

Characteristics

Design of Integrated System

Liang chi low noise cross flow rectangular type of series LC cooling towers have been designed according to the international standards. The light weight structure and standardized components of LC tower feature easy transport, lifting and site installation.

Low Noise & Easy Maintenance

Series LC cooling tower use high tension V-belt reducers, which are corresponding 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 cooling tower, LC features lighter operational weight and less installation space. Also the combinative multi-cell structure is suitable for large cooling requirement and futures easy expansion.

Unique Distribution System & Efficient Heat Exchange

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

Efficient Performance

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

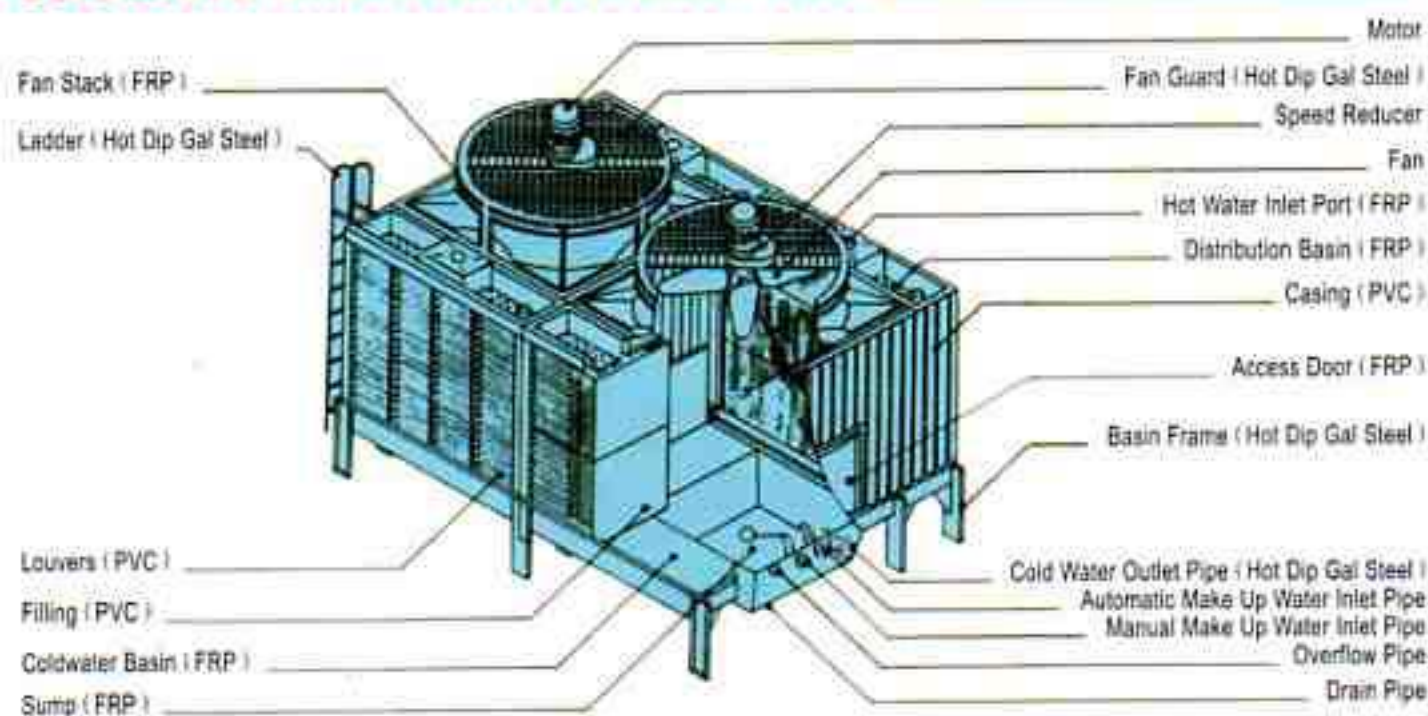
Durableness & Low Maintenance Cost

LC tower components are made of weather - proof and anti - corrosive materials. Casing is in anti - ultraviolet P.V.C. which features sound - proof and non - decayed merits with fine stream - lined outlook. Fan stack, basin and access - door are made by F.R.P. Filling & inlet louvers are by P.V.C. Supporting rack is by light weight steel. All the steel parts are hot-dip-galvanized so as to enable the durableness and low cost.

