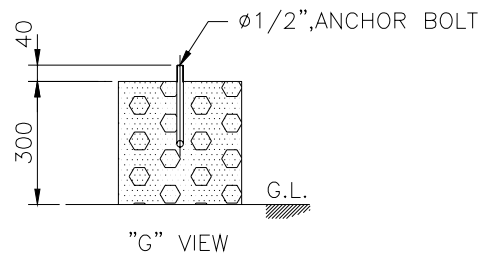
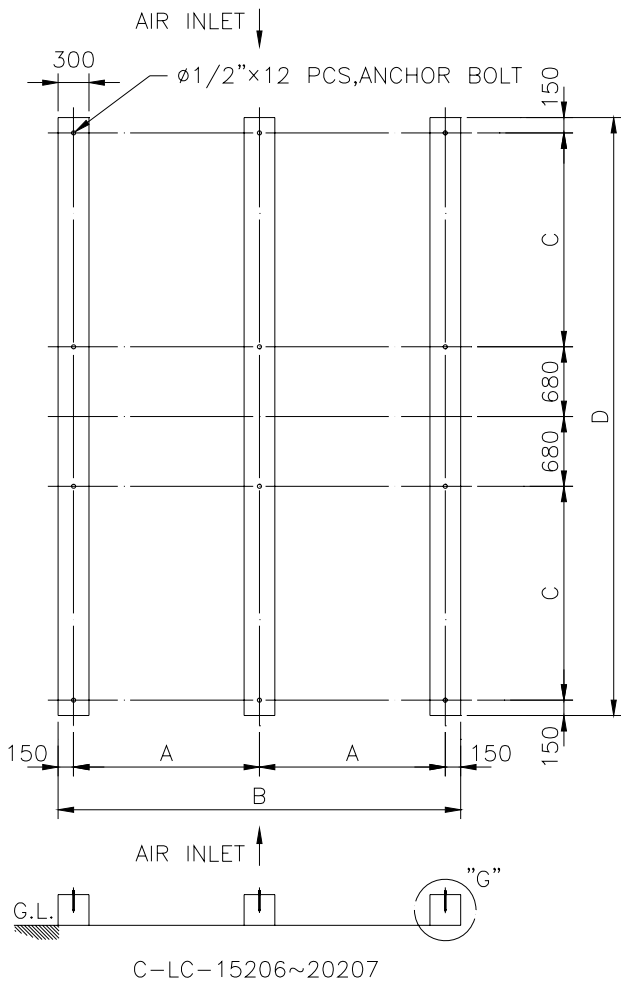
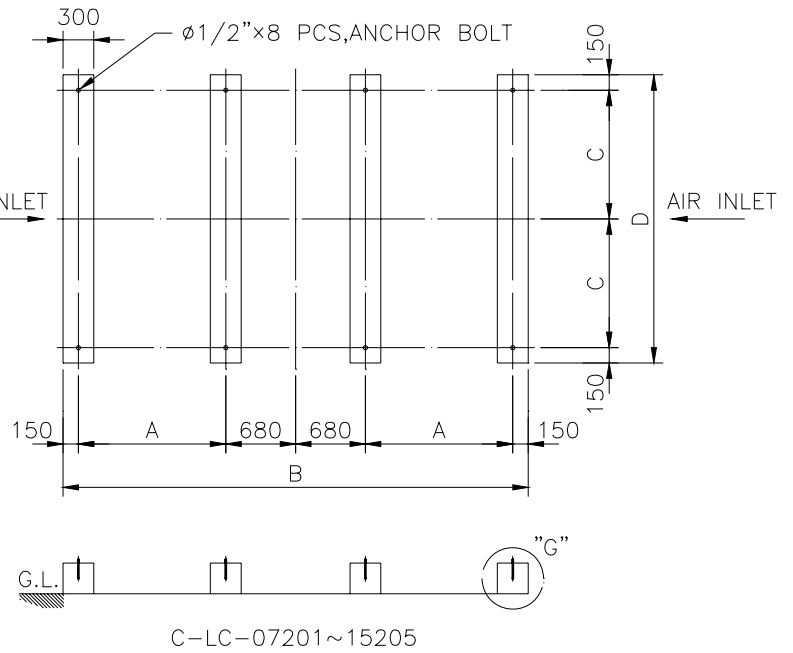
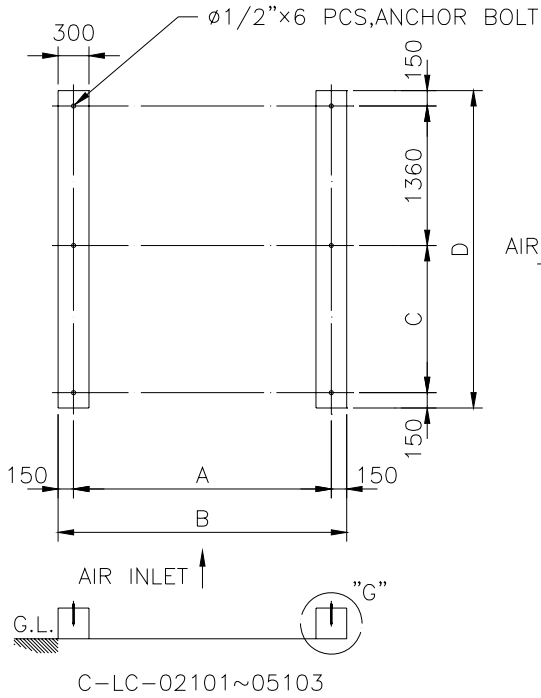
Heat Exchange Coil Pack

