



The best just got better

MODEL T-2175

TOWER SPECIFICATIONS



Cooling Tower Systems, Inc.

196 Lower Cherry Street Macon, GA 31201

TF: 800.752.1905

F: 478.755.8304

www.coolingtowersystems.com

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TOWER SPECIFICATIONS: MODEL T-2175 Cooling Tower Systems, Inc.

Design and Operating Conditions		Water Distribution System Construction Materials	
Tower Type:	Counter Flow Induced Draft	Stand Pipe:	PVC
Water Flow Rate (GPM):	518 GPM	Sprinkler Head:	AC
Entering Water Temperature	95°F	Sprinkler Pipes:	PVC
Leaving Water Temperature	85°F	Mechanical Equipment	
Wet Bulb Temperature:	75°F	Fan Unit:	One Unit per Tower
Total Fan BHP:	5 HP	Type:	Axial Flow
Total Pump Head:	11'	Manufacturer:	CTS
Drift Loss of Water Flow:	0.1%	Diameter:	68 7/8"
Evaporation Loss of Water Flow:	0.93%	Blade Material:	AC
Design Wind Load:	41 lbs/sq. ft.	Hub Material:	AC
Structural Details		Nominal Air Volume:	40,250 CFM
Overall Diameter:	130"	Fan Motor	
Overall Height:	97 7/8"	Number of motors:	One Unit per Tower
Dry Weight:	1,571 lbs.	Type:	Induction
Operating Weight:	6,375 lbs.	Manufacturer:	CTS
Basic Tower Construction Materials		Insulation:	F Class
Tower Support Frame Assembly	HDGS	Rated HP:	5 HP
Casing:	FRP	Voltage and phase:	220/440V/3
Casing Supporters	HDGS	Piping Connections	
Cold Water Basin	FRP	Primary Water Inlet Diameter	6"
Filling:	PVC	Primary Water Outlet Diameter:	6"
Filling Supports:	HDGS	Auto fill inlet diameter:	1"
Fan Guard	HDGS	Quick fill inlet diameter:	-
Mechanical Equipment Supports:	HDGS	Overflow outlet diameter:	2"
Inlet Louvers:	PVC	Drain diameter:	1"
Bolts, Nuts & Washers:	STS	Water Flow (GPM):	518 GPM
Materials Key			
FRP	Fiberglass Reinforced Polyester	STS	Stainless Steel
HDGS	Hot Dipped Galvanized Steel	AC	Aluminum Alloy Cast

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PARTS LIST: MODEL T-2175

FOR ASSEMBLY DIAGRAM		
Ref. No.	Description	QTY
01-02	Ring Frame	4
01-05	Truss Pipe Assembly	4
02-01	Water Sump	1
02-02	Outlet Nozzle	1
02-03	Inlet Nozzle	1
02-04	Over Flow Nozzle	1
02-05	Drain Nozzle	1
02-06	Automatic Filler Nozzle	1
02-08	Float Valve Assembly	1
02-09	Over Flow	1
02-10	Suction Strainer	1
02-12A	Connector Pipe	1
02-16	Elbow	1
03-01	Water Basin	6
04-00	Casing Supporter	6
05-01A	Casing	6
05-06	Hand Hole Cover	1
06-01	Stand Pipe	1
06-02	Stand Pipe Base	1
06-03	Packing	1
07-02	Column	1
08-01	Filling Supporter - A	6
08-02	Filling Supporter - B	6
08-03	Filling Supporter - C	12
08-04	Fill Supt. Clamping Band	12
10-01	Ladder (A Section)	1
10-02	Ladder (B Section)	1
10-03	Ladder Bracket - A	2
10-04	Ladder Bracket - B	2
11-01	Filling (Inner Section)	-
11-04	Filling (1/4 Section)	8
11-06	Filling (1/6 Section)	-
12-01	Sprinkler Head	1
12-02	Center Post	1
12-03	Turnbuckle	4
12-04	Tension Wire	4
13-02	End Cap	4
13-03	Eliminator	4
14-01	Frame Ass'y Main Pipe	2
14-02	Frame Ass'y Main Pipe	-
15-01	Motor Base	1
15-02	U-Bolt	-
16-01	Motor	1
16-00	Motor Base Plate	1
16-03	Fan Key	1
16-04	Fasten Nut	1
16-05	Lock Nut	-
17-01	Fan Hub	1
17-02	Fan Blade	1
17-04	U-Bolt	-
18-01	Fan Guard	1

