Cooling Tower Systems

The best just got better

MODEL T-2125

TOWER SPECIFICATIONS

Cooling Tower Systems, Inc.
196 Lower Cherry Street Macon, GA 31201
TF: 800.752.1905 F: 478.755.8304 www.coolingtowersystems.com info@coolingtowersystems.com

Tower Specifications: Model T-2125

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Design and Operating Conditions		Water Distribution System Construction Materials	
Tower Type:	Counter Flow Induced Draft	Stand Pipe:	PVC
Water Flow Rate (GPM):	369 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:	3 HP	Type:	Axial Flow
Total Pump Head:	10’	Manufacturer:	CTS
Drift Loss of Water Flow:	0.1%	Diameter:	57 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:	29,100 CFM
Overall Diameter:	120 1/8”	**Fan Motor**	
Overall Height:	87”	Number of motors:	One Unit per Tower
Dry Weight:	1,027 lbs.	Type:	Induction
Operating Weight:	4,850 lbs.	Manufacturer:	CTS
Basic Tower Construction Materials		Insulation:	F Class
Tower Support Frame Assembly	-	Rated HP:	3 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):	369 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-2125

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FOR ASSEMBLY DIAGRAM

Ref. No.	Description	QTY
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	1
02-16	Elbow	1
02-19	Inlet Pipe	1
03-01	Water Basin	5
04-00	Casing Supporter	6
05-01A	Casing	6
05-06	Hand Hole Cover	1
06-01	Stand Pipe	1
06-04	Stand Pipe Base	-
07-01	Stopper	-
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	6
10-01	Ladder (A Section)	1
10-02	Ladder (B Section)	1
10-03	Ladder Bracket - A	2
10-04	Ladder Bracket - B	2
11-02	Filling 1/2 Section	-
11-03	Filling 1-3 Section	6
12-01	Sprinkler Head	1
12-02	Center Post	1
12-03	Turnbuckle	4
12-04	Tension Wire	4
13-02	Sprinkler Pipe	4
13-03	End Cap	4
14-00	Motor Frame Assembly	4
16-01	Fan Motor	1
16-03	Fan Key	1
16-04	Fasten Nut	1
17-01	Fan Hub	1
17-02	Fan Blade	4
17-04	U-Bolt	4
18-01	Fan Guard	2
20-02	Inlet Louver	12
20-03	PVC Frame	7
20-04	Louver Clip	14
20-05	Louver Hook	18
20-06	Lug Plate	18
20-07	Wing Nut	18
OTHERS	Bolts & Nuts	1 SET

FOR TECHNICAL DIAGRAMS

Item No.	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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ASSEMBLY DIAGRAM: MODEL T-2125