Heat exchange coil packs are made of seamless deoxidized copper tubes with best heat transfer efficiency and anticorrosion. The copper construction offers a non corrosive coil for extended service life. Instead of single heat exchange coil pack in each side of tower, it is divided into 4~5 sets of heat exchange packs so that they are light in weight which is easy to be dismantled and offer a flexible operation that in case one or some of them need to be repaired the rest of coil packs can still work normally.

Structure and Standard Materials



Recommended Concrete Foundations



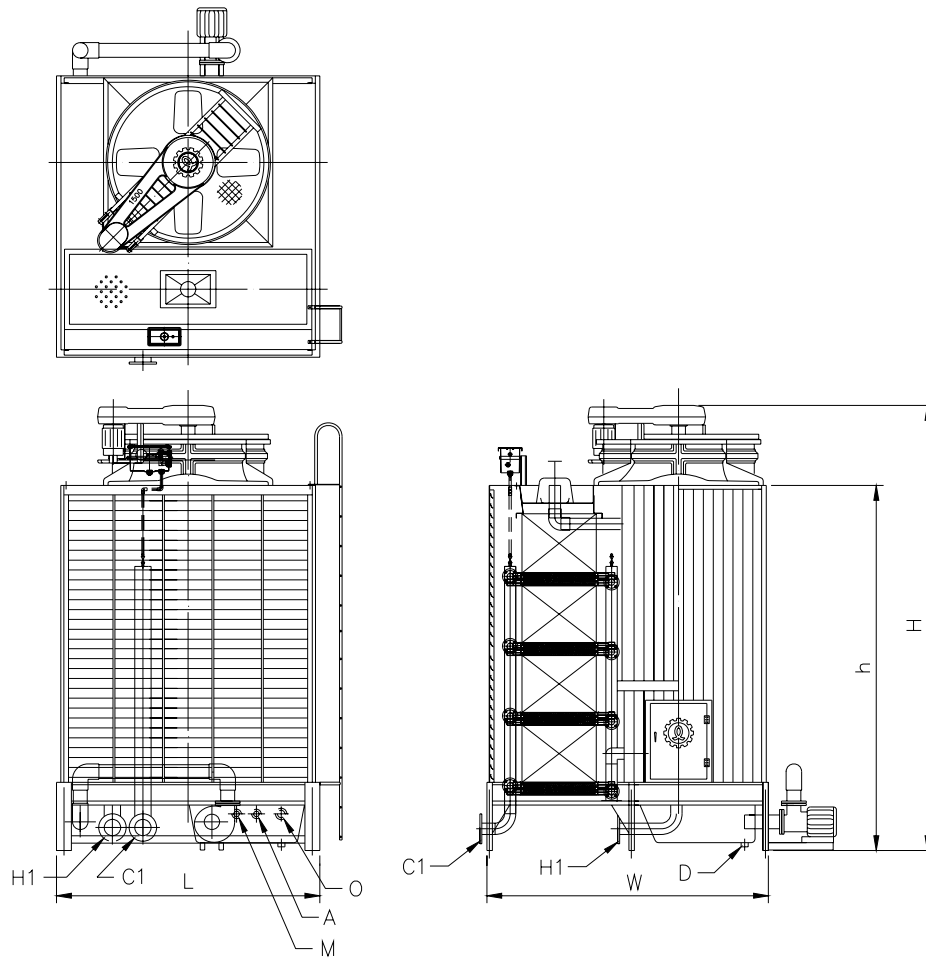
NOTES :

1. The anchor bolts are Ø1/2" anchor bolts.
2. All concrete foundations must be leveled and aligned on the top.
3. The concrete foundations as shown are non-isolator type. For isolator type, please contact your local supplier or distributor.
4. Multiple cell models of the single cell models are also available but not shown. For more information, please contact your local supplier or distributor.
5. All dimensions are in millimeters.

