



# MODEL T-2200

## TOWER SPECIFICATIONS





# TOWER SPECIFICATIONS: MODEL T-2200

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):             | 592 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:                              | 43,760 CFM          |
| Overall Diameter:                  | 148 3/8"                        | Fan Motor                                        |                     |
| Overall Height:                    | 117 3/4"                        | Number of motors:                                | One Unit per Tower  |
| Dry Weight:                        | 1,914 lbs.                      | Type:                                            | Induction           |
| Operating Weight:                  | 7,612 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:                        | 1.25"               |
| Fan Guard                          | HDGS                            | Quick fill inlet diameter:                       | 1.25"               |
| Mechanical Equipment Supports:     | HDGS                            | Overflow outlet diameter:                        | 2"                  |
| Inlet Louvers:                     | PVC                             | Drain diameter:                                  | 2"                  |
| Bolts, Nuts & Washers:             | STS                             | Water Flow (GPM):                                | 592 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-2200

| FOR ASSEMBLY DIAGRAM |                          |     |
|----------------------|--------------------------|-----|
| Ref. No.             | Description              | QTY |
| 01-02                | Ring Frame               | 8   |
| 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   |
| 02-07                | Quick Filler Nozzle      | 1   |
| 02-08                | Float Valve Assembly     | 1   |
| 02-09                | Over Flow                | 1   |
| 02-10                | Suction Strainer         | 1   |
| 02-12A               | Connector Pipe           | 1   |
| 02-13                | Elbow                    | 2   |
| 02-16                | Elbow                    | 1   |
| 03-01                | Water Basin              | 8   |
| 04-00                | Casing Supporter         | 8   |
| 04-02                | Stiffener Ring - 1       | -   |
| 05-01A               | Casing                   | 8   |
| 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    | 8   |
| 08-02                | Filling Supporter - B    | 8   |
| 08-03                | Filling Supporter - C    | 16  |
| 08-04                | Fill Supt. Clamping Band | 16  |
| 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   |
| 16-02                | Speed Reducer            | 0   |
| 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                   | 8   |
| 18-01                | Fan Guard                | 2   |

|        |              |       |
|--------|--------------|-------|
| 20-02  | Inlet Louver | 9     |
| 20-03  | PVC Frame    | 18    |
| 20-04  | Louver Clip  | 24    |
| 20-05  | Louver Hook  | 24    |
| 20-06  | Lug Plate    | 24    |
| 20-07  | Wing Nut     | 24    |
| OTHERS | Bolts & Nuts | 1 SET |

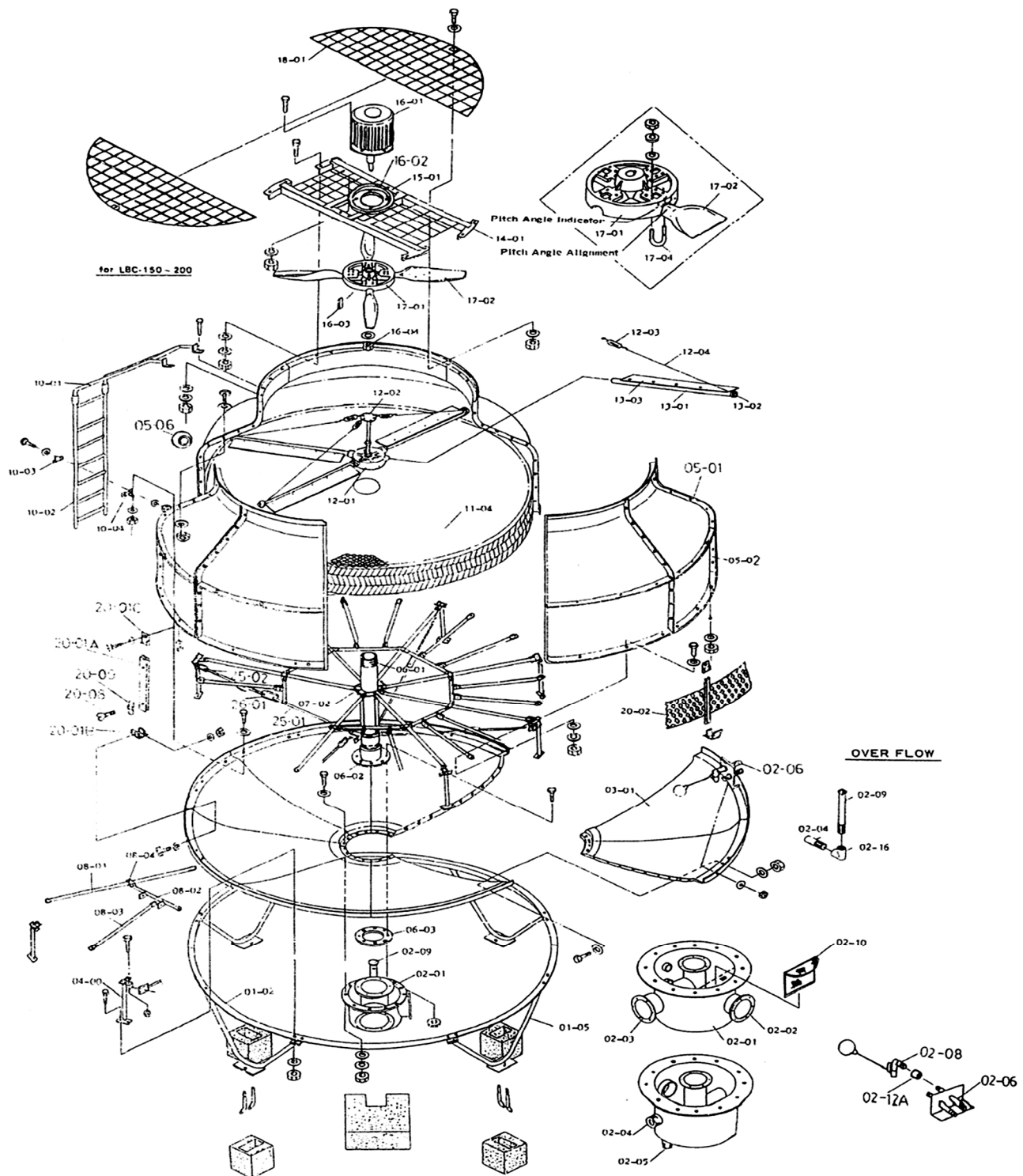
| FOR TECHNICAL DIAGRAMS |                      |          |       |
|------------------------|----------------------|----------|-------|
| Item                   | Description          | Material | QTY   |
| 1                      | Fan Motor            | -        | 1 pcs |
| 2                      | 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       | ABS      | -     |
| 12                     | Stand Pipe           | PVC      | 1 set |
| 13                     | Filling              | PVC      | 1 set |
| 14                     | Stopper or Column    | HDGS     | 1 set |
| 15                     | Filling Supporter    | HDGS     | 1 set |
| 16                     | Casing Supporter     | HDGS     | 6 pcs |
| 17                     | Inlet Louver         | PVC      | 1 set |
| 18                     | Frame Assembly       | HDGS     | -     |
| 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                      |



