



STD-201RS Table 3a - IP Units - Cooling Towers (CT)

Condition Reference #	COOLING TOWERS HRFG SERIES																																																	
	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						
Wet Bulb °F	55	55	55	55	55	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	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	15	15	10	10	10	15	15	10	10	15	10	15	10	10	10	10	15	15	10	10	15	15	10	15	10	10	10	15	15	10	10	15	15	9	10	9	9	
Approach °F	7	10	12	7	12	7	12	7	12	7	10	12	7	12	7	10	12	7	10	12	7	10	12	7	10	12	7	10	12	7	10	12	7	10	12	7	10	12	7	10	12	7	10	12	7	10	9	7	9	7.2
Inlet Water Temperature °F	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	102	100	102	102	107	102	105	107	107	112	107	112	107	110	112	112	117	89.6	95	98.6	98.6			
Outlet Water Temperature °F	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	92	97	100	102	97	102	80.6	85	89.6	89.6					
HRFG-303115	36.60	48.60	56.85	29.55	44.55	45.00	59.40	68.85	37.35	54.90	47.25	62.55	73.35	38.25	57.75	58.50	75.60	88.65	48.15	69.75	66.15	86.40	99.90	55.35	81.90	76.50	99.00	110.10	63.00	92.25	81.75	108.15	126.75	67.05	101.10	94.50	124.95	146.40	77.70	117.00				72.00						
HRFG-303102	39.65	52.65	61.59	32.01	48.26	48.75	64.35	74.59	40.46	59.48	51.19	67.76	79.46	41.44	62.56	63.38	81.90	96.04	52.16	75.56	71.66	93.60	108.23	59.96	88.73	82.88	107.25	119.28	68.25	99.94	88.56	117.16	137.31	72.64	109.53	102.38	135.36	158.60	84.18	126.75				78.00						
HRFG-404103	65.58	87.08	101.86	52.94	79.82	80.63	106.43	123.36	66.92	98.36	84.66	112.07	131.42	68.53	103.47	104.81	135.45	158.83	86.27	124.97	118.52	154.80	178.99	99.17	146.74	137.06	177.38	197.26	112.88	165.28	146.47	193.77	227.09	120.13	181.14	169.31	223.87	262.30	139.21	209.63				129.00						
HRFG-404105	80.83	107.33	125.54	65.26	98.38	99.38	131.18	152.04	82.48	121.24	104.34	138.13	161.98	84.47	127.53	129.19	166.95	195.77	106.33	154.03	146.08	190.80	220.61	122.23	180.86	168.94	218.63	243.14	139.13	203.72	180.53	238.83	279.91	148.07	223.26	208.69	275.93	323.30	171.59	258.38				159.00						
HRFG-505103	93.03	123.53	144.49	75.11	113.23	114.38	150.98	174.99	94.93	139.54	120.09	158.98	186.43	97.22	146.78	148.69	192.15	225.32	122.38	177.28	168.13	219.60	253.91	140.68	208.16	194.44	251.63	279.84	160.13	234.47	207.78	274.88	322.16	170.42	256.96	240.19	317.58	372.10	197.49	297.38				183.00						
HRFG-505105	114.38	151.88	177.66	92.34	139.22	140.63	185.63	215.16	116.72	171.56	147.66	195.47	229.22	119.53	180.47	182.81	236.25	277.03	150.47	217.97	206.72	270.00	312.19	172.97	255.94	239.06	309.38	344.06	196.88	288.28	255.47	337.97	396.09	209.53	315.94	295.31	390.47	457.50	242.81	365.63				225.00						
HRFG-606105	137.25	182.25	213.19	110.81	167.06	168.75	222.75	258.19	140.06	205.88	177.19	234.56	275.06	143.44	216.56	219.38	283.50	332.44	180.56	261.56	248.06	324.00	374.63	207.56	307.13	286.88	371.25	412.88	236.25	345.94	306.56	405.56	475.31	251.44	379.13	354.38	468.56	549.00	291.38	438.75				270.00						
HRFG-606175	163.18	216.68	253.46	131.74	198.62	200.63	264.83	306.96	166.52	244.76	210.66	278.87	327.02	170.53	257.47	260.81	337.05	395.23	214.67	310.97	294.92	385.20	445.39	246.77	365.14	341.06	441.38	490.86	280.88	411.28	364.47	482.17	565.09	298.93	450.74	421.31	557.07	652.70	346.41	521.63				321.00						
HRFG-707175	215.03	285.53	333.99	173.61	261.73	264.38	348.98	404.49	219.43	322.54	277.59	367.48	430.93	224.72	339.28	343.69	444.15	520.82	282.88	409.78	388.63	507.60	586.91	325.18	481.16	449.44	581.63	646.84	370.13	541.97	480.28	635.38	744.66	393.92	593.96	555.19	734.08	860.10	456.49	687.38				423.00						