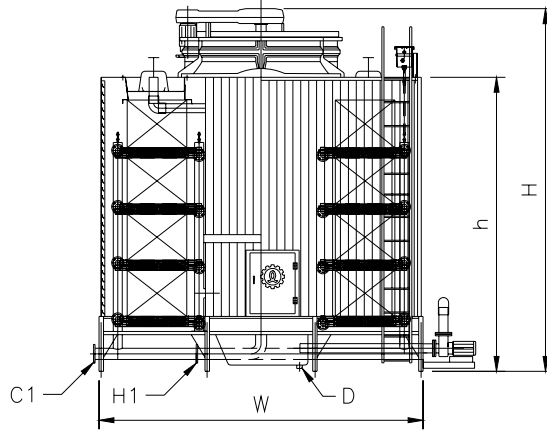
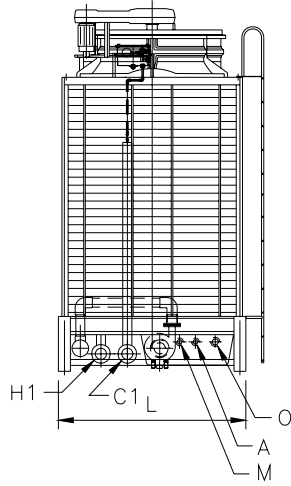
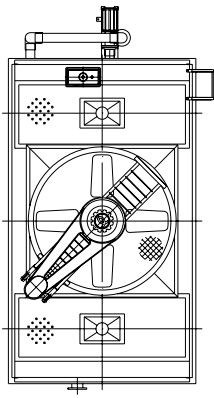
C-LC-ITEMS	02101	05102	05103	07201	07202	10203	10204	15205	15206	20207
A	2210	2510	2810	1335	1485	1485	1685	1685	1810	1810
B	2510	2810	3110	4330	4630	4630	5030	5030	3920	3920
C	1335	1435	1435	1105	1255	1405	1405	1405	2085	2085
D	2995	3095	3095	2510	2810	3110	3110	3110	5830	5830

Dimensions and Standard Specifications

C-LC-02101~05103

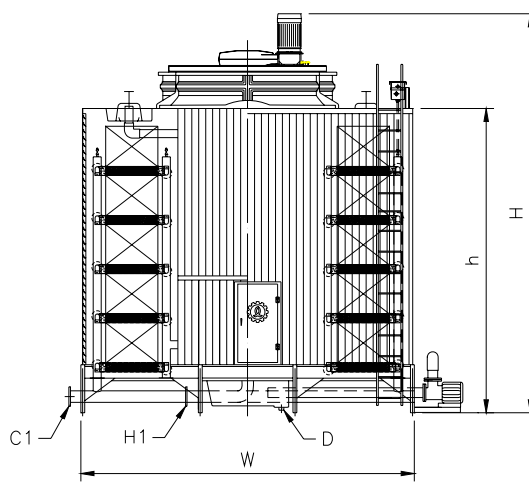
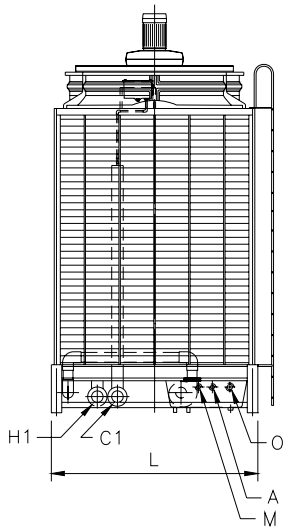
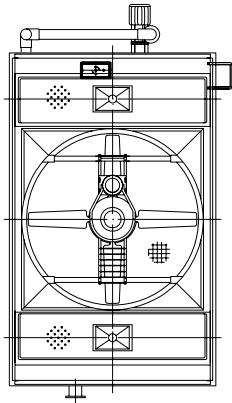


