



Engineering Brochure

CT-Model Cooling Towers



KR PRODUCTS Cooling Towers

Design Features:

The non-rusting FRP casing and basin, circular in shape, eliminates special installation requirements. Prevailing wind directions will not affect tower performance.

Casing:

Easy access through casing simplifies cleaning. Individual fiberglass panels are stainless steel bolted together for periodic wash down and general clean up. The CTS FRP cooling tower is designed for durability and long life even under the most severe environmental weather conditions.

Fan Blades:

Aerodynamically designed propeller type fan blades are used to conserve power and assure quiet operations. CTS models CT-8 through CT-30 feature a factory-balanced ABS plastic blade. CTS models CT-40 and above feature an all aluminum alloy adjustable fan.

Fan Drive:

CTS models CT-8 through CT-200 have direct drive fan motors. CTS models CT-225 and larger feature a unique belt drive, designed to reduce noise levels, with optional gear drives.

Water Distribution System:

CTS models CT-8 through CT-60 use an ABS plastic sprinkler with stainless steel shaft. CTS models CT-70 and above use an aluminum alloy sprinkler head. Both types of sprinkler head require little or no head pressure loss and minimum maintenance.

Inlet Louvers:

Non-rusting PVC plastic mesh provides easy access to sump while preventing foreign objects from entering water basin.

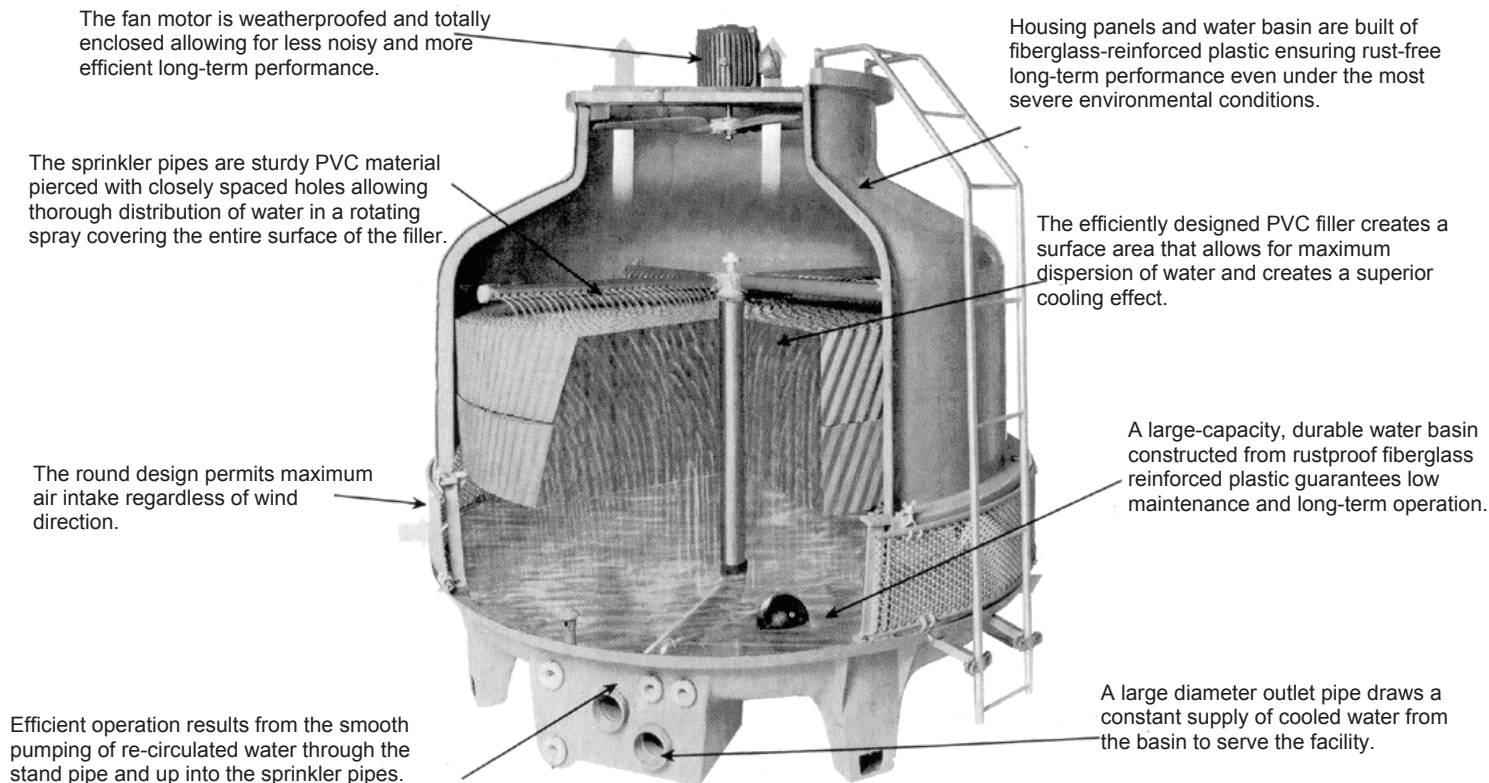
Ladder:

