

Liang Chi LCTD R0 STD-201RS Table 3b - SI Units - Cooling Towers (CT)

Condition Reference #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Wet Bulb °C	10	10	10	10	10	13	13	13	13	13	16	16	16	16	16	18	18	18	18	18	18	21	21	21	21	24
Range °C	6	6	6	8	8	6	6	6	8	8	6	6	6	8	8	6	6	6	6	8	8	6	6	6	8	8
Approach °C	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4
Inlet Water Temperature °C	20	22	23	22	25	23	25	26	25	28	26	28	29	28	31	28	30	31	30	33	31	33	34	33	36	34
Outlet Water Temperature °C	14	16	17	14	17	17	19	20	17	20	20	22	23	20	23	22	24	25	22	25	25	27	28	25	28	28
	L/S										L/S										L/S					
LCTD-1008C	6.1	8.7	10	5.2	8.2	6.9	9.8	11.3	5.8	9.3	7.8	11.1	12.8	6.6	10.6	8.5	12.1	14	7.2	11.5	9.7	13.8	16	8.2	13.2	11.1
LCTD-1010C	7.6	10.8	12.5	6.4	10.2	8.6	12.2	14.1	7.2	11.6	9.7	13.8	16	8.2	13.2	10.6	15.1	17.5	8.9	14.4	12.1	17.2	19.9	10.2	16.4	13.8
LCTD-1012C	9.7	13.6	15.7	8.2	12.9	10.9	15.3	17.7	9.2	14.6	12.3	17.4	20.1	10.4	16.6	13.4	18.9	21.9	11.4	18.1	15.3	21.6	24.9	13	20.7	17.5
LCTD-1015C	11.3	16.1	18.7	9.5	15.3	12.8	18.2	21.1	10.7	17.3	14.5	20.7	24	12.2	19.7	15.8	22.5	26.2	13.3	21.5	18	25.8	29.9	15.2	24.6	20.7
LCTD-1017C	12.2	17.3	20	10.2	16.4	13.7	19.5	22.6	11.6	18.6	15.6	22.1	25.6	13.1	21.1	17	24.1	27.9	14.3	23	19.4	27.5	31.9	16.4	26.3	22.2
LCTD-1020C	14.7	20.7	23.9	12.4	19.7	16.6	23.3	26.9	14	22.3	18.8	26.4	30.5	15.9	25.3	20.4	28.8	33.2	17.3	27.6	23.3	32.8	37.9	19.8	31.5	26.6
LCTD-1022B	13.7	19.4	22.5	11.5	18.4	15.5	21.9	25.4	13	20.9	17.5	24.9	28.8	14.8	23.7	19.1	27.1	31.4	16.1	25.9	21.8	31	35.9	18.4	29.6	25
LCTD-1022C	15.6	22.1	25.6	13.1	21	17.6	25	28.9	14.8	23.7	19.9	28.3	32.8	16.8	27	21.7	30.9	35.8	18.3	29.5	24.8	35.3	40.9	21	33.7	28.4
LCTD-1022D	17.1	24.3	28.1	14.4	23	19.3	27.4	31.7	16.2	26.1	21.9	31.1	36	18.4	29.6	23.8	33.9	39.3	20.1	32.4	27.2	38.7	44.9	23	37	31.2
LCTD-1025B	15.6	22.1	25.6	13.1	21	17.6	25	28.9	14.8	23.7	19.9	28.3	32.8	16.8	27	21.7	30.9	35.8	18.3	29.5	24.8	35.3	40.9	21	33.7	28.4
LCTD-1025C	17.1	24.3	28.1	14.4	23	19.3	27.4	31.7	16.2	26.1	21.9	31.1	36	18.4	29.6	23.8	33.9	39.3	20.1	32.4	27.2	38.7	44.9	23	37	31.2
LCTD-1025D	19.4	27.5	31.8	16.3	26.1	21.9	31	35.9	18.4	29.5	24.8	35.2	40.8	20.9	33.6	27	38.4	44.5	22.8	36.6	30.8	43.8	50.8	26	41.9	35.3
LCTD-1030B	20.8	29.3	33.9	17.5	27.9	23.4	33.1	38.2	19.8	31.5	26.5	37.5	43.3	22.4	35.8	28.9	40.8	47.2	24.5	39	32.9	46.6	53.9	27.9	44.6	37.7
