

**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
Wet Bulb °C	10	10	10	10	10	13	13	13	13	13	16	16	16	16	16	18	18	18	18	18	21	21	21
Range °C	6	6	6	8	8	6	6	6	8	8	6	6	6	8	8	6	6	6	8	8	6	6	6
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
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
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
CTB-1833-312 in m <sup>3</sup> /h	4.5	6.4	7.3	3.8	6.0	5.2	7.3	8.4	4.4	6.9	5.9	8.3	9.6	5.0	8.0	6.5	9.2	10.6	5.5	8.8	7.5	10.6	12.3
CTB-2034-318 in m <sup>3</sup> /h	5.6	7.9	9.2	4.8	7.6	6.4	9.1	10.5	5.4	8.7	7.4	10.4	12.1	6.3	10.0	8.1	11.5	13.3	6.9	11.0	9.4	13.3	15.4
CTB-2034-418 in m <sup>3</sup> /h	8.3	11.7	13.5	7.0	11.1	9.4	13.3	15.4	8.0	12.7	10.8	15.3	17.7	9.2	14.6	11.9	16.8	19.4	10.1	16.1	13.8	19.5	22.5
CTB-3034-824 in m <sup>3</sup> /h	16.2	22.8	26.3	13.7	21.7	18.5	26.0	30.1	15.6	24.8	21.2	29.9	34.6	17.9	28.6	23.3	32.9	38.0	19.7	31.5	27.0	38.1	44.0
CTB-3034-1024 in m <sup>3</sup> /h	20.3	28.6	33.0	17.1	27.2	23.2	32.7	37.8	19.6	31.2	26.6	37.5	43.4	22.5	35.9	29.3	41.3	47.7	24.8	39.5	33.9	47.8	55.3
CTB-3245-1228 in m <sup>3</sup> /h	25.6	36.0	41.6	21.6	34.2	29.2	41.2	47.5	24.7	39.2	33.5	47.3	54.6	28.4	45.2	36.8	52.0	60.1	31.2	49.8	42.6	60.2	69.6
CTB-3345-1528 in m <sup>3</sup> /h	30.5	42.9	49.5	25.7	40.8	34.8	49.0	56.6	29.4	46.7	39.9	56.3	65.1	33.8	53.8	43.9	61.9	71.6	37.2	59.3	50.8	71.7	82.9
CTB-3548-1830 in m <sup>3</sup> /h	35.7	50.3	58.1	30.2	47.8	40.8	57.5	66.4	34.5	54.8	46.8	66.1	76.3	39.6	63.1	51.5	72.7	84.0	43.6	69.5	59.6	84.1	97.2

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
Wet Bulb °C	10	10	10	10	10	13	13	13	13	13	16	16	16	16	16	18	18	18	18	18	21	21	21
Range °C	6	6	6	8	8	6	6	6	8	8	6	6	6	8	8	6	6	6	8	8	6	6	6
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
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
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
CTB-1833-312 in l/s	1.3	1.8	2.0	1.1	1.7	1.4	2.0	2.3	1.2	1.9	1.6	2.3	2.7	1.4	2.2	1.8	2.5	2.9	1.5	2.4	2.1	3.0	3.4
CTB-2034-318 in l/s	1.6	2.2	2.5	1.3	2.1	1.8	2.5	2.9	1.5	2.4	2.1	2.9	3.3	1.7	2.8	2.3	3.2	3.7	1.9	3.0	2.6	3.7	4.3
CTB-2034-418 in l/s	2.3	3.2	3.7	1.9	3.1	2.6	3.7	4.3	2.2	3.5	3.0	4.2	4.9	2.5	4.1	3.3	4.7	5.4	2.8	4.5	3.8	5.4	6.3
CTB-3034-824 in l/s	4.5	6.3	7.3	3.8	6.0	5.1	7.2	8.4	4.3	6.9	5.9	8.3	9.6	5.0	7.9	6.5	9.1	10.6	5.5	8.7	7.5	10.6	12.2
CTB-3034-1024 in l/s	5.6	7.9	9.2	4.8	7.6	6.4	9.1	10.5	5.4	8.7	7.4	10.4	12.1	6.3	10.0	8.1	11.5	13.3	6.9	11.0	9.4	13.3	15.4
CTB-3245-1228 in l/s	7.1	10.0	11.6	6.0	9.5	8.1	11.4	13.2	6.9	10.9	9.3	13.1	15.2	7.9	12.5	10.2	14.4	16.7	8.7	13.8	11.8	16.7	19.3
CTB-3345-1528 in l/s	8.5	11.9	13.8	7.1	11.3	9.7	13.6	15.7	8.2	13.0	11.1	15.6	18.1	9.4	14.9	12.2	17.2	19.9	10.3	16.5	14.1	19.9	23.0
CTB-3548-1830 in l/s	9.9	14.0	16.1	8.4	13.3	11.3	16.0	18.5	9.6	15.2	13.0	18.3	21.2	11.0	17.5	14.3	20.2	23.3	12.1	19.3	16.5	23.4	27.0