HRFG-707110	236.38	313.88	367.16	190.84	287.72	290.63	383.63	444.66	241.22	354.56	305.16	403.97	473.72	247.03	372.97	377.81	488.25	572.53	310.97	450.47	427.22	558.00	645.19	357.47	528.94	494.06	639.38	711.06	406.88	595.78	527.97	698.47	818.59	433.03	652.94	610.31	806.97	945.50	501.81	755.63				463.00						
HRFG-708175	231.80	307.80	360.05	187.15	282.15	285.00	376.20	436.05	236.55	347.70	299.25	396.15	464.55	242.25	365.75	370.50	478.80	561.45	304.95	441.75	418.95	547.20	632.70	350.55	518.70	484.50	627.00	697.30	399.00	584.25	517.75	684.95	802.75	424.65	640.30	598.50	791.35	927.20	492.10	741.00				456.00						
HRFG-708110	257.73	342.23	400.32	208.08	313.71	316.88	418.28	484.82	263.01	386.59	332.72	440.46	516.51	269.34	406.66	411.94	532.35	624.24	339.06	491.16	465.81	608.40	703.46	389.76	576.71	538.69	697.13	775.29	443.63	649.59	575.66	761.56	892.53	472.14	711.91	665.44	879.86	1030.90	547.14	823.88				507.00						
HRFG-708115	292.80	388.80	454.80	236.40	356.40	360.00	475.20	550.80	298.80	439.20	378.00	500.40	586.80	306.00	462.00	468.00	604.80	709.20	385.20	558.00	529.20	691.20	799.20	442.80	655.20	612.00	792.00	880.80	504.00	738.00	654.00	865.20	1014.00	536.40	808.80	756.00	999.60	1171.20	621.60	936.00				576.00						
HRFG-709175	248.58	330.08	386.11	200.69	302.57	305.63	403.43	467.61	253.67	372.86	320.91	424.82	498.17	259.78	392.22	397.31	513.45	602.08	327.02	473.72	449.27	586.80	678.49	375.92	556.24	519.56	672.38	747.76	427.88	626.53	555.22	734.52	860.84	455.38	686.64	641.81	848.62	994.30	527.71	794.63				489.00						
HRFG-709110	280.60	372.60	435.85	226.55	341.55	345.00	455.40	527.85	286.35	420.90	362.25	479.55	562.35	293.25	442.75	448.50	579.60	679.65	369.15	534.75	507.15	662.40	765.90	424.35	627.90	586.50	759.00	844.10	483.00	707.25	626.75	829.15	971.75	514.05	775.10	724.50	957.95	1122.40	595.70	897.00				552.00						
HRFG-709115	312.63	415.13	485.59	252.41	380.53	384.38	507.38	588.09	319.03	468.94	403.59	534.28	626.53	326.72	493.28	499.69	645.75	757.22	411.28	595.78	565.03	738.00	853.31	472.78	699.56	653.44	845.63	940.44	538.13	787.97	698.28	923.78	1082.66	572.72	863.56	807.19	1067.28	1250.50	663.69	999.38				615.00						
HRFG-808175	260.78	346.28	405.06	210.54	317.42	320.63	423.23	490.56	266.12	391.16	336.66	445.67	522.62	272.53	411.47	416.81	538.65	631.63	343.07	496.97	471.32	615.60	711.79	394.37	583.54	545.06	705.38	784.46	448.88	657.28	582.47	770.57	903.09	477.73	720.34	673.31	890.27	1043.10	553.61	833.63				613.00						
HRFG-808110	289.75	384.75	450.06	233.94	352.69	356.25	470.25	545.06	295.69	434.63	374.06	495.19	580.69	302.81	457.19	463.13	598.50	701.81	381.19	552.19	523.69	684.00	790.88	438.19	648.38	605.63	783.75	871.63	498.75	730.31	647.19	856.19	1003.44	530.81	800.38	748.13	989.19	1159.00	615.13	926.25				570.00						
HRFG-808115	320.25	425.25	497.44	258.56	389.81	393.75	519.75	602.44	326.81	480.38	413.44	547.31	641.81	334.69	505.31	511.88	661.50	775.69	421.31	610.31	578.81	756.00	874.13	484.31	716.63	669.38	866.25	963.38	551.25	807.19	715.31	946.31	1109.06	586.69	884.63	826.88	1093.31	1281.00	679.88	1023.75				630.00						
HRFG-808175-SL	247.56	328.73	384.53	199.87	301.33	304.38	401.78	465.69	252.63	371.34	319.59	423.08	496.13	258.72	390.61	395.69	511.35	599.62	325.68	447.78	447.43	584.40	675.71	374.38	553.96	517.44	669.63	744.70	426.13	623.97	552.95	731.51	857.32	453.52	683.83	639.19	845.15	990.23	525.55	791.38				487.00						
HRFG-808110-SL	275.01	365.18	427.16	222.04	334.74	338.13	446.33	517.33	280.64	412.51	355.03	469.99	551.14	287.41	433.93	439.56	568.05	666.11	361.79	524.09	497.04	649.20	750.64	415.89	615.39	574.81	743.88	827.28																						