LCTD-1030C	23.1	32.6	37.6	19.5	31	26.1	36.8	42.5	22	35	29.5	41.6	48.1	25	39.8	32.1	45.4	52.5	27.2	43.4	36.6	51.7	59.8	31.1	49.6	41.9
LCTD-1030D	26.2	36.9	42.6	22.1	35.1	29.5	41.6	48.1	24.9	39.7	33.4	47.2	54.5	28.2	45.1	36.4	51.4	59.4	30.8	49.2	41.5	58.6	67.8	35.2	56.2	47.4
LCTD-1035B	23.1	32.6	37.6	19.5	31	26.1	36.8	42.5	22	35	29.5	41.6	48.1	25	39.8	32.1	45.4	52.5	27.2	43.4	36.6	51.7	59.8	31.1	49.6	41.9
LCTD-1035C	26.2	36.9	42.6	22.1	35.1	29.5	41.6	48.1	24.9	39.7	33.4	47.2	54.5	28.2	45.1	36.4	51.4	59.4	30.8	49.2	41.5	58.6	67.8	35.2	56.2	47.4
LCTD-1035D	28.9	40.7	47	24.4	38.7	32.5	45.9	53.1	27.5	43.8	36.8	52	60.2	31.2	49.7	40.1	56.7	65.6	34	54.2	45.7	64.7	74.8	38.8	62	52.3
LCTD-1040B	31	42.8	49	26.6	41	34.8	48.1	55.1	29.9	46.2	39.3	54.3	62.2	33.8	52.3	42.7	59	67.6	36.7	56.9	48.5	67	76.9	41.8	64.8	55.2
LCTD-1040C	35	48.6	55.8	29.9	46.5	39.4	54.7	62.8	33.6	52.4	44.5	61.8	71	38	59.4	48.3	67.2	77.2	41.4	64.7	54.9	76.4	87.8	47.1	73.7	62.6
LCTD-1040D	38.2	53	60.9	32.5	50.7	42.9	59.6	68.5	36.6	57.1	48.4	67.4	77.4	41.4	64.7	52.6	73.3	84.2	45.1	70.5	59.9	83.3	95.8	51.3	80.3	68.3
LCTD-1050B	35	48.6	55.8	29.9	46.5	39.4	54.7	62.8	33.6	52.4	44.5	61.8	71	38	59.4	48.3	67.2	77.2	41.4	64.7	54.9	76.4	87.8	47.1	73.7	62.6
LCTD-1050C	38.2	53	60.9	32.5	50.7	42.9	59.6	68.5	36.6	57.1	48.4	67.4	77.4	41.4	64.7	52.6	73.3	84.2	45.1	70.5	59.9	83.3	95.8	51.3	80.3	68.3
LCTD-1050D	43.7	60.8	69.7	37.3	58.1	49.2	68.3	78.5	42	65.5	55.5	77.2	88.7	47.5	74.2	60.3	84	96.5	51.7	80.8	68.6	95.5	109.8	58.8	92.1	78.3
LCTD-1060B	43.7	60.5	69.3	37.4	57.9	49.1	68	78	42.1	65.3	55.4	76.8	88.1	47.6	73.9	60.2	83.4	95.7	51.7	80.4	68.4	94.8	108.8	58.9	91.6	78
LCTD-1060C	48.2	66.6	76.3	41.2	63.8	54.1	74.9	85.8	46.3	71.9	61	84.5	96.9	52.4	81.3	66.3	91.9	105.4	57	88.5	75.3	104.4	119.8	64.8	100.8	85.8
LCTD-1060D	55.9	76.7	87.6	48	73.6	62.7	86.1	98.4	54	82.9	70.6	97	111	60.9	93.7	76.7	105.4	120.5	66.2	101.9	87	119.5	136.8	75.3	115.8	99
LCTD-1070B	48.5	67.4	77.3	41.3	64.4	54.5	75.8	87	46.5	72.6	61.5	85.6	98.4	52.6	82.3	66.9	93.1	107	57.3	89.6	76.1	105.9	121.7	65.2	102.1	86.8
LCTD-1070C	56.2	77.7	89	48	74.4	63.1	87.3	100.1	54	83.8	71.2	98.6	113.1	61.1	94.9	77.4	107.2	122.9	66.4	103.3	87.9	121.8	139.7	75.6	117.6	100.2
LCTD-1070D	62.1	85.7	98.1	53.2	82.1	69.7	96.3	110.3	59.8	92.5	78.6	108.7	124.5	67.6	104.7	85.4	118	135.3	73.5	113.9	97	134.1	153.7	83.6	129.6	110.5