C-LC-07201~10203

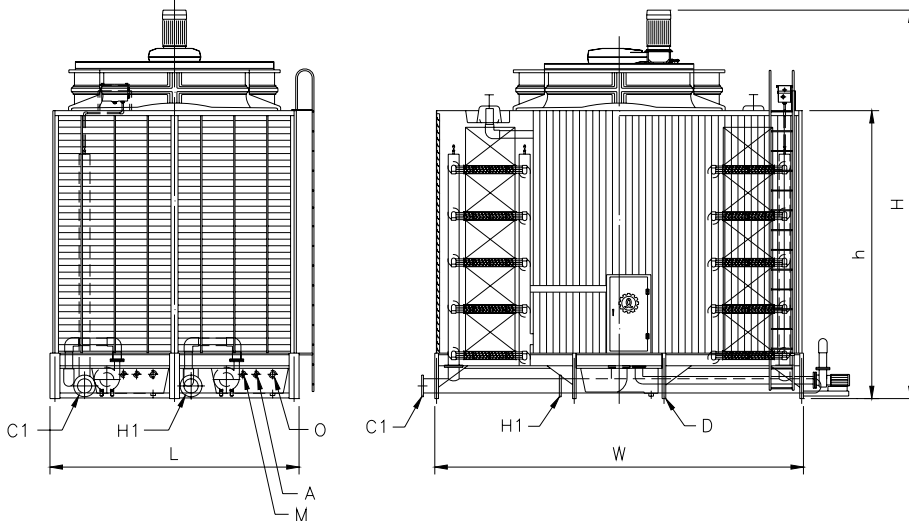
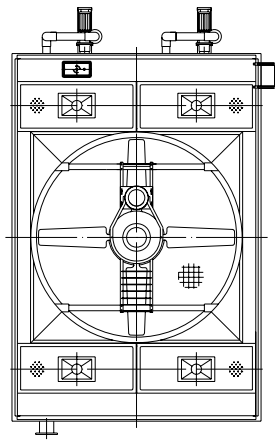


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C-LC-10204~15205



C-LC-15206~20207



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Model Number	Nominal Ton*1	Internal Coil Flow Rate (LPM)	Dimensions				Fan Dia. (mm)	Fan Motor (HP)
			Width(mm)	Length(mm)	Height(mm)			
C-LC-			W	L	h	H		
02101	50	650	2745	2360	3690	4510	1300	2
05102	60	780	2845	2660	3690	4500	1500	5
05103	67	871	2845	2960	3690	4500	1500	5
07201	104	1352	4080	2360	3690	4550	1700	7 1/2
07202	122	1586	4380	2660	3690	4570	2000	7 1/2
10203	135	1755	4380	2960	3690	4570	2000	10
10204	195	2535	4780	2960	4370	5730	2360	10
15205	210	2730	4780	2960	4370	5795	2360	15
15206	255	3315	5580	3770	4370	5895	2970	15
20207	275	3575	5580	3770	4370	6005	2970	20

Model Number	Connection Sizes						Approximate Weights	
	Inlet	Outlet	Drain	Over Flow	Auto Filler	Quick Filler	Shipping (KG)	Operating (KG)
C-LC-	(H1)	(C1)	(D)	(O)	(A)	(M)		
02101	4B(100A)	4B(100A)	2B(50A)	2B(50A)	1/2B(15A)	1/2B(15A)	1150	2950
05102	4B(100A)	4B(100A)	2B(50A)	2B(50A)	1/2B(15A)	1/2B(15A)	1450	3350
05103	4B(100A)	4B(100A)	2B(50A)	2B(50A)	3/4B(20A)	3/4B(20A)	1750	3750
07201	5B(125A)	5B(125A)	2B(50A)	2B(50A)	3/4B(20A)	3/4B(20A)	2000	4400

07202	5B(125A)	5B(125A)	2B(50A)	2B(50A)	3/4B(20A)	3/4B(20A)	2400	5200
10203	6B(150A)	6B(150A)	2B(50A)	2B(50A)	1B(25A)	1B(25A)	2600	5600
10204	6B(150A)	6B(150A)	2B(50A)	2B(50A)	1B(25A)	1B(25A)	3680	7490
15205	6B(150A)	6B(150A)	2B(50A)	2B(50A)	1B(25A)	1B(25A)	3700	7510
15206	8B(200A)	8B(200A)	2B(50A)x2	2B(50A)x2	3/4B(20A)x2	3/4B(20A)x2	5810	11480
20207	8B(200A)	8B(200A)	2B(50A)x2	2B(50A)x2	1B(25A)x2	1B(25A)x2	6000	11770

Model Number	Circulating Cooling Water Pump				Coil Head (M)
	Motor	Pipe Size	Water Flow	Head	
	(HP)	(inches)	(LPM)	(M)	
02101	2	3	601	5.8	3.5
05102	2	3	630	5.8	5
05103	2	4	796	5.8	5.6
07201	3	4	1223	5.8	3.8
07202	3	4	1215	5.8	4.8
10203	5	5	2040	5.8	6.5
10204	5	5	1846	5.8	16.1
15205	5	5	1843	5.8	17.6
15206	3x2	4x2	2501	5.8	21.8
20207	5x2	5x2	3244	5.8	25.3

1. Nominal Tons is defined as the capacity that can deal with 13 lpm of water per ton, cooled from a 37°C Entering Water Temperature to a 32°C Leaving Water Temperature at a 27°C 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. For more information, please contact your local supplier or distributor.