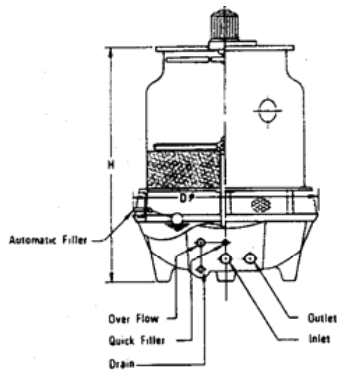
Provided for maintenance and inspection accessibility to fan and sprinkler systems. (Models CT-240 and above.)

Fill Material:

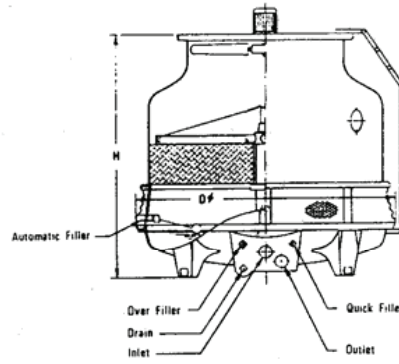
Honeycomb heat-embossed PVC is formed to permit high heat transfer efficiency. The CTS fill is suitable for operation with inlet water temperatures of 125°F. For higher temperatures, contact your representative for quote.

Engineered for Cost Efficiency & High Performance

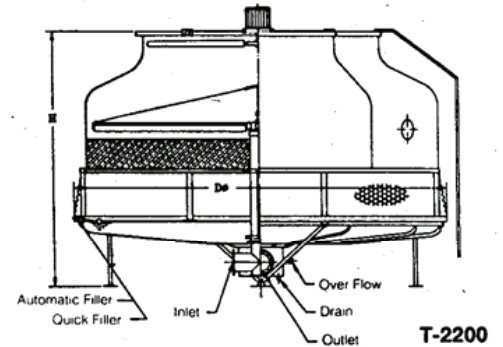




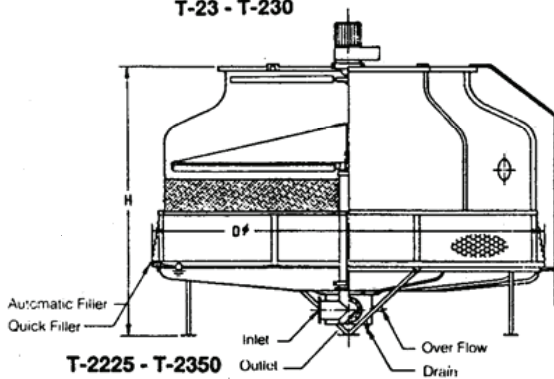
T-23 - T-230



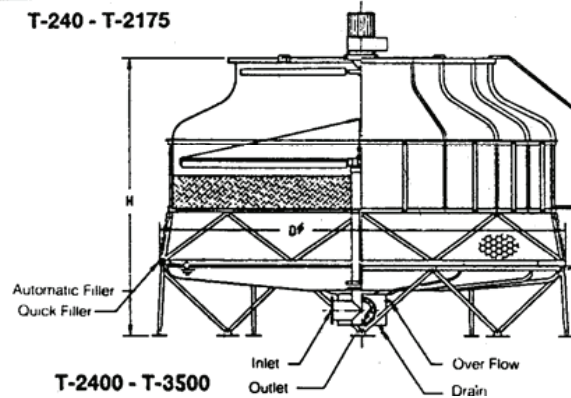
T-240 - T-2175



T-2200



T-2225 - T-2350



T-2400 - T-3500

PIPING:
T-23 - T-260
THREAD TYPE
T-270 - T-3500
IN & OUT: FLANGE TYPE
OTHERS: THREAD TYPE

P/N	MODEL	DIMENSIONS (IN.)				PIPE CONNECTIONS (IN.)				Q	FAN MOTOR	FAN DIAMETER	AIR VOLUME	NOMINAL WATER FLOW
		HEIGHT	DIA.	IN	OUT	O	Dr	FLOAT	(HP)		(INCH)	(CFM)	(GPM)	
03269	CT-8	56	33 1/2	1 1/2	1 1/2	1	3/4	1/2	-	1/6 *	19 1/2	2648	23	
00748	CT-10	54	41 3/4	1 1/2	1 1/2	1	3/4	1/2	-	1/4 *	26 3/8	3531	30	
00749	CT-15	59	46	2	2	1	1	1/2	-	1/4 *	26 3/8	4767	44	
00750	CT-20	63	54 3/8	2	2	1	1	1/2	-	1/2 **	30 1/4	6356	58	
03097	CT-25	70 15/16	54 3/8	2 1/2	2 1/2	1	1	1/2	-	3/4 ***	30 1/4	7000	73	
00753	CT-30	68 3/8	62 1/4	2 1/2	2 1/2	1	1	1/2	-	1 ***	30 1/4	8100	88	
03108	CT-40	74 1/2	71 5/8	2 1/2	2 1/2	1	1	3/4	-	1 1/2***	38 1/4	9800	118	
