STD-201RS Table 3a - IP 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	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 °F	50	50	50	50	50	55	55	55	55	60	60	60	60	60	60	65	65	65	65	65	70	70	70	70	70	75	75	75	75	75	80	80	80	80	80	85	85	85	85	85	90	90	90	90	90	69.8	78	80.6	82.4
Range °F	10	10	10	15	15	10	10	10	15	15	10	10	10	15	15	10	10	10	15	15	10	10	10	15	15	10	10	10	15	15	10	10	10	15	15	10	10	10	15	15	10	10	10	15	15	9	10	9	9
Approach °F	7	10	12	7	12	7	10	12	7	12	7	10	12	7	12	7	10	12	7	12	7	10	12	7	12	7	10	12	7	12	7	10	12	7	12	7	10	12	7	12	7	10	12	7	12	10.8	7	9	7.2
Inlet Water Temperature °F	67	70	72	72	77	72	75	77	77	82	77	80	82	82	87	82	85	87	87	92	87	90	92	92	97	92	95	97	97	102	97	100	102	102	107	102	105	107	107	112	107	110	112	112	117	89.6	95	98.6	98.6
Outlet Water Temperature °F	57	60	62	57	62	62	65	67	62	67	67	70	72	67	72	72	75	77	72	77	77	80	82	77	82	82	85	87	82	87	87	90	92	87	92	92	95	97	92	97	97	100	102	97	102	80.6	85	89.6	89.6
JFT20-15 in gpm	98	133	157	77	119	113	152	180	88	136	127	173	204	100	155	146	197	238	113	179	168	230	274	130	207	194	265	317	151	240	224	306	365	175	275	260	345	418	208	318	309	416	476	240	364	262	211	302	264
JFT24-15 in gpm	131	177	209	103	159	150	203	240	117	182	170	230	273	133	207	194	262	317	151	239	224	307	366	174	276	258	353	422	201	319	299	408	487	234	367	347	460	557	277	424	413	554	635	320	486	349	281	402	352
JFT24-18 in gpm	164	221	261	129	199	188	253	300	147	227	212	288	341	167	259	243	328	397	188	299	280	383	457	217	344	323	441	528	251	399	374	510	609	292	458	434	576	697	346	530	516	693	794	400	607	436	351	503	440
JFT28-18 in gpm	204	276	326	161	249	235	316	375	183	284	265	359	426	208	324	303	410	496	235	373	349	479	571	272	431	404	551	659	314	499	467	638	761	365	573	543	719	871	432	663	645	866	992	500	759	545	439	629	550
JFT32-20 in gpm	245	331	392	193	299	282	380	449	220	341	318	431	511	250	389	364	492	595	282	448	419	575	685	326	517	485	661	791	377	599	561	766	913	438	687	651	863	1045	519	795	773	1039	1190	600	911	654	527	755	661
JFT32-24 in gpm	286	386	457	225	348	329	443	524	257	398	371	503	596	292	453	425	574	694	329	523	489	671	800	381	603	565	772	923	440	699	654	893	1065	511	802	760	1007	1219	605	928	902	1212	1389	700	1063	763	615	880	771
JFT36-24 in gpm	327	442	522	258	398	376	506	599	293	455	424	575	681	334	518	485	656	793	376	597	559	767	914	435	689	646	882	1055	502	798	748	1021	1217	584	917	868	1151	1393	692	1060	1031	1385	1587	800	1215	872	702	1006	881
JFT42-24 in gpm	409	552	653	322	497	470	633	749	367	568	530	719	852	417	648	607	820	992	470	747	699	958	1142	544	861	808	1102	1319	628	998	934	1276	1522	730	1146	1085	1439	1741	865	1325	1289	1731	1984	1000	1519	1090	878	1258	1101
JFT42-30 in gpm	491	662	783	386	597	564	759	899	440	682	637	863	1022	500	777	728	984	1190	565	896	839	1150	1371	652	1033	969	1323	1583	754	1198	1121	1531	1826	876	1375	1302	1727	2090	1038	1590	1547	2078	2381	1200	1822	1308	1054	1509	1321
JFT48-30 in gpm	572	773	914	451	696	658	886	1049	513	796	743	1006	1192	584	907	849	1148	1388	659	1045	978	1342	1599	761	1206	1131	1543	1846	879	1397	1308	1786	2130	1022	1604	1519	2014	2438	1211	1855	1805	2424	2777	1400	2126	1526	1229	1761	1541
JFT48-34 in gpm	654	883	1045	515	796	752	1013	1199	587	909	849	1150	1363	667	1036	970	1312	1586	753	1195	1118	1533	1828	870	1378	1292	1763	2110	1005	1597	1495	2041	2435	1168	1833	1736	2302	2786	1384	2120	2063	2770	3174	1600	2430	1744	1405	2012	1761

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	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	10	10	10	10	10	13	13	13	13	16	16	16	16	16	16	18	18	18	18	18	21	21	21	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