20-02	Inlet Louver	12
20-01A	Louver Support	12
20-01B	Down plug	12
20-01C	Up Plug	12
20-08	Wing Bolt	24
20-09	Plastic Washer	24
OTHERS	Bolts & Nuts	1 SET

FOR TECHNICAL DIAGRAMS			
Item	Description	Material	QTY
1	Fan Motor	-	1 pcs
2	V-Belt Reducer	-	-
3	Motor Frame Assembly	HDGS	1 set
4	Fan Blade Assembly	AC	1 set
5	Fan Guard	HDGS	1 set
6	Casing	FRP	6 pcs
7	Hand Hole	EVA	1 pcs
8	Sprinkler Head	Nylon	1 set
9	Sprinkler Pipes	PVC	4 pcs
10	Eliminator	PVC	4 pcs
11	Tension Device	-	-
12	Stand Pipe	PVC	1 set
13	Filling	PVC	1 set
14	Stopper or Column	AC	1 set
15	Filling Supporter	HDGS	1 set
16	Casing Supporter	HDGS	6 pcs
17	Inlet Louver	PVC	1 set
18	Frame Assembly	-	-
19	Water Basin	FRP	5 pcs
20	Water Sump	FRP	1 pcs
21	Ladder	HDGS	1 set
22	Strainer	PE	1 pcs
23	Flange	HDGS	2 pcs
24	Basin Supporter	-	-

Materials Key	
FRP	Fiberglass Reinforced Polyester
HDGS	Hot Dipped Galvanized Steel
STS	Stainless Steel
AC	Aluminum Alloy Cast
Water Basin Sealing Material	
Fiberglass	1 Set—A
Polyester Resin	1 Keg—B
Catalyst	1 Bottle—C

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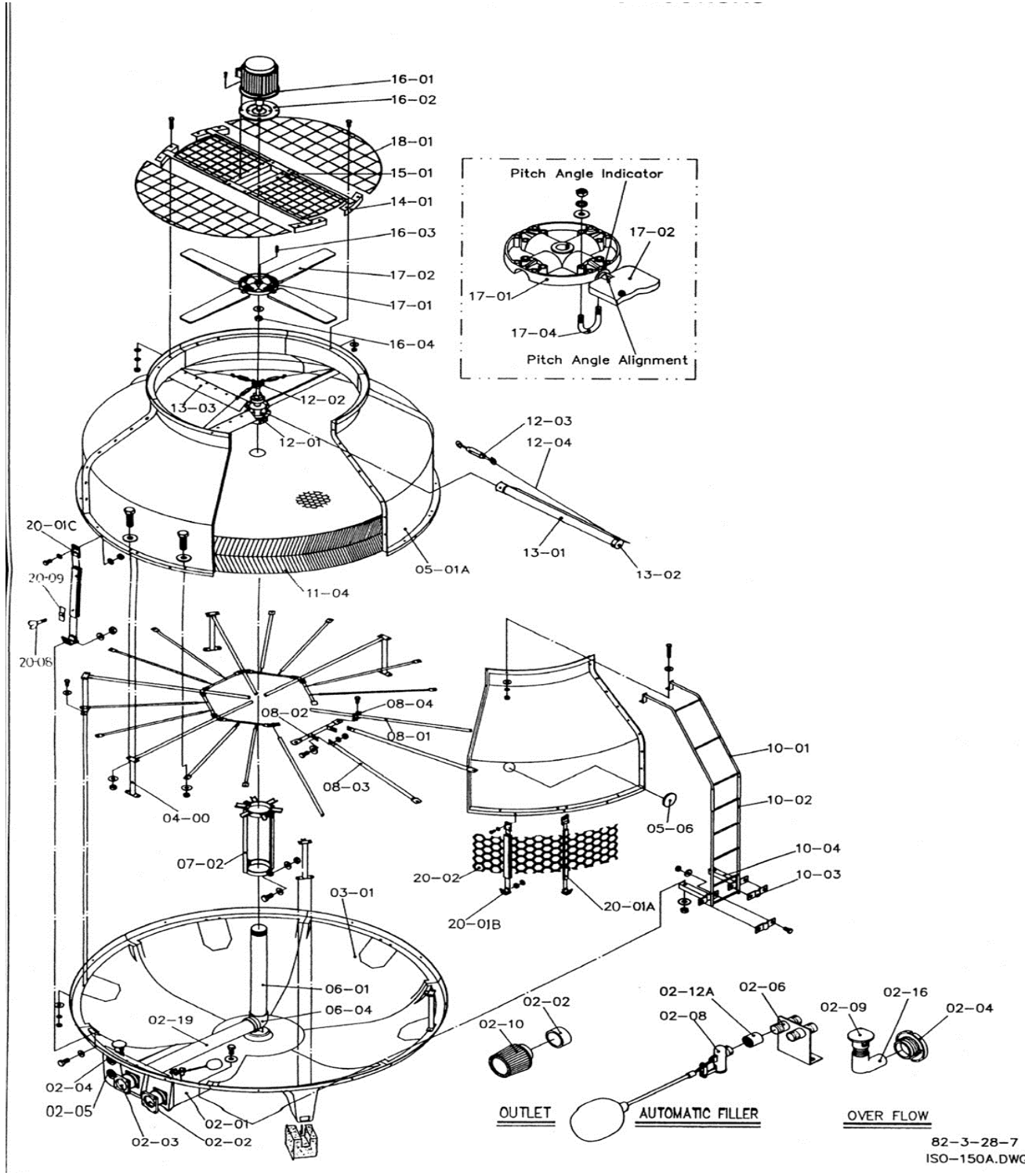
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ASSEMBLY DIAGRAM: MODEL T-2175