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C-LC-02101 Induced Draft Closed Circuit Tower Performance Table

ΔT(°C)	L1= 585 LPM			L1= 650 LPM			L1= 715 LPM		
	4	5	6	4	5	6	4	5	6
WBT ↓	CWT ↓								
15	21.614	22.879	24.029	22.286	23.658	24.898	22.934	24.406	25.730
16	22.340	23.558	24.665	22.992	24.315	25.511	23.622	25.042	26.322
17	23.072	24.243	25.308	23.705	24.978	26.132	24.316	25.685	26.921
18	23.810	24.934	25.959	24.423	25.648	26.759	25.016	26.335	27.528
19	24.553	25.632	26.617	25.147	26.325	27.395	25.722	26.992	28.142
20	25.303	26.337	27.282	25.878	27.009	28.038	26.435	27.657	28.764
21	26.058	27.049	27.955	26.615	27.700	28.688	27.155	28.328	29.394
22	26.820	27.767	28.635	27.358	28.398	29.347	27.881	29.007	30.031
23	27.587	28.493	29.324	28.108	29.104	30.013	28.614	29.694	30.678
24	28.361	29.226	30.020	28.864	29.816	30.687	29.353	30.388	31.332
25	29.142	29.966	30.724	29.627	30.537	31.370	30.100	31.090	31.995
26	29.928	30.713	31.436	30.397	31.265	32.061	30.853	31.800	32.666
27	30.722	31.468	32.156	31.173	32.000	32.760	31.613	32.517	33.345
28	31.521	32.230	32.884	31.956	32.743	33.467	32.380	33.243	34.033
29	32.327	32.999	33.620	32.745	33.494	34.183	33.154	33.976	34.730
30	33.139	33.775	34.364	33.541	34.252	34.907	33.936	34.718	35.436

C-LC-05102 Induced Draft Closed Circuit Tower Performance Table

	L1= 702 LPM			L1= 780 LPM			L1= 858 LPM		
$\Delta T(^{\circ}C)$	4	5	6	4	5	6	4	5	6
WBT ↓	CWT ↓								
15	21.569	22.828	23.972	22.274	23.646	24.887	22.956	24.433	25.762
16	22.297	23.509	24.611	22.982	24.304	25.501	23.644	25.069	26.354
17	23.031	24.195	25.257	23.695	24.968	26.123	24.338	25.712	26.953
18	23.770	24.889	25.910	24.414	25.639	26.751	25.039	26.363	27.560
19	24.516	25.590	26.570	25.139	26.317	27.388	25.745	27.020	28.175
20	25.267	26.296	27.238	25.871	27.002	28.032	26.458	27.685	28.797
21	26.024	27.010	27.913	26.609	27.694	28.683	27.178	28.357	29.427
22	26.788	27.731	28.595	27.354	28.394	29.343	27.904	29.036	30.065
23	27.557	28.458	29.285	28.104	29.100	30.010	28.637	29.723	30.711
24	28.333	29.193	29.983	28.862	29.814	30.686	29.377	30.417	31.365
25	29.115	29.935	30.690	29.625	30.536	31.369	30.123	31.119	32.028
26	29.903	30.684	31.403	30.396	31.264	32.061	30.877	31.829	32.699
27	30.698	31.441	32.125	31.172	32.000	32.761	31.637	32.546	33.379
28	31.499	32.204	32.855	31.956	32.744	33.470	32.404	33.272	34.067
29	32.306	32.975	33.593	32.746	33.496	34.187	33.178	34.005	34.764
30	33.120	33.754	34.340	33.543	34.255	34.912	33.959	34.746	35.469

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C-LC-05103 Induced Draft Closed Circuit Tower Performance Table