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	8	8	6	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	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	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	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	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	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	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
JFT20-15 in l/s	6.03	8.50	9.81	5.09	8.08	6.90	9.73	11.25	5.82	9.28	7.90	11.18	12.93	6.69	10.73	8.69	12.44	14.45	7.27	11.80	10.09	14.47	16.83	8.50	13.85	11.79	16.93	19.67	9.93	16.24	13.83	19.82	22.56	11.69	18.61	15.41	21.34	25.47	12.87	20.57	68.19	91.25	105.49	54.77	88.07	16.50	13.29	19.04	16.67
JFT24-15 in l/s	8.04	11.33	13.07	6.79	10.77	9.20	12.98	15.00	7.76	12.38	10.54	14.91	17.24	8.92	14.31	11.58	16.58	19.26	9.69	15.83	13.46	19.29	22.44	11.33	18.46	15.72	22.57	26.23	13.24	21.65	18.44	26.42	30.08	15.58	24.82	20.55	28.45	33.96	17.16	27.42	90.93	121.66	140.66	73.03	117.42	22.00	17.72	25.39	22.22
JFT24-18 in l/s	10.05	14.16	16.34	8.48	13.46	11.50	16.22	18.75	9.69	15.47	13.17	18.64	21.55	11.15	17.88	14.48	20.73	24.08	12.11	19.79	16.82	24.11	28.05	14.16	23.08	19.65	28.21	32.79	16.55	27.07	23.05	33.03	37.60	19.48	31.02	25.68	35.57	42.45	21.45	34.28	113.66	152.08	175.82	91.29	146.78	27.50	22.15	31.73	27.78
JFT28-18 in l/s	12.56	17.69	20.42	10.60	16.82	14.38	20.28	23.43	12.12	19.34	16.47	23.30	26.93	13.93	22.35	18.10	25.91	30.10	15.14	24.74	21.03	30.14	35.07	17.70	28.84	24.56	35.26	40.98	20.69	33.83	28.81	41.28	47.00	24.35	38.77	32.10	44.46	53.06	26.82	42.85	142.07	190.10	219.78	114.11	183.47	34.37	27.69	39.67	34.72
JFT32-20 in l/s	15.07	21.23	24.50	12.73	20.19	17.25	24.33	28.12	14.54	23.21	19.76	27.95	32.32	16.72	26.83	21.72	31.10	36.12	18.17	29.69	25.23	36.17	42.08	21.24	34.61	29.48	42.31	49.18	24.83	40.60	34.58	49.54	56.40	29.22	46.53	38.53	53.35	63.68	32.18	51.42	170.49	228.12	263.73	136.93	220.17	41.25	33.23	47.60	41.67
JFT32-24 in l/s	17.59	24.77	28.60	14.85	23.56	20.13	28.39	32.81	16.97	27.08	23.05	32.61	37.71	19.51	31.30	25.34	36.28	42.14	21.20	34.64	29.44	42.20	49.09	24.78	40.38	34.39	49.36	57.38	28.97	47.37	40.34	57.80	65.80	34.09	54.28	44.95	62.24	74.29	37.54	59.99	198.90	266.14	307.69	159.75	256.86	48.12	38.77	55.53	48.61
JFT36-24 in l/s	20.10	28.31	32.68	16.97	26.92	23.00	32.44	37.49	19.39	30.94	26.34	37.27	43.09	22.29	35.77	28.96	41.46	48.16	24.23	39.58	33.64	48.23	56.11	28.32	46.15	39.30	56.42	65.57	33.11	54.13	46.10	66.06	75.21	38.96	62.04	51.37	71.13	84.90	42.91	68.56	227.32	304.16	351.64	182.58	293.56	54.99	44.31	63.47	55.56
JFT42-24 in l/s	25.13	35.38	40.85	21.21	33.65	28.75	40.56	46.87	24.24	38.68	32.93	46.59	53.87	27.87	44.71	36.19	51.83	60.20	30.28	49.48	42.06	60.28	70.13	35.40	57.69	49.13	70.52	81.97	41.38	67.67	57.63	82.57	94.01	48.69	77.55	64.21	88.92	106.13	53.63	85.69	284.14	380.20	439.55	228.22	366.95	68.74	55.38	79.33	69.44
JFT42-30 in l/s	30.15	42.47	49.03	25.45	40.38	34.50	48.67	56.24	29.08	46.42	39.52	55.91	64.64	33.44	53.65	43.43	62.19	72.24	36.34	59.38	50.47	72.34	84.16	42.48	69.23	58.95	84.63	98.36	49.66	81.20	69.15	99.08	112.81	58.43	93.06	77.05	106.70	127.35	64.36	102.83	340.97	456.24	527.46	273.87	440.33	82.49	66.46	95.20	83.33
JFT48-30 in l/s	35.18	49.54	57.19	29.69	47.12	40.25	56.78	65.62	33.93	54.15	46.10	65.23	75.42	39.02	62.59	50.67	72.56	84.28	42.40	69.27	58.88	84.40	98.18	49.56	80.76	68.78	98.73	114.75	57.93	94.73	80.68	115.60	131.61	68.17	108.57	89.89	124.48	148.58	75.08	119.97	397.80	532.28	615.38	319.51	513.72	96.24	77.53	111.07	97.22
JFT48-34 in l/s	40.21	56.62	65.36	33.93	53.84	46.00	64.89	74.99	38.78	61.89	52.69	74.54	86.19	44.59	71.53	57.91	82.92	96.32	48.46	79.17	67.29	96.46	112.21	56.64	92.30	78.68	112.83	131.14	66.21	108.27	92.26	132.11	150.41	77.91	124.08	102.73	142.27	169.80	85.81	137.11	454.63	608.32	703.29	365.15	587.11	109.99	88.61	126.93	111.11