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82-3-28-7
ISO-150A.DWG

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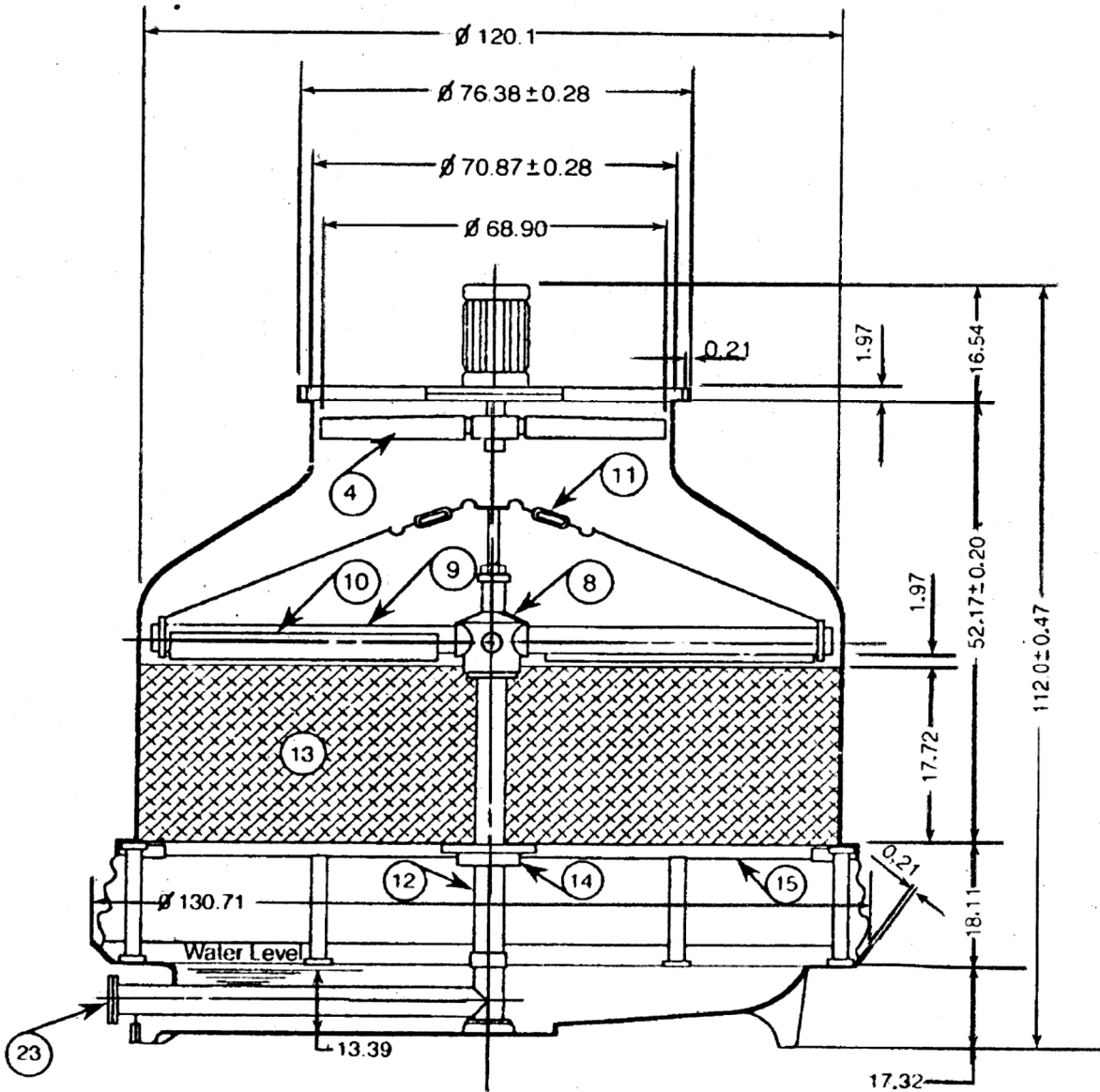
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TECHNICAL IMAGE A: MODEL T-2175