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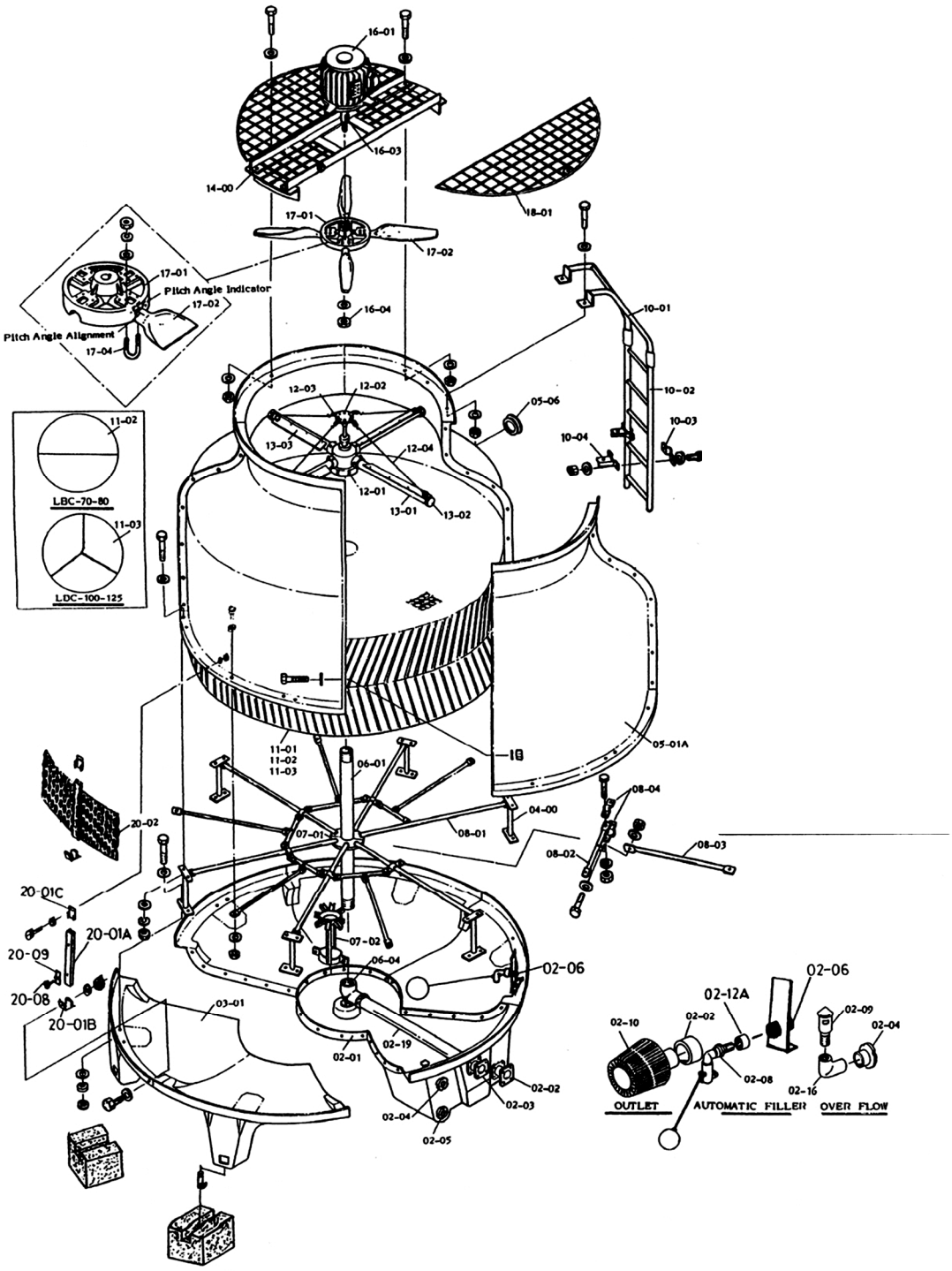

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TECHNICAL IMAGE A: MODEL T-2125

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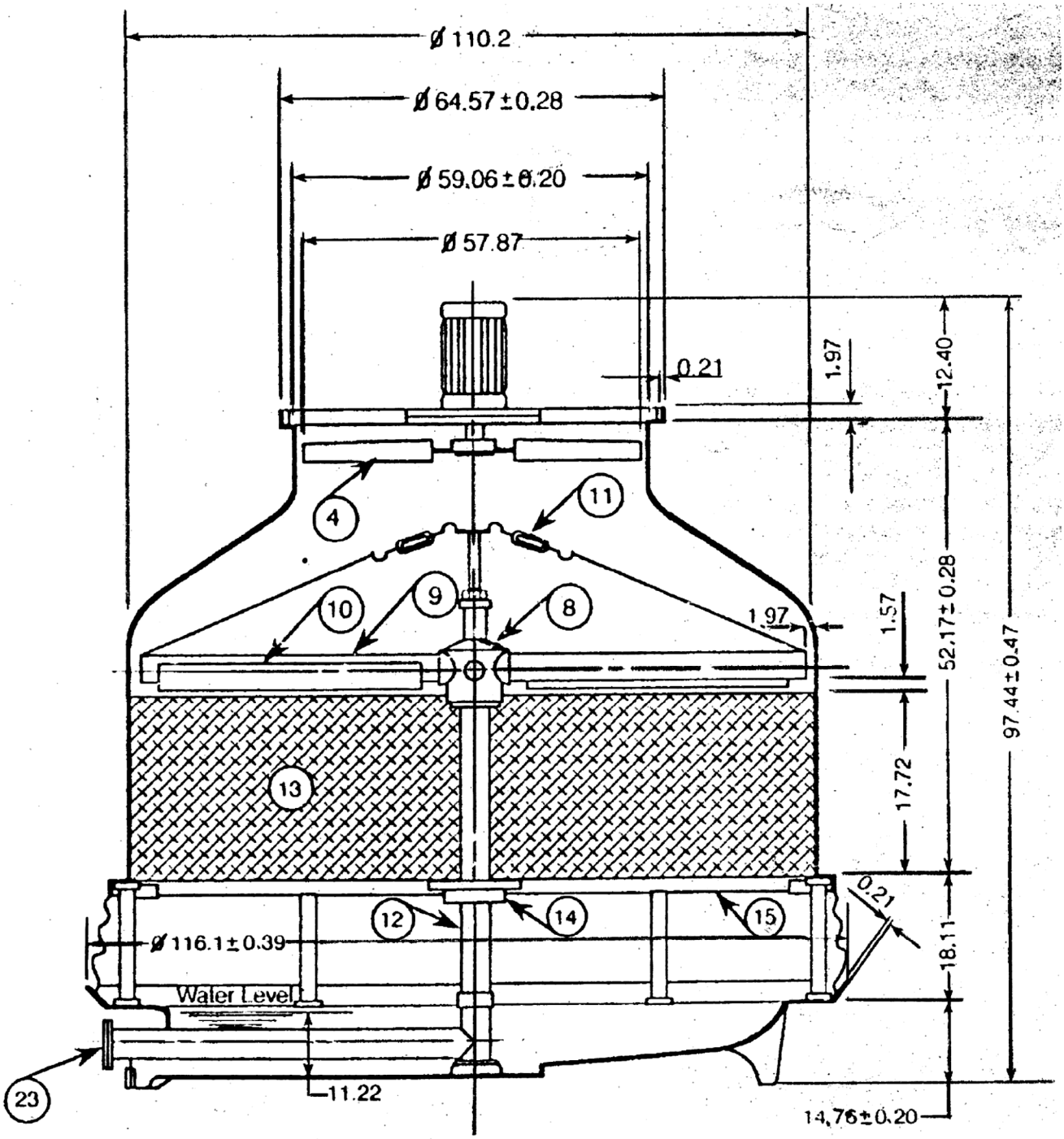