	L1= 784 LPM			L1= 871 LPM			L1= 958 LPM		
$\Delta T(^{\circ}C)$	4	5	6	4	5	6	4	5	6
WBT ↓	CWT ↓								
15	21.519	22.771	23.910	22.237	23.603	24.840	22.930	24.403	25.732
16	22.250	23.454	24.551	22.946	24.264	25.457	23.620	25.042	26.325
17	22.985	24.144	25.199	23.661	24.930	26.081	24.315	25.686	26.926
18	23.727	24.840	25.855	24.382	25.603	26.711	25.017	26.339	27.535
19	24.475	25.542	26.517	25.109	26.283	27.350	25.725	26.998	28.151
20	25.228	26.251	27.187	25.843	26.970	27.996	26.439	27.664	28.775
21	25.987	26.967	27.865	26.582	27.664	28.650	27.161	28.337	29.406
22	26.752	27.690	28.550	27.328	28.365	29.311	27.888	29.018	30.046
23	27.523	28.420	29.242	28.080	29.073	29.980	28.622	29.706	30.694
24	28.301	29.156	29.943	28.839	29.788	30.658	29.363	30.402	31.350
25	29.085	29.900	30.651	29.604	30.512	31.343	30.111	31.106	32.014
26	29.875	30.651	31.367	30.376	31.242	32.037	30.866	31.817	32.687
27	30.671	31.410	32.091	31.154	32.000	32.739	31.627	32.535	33.368
28	31.474	32.175	32.823	31.939	32.725	33.449	32.395	33.262	34.057
29	32.283	32.948	33.563	32.731	33.478	34.167	33.170	33.996	34.755
30	33.113	33.745	34.331	33.544	34.257	34.914	33.969	34.758	35.484

C-LC-07201 Induced Draft Closed Circuit Tower Performance Table

	L1= 1217 LPM			L1= 1352 LPM			L1= 1487 LPM		
$\Delta T(^{\circ}C)$	4	5	6	4	5	6	4	5	6
WBT ↓	CWT ↓								
15	21.613	22.878	24.027	22.294	23.668	24.909	22.952	24.426	25.752
16	22.339	23.556	24.663	23.000	24.323	25.521	23.639	25.062	26.343
17	23.070	24.241	25.306	23.712	24.986	26.141	24.332	25.704	26.942
18	23.808	24.932	25.956	24.430	25.656	26.768	25.031	26.353	27.547
19	24.551	25.630	26.614	25.153	26.332	27.403	25.737	27.009	28.161
20	25.300	26.334	27.279	25.884	27.016	28.045	26.449	27.673	28.782
21	26.056	27.046	27.952	26.620	27.706	28.695	27.168	28.344	29.411
22	26.817	27.764	28.632	27.363	28.404	29.353	27.894	29.022	30.048
23	27.585	28.490	29.320	28.113	29.109	30.019	28.626	29.708	30.693
24	28.359	29.222	30.016	28.869	29.821	30.693	29.365	30.402	31.346
25	29.139	29.962	30.719	29.631	30.541	31.375	30.110	31.103	32.009
26	29.925	30.709	31.431	30.400	31.269	32.065	30.863	31.812	32.679
27	30.718	31.464	32.151	31.176	32.000	32.764	31.623	32.529	33.358
28	31.518	32.226	32.879	31.958	32.746	33.471	32.389	33.253	34.045
29	32.323	32.995	33.615	32.748	33.496	34.186	33.163	33.986	34.741
30	33.133	33.769	34.356	33.541	34.251	34.906	33.940	34.723	35.441

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C-LC-07202 Induced Draft Closed Circuit Tower Performance Table

	L1= 1427 LPM			L1= 1586 LPM			L1= 1745 LPM		
$\Delta T(^{\circ}C)$	4	5	6	4	5	6	4	5	6
WBT ↓	CWT ↓								
15	21.525	22.779	23.919	22.239	23.607	24.845	22.929	24.403	25.732
16	22.256	23.463	24.563	22.949	24.268	25.463	23.620	25.044	26.328
17	22.993	24.154	25.212	23.665	24.936	26.089	24.317	25.690	26.931
18	23.736	24.851	25.869	24.388	25.610	26.722	25.020	26.343	27.541
19	24.484	25.554	26.533	25.116	26.292	27.361	25.729	27.004	28.159
20	25.239	26.265	27.204	25.850	26.980	28.009	26.445	27.672	28.784
21	25.999	26.982	27.883	26.591	27.675	28.664	27.167	28.346	29.417
22	26.765	27.706	28.569	27.338	28.377	29.327	27.896	29.028	30.059
23	27.537	28.437	29.263	28.091	29.087	29.998	28.631	29.718	30.708
24	28.316	29.175	29.964	28.851	29.804	30.676	29.373	30.415	31.365
25	29.100	29.919	30.673	29.617	30.528	31.363	30.122	31.120	32.031
26	29.891	30.671	31.390	30.390	31.259	32.057	30.878	31.832	32.705
27	30.688	31.430	32.115	31.169	32.000	32.760	31.640	32.552	33.387
28	31.491	32.197	32.848	31.955	32.745	33.471	32.409	33.279	34.078
29	32.301	32.970	33.589	32.747	33.498	34.191	33.185	34.015	34.777
30	33.117	33.751	34.338	33.548	34.261	34.920	33.971	34.761	35.488

