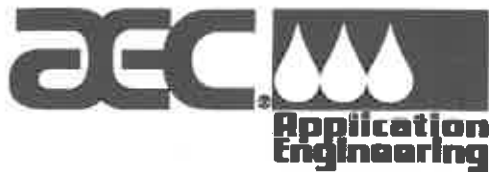




FG Series Cooling Tower Quick Selection Guide

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FG Cooling Tower Quick Selection Guide

- **Determine the Process Variables**

1. **Process Flow Rate**

The gallons per minute [GPM] of the process

2. **Wet Bulb Temperature**

Find the July average wet bulb temperature where the cooling tower will be installed. See the wet bulb design condition charts on the following pages.

3. **Water In Temperature**

The actual temperature of the water that will be entering the cooling tower.

4. **Water Out Temperature**

The desired temperature of the water as it leaves the cooling tower.

Example

Determine

Process GPM = 100 GPM

Wet Bulb of Fresno CA = 74°F

Water In from Process = 101°F

Desired Water Out to Process = 85°F

Calculate

Approach = 11°F [85°F minus 74°F]

Range = 16°F [101°F minus 85°F]

Select

Choose an FG model that provides sufficient GPM given the approach and range. In this case, select an FG2001.

- **Determine the Process Approach**

Temperature of Water Out – Location's Wet Bulb = Approach

- **Calculate the Range**

Actual Temperature of Water In – Desired Temperature Of Water Out = Range

- **Select the Cooling Tower**

1. Consult the tower performance charts for the installation location's wet bulb.
2. Use the approach and range to find the cooling tower model that has the appropriate GPM for the process.
3. The cooling tons the tower will provide is also indicated.

FG2001 Cooling Tower Performance

Based on CTI Bluebook Curves and Clean, Unfouled Fill

60°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	6	8	10	12	14	16	18	20	
5	20/100	23/85	25/78	28/70	30/65				
7	25/127	29/107	32/95	34/86	37/80	40/75	53/71	45/68	
9	31/154	34/129	38/113	41/102	44/94	47/88	50/83	53/79	
11		40/150	44/131	47/118	51/109	54/101	58/96	61/91	
13			50/150	54/135	57/123	61/115	65/108	69/103	
15				60/151	64/138	69/129	73/121	77/115	

78°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	16/123	19/96	22/82	24/73	27/67				
7		24/122	27/102	30/90	33/82	35/76	38/72	41/68	43/65
9		29/147	33/123	36/108	39/98	42/90	45/84	48/80	51/78
11			38/144	42/126	45/113	49/104	52/97	55/91	58/87
13				48/144	52/129	55/118	59/110	62/103	65/98
15					58/145	62/132	67/123	70/116	73/110
17						69/147	73/137	77/128	81/121

76°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	16/118	18/92	21/78	23/70					
7	20/152	23/116	26/98	29/86	32/79	34/73	36/68	39/65	
9		28/141	31/118	34/103	37/93	40/86	43/81	46/76	49/73
11			37/138	40/120	43/108	46/99	50/93	52/87	55/83
13				46/137	49/123	53/113	56/105	59/99	63/94
15				52/155	56/139	59/127	63/118	67/111	70/105
17					62/154	66/141	70/131	74/123	77/116

74°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	15/113	18/88	20/75	22/66					
7	19/145	22/111	25/94	28/83	30/75	33/70	35/65		
9		27/135	30/113	33/99	36/89	38/82	41/77	44/73	46/69
11			35/132	38/115	42/104	44/95	47/89	50/84	53/80
13			40/151	44/132	47/118	50/108	54/101	57/95	60/90
15				49/148	53/133	56/121	60/113	64/106	67/100
17					59/148	63/135	67/125	70/117	74/111
19						70/149	74/138	77/129	81/122

72°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	14/108	17/84	19/71						
7	19/139	21/107	24/90	26/79	29/72	31/67			
9		26/130	29/108	32/95	34/85	37/79	39/74	42/70	44/66
11		31/153	34/126	37/110	40/99	42/91	45/85	48/80	51/76
13			39/145	42/126	45/113	49/104	51/96	55/91	57/86
15				47/142	51/127	54/116	58/108	61/101	64/96
17					57/142	60/129	64/120	67/112	71/106
19						67/143	70/132	74/124	78/117

70°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	14/103	16/80	18/68						
7	18/133	20/102	23/86	25/76	28/69				
9		25/124	27/103	30/90	33/82	35/75	37/70	40/67	
11		29/146	32/121	35/105	38/95	41/87	43/81	46/77	49/73
13			35/133	40/121	43/108	46/99	49/92	52/87	55/82
15				45/136	49/122	52/111	55/103	58/97	61/92
17				51/152	54/136	58/124	61/115	65/108	68/102
19					60/150	64/137	68/127	71/118	75/112

68°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	13/99	15/77	17/65						
7	17/128	20/98	22/82	24/72	26/66				
9		24/119	26/99	29/87	31/78	34/72	36/67		
11		28/140	31/116	34/101	36/91	39/83	42/78	44/73	47/70
13			35/133	39/116	42/104	44/95	47/88	50/83	53/79
15			40/151	44/131	47/117	50/107	53/99	56/93	59/88
17				49/146	52/130	56/119	59/110	62/103	65/97
19					58/144	61/131	65/121	68/113	71/107

FG2003 Cooling Tower Performance

Based on CTI Bluebook Curves and Clean, Unfouled Fill

80°F WET BULB		TONS/GPM						
		RANGE						
APPROACH	6	8	10	12	14	16	18	20
5	33/167	38/142	42/127	47/117	50/108	54/102		
7	42/212	47/178	53/158	57/143	62/133	67/125	71/118	75/113
9		57/215	63/188	68/170	73/157	78/147	83/138	88/132
11			73/218	79/197	85/182	90/168	96/160	101/152
13				90/225	96/205	102/192	108/180	115/172
15					107/230	115/216	121/202	128/192

78°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	27/205	32/160	37/137	41/122	45/112	48/103			
7		41/203	45/170	50/150	55/137	59/127	64/120	68/113	70/105
9		49/245	55/205	60/180	65/163	70/150	75/140	80/133	85/127
11			64/240	70/210	75/188	81/173	86/162	91/152	97/145
13				80/240	88/215	92/197	98/183	103/172	109/163
15					97/242	103/220	109/205	116/193	122/183
17						114/245	122/228	128/213	135/202

76°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	26/197	31/153	35/130	39/117	43/107				
7		39/193	43/163	48/143	53/132	57/122	60/113	65/108	69/103
9		47/235	53/197	57/172	62/155	67/143	72/135	76/127	81/122
11			61/230	67/200	72/180	77/165	83/155	87/145	92/138
13				76/228	82/205	88/188	93/175	99/165	105/157
15					93/232	99/212	105/197	111/185	117/175
17						110/235	116/218	123/205	129/193

74°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	25/188	29/147	33/125	37/110	41/102				
7		32/242	37/185	42/157	46/138	50/125	55/117	58/108	62/103
9			45/225	50/188	55/165	59/148	64/137	68/128	73/122
11				59/220	64/192	69/173	74/158	79/148	84/140
13					73/220	79/197	84/180	90/168	95/158
15					82/247	89/222	94/202	100/188	106/177
17						99/247	105/225	111/208	117/196
19							116/248	123/230	129/215

72°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	24/180	28/140	31/118	36/107					
7		31/232	36/178	40/150	44/132	48/120	52/112	55/103	
9			43/217	48/180	53/158	57/142	62/132	66/123	70/117
11				56/210	61/183	66/165	71/152	76/142	80/133
13					65/242	70/120	75/188	81/173	85/160
15						79/237	85/212	90/193	96/180
17							95/237	100/215	107/200
19								111/238	117/220