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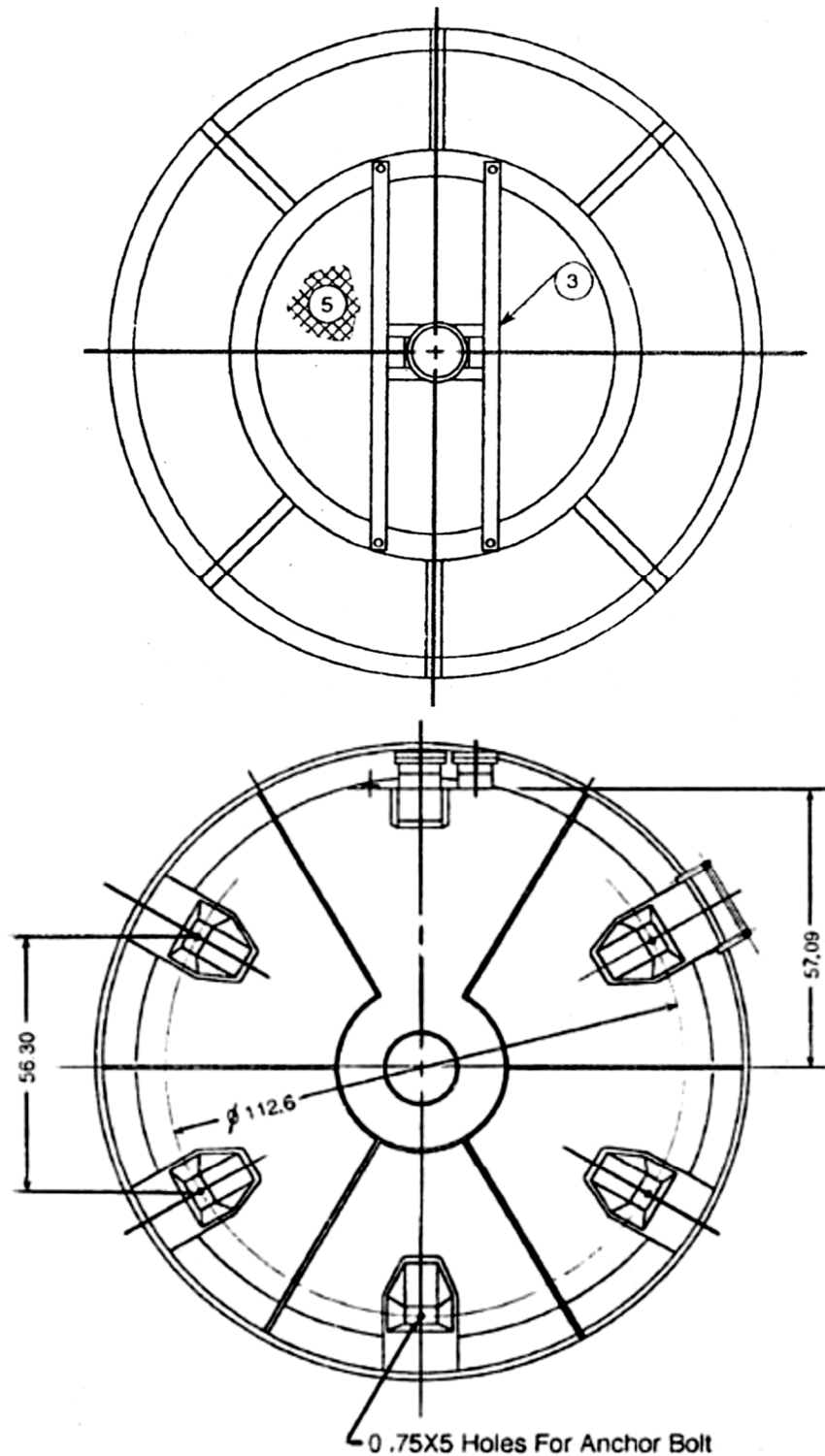
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TECHNICAL IMAGE B & C: MODEL T-