LCTD-1080B	55.4	77.1	88.6	47.1	73.7	62.3	86.8	99.8	53	83.1	70.3	98.1	112.8	60	94.2	76.5	106.7	122.7	65.4	102.6	87	121.4	139.7	74.5	116.9	99.3
LCTD-1080C	64.2	88.8	101.8	54.9	85	72.1	99.8	114.4	61.8	95.8	81.4	112.7	129.3	69.8	108.5	88.4	122.5	140.5	75.9	118	100.4	139.2	159.7	86.4	134.4	114.5
LCTD-1080D	71.3	98.1	112.3	61.1	94.1	80	110.2	126.2	68.7	106	90.2	124.4	142.4	77.6	119.9	97.9	135.1	154.7	84.4	130.4	111.2	153.4	175.7	96	148.4	126.6
LCTD-1090B	62	86.4	99.3	52.7	82.5	69.7	97.2	111.8	59.3	93	78.7	109.9	126.5	67.1	105.4	85.6	119.6	137.6	73.1	114.9	97.4	136.1	156.6	83.3	131	111.2
LCTD-1090C	72.2	99.9	114.5	61.8	95.7	81.1	112.3	128.7	69.5	107.8	91.5	126.8	145.4	78.5	122	99.5	137.8	158.1	85.4	132.8	113	156.5	179.6	97.2	151.2	128.8
LCTD-1090D	79.5	109.9	125.9	67.9	105.2	89.2	123.5	141.6	76.4	118.6	100.7	139.5	160	86.4	134.2	109.4	151.6	173.9	94	146.1	124.3	172.2	197.6	106.9	166.4	141.6
LCTD-1100B	69.1	96.3	110.7	58.7	91.9	77.7	108.4	124.6	66.1	103.7	87.8	122.5	141	74.9	117.6	95.4	133.3	153.4	81.5	128.1	108.6	151.7	174.6	92.9	146.1	123.9
LCTD-1100C	80.3	111	127.2	68.6	106.3	90.1	124.8	143	77.2	119.8	101.7	140.9	161.6	87.3	135.6	110.5	153.1	175.6	94.9	147.6	125.5	173.9	199.6	108	168	143.1
LCTD-1100D	88.3	122.1	139.9	75.5	116.9	99.2	137.2	157.3	84.9	131.8	111.9	154.9	177.7	96	149.1	121.6	168.4	193.2	104.4	162.3	138.1	191.3	219.6	118.8	184.8	157.4

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Condition Reference #	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Wet Bulb °C	24	24	24	24	27	27	27	27	27	29	29	29	29	29	32.2	32.2	32.2	32.2	32.2	21	25.56	27	28
Range °C	6	6	8	8	6	6	6	8	8	6	6	6	8	8	6	6	6	8	8	5	5.56	5	5
Approach °C	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	6	3.89	5	4
Inlet Water Temperature °C	36	37	36	39	37	39	40	39	42	39	41	42	41	44	42.2	44.2	45.2	44.2	47.2	32	35.00	37	37
Outlet Water Temperature °C	30	31	28	31	31	33	34	31	34	33	35	36	33	36	36.2	38.2	39.2	36.2	39.2	27	29.44	32	32
	L/S										L/S												
LCTD-1008C	15.8	18.3	9.4	15.1	12.8	18.1	21	10.9	17.4	14	19.9	23	11.9	19.1	16.3	23.1	26.8	13.9	22.3	15.6	12.2	17.3	15
LCTD-1010C	19.7	22.9	11.7	18.9	15.9	22.6	26.3	13.5	21.7	17.5	24.9	28.9	14.8	23.9	20.3	29	33.6	17.3	27.9	19.5	15.2	21.7	18.7
LCTD-1012C	24.7	28.5	14.9	23.7	20	28.3	32.7	17.1	27.3	22	31.1	35.9	18.8	29.9	25.6	36.1	41.7	21.8	34.9	24.4	19.2	27.1	23.5