70°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	23/172	27/133	30/113	34/102					
7		30/222	34/170	38/143	42/127	46/115	50/107	53/100	
9			41/207	46/172	50/150	55/137	58/125	62/117	67/112
11				49/243	54/202	58/175	63/158	68/145	72/135
13					62/232	67/202	72/180	77/165	82/153
15						76/227	81/203	86/185	92/172
17							91/227	97/207	102/192
19								106/228	113/212

68°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	22/165	26/128	29/108						
7		28/213	33/163	37/137	40/120	44/110	48/102		
9			40/198	44/165	48/145	52/130	56/120	60/112	64/107
11			47/233	51/193	56/168	61/152	64/138	69/130	73/122
13				59/222	64/193	69/173	74/158	78/147	83/138
15					73/218	78/195	83/178	88/165	93/155
17						81/243	87/217	92/198	98/183
19								102/218	108/202

FG2004 Cooling Tower Performance

Based on CTI Bluebook Curves and Clean, Unfouled Fill

80°F WET BULB		TONS/GPM						
		RANGE						
APPROACH	6	8	10	12	14	16	18	20
5	50/250	57/212	63/190	70/175	76/162	82/153	87/145	93/140
7		71/267	79/237	86/215	93/200	100/187	106/177	113/170
9			94/282	102/255	110/235	117/220	124/207	131/197
11				118/295	127/272	134/252	144/240	151/227
13						153/287	162/270	171/257
15								191/287

78°F WET BULB		TONS/GPM						
		RANGE						
APPROACH	6	8	10	12	14	16	18	20
5	48/240	55/205	61/182	67/167	72/155	79/148	84/140	89/133
7		68/255	75/225	82/205	89/190	96/180	102/170	108/162
9			90/270	98/245	105/225	112/210	120/200	127/190
11				113/282	121/260	129/242	136/227	145/217
13					138/295	147/275	154/257	163/245
15							174/290	183/275

76°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	39/295	46/230	52/195	58/175	64/160	69/148	75/140	80/133	85/128
7		58/290	65/245	72/215	79/197	85/182	91/170	97/162	103/155
9			79/295	86/257	93/232	100/215	108/203	114/190	121/182
11				100/300	108/270	116/248	124/232	130/217	138/207
13						132/282	140/262	149/248	157/235
15							157/295	166/277	175/262
17									193/290

74°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	38/282	44/220	50/187	55/165	61/153	67/143	71/133	77/128	82/123
7		55/277	63/238	69/207	75/187	82/175	86/162	93/155	99/148
9			75/282	83/248	89/222	96/205	102/192	109/182	115/172
11				96/287	104/260	111/237	118/222	126/210	133/200
13					118/295	126/270	134/252	142/237	150/225
15							150/282	159/265	167/250
17								176/293	185/277

72°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	36/270	42/210	47/177	53/160	58/145	63/135	68/128	72/120	77/115
7		53/267	60/225	66/197	72/180	78/167	83/155	89/148	95/143
9			72/270	79/237	85/212	92/197	99/185	105/175	110/165
11				92/275	99/248	106/227	113/212	120/200	127/190
13					113/282	121/260	128/240	136/227	143/215
15						135/290	144/270	151/252	160/240
17							160/300	168/280	177/265
19									195/293

70°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	34/257	40/200	45/170	51/153	56/140	60/130	66/123	69/115	73/110
7		51/255	57/215	63/190	69/172	75/160	80/150	86/143	90/135
9			69/257	75/225	82/205	87/187	93/175	100/167	105/158
11				87/262	95/237	101/217	108/203	115/192	121/182
13					108/270	116/248	123/230	130/217	137/205
15						129/277	137/257	145/242	153/230
17							153/287	162/270	170/255
19								177/295	187/280

68°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	33/248	38/192	43/162	48/145	53/133	57/123	63/118	66/110	70/105
7		49/245	55/205	60/180	66/165	71/153	76/143	81/135	87/130
9		59/297	66/248	72/217	78/195	84/180	89/167	96/160	102/153
11			77/290	84/252	91/227	97/207	104/195	109/182	117/175
13				97/290	104/260	111/237	117/220	124/207	131/197
15					117/293	125/267	132/248	139/232	147/220
17						139/297	147/275	154/257	161/242
19								169/282	178/267

FG2005 Cooling Tower Performance

Based on CTI Bluebook Curves and Clean, Unfouled Fill

80°F WET BULB		RANGE							TONS/GPM	
APPROACH	6	8	10	12	14	16	18	20		
5	67/333	75/283	84/253	93/233	101/217	108/203	116/193	125/187		
7	85/423	95/357	106/317	115/287	125/267	133/250	143/236	151/227		
9		115/430	126/377	136/340	146/313	156/293	166/277	175/263		
11			146/437	157/393	169/363	180/337	192/320	202/303		
13				180/450	191/410	204/383	216/360	229/343		
15					215/460	229/430	242/403	255/383		

78°F WET BULB		RANGE							TONS/GPM	
APPROACH	4	6	8	10	12	14	16	18	20	
5	55/410	64/320	73/273	81/243	89/223	97/207	105/197	112/187	118/177	
7		81/407	91/340	100/300	109/273	118/253	126/240	136/227	145/217	
9		98/490	109/410	120/360	131/327	140/300	149/280	160/267	169/253	
11			128/480	140/420	151/377	162/347	172/323	182/303	193/290	
13				160/480	172/430	183/393	196/367	206/343	218/327	
15					193/483	205/440	219/410	232/387	245/367	
17						229/490	244/457	256/427	269/403	

76°F WET BULB		RANGE							TONS/GPM	
APPROACH	4	6	8	10	12	14	16	18	20	
5	52/393	61/307	69/260	78/233	85/213	92/197	100/187	106/177	113/170	
7		77/387	87/327	96/287	105/263	113/243	121/227	130/217	138/207	
9		94/470	105/393	114/343	124/310	134/287	144/270	152/253	162/243	
11			123/460	133/400	144/360	154/330	165/310	174/290	185/277	
13				152/457	164/410	176/377	187/350	198/330	209/313	
15					193/483	197/423	210/393	222/370	233/350	
17						219/470	233/437	246/410	258/387	

74°F WET BULB		RANGE							TONS/GPM	
APPROACH	4	6	8	10	12	14	16	18	20	
5	50/377	59/293	67/250	73/220	81/203	89/190	94/177	102/170		
7	64/483	74/370	83/313	92/277	100/250	109/233	116/217	124/207	131/197	
9		90/450	101/377	110/330	119/297	127/273	133/250	146/243	153/230	
11			117/440	128/383	139/347	148/317	158/297	168/280	178/267	
13				147/440	157/393	168/360	180/337	190/317	200/300	
15				164/493	177/443	188/403	201/377	212/353	222/333	
17					197/493	210/450	222/417	234/390	247/370	
19						232/497	245/460	258/430	271/407	

72°F WET BULB		RANGE							TONS/GPM	
APPROACH	4	6	8	10	12	14	16	18	20	
5	48/360	58/280	63/236	71/213	77/193	84/180	91/170			
7	62/463	71/357	80/300	88/263	96/240	104/223	110/207	118/197	127/190	
9		87/433	96/360	106/317	113/283	123/263	132/247	140/233	147/220	
11			112/420	122/367	132/330	141/303	151/283	160/267	169/253	
13			129/483	140/420	151/377	162/347	171/320	182/303	191/287	
15				158/473	169/423	181/387	192/360	201/337	213/320	
17					189/473	201/430	213/400	224/373	235/353	
19						223/477	235/440	248/413	260/390	