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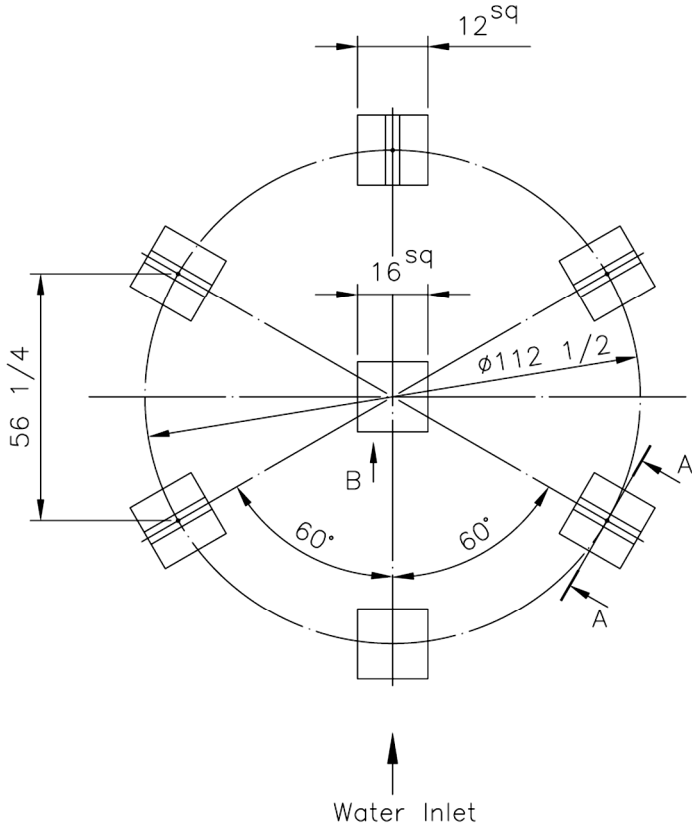
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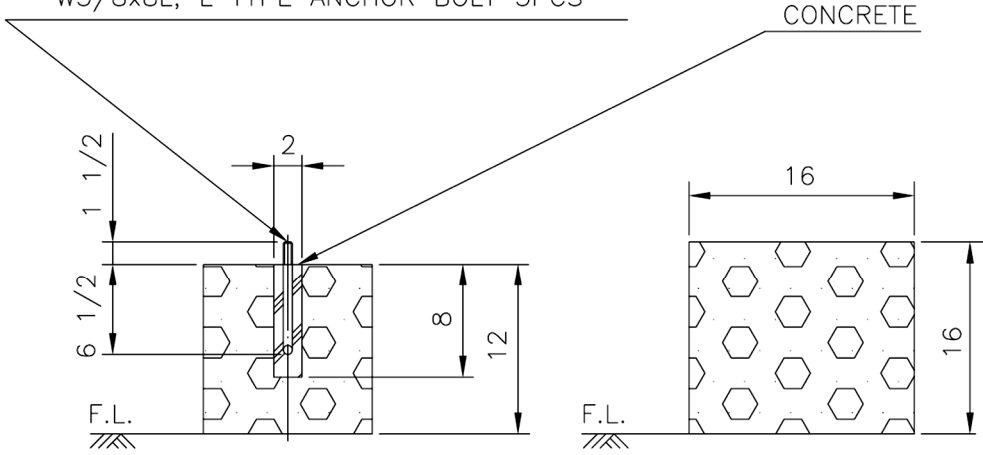