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TECHNICAL IMAGE B & C: MODEL T-

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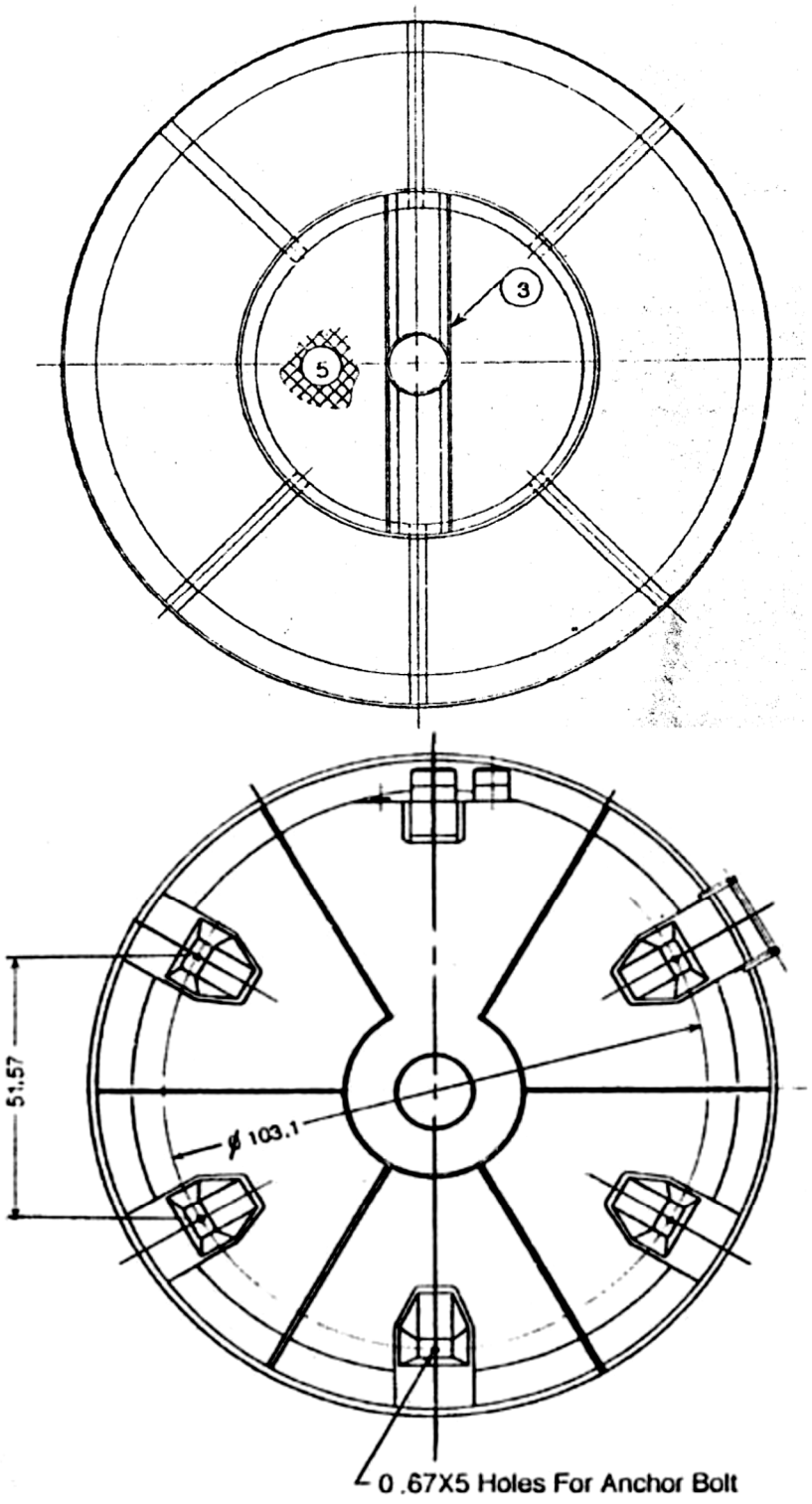