70°F WET BULB		RANGE							TONS/GPM	
APPROACH	4	6	8	10	12	14	16	18	20	
5	46/343	53/267	61/227	68/203	75/187	81/173				
7	59/443	68/340	77/287	84/253	92/230	99/213	107/200	114/190	120/180	
9		83/413	91/343	100/300	109/273	117/250	124/233	134/223	140/210	
11		97/487	107/403	117/350	127/317	135/290	144/270	154/257	162/243	
13			123/463	134/403	144/360	154/330	164/307	174/290	181/272	
15				151/453	163/407	173/370	183/343	194/323	205/307	
17					181/453	193/413	204/383	216/360	227/340	
19						213/457	226/423	236/393	249/373	

68°F WET BULB		RANGE							TONS/GPM	
APPROACH	4	6	8	10	12	14	16	18	20	
5	44/330	51/257	58/217	64/193	71/177					
7	57/427	65/327	73/273	80/240	88/220	95/203	101/190	108/180	115/173	
9		79/397	88/330	97/290	104/260	112/240	119/223	128/213	135/203	
11		93/467	103/387	112/337	121/303	129/277	139/260	148/243	155/233	
13			118/443	129/387	139/347	148/317	156/293	166/277	175/263	
15				146/437	156/390	167/357	176/330	186/310	195/293	
17				162/487	173/433	185/397	196/367	208/343	216/323	
19					192/480	204/437	215/403	228/377	239/357	

FG2007 Cooling Tower Performance

Based on CTI Bluebook Curves and Clean, Unfouled Fill

80°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	6	8	10	12	14	16	18	20	
5	83/417	94/354	106/317	117/292	126/271	135/254	145/242	155/233	
7		119/446	132/396	143/358	155/333	166/312	178/296	189/233	
9			167/471	170/425	183/392	199/367	208/346	219/329	
11				197/492	212/454	225/421	240/400	253/379	
13					239/512	255/479	270/450	286/429	
15							302/504	319/479	

78°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	66/512	80/400	91/342	101/304	112/279	120/258	131/246	140/233	147/221
7		102/508	113/425	125/375	137/342	148/317	160/300	170/283	181/271
9			137/512	150/450	163/408	175/375	187/350	200/333	211/317
11				175/525	188/471	202/433	215/404	227/379	241/362
13						230/492	244/458	257/429	272/408
15							273/512	290/483	305/458
17								336/504	

76°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	66/492	77/383	87/325	97/292	107/267	115/246	124/233	133/221	142/213
7		97/483	109/408	119/358	132/329	142/304	151/283	163/271	172/258
9			131/492	143/429	155/387	167/358	180/338	190/317	203/304
11				187/500	180/450	193/413	206/387	217/362	231/346
13					205/512	220/471	233/437	248/413	261/392
15							262/492	277/462	291/437
17								307/512	322/483

74°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	63/471	73/367	83/312	92/275	102/254	111/238	118/221	128/213	136/204
7		92/482	105/392	115/346	125/312	136/292	145/271	155/258	164/246
9			128/471	138/413	148/371	160/342	171/321	182/304	191/287
11				180/479	173/433	185/396	198/371	210/350	222/333
13					197/492	210/450	225/421	238/396	250/375
15						235/504	251/471	265/442	278/417
17							277/520	293/488	308/462
19								339/508	

72°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	60/450	70/350	79/296	89/267	97/242	105/225	114/213	120/200	128/192
7		89/448	100/375	110/329	120/300	130/279	138/258	148/246	159/238
9			120/450	132/396	142/354	154/329	164/308	175/292	183/275
11			140/526	153/458	165/413	177/379	189/354	200/333	211/317
13				175/525	188/471	202/433	213/400	227/379	239/358
15						225/483	240/450	253/421	267/400
17							267/500	280/467	295/442
19								310/517	325/488

70°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	57/429	67/333	75/283	85/254	93/233	101/217	109/204	115/192	122/183
7		85/425	95/358	106/317	115/287	125/267	133/250	143/238	150/225
9		103/517	114/429	125/375	137/342	148/312	156/292	167/279	175/263
11			134/504	148/437	159/396	169/362	180/338	193/321	203/304
13				168/504	180/450	193/413	204/382	217/362	228/342
15					203/508	218/462	229/429	242/404	255/383
17						241/517	255/479	270/450	283/425
19								295/492	311/467

68°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	55/413	64/321	72/271	81/242	88/221	95/204	105/196	110/183	117/175
7		82/408	91/342	100/300	110/275	119/254	127/238	135/225	145/217
9		99/496	110/413	121/362	130/325	140/300	149/279	160/267	169/254
11			129/483	140/421	152/379	161/346	173/325	182/304	195/292
13				161/483	173/433	185/396	196/367	208/346	219/329
15					195/488	208/446	220/413	232/387	245/367
17						231/496	244/458	257/429	269/404
19							267/504	283/471	297/446

FG2009 Cooling Tower Performance

Based on CTI Bluebook Curves and Clean, Unfouled Fill

APPROACH	80°F WET BULB							
	RANGE							
	6	8	10	12	14	16	18	20
5	100/500	113/425	127/380	140/350	152/325	163/305	174/290	187/280
7	127/635	143/535	158/475	172/430	187/400	200/375	213/355	227/340
9			188/565	204/510	219/470	235/440	249/415	263/395
11				236/590	254/545	269/505	288/480	303/455
13					287/615	306/575	324/540	343/515
15							363/605	383/575

APPROACH	78°F WET BULB								
	RANGE								
	4	6	8	10	12	14	16	18	20
5	82/615	96/480	109/410	122/365	134/335	145/310	157/295	168/280	177/265
7		122/610	136/510	150/450	164/410	177/380	192/360	204/340	217/325
9			164/615	180/540	196/490	210/450	224/420	240/400	253/380
11				210/630	226/565	243/520	259/485	273/455	290/435
13						275/590	293/550	309/515	327/490
15							328/615	348/580	367/550
17								384/640	403/605

APPROACH	76°F WET BULB								
	RANGE								
	4	6	8	10	12	14	16	18	20
5	79/590	82/460	104/390	117/350	128/320	138/295	149/280	159/265	
7		116/580	131/490	143/430	158/395	170/365	181/340	195/325	207/310
9			157/590	172/515	186/465	201/430	216/405	228/380	243/365
11				200/600	216/540	231/495	248/465	261/435	277/415
13					246/615	264/565	280/525	297/495	313/470
15						296/635	315/590	333/555	350/525
17								389/615	387/580

APPROACH	74°F WET BULB								
	RANGE								
	4	6	8	10	12	14	16	18	20
5	75/565	86/430	100/375	110/330	122/305	133/285	141/265		
7		111/555	125/470	138/415	150/375	163/350	173/325	186/310	197/295
9			151/565	165/495	178/445	191/410	205/385	219/365	230/345
11				192/575	208/520	222/475	237/445	252/420	267/400
13					236/590	252/540	269/505	285/475	300/450
15						282/605	301/565	318/530	333/500
17							333/625	351/585	370/555
19									407/610

APPROACH	72°F WET BULB								
	RANGE								
	4	6	8	10	12	14	16	18	20
5	72/540	84/420	95/355	107/320	116/290	126/270			
7		107/535	120/450	132/395	144/360	156/335	165/310	177/295	190/285
9			144/540	158/475	170/425	184/395	197/370	210/350	220/330
11			168/630	183/550	198/495	212/455	227/425	240/400	253/380
13				210/630	226/565	243/520	256/480	273/455	287/430
15					254/635	271/580	288/540	303/505	320/480
17							320/600	336/560	353/530
19								372/620	390/585