Easy Piping Work & Low Installation Cost

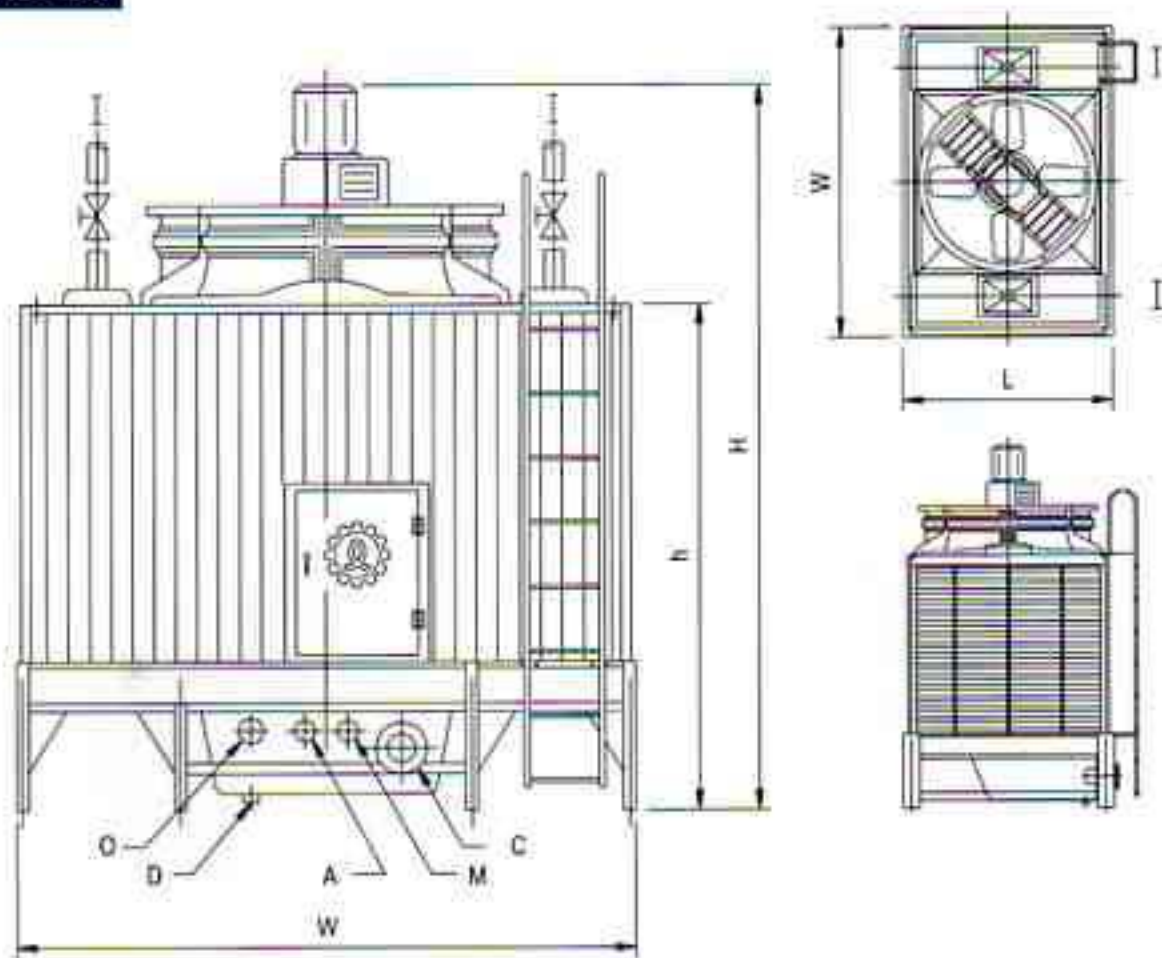
All the piping connections are gathered on basin except inlet pipe connection which lies over the distribution basin for easy piping.