LCTD-1015C	29.5	34.3	17.5	28.3	23.8	34	39.4	20.1	32.6	26.1	37.3	43.4	22.1	35.8	30.5	43.5	50.5	25.8	41.8	29.3	22.7	32.5	28
LCTD-1017C	31.5	36.6	18.8	30.2	25.5	36.2	42	21.6	34.8	28	39.8	46.1	23.8	38.3	32.6	46.3	53.7	27.7	44.6	31.3	24.4	34.7	29.9
LCTD-1020C	37.5	43.4	22.6	36.1	30.5	43	49.7	26	41.4	33.5	47.2	54.6	28.6	45.5	38.9	54.8	63.4	33.2	53	37.1	29.2	41.2	35.7
LCTD-1022B	35.5	41.1	21.1	34	28.7	40.7	47.3	24.3	39.1	31.5	44.8	51.9	26.7	43	36.6	52.1	60.4	31.2	50.2	35.2	27.4	39	33.7
LCTD-1022C	40.4	46.8	24	38.7	32.6	46.4	53.8	27.7	44.6	35.8	51	59.1	30.4	49	41.7	59.3	68.9	35.5	57.2	40.1	31.2	44.4	38.3
LCTD-1022D	44.3	51.4	26.4	42.5	35.8	50.9	59.1	30.3	48.9	39.3	55.9	64.9	33.4	53.8	45.8	65.1	75.6	38.9	62.8	44	34.3	48.8	42.1
LCTD-1025B	40.4	46.8	24	38.7	32.6	46.4	53.8	27.7	44.6	35.8	51	59.1	30.4	49	41.7	59.3	68.9	35.5	57.2	40.1	31.2	44.4	38.3
LCTD-1025C	44.3	51.4	26.4	42.5	35.8	50.9	59.1	30.3	48.9	39.3	55.9	64.9	33.4	53.8	45.8	65.1	75.6	38.9	62.8	44	34.3	48.8	42.1
LCTD-1025D	50.2	58.3	29.9	48.1	40.6	57.7	67	34.3	55.4	44.5	63.4	73.6	37.8	61	51.9	73.8	85.7	44.1	71.1	49.8	38.8	55.3	47.7
LCTD-1030B	53.3	61.6	32	51.2	43.2	61.1	70.7	36.8	58.8	47.4	67.1	77.6	40.4	64.6	55.2	78	90.3	47.1	75.3	52.8	41.3	58.5	50.6
LCTD-1030C	59.2	68.5	35.6	56.9	48.1	67.9	78.6	40.9	65.4	52.7	74.5	86.2	44.9	71.8	61.3	86.6	100.3	52.3	83.7	58.6	46	65	56.3
LCTD-1030D	67.1	77.6	40.3	64.4	54.4	77	89.1	46.3	74.1	59.7	84.5	97.8	50.9	81.4	69.5	98.2	113.7	59.3	94.9	66.4	52	73.7	63.8
LCTD-1035B	59.2	68.5	35.6	56.9	48.1	67.9	78.6	40.9	65.4	52.7	74.5	86.2	44.9	71.8	61.3	86.6	100.3	52.3	83.7	58.6	46	65	56.3
LCTD-1035C	67.1	77.6	40.3	64.4	54.4	77	89.1	46.3	74.1	59.7	84.5	97.8	50.9	81.4	69.5	98.2	113.7	59.3	94.9	66.4	52	73.7	63.8
LCTD-1035D	74	85.6	44.5	71.1	60	84.9	98.2	51.1	81.7	65.9	93.2	107.8	56.1	89.8	76.6	108.3	125.4	65.4	104.6	73.3	57.4	81.3	70.3
LCTD-1040B	76.4	87.6	47.7	74	63.1	87.2	100	54.5	84.7	69	95.4	109.4	59.8	92.8	79.8	110.4	126.6	69.3	107.5	75.1	60.3	83.4	73
LCTD-1040C	87.1	100.2	53.8	84.2	71.6	99.6	114.6	61.7	96.5	78.4	109.1	125.4	67.6	105.8	90.9	126.4	145.3	78.5	122.9	85.9	68.5	95.3	83.2
LCTD-1040D	95	109.3	58.6	91.8	78.1	108.7	125	67.2	105.3	85.5	119	136.9	73.7	115.4	99.1	137.9	158.6	85.5	134	93.7	74.7	104	90.7
LCTD-1050B	87.1	100.2	53.8	84.2	71.6	99.6	114.6	61.7	96.5	78.4	109.1	125.4	67.6	105.8	90.9	126.4	145.3	78.5	122.9	85.9	68.5	95.3	83.2