APPROACH	70°F WET BULB								
	RANGE								
	4	6	8	10	12	14	16	18	20
5	69/515	80/400	91/340	102/305	112/280	121/260			
7		102/510	115/430	127/380	138/345	149/320	160/300	171/285	180/270
9		124/620	137/515	150/450	164/410	175/375	187/350	201/335	210/315
11			161/605	175/525	190/475	203/435	216/405	231/385	243/365
13				202/605	218/540	231/495	245/460	261/435	273/410
15					244/610	259/555	275/515	291/485	307/460
17						289/620	307/575	324/540	340/510
19							339/635	354/590	373/580

APPROACH	68°F WET BULB								
	RANGE								
	4	6	8	10	12	14	16	18	20
5	66/495	77/385	85/325	97/290	106/285				
7	85/640	98/490	109/410	120/360	132/330	142/305	152/285	162/270	173/260
9		119/595	132/495	145/435	156/390	168/360	179/335	192/320	197/295
11			155/580	168/505	182/455	194/415	208/390	219/365	233/350
13				193/580	208/520	222/475	235/440	249/415	263/395
15					234/585	250/535	264/495	279/465	293/440
17						278/595	293/550	309/515	323/485
19							323/605	339/565	357/535

FG2011 Cooling Tower Performance

Based on CTI Bluebook Curves and Clean, Unfouled Fill

80°F WET BULB		TONS/GPM						
		RANGE						
APPROACH	6	8	10	12	14	16	18	20
5	117/583	132/496	148/443	163/408	177/379	190/356	203/338	218/327
7	148/741	166/624	185/554	201/502	218/467	233/437	248/414	265/397
9		201/752	220/659	238/595	256/548	274/513	290/483	307/461
11				275/688	297/636	314/589	336/560	354/531
13					335/717	358/671	378/630	401/601
15						401/752	424/706	447/671

78°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	96/717	112/560	127/478	142/426	156/391	169/362	183/344	196/327	206/309
7		142/712	159/596	175/525	191/478	207/443	224/420	238/397	253/379
9			191/717	210/630	228/572	245/525	261/490	280/467	295/443
11				245/735	264/659	283/607	302/566	319/531	338/507
13					301/752	321/688	342/642	361/601	381/572
15							382/717	408/677	428/642
17								448/747	471/706

76°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	92/688	107/537	121/455	138/408	149/373	161/344	174/327	185/309	199/298
7		135/677	153/572	167/502	184/461	199/426	212/397	227/379	241/362
9			183/688	200/601	217/542	234/502	252/473	268/443	284/426
11				233/700	252/630	270/578	289/542	304/507	323/484
13					287/717	308/659	326/612	347/578	365/548
15						346/741	367/688	388/647	408/612
17								430/717	451/677

74°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	88/659	103/513	117/437	128/385	142/356	155/333	165/309	179/298	191/286
7		129/647	146/548	161/484	175/437	190/408	202/379	217/362	229/344
9			176/659	193/578	208/519	223/478	239/449	256/426	268/402
11				224/671	243/607	259/554	277/519	294/490	311/467
13					275/688	294/630	314/589	332/554	350/525
15						329/706	351/659	371/618	389/583
17							389/729	410/683	431/647
19								451/752	475/712

72°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	84/630	98/490	110/414	124/373	135/338	147/315	159/298	168/280	179/268
7		125/624	140/525	154/461	168/420	182/391	193/362	206/344	222/333
9		152/758	168/630	185/554	198/496	215/461	230/432	245/408	257/385
11			196/735	214/642	231/578	248/531	265/496	280/467	295/443
13				245/735	264/659	283/607	299/560	319/531	335/502
15					296/741	316/677	336/630	353/589	373/560
17						351/752	373/700	392/653	412/618
19								434/723	455/683

70°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	80/601	93/467	106/397	119/356	131/327	141/303	153/286	161/268	
7		119/596	134/502	148/443	161/402	174/373	187/350	200/333	210/315
9		145/723	160/601	175/525	191/478	204/437	218/408	235/391	245/368
11			188/706	204/612	222/554	237/507	252/473	269/449	284/426
13				235/706	252/630	270/578	286/537	304/507	319/478
15					285/712	302/647	321/601	340/566	358/537
17						337/723	358/671	378/630	397/595
19							395/741	413/688	435/653

68°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	77/578	90/449	101/379	113/338	124/309	133/286	146/274		
7	100/747	114/572	127/478	140/420	154/385	168/356	178/333	189/315	202/303
9		139/694	154/578	169/507	182/455	196/420	209/391	224/373	237/356
11			181/677	196/589	212/531	226/484	243/455	256/426	272/408
13				226/677	243/607	259/554	274/513	290/484	307/461
15					273/683	291/624	308/578	325/542	342/513
17						324/694	342/642	361/601	377/566
19							377/706	395/659	416/624

FG2015 Cooling Tower Performance

Based on CTI Bluebook Curves and Clean, Unfouled Fill

80°F WET BULB		TONS/GPM						
		RANGE						
APPROACH	6	8	10	12	14	16	18	20
5	133/667	151/587	169/507	187/467	202/433	217/407	232/387	249/373
7		190/713	211/633	229/573	249/533	267/500	284/473	302/453
9			251/753	272/680	293/627	313/587	332/553	351/527
11				315/787	339/727	359/673	384/640	405/607
13						409/767	432/720	458/687
15								511/767

78°F WET BULB		TONS/GPM						
		RANGE						
APPROACH	6	8	10	12	14	16	18	20
5	128/640	146/547	162/487	179/447	193/413	210/393	224/373	235/353
7		181/680	200/600	219/547	237/507	256/480	272/453	289/433
9			240/720	261/653	280/600	299/560	320/533	338/507
11				301/753	323/689	345/647	364/607	387/580
13					367/787	391/733	412/687	435/653
15							464/773	489/733

76°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	105/787	123/613	139/520	156/467	171/427	183/393	199/373	212/353	227/340
7		154/773	174/653	191/573	211/527	227/487	242/453	260/433	276/413
9			210/787	229/687	248/620	267/573	288/540	304/507	326/487
11				267/800	288/720	308/660	331/620	348/580	369/553
13						351/753	373/700	396/660	418/627
15							420/787	444/740	467/700
17									515/773

74°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	100/753	117/587	133/500	147/440	163/407	177/380	188/353	204/340	218/327
7		148/740	167/627	184/553	200/500	218/467	231/433	248/413	262/393
9			201/753	220/680	237/593	255/547	274/513	292/487	307/460
11				266/767	277/693	295/633	316/593	336/560	355/533
13					315/787	336/720	359/673	380/633	400/600
15							402/753	424/707	445/667
17								468/780	493/740

72°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	96/720	112/580	126/473	142/427	155/387	168/360	181/340	192/320	205/307
7		143/713	160/600	178/527	192/480	209/447	220/413	236/393	253/380
9			192/720	211/633	227/567	246/527	263/493	280/467	293/440
11				244/733	264/660	283/607	302/567	320/533	338/507
13					301/753	323/693	341/640	364/607	382/573
15						361/773	384/720	404/673	427/640
17							427/800	448/747	471/707
19									520/780

70°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	92/687	107/533	121/453	138/407	149/373	162/347	174/327	184/307	195/293
7		136/680	153/573	169/507	184/460	199/427	213/400	228/380	240/360
9			183/687	200/600	219/547	233/500	249/467	268/447	280/420
11				233/700	253/633	271/580	288/540	308/513	325/487
13					288/720	308/660	327/613	348/580	365/547
15						345/740	366/687	388/647	409/613
17							409/767	432/720	453/680
19								472/787	498/747

68°F WET BULB		TONS/GPM							
		RANGE							
APPROACH	4	6	8	10	12	14	16	18	20
5	88/660	103/513	115/433	129/387	141/353	153/327	167/313	176/293	187/280
7		131/653	148/547	160/480	176/440	190/407	203/380	216/360	231/347
9		159/793	176/660	193/580	208/520	224/480	238/447	256/427	271/407
11			206/773	224/673	243/607	258/553	277/520	292/487	311/467
13				258/773	277/693	295/633	313/587	332/553	351/527
15					312/780	333/713	352/660	372/620	391/587
17						370/793	391/733	412/687	431/647
19								452/753	475/713