Structure and Standard Materials



Dimensions and Standard Specifications

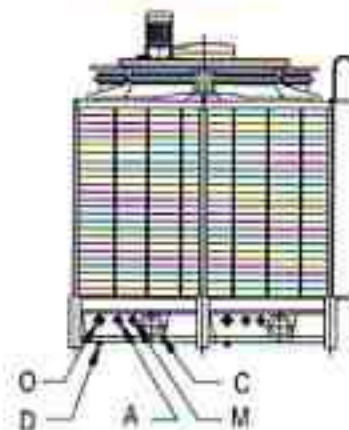
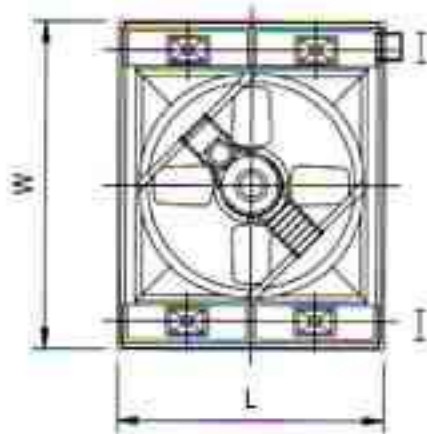
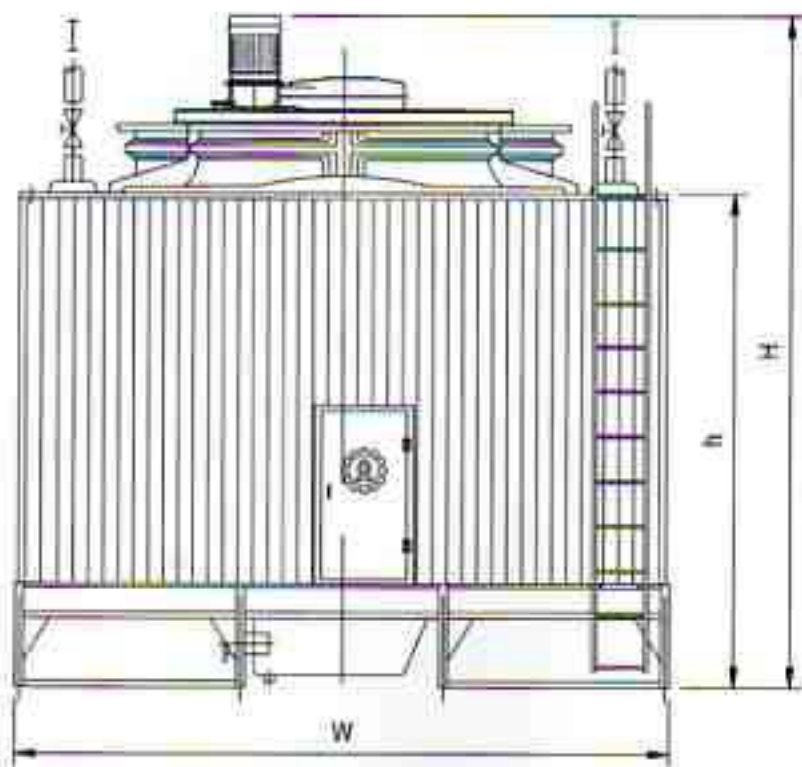
LC-125-250



Tower Model	Nominal Ton*1	Nominal Water Flow (U.S. GPM)	Dimensions (Feet & Inches)				Fan Dia. (Inch)	Fan Motor (HP)
			Width	Length	Height			
			W	L	h	H		
125	64	192	9'-5 1/2"	6'-5"	7'-8 1/2"	11'-1"	58"	5 x 1
150	74	222	9'-5 1/2"	6'-5"	8'-4 3/8"	11'-8"	58"	5 x 1
175	102	306	10'-1 1/2"	7'-9"	8'-8 3/8"	12'-5"	65-3/4"	7 1/2 x 1
200	122	366	10'-5 1/2"	7'-9"	9'	13'	70"	7 1/2 x 1
225	152	456	11'-1 1/2"	8'-9"	9'-4"	13'-4"	78"	7 1/2 x 1
250	159	477	11'-1 1/2"	9'-9"	9'-4"	13'-8"	78"	10 x 1
300	206	618	14'-4 1/2"	11'-8 1/2"	10'-9 7/8"	15'-7 3/8"	117"	10 x 1
350	232	696	14'-4 1/2"	12'-4 3/8"	10'-9 7/8"	15'-7 3/8"	117"	10 x 1

1. Nominal Tons are defined as the capacity that can deal with 3 gpm of water per ton, cooled from 95°F to 85°F with a 78°F 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.