C-LC-10203 Induced Draft Closed Circuit Tower Performance Table

	L1= 1580 LPM			L1= 1755 LPM			L1= 1930 LPM		
$\Delta T(^{\circ}C)$	4	5	6	4	5	6	4	5	6
WBT ↓	CWT ↓								
15	21.595	22.856	24.002	22.281	23.653	24.892	22.945	24.418	25.743
16	22.321	23.535	24.639	22.987	24.308	25.504	23.632	25.053	26.333
17	23.053	24.220	25.282	23.699	24.971	26.124	24.325	25.695	26.932
18	23.790	24.911	25.932	24.417	25.641	26.751	25.024	26.344	27.537
19	24.534	25.609	26.590	25.141	26.317	27.386	25.730	27.000	28.150
20	25.283	26.314	27.256	25.871	27.000	28.028	26.442	27.664	28.771
21	26.039	27.026	27.928	26.608	27.691	28.678	27.160	28.334	29.400
22	26.800	27.744	28.609	27.351	28.389	29.336	27.885	29.013	30.037
23	27.568	28.470	29.297	28.100	29.094	30.001	28.617	29.698	30.682
24	28.342	29.203	29.993	28.856	29.806	30.675	29.356	30.392	31.335
25	29.123	29.943	30.697	29.618	30.526	31.357	30.102	31.093	31.997
26	29.909	30.690	31.409	30.388	31.254	32.048	30.855	31.802	32.667
27	30.702	31.444	32.129	31.163	32.000	32.746	31.614	32.518	33.346
28	31.502	32.207	32.857	31.946	32.731	33.453	32.381	33.243	34.033
29	32.308	32.976	33.594	32.735	33.482	34.169	33.154	33.975	34.729
30	33.128	33.763	34.349	33.540	34.250	34.905	33.944	34.727	35.446

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C-LC-10204 Induced Draft Closed Circuit Tower Performance Table

	L1= 2281.5 LPM			L1= 2535 LPM			L1= 2788.5 LPM		
$\Delta T(^{\circ}C)$	4	5	6	4	5	6	4	5	6
WBT ↓	CWT ↓								
15	21.605	22.87	24.018	22.276	23.647	24.887	22.923	24.394	25.717
16	22.332	23.549	24.656	22.983	24.305	25.501	23.612	25.031	26.31
17	23.065	24.235	25.301	23.697	24.969	26.123	24.307	25.675	26.91
18	23.804	24.928	25.952	24.415	25.64	26.751	25.008	26.326	27.518
19	24.548	25.626	26.611	25.141	26.318	27.388	25.715	26.984	28.134
20	25.298	26.332	27.278	25.872	27.003	28.032	26.428	27.65	28.757
21	26.054	27.045	27.951	26.61	27.695	28.683	27.149	28.322	29.387
22	26.817	27.764	28.633	27.354	28.394	29.343	27.876	29.002	30.027
23	27.585	28.491	29.322	28.105	29.1	30.01	28.61	29.69	30.673
24	28.36	29.225	30.019	28.862	29.814	30.685	29.35	30.385	31.329
25	29.141	29.965	30.724	29.626	30.535	31.369	30.097	31.088	31.992
26	29.929	30.714	31.436	30.396	31.264	32.061	30.851	31.798	32.664
27	30.722	31.469	32.157	31.173	32	32.76	31.612	32.517	33.345
28	31.522	32.231	32.886	31.956	32.744	33.469	32.38	33.243	34.034
29	32.328	33.001	33.623	32.746	33.495	34.185	33.155	33.977	34.732
30	33.141	33.778	34.368	33.543	34.254	34.91	33.963	34.719	35.438