LCTD-1050C	95	109.3	58.6	91.8	78.1	108.7	125	67.2	105.3	85.5	119	136.9	73.7	115.4	99.1	137.9	158.6	85.5	134	93.7	74.7	104	90.7
LCTD-1050D	108.9	125.2	67.2	105.3	89.5	124.6	143.2	77	120.6	98	136.4	156.8	84.5	132.3	113.6	158	181.7	98	153.6	107.4	85.6	119.2	103.9
LCTD-1060B	108	124	67.2	104.6	89.1	123.4	141.7	76.9	119.8	97.5	135.1	155.1	84.3	131.2	112.9	156.3	179.4	97.8	152.2	106.4	85.2	118.1	103.2
LCTD-1060C	118.9	136.5	74	115.1	98.1	135.9	156	84.7	131.8	107.4	148.7	170.7	92.8	144.5	124.3	172.1	197.6	107.7	167.6	117.1	93.8	130	113.7
LCTD-1060D	136	155.6	85.8	132.1	112.9	155.2	177.6	98.1	151	123.5	169.6	194.1	107.4	165.3	142.7	196	224.3	124.3	191.5	133.6	107.9	148.4	130.3
LCTD-1070B	120.8	138.9	74.5	116.7	99.2	138.1	158.9	85.4	133.8	108.7	151.3	174	93.6	146.7	125.9	175.2	201.5	108.7	170.3	119.1	94.9	132.2	115.3
LCTD-1070C	138.8	159.3	86.3	134.3	114.4	158.5	182	98.8	153.8	125.3	173.5	199.2	108.3	168.6	145	200.8	230.5	125.6	195.5	136.6	109.4	151.7	132.6
LCTD-1070D	152.7	175.1	95.4	148	126.2	174.4	200	109.2	169.4	138.1	190.8	218.8	119.6	185.5	159.8	220.7	253.1	138.7	215.1	150.3	120.6	166.8	146
LCTD-1080B	138.5	159.4	85.1	133.7	113.6	158.5	182.5	97.6	153.3	124.4	173.6	199.9	107	168.2	144.3	201.3	231.7	124.3	195.4	136.7	108.6	151.7	132.1
LCTD-1080C	158.6	182	98.7	153.5	130.8	181.2	208	112.9	175.8	143.1	198.3	227.6	123.8	192.6	165.7	229.5	263.4	143.5	223.4	156.2	125	173.3	151.5
LCTD-1080D	174.6	200.1	109.5	169.3	144.5	199.3	228.4	125.2	193.7	158.1	218	249.8	137.1	212.2	182.8	252	288.8	158.9	245.9	171.7	138.1	190.7	167.1
LCTD-1090B	155.3	178.8	95.2	149.9	127.2	177.8	204.7	109.2	171.9	139.4	194.7	224.3	119.8	188.6	161.7	225.8	260.1	139.2	219.1	153.3	121.7	170.1	148.1
LCTD-1090C	178.4	204.8	111	172.7	147.1	203.8	234	127.1	197.8	161	223.1	256.1	139.2	216.7	186.4	258.1	296.3	161.5	251.4	175.7	140.7	195	170.5
LCTD-1090D	196.3	225.2	122.1	190	161.9	224.2	257.4	139.8	217.5	177.1	245.4	281.7	153.2	238.4	205	283.9	326	177.6	276.5	193.3	154.7	214.5	187.5
LCTD-1100B	173.1	199.3	106.2	167.1	141.9	198.1	228.2	121.8	191.6	155.4	217.1	250	133.6	210.2	180.2	251.7	289.8	155.2	244.2	170.9	135.6	189.6	165.1
LCTD-1100C	198.2	227.5	123.3	191.9	163.5	226.5	260	141.2	219.7	178.9	247.9	284.5	154.7	240.8	207.1	286.8	329.3	179.4	279.3	195.2	156.3	216.7	189.4
LCTD-1100D	218.1	250.3	135.7	211.1	179.8	249.1	286	155.3	241.7	196.8	272.6	313	170.2	264.9	227.8	315.5	362.2	197.4	307.2	214.7	171.9	238.3	208.4