Tower Model LC-	Pipe Connections						Approximate		Tower Head*2 (Ft. & In.)
	Inlet	Outlet	Drain	Over Flow	Auto Filler	Quick Filler	Dry	Operating	
	(I)	(C)	(D)	(O)	(A)	(M)	Wt. (LBS)	Wt. (LBS)	
125	4B (100A)x2	5B (125A)	2B (50A)	2B (50A)	1B (25A)	1B (25A)	1740	4870	9'-10"
150	4B (100A)x2	6B (150A)	2B (50A)	2B (50A)	1B (25A)	1B (25A)	1850	4980	10'-6"
175	5B (125A)x2	6B (150A)	2B (50A)	2B (50A)	1B (25A)	1B (25A)	2160	5930	10'-10"
200	5B (125A)x2	8B (200A)	2B (50A)	2B (50A)	1 1/2 B (40A)	1 1/2 B (40A)	2270	6130	11'-2"
225	5B (125A)x2	8B (200A)	2B (50A)	2B (50A)	1 1/2 B (40A)	1 1/2 B (40A)	2630	7120	11'-6"
250	5B (125A)x2	8B (200A)	2B (50A)	2B (50A)	1 1/2 B (40A)	1 1/2 B (40A)	2820	7650	11'-6"
300	5B (125A)x4	6B (150A)x2	2B (50A)x2	2B (50A)x2	1B (25A)x2	1B (25A)x2	3660	8770	12'-9 1/2"
350	5B (125A)x4	8B (200A)x2	2B (50A)x2	2B (50A)x2	1 1/2 B (40A)x2	1 1/2 B (40A)x2	4080	10230	12'-9 1/2"

3. All dimensions are in feet and inches. Weights are in pounds.

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.

Series LC Cooling Towers Selection Tables

W.B. / Range →	78°F / 10°F				79°F / 10°F				80°F / 10°F				81°F / 10°F			
HWT °F →	96	95	94	93	97	96	95	94	98	97	96	95	99	98	97	96
CWT °F →	86	85	84	83	87	86	85	84	88	87	86	85	89	88	87	86
MODEL ↓	RECIRCULATING WATER (GPM) ↓															
125	213	192	171	151	219	197	176	155	225	202	181	159	231	208	185	163
150	245	222	199	176	251	228	204	181	258	233	209	185	264	239	215	190
175	339	306	273	241	349	314	280	247	358	323	288	254	368	331	296	261
200	407	366	326	286	418	376	335	294	430	387	344	302	442	397	354	310
225	508	456	405	355	523	469	416	365	538	482	428	375	553	496	441	386
250	535	477	421	365	551	491	433	376	567	506	446	388	585	521	460	399
300	700	618	538	460	723	639	556	476	747	660	575	492	772	682	595	509
350	777	696	617	539	799	716	635	555	823	737	653	571	847	759	673	588

W.B. / Range →	78°F / 12°F				79°F / 12°F				80°F / 12°F				81°F / 12°F			
HWT °F →	98	97	96	95	99	98	97	96	100	99	98	97	101	100	99	98
CWT °F →	86	85	84	83	87	86	85	84	88	87	86	85	89	88	87	86
MODEL ↓	RECIRCULATING WATER (GPM) ↓															
125	191	173	155	137	196	178	159	141	201	182	163	145	207	187	168	149
150	221	201	181	161	227	206	186	165	232	211	190	169	238	217	195	174
175	305	276	247	219	313	283	254	225	322	291	261	231	330	299	268	237
200	365	329	294	259	375	338	302	267	385	348	311	274	396	357	319	282
225	455	409	365	321	468	421	376	330	481	433	386	340	495	446	397	350
250	475	425	377	329	490	438	388	339	504	452	400	349	520	465	412	360
300	617	546	477	409	637	564	493	424	659	584	510	438	681	604	528	454
350	694	624	556	488	715	643	572	502	736	662	589	517	757	681	606	533

W.B. / Range →	78°F / 15°F				79°F / 15°F				80°F / 15°F				81°F / 15°F			
HWT °F →	101	100	99	98	102	101	100	99	103	102	101	100	104	103	102	101
CWT °F →	86	85	84	83	87	86	85	84	88	87	86	85	89	88	87	86
MODEL ↓	RECIRCULATING WATER (GPM) ↓															
125	169	154	138	123	174	158	142	127	178	162	146	130	183	166	150	134
150	197	179	163	146	202	184	167	149	207	189	171	153	212	194	175	157
175	270	246	221	197	278	252	227	203	285	259	234	208	293	266	240	214
200	322	292	262	233	331	300	269	239	340	309	277	246	350	317	285	253
225	401	363	325	288	413	373	334	296	424	384	344	304	437	395	354	313
250	416	374	332	292	428	385	343	301	442	397	353	310	455	409	364	320
300	533	474	415	358	552	490	430	371	571	507	445	384	590	525	460	398
350	612	552	494	436	630	569	509	449	648	586	524	463	668	603	539	476