State and City	Dry-Bulb [°F]	Wet-Bulb [°F]	Dry-Bulb [°C]	Wet-Bulb [°C]
ALABAMA				
Anniston	95°F	78°F	35.0°C	25.5°C
Birmingham	95°F	78°F	35.0°C	25.5°C
Mobile	95°F	80°F	35.0°C	26.7°C
Montgomery	95°F	78°F	35.0°C	25.5°C
ARIZONA				
Flagstaff	90°F	85°F	32.2°C	18.3°C
Phoenix	105°F	76°F	40.5°C	24.4°C
Tucson	105°F	72°F	40.5°C	22.2°C
Winslow	100°F	70°F	37.8°C	21.1°C
Yuma	110°F	78°F	43.3°C	25.5°C
ARKANSAS				
Fort Smith	95°F	76°F	35.0°C	24.4°C
Little Rock	95°F	78°F	35.0°C	25.5°C
CALIFORNIA				
Bakersfield	105°F	70°F	40.5°C	21.1°C
El Centro	110°F	78°F	43.3°C	25.5°C
Eureka	90°F	65°F	32.2°C	18.3°C
Fresno	105°F	74°F	40.5°C	23.3°C
Laguna Beach	85°F	70°F	29.4°C	21.1°C
Long Beach	90°F	70°F	32.2°C	21.1°C
Los Angeles	90°F	70°F	32.2°C	21.1°C
Oakland	85°F	65°F	29.4°C	18.3°C
Montague	85°F	65°F	29.4°C	18.3°C
Pasadena	95°F	70°F	35.0°C	21.1°C
Red Bluff	100°F	70°F	37.8°C	21.1°C
Sacramento	100°F	72°F	37.8°C	22.2°C
San Bernadino	105°F	72°F	40.5°C	22.2°C
San Diego	85°F	68°F	29.4°C	20.0°C
San Francisco	85°F	65°F	29.4°C	18.3°C
San Jose	91°F	70°F	32.8°C	21.1°C
Williams	91°F	70°F	32.8°C	21.1°C
COLORADO				
Denver	95°F	64°F	35.0°C	17.8°C
Durango	95°F	65°F	35.0°C	18.3°C
Fort Collins	92°F	64°F	33.3°C	17.8°C
Grand Junction	95°F	65°F	35.0°C	18.3°C
Pueblo	95°F	65°F	35.0°C	18.3°C
CONNECTICUT				
Bridgeport	95°F	75°F	35.0°C	23.9°C
Hartford	93°F	75°F	33.9°C	23.9°C
New Haven	95°F	75°F	35.0°C	23.9°C
Waterbury	92°F	77°F	33.3°C	25.0°C
DELAWARE				
Wilmington	95°F	78°F	35.0°C	25.5°C
DISTRICT OF COLUMBIA				
Washington	95°F	78°F	35.0°C	25.5°C
FLORIDA				
Apalachicola	95°F	80°F	35.0°C	26.7°C
Jacksonville	95°F	78°F	35.0°C	25.5°C
Key West	98°F	78°F	36.7°C	25.5°C
Miami	91°F	79°F	32.8°C	26.1°C
Pensacola	95°F	78°F	35.0°C	25.5°C
Tampa	95°F	78°F	35.0°C	25.5°C
Tallahassee	96°F	80°F	35.6°C	26.7°C
GEORGIA				
Atlanta	95°F	76°F	35.0°C	24.4°C
Augusta	98°F	76°F	36.7°C	24.4°C
Brunswick	95°F	78°F	35.0°C	25.5°C
Columbus	98°F	76°F	36.7°C	24.4°C
Macon	95°F	78°F	35.0°C	25.5°C
Savannah	95°F	78°F	35.0°C	25.5°C
IDAHO				
Boise	95°F	65°F	35.0°C	18.3°C
Lewiston	95°F	65°F	35.0°C	18.3°C
Pocatello	95°F	65°F	35.0°C	18.3°C
Twin Falls	96°F	68°F	35.0°C	20.0°C
ILLINOIS				
Cairo	98°F	78°F	36.7°C	25.5°C
Chicago	95°F	78°F	35.0°C	25.5°C
Danville	96°F	79°F	35.6°C	26.1°C

State and City	Dry-Bulb [°F]	Wet-Bulb [°F]	Dry-Bulb [°C]	Wet-Bulb [°C]
Moline	96°F	76°F	35.6°C	24.4°C
Peoria	96°F	76°F	35.6°C	24.4°C
Springfield	98°F	77°F	36.7°C	25.0°C
INDIANA				
Evansville	95°F	78°F	35.0°C	25.5°C
Fort Wayne	95°F	75°F	35.0°C	23.9°C
Indianapolis	95°F	76°F	33.0°C	24.4°C
South Bend	92°F	78°F	33.3°C	25.5°C
Terre Haute	95°F	78°F	35.0°C	25.5°C
IOWA				
Cedar Rapids	92°F	78°F	33.3°C	25.5°C
Davenport	95°F	78°F	35.0°C	25.5°C
Des Moines	95°F	78°F	35.0°C	25.5°C
Dubuque	95°F	78°F	35.0°C	25.5°C
Fort Dodge	95°F	78°F	35.0°C	25.5°C
Keokuk	95°F	78°F	35.0°C	25.5°C
Sioux City	95°F	78°F	35.0°C	25.5°C
Waterloo	92°F	78°F	33.3°C	25.5°C
KANSAS				
Concordia	95°F	78°F	35.0°C	25.5°C
Dodge City	95°F	78°F	35.0°C	25.5°C
Salina	101°F	78°F	38.3°C	25.5°C
Topeka	100°F	78°F	37.8°C	25.5°C
Wichita	100°F	75°F	37.8°C	23.9°C
KENTUCKY				
Lexington	95°F	78°F	35.0°C	25.5°C
Louisville	95°F	78°F	35.0°C	25.5°C
LOUISIANA				
Alexandria	97°F	80°F	36.1°C	26.7°C
New Orleans	95°F	80°F	35.0°C	26.7°C
Shreveport	100°F	78°F	37.8°C	25.5°C
MAINE				
Augusta	90°F	73°F	32.3°C	22.8°C
Bangor	90°F	73°F	32.2°C	22.8°C
Bar Harbor	90°F	73°F	32.2°C	22.8°C
Belfast	90°F	70°F	32.2°C	21.1°C
Eastport	90°F	70°F	32.2°C	22.8°C
Presque Isle	90°F	74°F	32.2°C	22.8°C
Portland	90°F	73°F	32.2°C	22.8°C
Rumford	90°F	73°F	32.2°C	22.8°C
MARYLAND				
Baltimore	95°F	78°F	35.0°C	25.5°C
Cambridge	95°F	78°F	35.0°C	25.5°C
Cumberland	95°F	75°F	35.0°C	23.9°C
MASSACHUSETTS				
Amherst	92°F	75°F	33.3°C	23.9°C
Boston	92°F	75°F	33.3°C	23.9°C
Fall River	90°F	75°F	32.2°C	23.9°C
Fitchburg	93°F	75°F	33.9°C	23.9°C
Lowell	93°F	75°F	33.9°C	23.9°C
Nantucket	95°F	75°F	35.0°C	23.9°C
Springfield	83°F	75°F	33.9°C	23.9°C
Worcester	93°F	75°F	33.9°C	23.9°C
MICHIGAN				
Alpena	95°F	75°F	35.0°C	23.9°C
Big Rapids	95°F	75°F	35.0°C	23.9°C
Detroit	95°F	75°F	35.0°C	23.9°C
Escanaba	85°F	75°F	29.4°C	23.9°C
Grand Rapids	95°F	75°F	35.0°C	23.9°C
Flint	95°F	75°F	35.0°C	23.9°C
Kalamazoo	95°F	75°F	35.0°C	23.9°C
Lansing	95°F	75°F	35.0°C	23.9°C
Ludington	93°F	73°F	33.9°C	22.8°C
Marquette	93°F	73°F	33.9°C	22.8°C
Saginaw	95°F	75°F	35.0°C	23.9°C
MINNESOTA				
Alexandria	90°F	74°F	32.2°C	23.3°C
Duluth	93°F	73°F	33.9°C	22.8°C
Minneapolis	95°F	75°F	35.0°C	23.9°C
St. Cloud	90°F	75°F	32.2°C	23.9°C
St. Paul	95°F	75°F	35.0°C	23.9°C
MISSISSIPPI				
Jackson	98°F	79°F	36.7°C	26.1°C