03109	CT-50	74 1/2	78 3/4	3	3	1	1	3/4	-	1 1/2***	38 1/4	11500	148	
03110	CT-60	74 11/16	78 3/4	3	3	1	1	3/4	-	1 1/2***	46	14700	177	
03111	CT-70	79 3/8	85 5/8	4	4	1	1	3/4	-	1 1/2***	46	17500	207	
03112	CT-80	79 3/8	85 5/8	4	4	1	1	3/4	-	2 ***	46	18900	237	
03113	CT-100	85 1/16	104 3/8	4	4	1	1	1	-	3 ***	57 7/8	24500	295	
03114	CT-125	87	120 1/8	5	5	2	1	1	-	3 ***	57 7/8	29060	369	
03115	CT-150	90	130	5	5	2	2	1	-	5 ***	68 7/8	33260	446	
05236	CT-175	97 7/8	130	5	5	2	2	1	-	5 ***	68 7/8	40250	518	
05237	CT-200	117 3/4	148 3/8	6	6	2	2	1 1/4	1 1/4	5 ***	68 7/8	43760	592	
05238	CT-225	125 5/8	148 3/8	6	6	2	2	1 1/4	1 1/4	7 1/2***	93	61270	656	
05239	CT-250	125 5/8	148 3/8	8	8	2	2	1 1/4	1 1/4	7 1/2***	93	61270	737	
05240	CT-300	131 7/8	174 3/4	8	8	2	2	1 1/4	1 1/4	10 ***	93	77020	883	
05241	CT-350	133 1/2	188 5/8	8	8	2	2	1 1/4	1 1/4	10 ***	93	77020	1036	
05242	CT-400	153 1/8	203 7/8	8	8	4	2	2	2	15 ***	117	91030	1190	
05243	CT-500	154 11/16	219 5/8	10	10	4	2	2	2	15 ***	117	91030	1505	
05244	CT-600	171 5/8	259 7/8	10	10	4	2	2	2	20 ***	133 1/8	125000	1777	
05245	CT-700	181 5/16	259 7/8	10	10	4	2	2	2	20 ***	133 1/8	125000	2101	
05246	CT-800	194 11/16	299 1/4	12	12	4	3	2	2	30 ***	141	175000	2370	
05247	CT-1000	202 1/2	299 1/4	12	12	4	3	2	2	30 ***	141	175000	3011	

Electrical specifications:

*110/220/1/60, 220/3/60,

** 110/220/1/60, 220/440/3/60,

***220/440/3/60

NEMA Tri-Voltage 208/230/460/3/60 are also available on request.