24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45		46	47	48	49
21	21	24	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
8	8	6	6	6	8	8	6	6	6	8	8	6	6	8	8	6	6	6	8	8		5	5.56	5	5	
4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7		6	3.89	5	4
33	36	34	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
25	28	28	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
6.4	10.2	8.7	12.3	14.3	7.4	11.9	10.2	14.4	16.6	8.7	13.9	11.3	16.0	18.5	9.6	15.4	13.4	18.9	21.9	11.5	18.3		12.0	9.7	13.8	12.0
8.0	12.7	10.9	15.4	17.8	9.3	14.8	12.7	18.0	20.8	10.8	17.3	14.1	20.0	23.1	12.1	19.3	16.8	23.7	27.4	14.3	22.9		15.0	12.1	17.2	15.0
11.7	18.7	16.0	22.6	26.2	13.6	21.7	18.7	26.4	30.5	15.9	25.4	20.7	29.3	33.9	17.7	28.2	24.6	34.7	40.2	21.0	33.5		22.1	17.7	25.3	22.0
22.9	36.5	31.3	44.2	51.2	26.6	42.5	36.5	51.6	59.7	31.1	49.6	40.5	57.3	66.2	34.6	55.2	48.1	67.9	78.5	41.0	65.6		43.1	34.6	49.4	43.0
28.7	45.8	39.3	55.5	64.2	33.4	53.4	45.9	64.8	74.9	39.1	62.4	50.9	71.9	83.2	43.4	69.3	60.3	85.2	98.6	51.5	82.3		54.2	43.5	62.0	54.0
36.2	57.7	49.5	69.9	80.9	42.1	67.2	57.7	81.6	94.3	49.2	78.5	64.1	90.5	104.7	54.6	87.3	76.0	107.3	124.2	64.9	103.7		68.2	54.8	78.1	68.0
43.1	68.7	59.0	83.3	96.4	50.2	80.0	68.8	97.2	112.4	58.6	93.5	76.4	107.8	124.8	65.1	104.0	90.5	127.8	147.9	77.3	123.5		81.2	65.3	93.0	81.0
50.6	80.6	69.2	97.7	113.0	58.8	93.9	80.7	114.0	131.8	68.7	109.7	89.6	126.5	146.3	76.3	121.9	106.2	149.9	173.5	90.7	144.8		95.3	76.5	109.1	95.0

24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45		46	47	48	49
21	21	24	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
8	8	6	6	6	8	8	6	6	6	8	8	6	6	8	8	6	6	6	8	8		5	5.56	5	5	
4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7		6	3.89	5	4
33	36	34	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
25	28	28	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
1.8	2.8	2.4	3.4	4.0	2.1	3.3	2.8	4.0	4.6	2.4	3.8	3.1	4.4	5.1	2.7	4.3	3.7	5.3	6.1	3.2	5.1		3.3	2.7	3.8	3.3
2.2	3.5	3.0	4.3	5.0	2.6	4.1	3.5	5.0	5.8	3.0	4.8	3.9	5.5	6.4	3.3	5.3	4.7	6.6	7.6	4.0	6.4		4.2	3.4	4.8	4.2
3.3	5.2	4.5	6.3	7.3	3.8	6.0	5.2	7.3	8.5	4.4	7.1	5.8	8.1	9.4	4.9	7.8	6.8	9.6	11.2	5.8	9.3		6.1	4.9	7.0	6.1
6.4	10.1	8.7	12.3	14.2	7.4	11.8	10.1	14.3	16.6	8.6	13.8	11.3	15.9	18.4	9.6	15.3	13.3	18.9	21.8	11.4	18.2		12.0	9.6	13.7	11.9
8.0	12.7	10.9	15.4	17.8	9.3	14.8	12.7	18.0	20.8	10.8	17.3	14.1	20.0	23.1	12.1	19.3	16.8	23.7	27.4	14.3	22.9		15.0	12.1	17.2	15.0
10.1	16.0	13.8	19.4	22.5	11.7	18.7	16.0	22.7	26.2	13.7	21.8	17.8	25.1	29.1	15.2	24.2	21.1	29.8	34.5	18.0	28.8		18.9	15.2	21.7	18.9
12.0	19.1	16.4	23.1	26.8	13.9	22.2	19.1	27.0	31.2	16.3	26.0	21.2	30.0	34.7	18.1	28.9	25.1	35.5	41.1	21.5	34.3		22.6	18.1	25.8	22.5
14.0	22.4	19.2	27.1	31.4	16.3	26.1	22.4	31.7	36.6	19.1	30.5	24.9	35.1	40.6	21.2	33.9	29.5	41.6	48.2	25.2	40.2		26.5	21.3	30.3	26.4