State and City	Dry-Bulb [°F]	Wet-Bulb [°F]	Dry-Bulb [°C]	Wet-Bulb [°C]
Meridian	95°F	79°F	35.0°C	26.1°C
Vicksburg	95°F	79°F	35.0°C	25.5°C
MISSOURI				
Columbia	100°F	78°F	37.8°C	25.5°C
Kansas City	100°F	78°F	37.8°C	24.4°C
Kirksville	97°F	79°F	36.1°C	26.1°C
St. Louis	95°F	78°F	35.0°C	25.5°C
St. Joseph	97°F	79°F	36.1°C	26.1°C
Springfield	97°F	78°F	36.1°C	25.5°C
MONTANA				
Billings	90°F	66°F	32.2°C	18.9°C
Butte	88°F	64°F	31.1°C	17.8°C
Great Falls	95°F	65°F	35.0°C	18.3°C
Havre	95°F	70°F	35.0°C	21.1°C
Helena	95°F	67°F	35.0°C	19.4°C
Kalispell	95°F	65°F	35.0°C	18.3°C
Miles City	95°F	68°F	35.0°C	20.0°C
Missoula	95°F	66°F	35.0°C	18.9°C
NEBRASKA				
Grand Island	95°F	78°F	35.0°C	25.5°C
Lincoln	95°F	78°F	35.0°C	25.5°C
Norfolk	95°F	78°F	35.0°C	25.5°C
North Platte	95°F	78°F	35.0°C	25.5°C
Omaha	95°F	78°F	35.0°C	25.5°C
Valentine	95°F	78°F	35.0°C	25.5°C
York	95°F	78°F	35.0°C	25.5°C
NEVADA				
Las Vegas	115°F	75°F	46.1°C	23.9°C
Reno	95°F	65°F	35.0°C	18.3°C
Tonopah	95°F	65°F	35.0°C	18.3°C
Winnemucca	95°F	65°F	35.0°C	18.3°C
NEW HAMPSHIRE				
Berlin	87°F	73°F	30.6°C	22.8°C
Concord	90°F	73°F	32.2°C	22.8°C
Keene	90°F	73°F	32.2°C	22.8°C
Manchester	90°F	73°F	32.2°C	22.8°C
Portsmouth	90°F	73°F	32.2°C	22.8°C
NEW JERSEY				
Atlantic City	95°F	78°F	35.0°C	25.5°C
Bloomfield	95°F	75°F	35.0°C	23.9°C
Camden	95°F	75°F	35.0°C	23.9°C
East Orange	95°F	75°F	35.0°C	23.9°C
Jersey City	95°F	75°F	35.0°C	23.9°C
Newark	95°F	75°F	35.0°C	23.9°C
Paterson	95°F	75°F	35.0°C	23.9°C
Sandy Hook	95°F	75°F	35.0°C	23.9°C
Trenton	95°F	78°F	35.0°C	25.5°C
NEW MEXICO				
Albuquerque	96°F	70°F	35.0°C	21.1°C
Roswell	95°F	70°F	35.0°C	21.1°C
Santa Fe	90°F	65°F	32.2°C	18.3°C
NEW YORK				
Albany	93°F	75°F	33.9°C	23.9°C
Binghamton	96°F	75°F	35.0°C	23.9°C
Buffalo	93°F	73°F	33.9°C	22.8°C
Canton	90°F	73°F	32.2°C	22.8°C
Cortland	90°F	73°F	32.2°C	22.8°C
Glens Falls	90°F	73°F	32.2°C	22.8°C
Ithaca	92°F	75°F	33.2°C	23.9°C
Jamestown	90°F	75°F	32.2°C	22.8°C
Lake Placid	90°F	75°F	32.2°C	22.8°C
New York City	95°F	75°F	35.0°C	23.9°C
Ogdensburg	95°F	75°F	35.0°C	23.9°C
Oneonta	90°F	75°F	32.2°C	23.9°C
Oswego	93°F	73°F	33.9°C	22.8°C
Rochester	95°F	75°F	35.0°C	23.9°C
Schenectady	93°F	75°F	33.9°C	23.9°C
Syracuse	93°F	75°F	33.9°C	23.9°C
Watertown	90°F	75°F	32.2°C	23.9°C
NORTH CAROLINA				
Asheville	93°F	75°F	33.9°C	23.9°C
Charlotte	95°F	78°F	35.0°C	25.5°C
Greensboro	95°F	78°F	35.0°C	25.5°C
Raleigh	95°F	78°F	35.0°C	25.5°C

State and City	Dry-Bulb [°F]	Wet-Bulb [°F]	Dry-Bulb [°C]	Wet-Bulb [°C]
Wilmington	95°F	78°F	35.0°C	25.5°C
NORTH DAKOTA				
Bismarck	95°F	73°F	35.0°C	22.8°C
Devils Lake	95°F	70°F	35.0°C	21.1°C
Fargo	95°F	75°F	35.0°C	23.9°C
Grand Forks	95°F	75°F	35.0°C	23.9°C
Williston	95°F	73°F	35.0°C	22.8°C
OHIO				
Akron	95°F	75°F	35.0°C	23.9°C
Cincinnati	95°F	78°F	35.0°C	25.5°C
Cleveland	95°F	75°F	35.0°C	23.9°C
Columbus	95°F	76°F	35.0°C	24.4°C
Dayton	95°F	78°F	35.0°C	25.5°C
Lima	95°F	78°F	35.0°C	25.5°C
Sandusky	95°F	75°F	35.0°C	23.9°C
Toledo	95°F	75°F	35.0°C	23.9°C
Youngstown	95°F	75°F	35.0°C	23.9°C
OKLAHOMA				
Ardmore	101°F	78°F	38.3°C	25.5°C
Barlesville	101°F	78°F	38.3°C	25.5°C
Oklahoma City	101°F	77°F	38.3°C	25.0°C
Tulsa	101°F	77°F	38.3°C	25.0°C
OREGON				
Baker	90°F	66°F	32.2°C	18.9°C
Eugene	90°F	68°F	32.2°C	20.0°C
Medford	95°F	70°F	35.0°C	21.1°C
Pendleton	95°F	70°F	35.0°C	21.1°C
Portland	90°F	68°F	32.2°C	20.0°C
Roseburg	90°F	66°F	32.2°C	18.9°C
PENNSYLVANIA				
Altoona	95°F	75°F	35.0°C	23.9°C
Bethlehem	95°F	75°F	35.0°C	23.9°C
Erie	93°F	75°F	33.9°C	23.9°C
Harrisburg	95°F	75°F	35.0°C	23.9°C
New Castle	93°F	75°F	33.9°C	23.9°C
Oil City	95°F	75°F	35.0°C	23.9°C
Philadelphia	95°F	78°F	35.0°C	25.5°C
Pittsburg	95°F	75°F	35.0°C	23.9°C
Reading	95°F	75°F	35.0°C	23.9°C
Scranton	95°F	75°F	35.0°C	23.9°C
Warren	93°F	75°F	33.9°C	23.9°C
Williamsport	93°F	76°F	33.9°C	24.4°C
RHODE ISLAND				
Block Island	95°F	75°F	35.0°C	23.9°C
Pawtucket	93°F	75°F	33.9°C	23.9°C
Providence	93°F	75°F	33.9°C	23.9°C
SOUTH CAROLINA				
Charleston	95°F	78°F	35.0°C	25.5°C
Columbia	95°F	75°F	35.0°C	23.9°C
Greenville	95°F	76°F	35.0°C	24.4°C
SOUTH DAKOTA				
Huron	95°F	75°F	35.0°C	23.9°C
Rapid City	95°F	70°F	35.0°C	21.1°C
Sioux Falls	95°F	75°F	35.0°C	23.9°C
TENNESSEE				
Chattanooga	95°F	76°F	35.0°C	24.4°C
Johnson City	95°F	76°F	35.0°C	24.4°C
Knoxville	95°F	75°F	35.0°C	23.9°C
Memphis	95°F	78°F	35.0°C	25.5°C
Nashville	95°F	78°F	35.0°C	25.5°C
TEXAS				
Abiene	100°F	74°F	37.8°C	23.3°C
Amarillo	100°F	72°F	37.8°C	22.2°C
Austin	100°F	78°F	37.8°C	25.5°C
Brownsville	95°F	80°F	35.0°C	26.7°C
Corpus Christi	95°F	80°F	35.0°C	26.7°C
Dallas	100°F	78°F	37.8°C	25.5°C
Del Rio	100°F	78°F	37.8°C	25.5°C
El Paso	100°F	69°F	37.8°C	20.8°C
Fort Worth	100°F	78°F	37.8°C	25.5°C
Galveston	95°F	80°F	35.0°C	26.7°C
Houston	95°F	80°F	35.0°C	26.7°C
Palestine	100°F	78°F	37.8°C	25.5°C