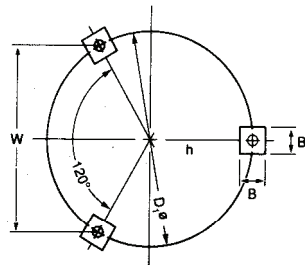
Recommended Concrete Base of Tower Support Stand

P/N	MODEL	WEIGHT (LBS.)		DIMENSIONS (IN.)								ANCHOR BOLT		QTY (PCS.)	PUMP HEAD (FT.)
		DRY	OPERATING	D1	W	B	A	h	h'	C	D2	SIZE (INCH)	LENGTH(INCH)		
003269	CT-8	93	262	21 5/8	18 3/4	8		6				1/2	4 3/4	3	5
000748	CT-10	123	443	29 1/2	25 5/8	8		6				1/2	4 3/4	3	5
00749	CT-15	139	536	34 5/8	30	8		6				1/2	4 3/4	3	5.3
000750	CT-20	190	719	44	38 1/4	8		6				1/2	4 3/4	3	5.6
003097	CT-25	227	887	44	38 1/4	8		6				1/2	4 3/4	3	5.6
00753	CT-30	253	1074	52 1/2	37	8		6				1/2	4 3/4	4	6
003108	CT-40	369	1133	57 7/8	40 7/8	10		8				1/2	4 3/4	4	6.6
003109	CT-50	435	1313	66 1/8	46 3/4	10		8				1/2	4 3/4	4	6.6
003110	CT-60	504	1472	66 1/8	46 3/4	10		8				1/2	4 3/4	4	6.6
003111	CT-70	610	1555	69 3/8	34 1/2	10		8	9 1/2	10		1/2	4 3/4	5	6.6
003112	CT-80	642	1588	69 3/8	34 1/2	10		8	9 1/2	10		1/2	4 3/4	5	6.6
003113	CT-100	887	2361	92 1/2	46 1/4	12		12	14	12		5/8	8	5	8.2
003114	CT-125	1025	2983	103 1/8	51 1/2	12		12	14	12		5/8	8	5	10
003115	CT-150	1375	5731	112 1/2	56 1/4	12		12	13 1/2	16		5/8	8	5	10
005236	CT-175	1569	5887	112 1/2	56 1/4	12		12	13 1/2	16		5/8	8	5	11
005237	CT-200	1914	7612	132	93 3/8	12	5 1/8	12	16	23		5/8	8	8	11
005238	CT-225	2112	7744	132	93 3/8	12	5 1/8	12	16	23		5/8	8	8	11
005239	CT-250	2266	7854	132	93 3/8	12	5 1/8	12	16	23		5/8	8	8	12
005240	CT-300	2823	9995	156 1/8	110 3/8	12	5 1/2	12	16	23		5/8	8	8	12
005241	CT-350	2996	10164	169 1/8	119 5/8	12	5 1/2	12	16	23		5/8	8	8	12
00542	CT-400	4776	14984	200 3/4	100 3/8	20	5 1/2	12	16	31 1/2	114 1/4	3/4	8	12	13.2
005243	CT-500	5342	15550	216 1/2	108 1/4	20	5 1/2	12	16	31 1/2	122	3/4	8	12	13.2
005244	CT-600	7401	23637	255 1/8	97 5/8	20	5 1/2	12	16	31 1/2	141 3/4	3/4	8	16	16.5
005245	CT-700	7848	24127	255 1/8	97 5/8	20	5 1/2	12	16	31 1/2	141 3/4	3/4	8	16	18.2
005246	CT-800	9636	26356	295 1/4	113	20	5 1/2	12	16	31 1/2	163 1/2	3/4	8	16	20
005247	CT-1000	10199	27359	295 1/4	113	20	5 1/2	12	16	31 1/2	163 1/2	3/4	8	16	20

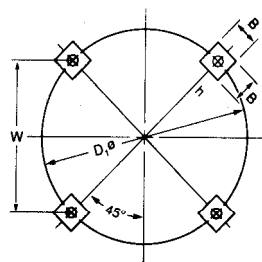
*Please refer to page 4 for drawings.

*Specifications subject to change without notice.

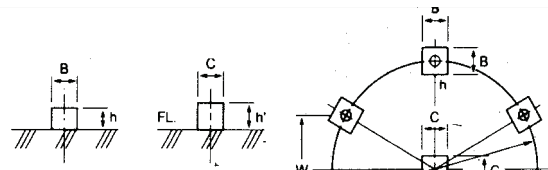
NOTE: TONS OF REFRIGERATION AT 250 BTU/MIN WITH 3GPM/TON.