C-LC-15205 Induced Draft Closed Circuit Tower Performance Table

	L1= 2457 LPM			L1= 2730 LPM			L1= 3003 LPM		
$\Delta T(^{\circ}C)$	4	5	6	4	5	6	4	5	6
WBT ↓	CWT ↓								
15	21.591	22.853	24	22.274	23.645	24.885	22.934	24.407	25.733
16	22.318	23.533	24.638	22.982	24.303	25.5	23.622	25.044	26.325
17	23.051	24.219	25.283	23.695	24.968	26.122	24.317	25.688	26.925
18	23.79	24.913	25.936	24.414	25.639	26.75	25.018	26.339	27.533
19	24.535	25.612	26.595	25.14	26.317	27.387	25.725	26.997	28.148
20	25.286	26.318	27.262	25.871	27.002	28.031	26.439	27.662	28.771
21	26.042	27.031	27.936	26.609	27.694	28.683	27.159	28.334	29.401
22	26.805	27.751	28.618	27.354	28.393	29.342	27.886	29.014	30.04
23	27.574	28.478	29.308	28.104	29.1	30.009	28.619	29.702	30.687
24	28.35	29.213	30.005	28.861	29.813	30.685	29.36	30.396	31.342
25	29.131	29.954	30.711	29.625	30.535	31.369	30.106	31.099	32.005
26	29.919	30.703	31.424	30.396	31.264	32.061	30.861	31.809	32.677
27	30.713	31.458	32.145	31.172	32	32.761	31.621	32.528	33.358
28	31.513	32.221	32.875	31.956	32.744	33.469	32.389	33.254	34.046
29	32.32	32.992	33.612	32.746	33.496	34.186	33.163	33.987	34.744
30	33.133	33.769	34.358	33.543	34.255	34.911	33.945	34.729	35.45

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C-LC-15206 Induced Draft Closed Circuit Tower Performance Table

	L1= 2983.5 LPM			L1= 3315 LPM			L1= 3646.5 LPM		
$\Delta T(^{\circ}C)$	4	5	6	4	5	6	4	5	6
WBT ↓	CWT ↓								
15	21.589	22.852	23.999	22.256	23.625	24.864	22.899	24.367	25.689
16	22.318	23.534	24.64	22.965	24.285	25.48	23.59	25.007	26.285
17	23.052	24.221	25.286	23.68	24.952	26.104	24.287	25.653	26.887
18	23.792	24.915	25.94	24.401	25.624	26.736	24.989	26.306	27.497
19	24.538	25.616	26.601	25.128	26.304	27.374	25.699	26.967	28.115
20	25.29	26.324	27.269	25.861	26.991	28.02	26.414	27.634	28.741
21	26.047	27.038	27.945	26.6	27.685	28.674	27.136	28.309	29.374
22	26.811	27.759	28.628	27.346	28.386	29.335	27.865	28.991	30.015
23	27.581	28.487	29.319	28.098	29.094	30.004	28.6	29.68	30.664
24	28.357	29.222	30.017	28.857	29.81	30.681	29.342	30.377	31.321
25	29.14	29.965	30.724	29.622	30.532	31.367	30.091	31.082	31.987
26	29.928	30.714	31.438	30.394	31.263	32.06	30.847	31.794	32.661
27	30.723	31.471	32.161	31.172	32	32.761	31.609	32.514	33.343
28	31.524	32.235	32.891	31.957	32.745	33.471	32.379	33.242	34.034
29	32.332	33.006	33.63	32.748	33.498	34.189	33.155	33.978	34.733
30	33.146	33.785	34.376	33.546	34.259	34.916	33.938	34.721	35.441

C-LC-20207 Induced Draft Closed Circuit Tower Performance Table

	L1= 3217.5 LPM			L1= 3575 LPM			L1= 3932.5 LPM		
$\Delta T(^{\circ}C)$	4	5	6	4	5	6	4	5	6
WBT ↓	CWT ↓								
15	21.597	22.861	24.01	22.26	23.629	24.867	22.898	24.365	25.686
16	22.325	23.542	24.649	22.968	24.288	25.483	23.588	25.005	26.282
17	23.059	24.23	25.295	23.683	24.954	26.107	24.285	25.651	26.884
18	23.799	24.923	25.948	24.404	25.627	26.738	24.987	26.304	27.494
19	24.544	25.623	26.609	25.13	26.306	27.375	25.696	26.964	28.112
20	25.295	26.33	27.277	25.863	26.992	28.021	26.412	27.631	28.737
21	26.053	27.044	27.952	26.602	27.686	28.675	27.134	28.306	29.37
22	26.816	27.765	28.634	27.348	28.387	29.336	27.862	28.988	30.011
23	27.586	28.493	29.325	28.099	29.095	30.005	28.598	29.677	30.659
24	28.362	29.228	30.023	28.858	29.81	30.682	29.339	30.373	31.317
25	29.144	29.969	30.729	29.623	30.533	31.367	30.088	31.078	31.982
26	29.932	30.719	31.443	30.394	31.263	32.06	30.844	31.79	32.656
27	30.727	31.475	32.165	31.172	32	32.761	31.606	32.51	33.338
28	31.528	32.239	32.895	31.957	32.745	33.471	32.375	33.238	34.029
29	32.335	33.009	33.633	32.748	33.498	34.189	33.151	33.973	34.728
30	33.148	33.788	34.379	33.546	34.258	34.915	33.934	34.716	35.436



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