State and City	Dry-Bulb [°F]	Wet-Bulb [°F]	Dry-Bulb [°C]	Wet-Bulb [°C]
Port Arthur	95°F	79°F	35.0°C	26.1°C
San Antonio	100°F	78°F	37.8°C	25.5°C
UTAH				
Modena	95°F	65°F	35.0°C	18.3°C
Logan	95°F	66°F	35.0°C	18.9°C
Ogden	95°F	66°F	35.0°C	18.9°C
Salt Lake City	95°F	65°F	35.0°C	18.3°C
VERMONT				
Bennington	90°F	73°F	32.2°C	22.8°C
Burlington	90°F	73°F	32.2°C	22.8°C
Rutland	90°F	73°F	32.2°C	22.8°C
VIRGINIA				
Cape Henry	95°F	78°F	35.0°C	25.5°C
Lynchburg	95°F	75°F	35.0°C	23.9°C
Norfolk	95°F	78°F	35.0°C	25.5°C
Richmond	95°F	78°F	35.0°C	25.5°C
Roanoke	95°F	76°F	35.0°C	24.4°C
WASHINGTON				
North Head	85°F	65°F	29.4°C	18.3°C
Seattle	85°F	65°F	29.4°C	18.3°C
Spokane	93°F	66°F	33.9°C	18.3°C
Tacoma	85°F	64°F	29.4°C	17.8°C
Tatoosh Island	85°F	64°F	29.4°C	17.8°C
Walla Walla	95°F	65°F	35.0°C	18.3°C
Wenatchee	90°F	65°F	32.2°C	18.3°C
Yakima	95°F	65°F	35.0°C	18.3°C
WEST VIRGINIA				
Bluefield	95°F	75°F	35.0°C	23.9°C
Charleston	95°F	75°F	35.0°C	23.9°C
Elkins	95°F	75°F	35.0°C	23.9°C
Huntington	95°F	76°F	35.0°C	23.9°C
Martinsburg	95°F	76°F	35.0°C	24.4°C
Parkersburg	95°F	75°F	35.0°C	24.4°C
Wheeling	95°F	75°F	35.0°C	23.9°C
WISCONSIN				
Ashland	80°F	75°F	32.2°C	23.9°C
Eau Claire	95°F	75°F	35.0°C	23.9°C
Green Bay	95°F	75°F	35.0°C	23.9°C
La Crosse	95°F	75°F	35.0°C	23.9°C
Madison	95°F	75°F	35.0°C	23.9°C
Milwaukee	95°F	75°F	35.0°C	23.9°C
WYOMING				
Casper	95°F	65°F	35.0°C	18.3°C
Cheyenne	95°F	65°F	35.0°C	18.3°C
Lander	95°F	65°F	35.0°C	18.3°C
Sheridan	95°F	65°F	35.0°C	18.3°C
CANADA				
ALBERTA				
Calgary	90°F	66°F	32.2°C	18.9°C
Edmonton	85°F	68°F	32.2°C	20.0°C
Grand Prairie	90°F	66°F	29.4°C	18.9°C
Lethbridge	90°F	68°F	32.2°C	20.0°C
McMurray	80°F	67°F	32.2°C	19.4°C
Medicine Hat	90°F	65°F	32.2°C	18.3°C
BRITISH COLUMBIA				
Estevan point	90°F	65°F	32.2°C	18.3°C
Fort Nelson	90°F	65°F	32.2°C	18.3°C
Penticton	91°F	70°F	32.8°C	21.1°C
Prince George	90°F	65°F	32.2°C	18.3°C
Prince Rupert	80°F	62°F	26.7°C	16.7°C
Vancouver	80°F	67°F	26.7°C	19.4°C
Victoria	80°F	65°F	26.7°C	18.3°C
MANITOBA				
Brandon	90°F	71°F	32.2°C	21.7°C
Churchill	80°F	65°F	26.7°C	18.3°C
The Pas	90°F	70°F	32.2°C	21.7°C
Winnipeg	90°F	71°F	32.2°C	21.7°C