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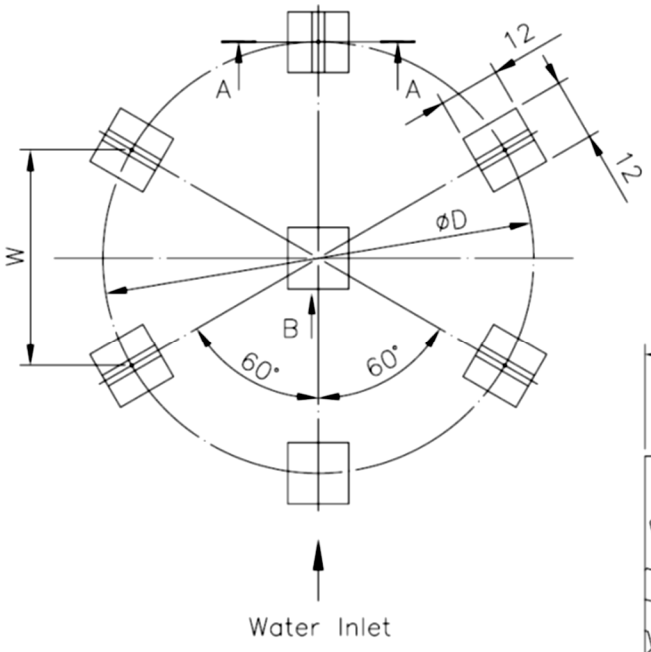
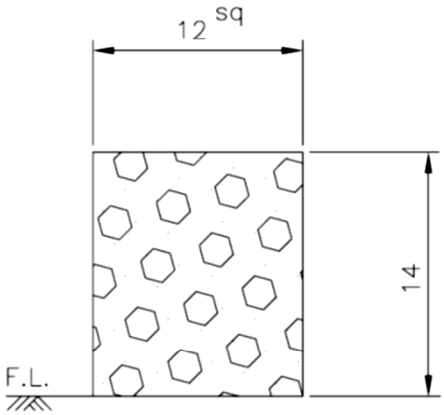
FOUNDATION DRAWING: MODEL T-2125 Cooling Tower Systems, Inc.

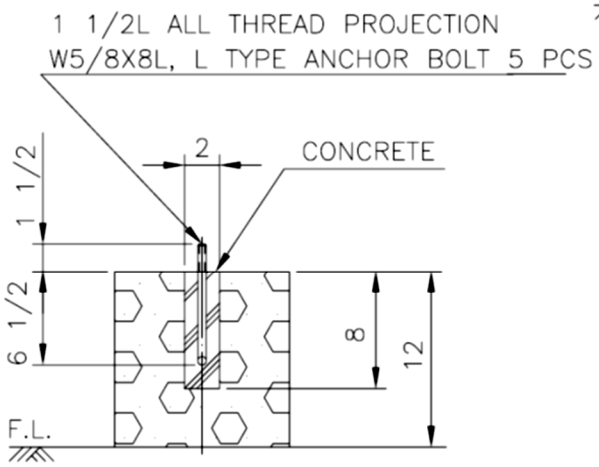
T–	øD	W	L TYPE ANCHOR BOLT		
			SIZE	L	PCS
2100	92 1/2	46 1/4	W 5/8	8	5
2125	103 1/8	51 1/2	W 5/8	8	5

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





B VIEW



A–A SECTION

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