W.B. / Range →	82 °F / 10 °F				83 °F / 10 °F				84 °F / 10 °F				85 °F / 10 °F			
HWT °F →	100	99	98	97	101	100	99	98	102	101	100	99	103	102	101	100
CWT °F →	90	89	88	87	91	90	89	88	92	91	90	89	93	92	91	90
MODEL ↓	RECIRCULATING WATER (GPM) ↓															
125	237	213	190	168	243	219	196	172	250	225	201	177	257	231	206	182
150	271	246	220	195	278	252	226	200	285	258	232	205	293	265	238	211
175	378	341	304	268	388	350	312	275	399	359	321	283	410	369	330	290
200	455	409	363	319	467	420	374	328	481	432	384	337	494	444	395	347
225	569	511	453	397	585	525	466	408	603	541	480	420	620	556	494	433
250	602	537	474	411	621	554	488	424	640	570	503	437	659	588	518	451
300	798	705	615	527	825	729	636	545	852	754	658	564	881	779	680	583
350	872	781	692	605	897	804	713	623	924	828	734	642	951	853	756	661

W.B. / Range →	82 °F / 12 °F				83 °F / 12 °F				84 °F / 12 °F				85 °F / 12 °F			
HWT °F →	102	101	100	99	103	102	101	100	104	103	102	101	105	104	103	102
CWT °F →	90	89	88	87	91	90	89	88	92	91	90	89	93	92	91	90
MODEL ↓	RECIRCULATING WATER (GPM) ↓															
125	213	192	172	153	218	197	177	157	224	203	182	161	230	208	187	165
150	245	222	200	178	251	228	205	183	257	234	211	187	264	240	216	192
175	340	307	275	244	349	316	283	251	358	324	291	257	368	333	299	264
200	407	368	328	290	419	378	338	298	431	389	347	306	443	400	357	315
225	509	459	409	360	524	472	421	370	539	486	433	381	555	500	446	392
250	536	479	425	371	552	494	438	382	569	509	451	394	587	525	465	406
300	705	624	546	469	729	646	565	486	754	668	585	503	779	691	605	521
350	780	701	624	548	803	722	643	565	827	744	662	582	852	766	682	599

W.B. / Range →	82 °F / 15 °F				83 °F / 15 °F				84 °F / 15 °F				85 °F / 15 °F			
HWT °F →	105	104	103	102	106	105	104	103	107	106	105	104	108	107	106	105
CWT °F →	90	89	88	87	91	90	89	88	92	91	90	89	93	92	91	90
MODEL ↓	RECIRCULATING WATER (GPM) ↓															
125	188	171	154	137	193	176	158	141	199	180	162	145	204	185	167	149
150	218	199	180	161	223	204	184	165	229	209	189	169	235	215	194	174
175	301	274	246	220	309	281	253	226	318	289	260	232	327	297	267	238
200	360	326	293	260	370	335	301	267	381	345	310	275	392	355	319	283
225	450	407	364	322	463	418	375	332	476	431	386	342	490	443	397	352
250	469	422	375	329	484	435	387	340	499	448	399	350	514	462	411	361
300	611	543	477	412	632	562	494	426	654	582	511	442	677	602	529	458
350	688	621	555	491	708	640	572	505	730	659	589	521	752	679	607	536



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September 8, 2007
(Revision 2)

Amcot Cooling Tower Corporation
350 North Ponderosa Avenue
Ontario, CA 91761

Subject: CTI Cooling Tower Certification of the Amcot LC Line of Cooling Towers

Gentlemen:

The Amcot Cooling Tower Corporation line of LC induced-draft, cross-flow cooling towers, as described in your original application of November 14, 2006, and subsequent revisions through August 23, 2007, has satisfactorily fulfilled the requirements for certification of thermal performance by the Cooling Technology Institute (CTI), as set forth in the CTI Certification Standard STD-201(04). A listing of the eight (8) primary single cell models in the line of LC cooling towers encompassed by this certification revision is included with this letter for reference. Multiple cell models of the single cell models are also available but not listed.

The Amcot Cooling Tower Corporation line of LC cooling towers has been previously assigned and should continue to use CTI Certification Validation Number 96-20-01. You are hereby authorized and encouraged to display the CTI Certification Logo in all pertinent literature and are required to affix the CTI Certification Label on all towers comprising the line, as provided in the CTI STD-201 Certification Standard.

Very truly yours,

Thomas E. Weast, P.E.
CTI Certification Administrator



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**Amcot Cooling Tower Corporation
LC Line of CTI Certified Cooling Towers
CTI Certification Validation Number 96-20-01
September 8, 2007 (Revision 2)**

LC-125	LC-225
LC-150	LC-250
LC-175	LC-300
LC-200	LC-350

Multiple cell models of the single cell models above are also available but not listed.

Thomas E. Weast, P.E.
CTI Certification Administrator