FOUNDATION DRAWING: MODEL T-2175 Cooling Tower Systems, Inc.



On all tower models T-270 and above, please pay close attention to recommended support foundation for center of cooling tower and outward area where inlet/outlet fittings of cooling tower exist

1 1/2L ALL THREAD PROJECTION
W5/8x8L, L TYPE ANCHOR BOLT 5PCS



A-A SECTION

B VIEW

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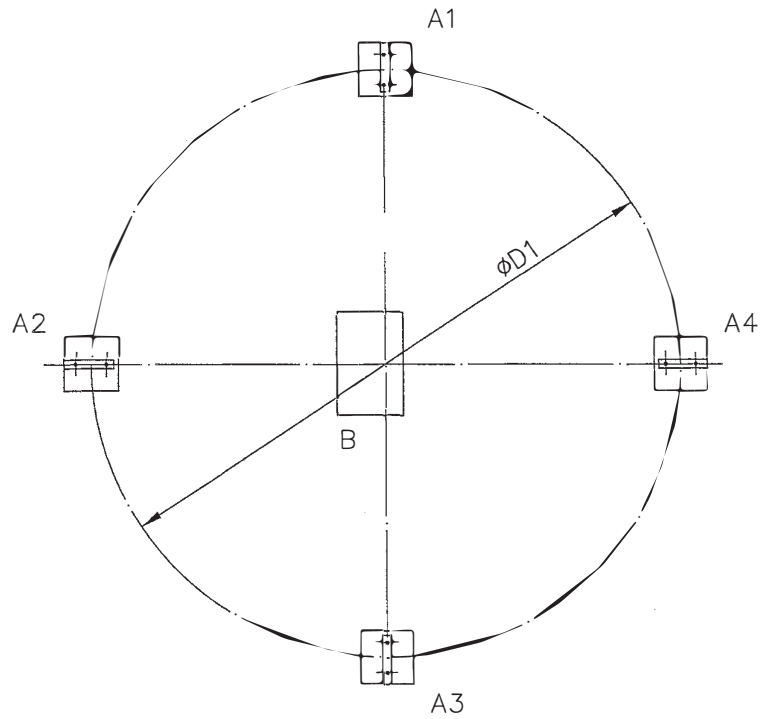
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TOWER MODEL T-2	ϕD	LIVE LOAD		DEAD LOAD	
		A1=...=A4	B	A1=...=A4	B
150	112 5/8"	142lb	807lb	738lb	3230lb
175	112 5/8"	162lb	921lb	763lb	3327lb
200	132"	198lb	1124lb	893lb	4800lb
225	132"	219lb	1240lb	925lb	4869lb)
250	132"	235lb	1331lb	953lb	4912lb
300	(156 1/8")	292lb	1658lb	957lb	5385lb
350	(169 1/8")	310lb)	1760lb	1031lb	5840lb

			NOTE		
TITLE	T-2150~2350		CTS		
	DESIGN LIVE LOAD AND DEAD LOAD ON FOUNDATION BASE				
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