Province and City	Dry-Bulb [°F]	Wet-Bulb [°F]	Dry-Bulb [°C]	Wet-Bulb [°C]
NEW BRUNSWICK				
Campbellton	90°F	75°F	32.2°C	23.9°C
Fredericton	90°F	75°F	32.2°C	23.9°C
Moncton	87°F	73°F	30.6°C	22.8°C
Saint John	85°F	70°F	29.4°C	21.8°C
NEWFOUNDLAND				
Corner Brook	85°F	70°F	29.4°C	21.1°C
Gander	85°F	70°F	29.4°C	21.1°C
Goose Bay	85°F	70°F	29.4°C	21.1°C
Saint Johns	80°F	70°F	26.7°C	21.1°C
NORTHWEST TERRITORIES				
Aklavik	75°F	62°F	23.9°C	16.7°C
Fort Norman	75°F	62°F	23.9°C	16.7°C
Frobisher	75°F	62°F	23.9°C	16.7°C
Resolute	75°F	62°F	23.9°C	16.7°C
Yellowknife	75°F	62°F	23.9°C	16.7°C
NOVA SCOTIA				
Halifax	90°F	75°F	32.2°C	23.9°C
Sydney	85°F	70°F	29.4°C	21.1°C
Yarmouth	80°F	67°F	26.7°C	19.4°C
ONTARIO				
Fort William	85°F	70°F	29.4°C	21.1°C
Hamilton	90°F	75°F	32.2°C	23.9°C
Kapuskasing	85°F	72°F	29.4°C	22.2°C
Kingston	88°F	75°F	31.1°C	23.9°C
Kitchener	88°F	75°F	31.1°C	23.9°C
London	90°F	75°F	32.2°C	23.9°C
North Bay	87°F	72°F	30.6°C	22.2°C
Ottawa	90°F	75°F	32.2°C	23.9°C
Peterborough	90°F	75°F	32.2°C	23.9°C
Soix Lookout	90°F	75°F	32.2°C	23.9°C
Sudbury	90°F	75°F	32.2°C	23.9°C
Timmins	90°F	75°F	32.2°C	23.9°C
Toronto	93°F	75°F	33.9°C	23.9°C
Windsor	90°F	75°F	32.2°C	23.9°C
St. Sta. Marie	93°F	75°F	33.9°C	23.9°C
PRINCE EDWARD ISLAND				
Charlottetown	85°F	70°F	26.7°C	21.1°C
QUEBEC				
Montreal	90°F	75°F	32.2°C	23.9°C
Quebec City	90°F	75°F	32.2°C	23.9°C
Sherbrooke	87°F	75°F	30.6°C	23.9°C
Three Rivers	88°F	76°F	31.1°C	24.4°C
SAKATCHEWAN				
Prince Albert	88°F	72°F	31.1°C	22.2°C
Regina	90°F	71°F	32.2°C	21.7°C
Saskatoon	90°F	70°F	32.2°C	21.1°C
Swift Current	93°F	72°F	33.9°C	22.2°C
YUKON TERRITORY				
Dawson	79°F	62°F	26.1°C	16.7°C
Whitehorse	62°F	62°F	26.1°C	16.7°C
MEXICO				
Guadalajara	93°F	68°F	33.9°C	20.0°C
Merida	97°F	80°F	36.1°C	26.7°C
Mexico City	83°F	61°F	28.3°C	16.1°C
Monterrey	98°F	79°F	36.7°C	26.1°C
Vera Cruz	91°F	83°F	32.8°C	28.3°C

1% Wet Bulb
Design
Conditions

! ATTENTION!

Control of slime, algae and bacteria growth in Cooling Towers is *EXTREMELY IMPORTANT*

TREAT YOUR TOWER SYSTEM WITH CHEMICALS (MICROBIOCIDES) TO CONTROL MICROORGANISM GROWTH

- ☞ **Cooling towers and reservoir pump tanks are superb environments for microorganism growth. Warm water, organic debris and air encourage bacterial growth. Uncontrolled growth causes system problems [fouling and corrosion] and can spread bacterially transmitted diseases. Minimize slime growth and bacterial contamination to eliminate disease-causing bacteria.**
- ☞ **Properly used environmentally approved microbicide will control system bacteria.**
- ☞ **Chemical treatments must be regularly monitored by qualified personnel.**
- ☞ **AEC, Inc. recommends use of EPA registered microbiocides on a regular basis.**
- ☞ **AEC, Inc. *DOES NOT* recommend use of chlorine or backyard swimming pool chemicals. Discharge into a city sewer of such chemicals may violate local, state and/or federal laws.**

AEC, Inc. offers a full service water treatment program including chemicals, dispensing equipment, automatic bleed-off and monthly water analysis. Contact AEC, Inc. for more information.



Specifications

Materials of Construction

Shell – *Fiberglass Reinforced Polyester*
 Fan Blade – *Aluminum Fabrication*
 Fan Motor Support – *Galvanized, Mild Steel*
 Fill, Eliminator – *PVC*
 Louver Pack – *PVC*

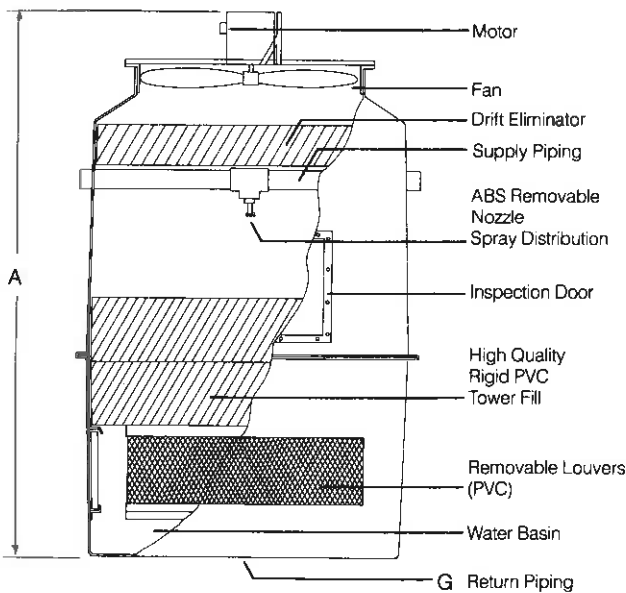
Nozzle – *ABS*
 Piping Assembly – *Schedule 80 PVC*
 Fasteners – *Stainless Steel*
 Base Assembly – *Galvanized Brackets Standard*
 – *Fiberglass Channel Optional*

Model Number	Cooling Capacity Tons	Number of Nozzles	Rating Conditions	Amp Draw 460-3-60 Name Plate	Fan Motor HP	Fan Motor RPM	Nominal Air Flow CFM	Shipping Weight Lbs.	Operating Weight Lbs.
FG 2003	50	1		4	2	1200	12000	600	1300
FG 2004	75	4	78°F Wet Bulb	8	5	1200	18000	750	1700
FG 2005	100	4	Water Temperature	5	5	900	23500	1400	2900
FG 2007	125	4	95°F Entering	8	5	900	26000	1500	3200
FG 2009	150	4	85°F Leaving	12	7½	900	30000	1950	3800
FG 2011	175	4	Flow: 3 GPM/Ton	12	10	900	33000	2100	4400
FG 2015	200	4		22	15	900	43000	2600	5200

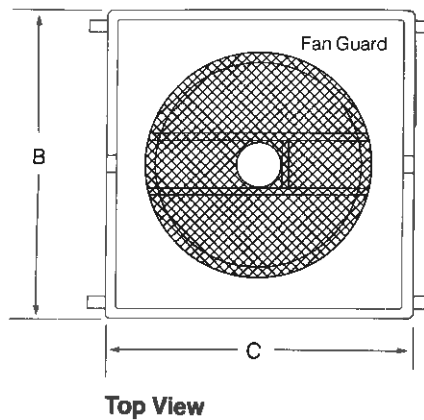
DIMENSIONS (INCHES)

	A	B [Ⓞ]	C [Ⓞ]	D	E	F	G
FG 2003	101	64	64	58	58	4	4
FG 2004	120	64	64	58	58	4	3
FG 2005	120	82	82	76	76	4	6
FG 2007	120	82	82	76	76	4	6
FG 2009	120	100	100	94	94	4	8
FG 2011	120	100	100	94	94	4	8
FG 2015	120	100	100	94	94	4	8

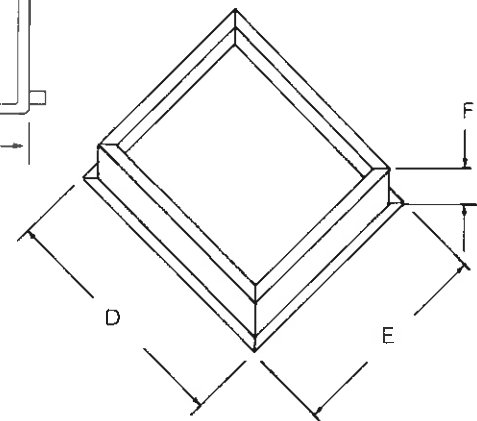
ⓄConsult factory for base bracket dimensions



Side View (Without standard brackets)



Top View



Optional Base



801 AEC DRIVE / WOOD DALE, ILLINOIS 60191-1198 USA
630 595-1060 / FAX 630 595-6641