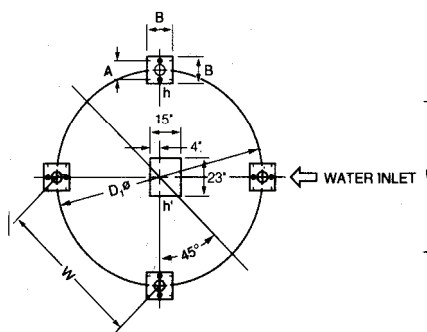
T-23 - T-225



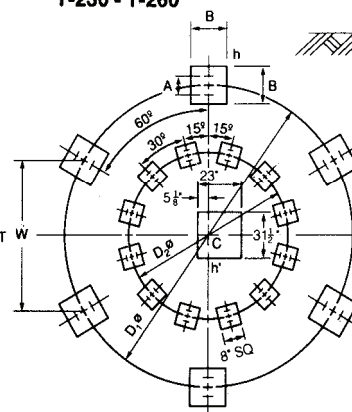
T-230 - T-260



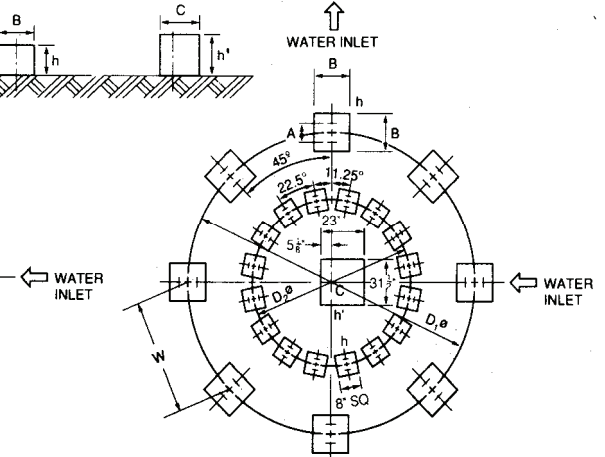
T-270 - T-2175



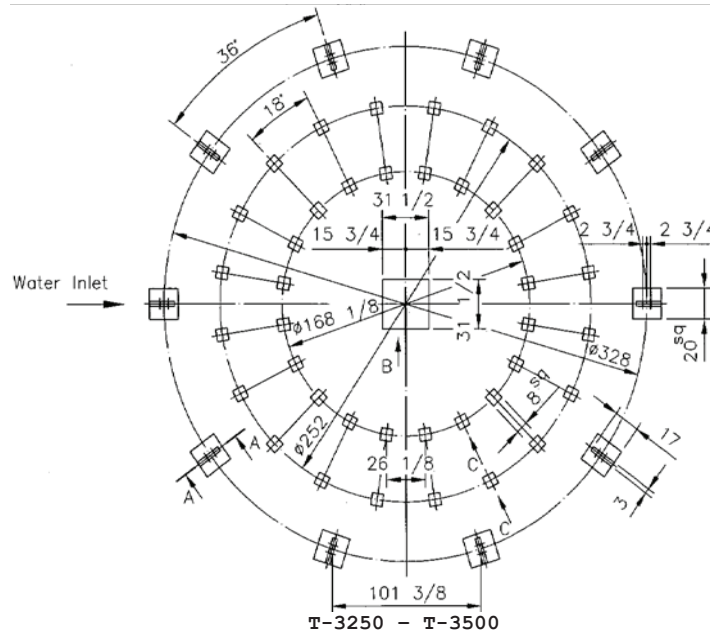
T-2200 - T-2350



T-2400 - T-2500



T-2600 - T-3000

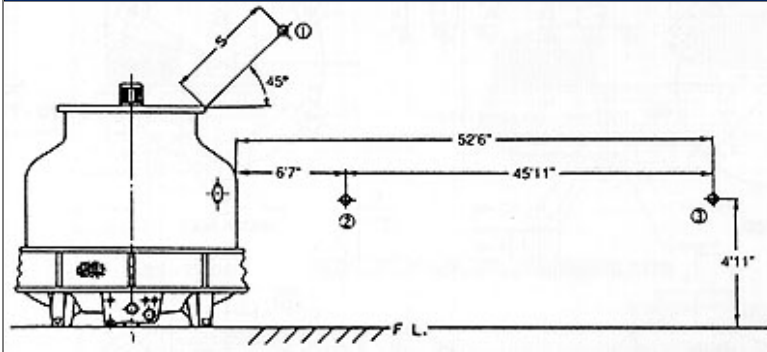


T-3250 - T-3500

*Please refer to page 5 for measurements

SOUND PRESSURE LEVELS OF COOLING TOWER SYSTEMS TOWERS

LEVEL OF MEASUREMENT: db



NOTE: THE ACCURACY OF MEASURING VALUE IS ± 3 DECIBELS

REMARKS:

1. POINT 1 IS 45° EXTENSION OF FAN DISCHARGE.
2. DISTANCE "S":
(1) T MODELS 2125 & LOWER - 4'11"
(2) T MODELS 2150 & ABOVE - FAN DIAMETER

TOWER MODEL	T-25			T-28			T-210			T-215			T-220			T-225			T-230		
MEASURING PT.	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
SCALE A	62	59	48	63	58	47.5	64	59	48.5	69	66	53	69	66	53	70	67	57	73	67	59
TOWER MODEL	T-240			T-250			T-260			T-270			T-280			T-2100			T-2125		
MEASURING PT.	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
SCALE A	77	70	59	77	70	59	79	73	64	81	75	66	82	76	67	79	71	60	84	74	64
TOWER MODEL	T-2150			T-2175			T-2200			T-2225			T-2250			T-2300			T-2350		
MEASURING PT.	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
SCALE A	77	71	62	80	75	65	79	73	63	76	71	62	76	71	62	77	72	63	77	72	63
TOWER MODEL	T-2400 & T-2500			T-2600 & T-2700			T-2800			T-3000			T-3250			T-3500					
MEASURING PT.	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
SCALE A	79.5	74.5	65.5	77.5	72.5	63.5	78.5	74	65	80	75	66	91	81	69	91	81	69			

TOWER CAPACITIES

HOT WATER COLD WATER WET BULB	90 ° F	90 ° F	95 ° F	92 ° F	95 ° F	97 ° F	95 ° F	95 ° F	96 ° F	98 ° F	90 ° F	94 ° F	MODEL
	80 ° F	80 ° F	85 ° F	82 ° F	85 ° F	87 ° F	85 ° F	85 ° F	86 ° F	88 ° F	83 ° F	85 ° F	
	65 ° F	70 ° F	70 ° F	72 ° F	75 ° F	75 ° F	77 ° F	78 ° F	80 ° F	82 ° F	75 ° F	75 ° F	
GPM	17	12	20	13	15	18	12	11	10	11	15	16	CT-5
	27	20	32	21	23	29	20	18	16	17	25	26	CT-8
	34	25	39	27	30	35	25	23	20	23	31	32	CT-10
	51	37	60	40	44	54	37	33	31	33	46	48	CT-15
	68	49	80	53	58	72	49	45	41	44	62	64	CT-20
	85	62	97	66	73	90	62	56	52	56	77	79	CT-25
	101	75	119	80	88	108	75	68	63	68	93	96	CT-30
	134	100	156	106	118	142	101	92	85	91	124	128	CT-40
	168	127	195	134	148	178	127	116	108	115	155	159	CT-50
	201	150	224	160	177	211	151	138	128	137	185	191	CT-60
	236	176	262	188	207	251	176	160	150	160	218	224	CT-70
	268	203	308	215	237	253	203	185	173	184	248	256	CT-80
	335	250	382	266	295	356	252	230	213	228	309	319	CT-100
	420	316	480	235	369	446	316	289	270	289	388	400	CT-125
	504	383	574	405	446	534	383	353	328	350	466	479	CT-150
	588	441	676	471	518	611	444	407	377	404	541	558	CT-175
	669	509	774	542	592	712	512	469	440	469	621	640	CT-200
	757	559	885	595	656	803	559	503	468	503	696	717	CT-225
	838	625	970	666	737	889	630	574	533	569	772	798	CT-250
	1011	775	1175	800	883	1075	755	685	634	678	934	960	CT-300
	1176	889	1340	946	1036	1240	895	818	767	818	1087	1119	CT-350
	1349	1023	1540	1084	1190	1420	1023	930	871	932	1240	1278	CT-400
	1657	1301	1885	1377	1505	1763	1324	1226	1157	1233	1551	1604	CT-500
	2006	1526	2322	1625	1777	2137	1537	1406	1319	1406	1864	1919	CT-600
	2317	1819	2640	1928	2101	2469	1841	1700	1641	1711	2177	2242	CT-700
	2675	2035	3096	2166	2370	2849	2050	1875	1759	1875	2486	2559	CT-800
	3303	2616	3760	2762	3011	3300	2660	2484	2353	2499	3098	3201	CT-1000