# ASSEMBLY DIAGRAM: MODEL T-2200

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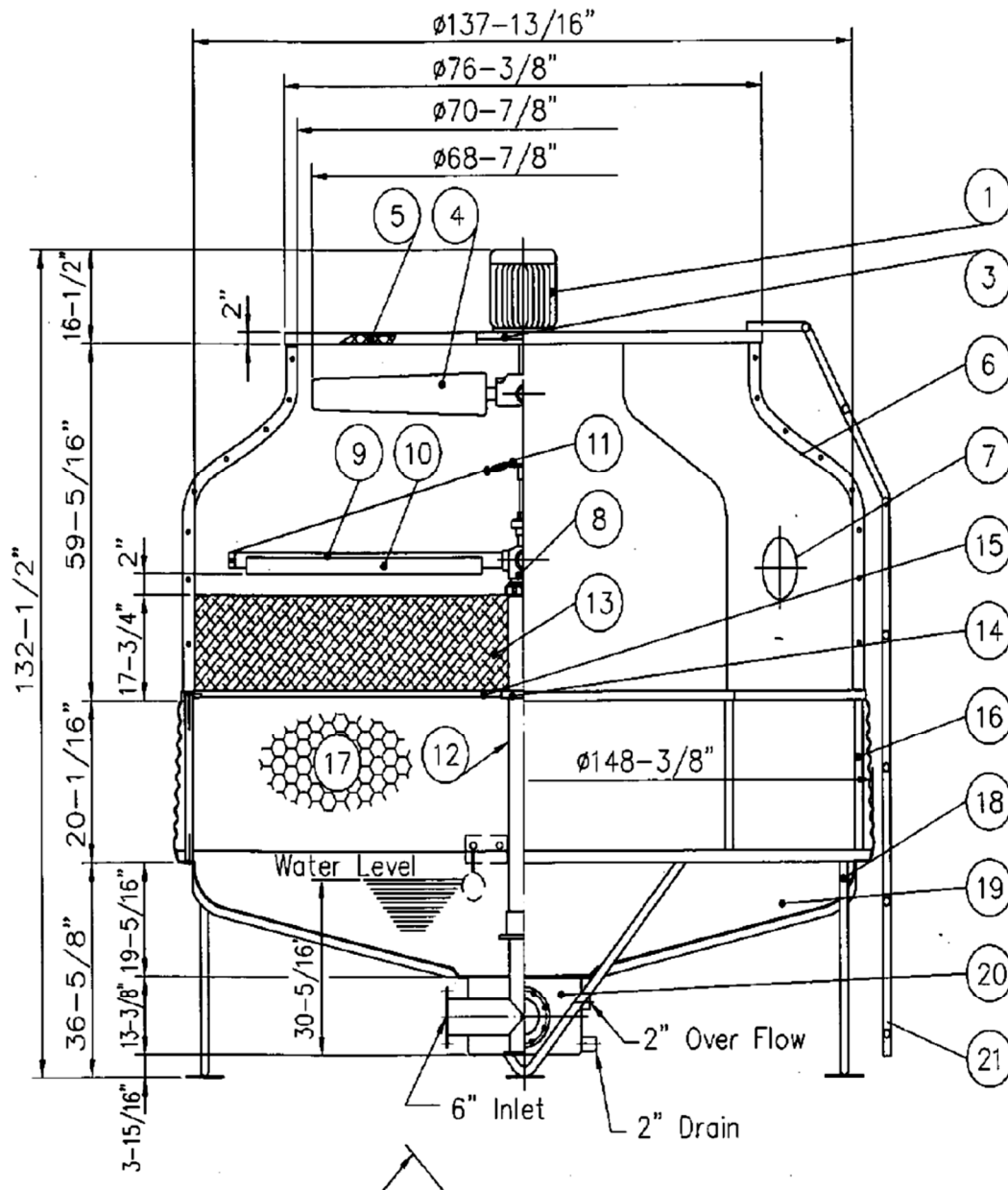
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## TECHNICAL IMAGE A: MODEL T-2200



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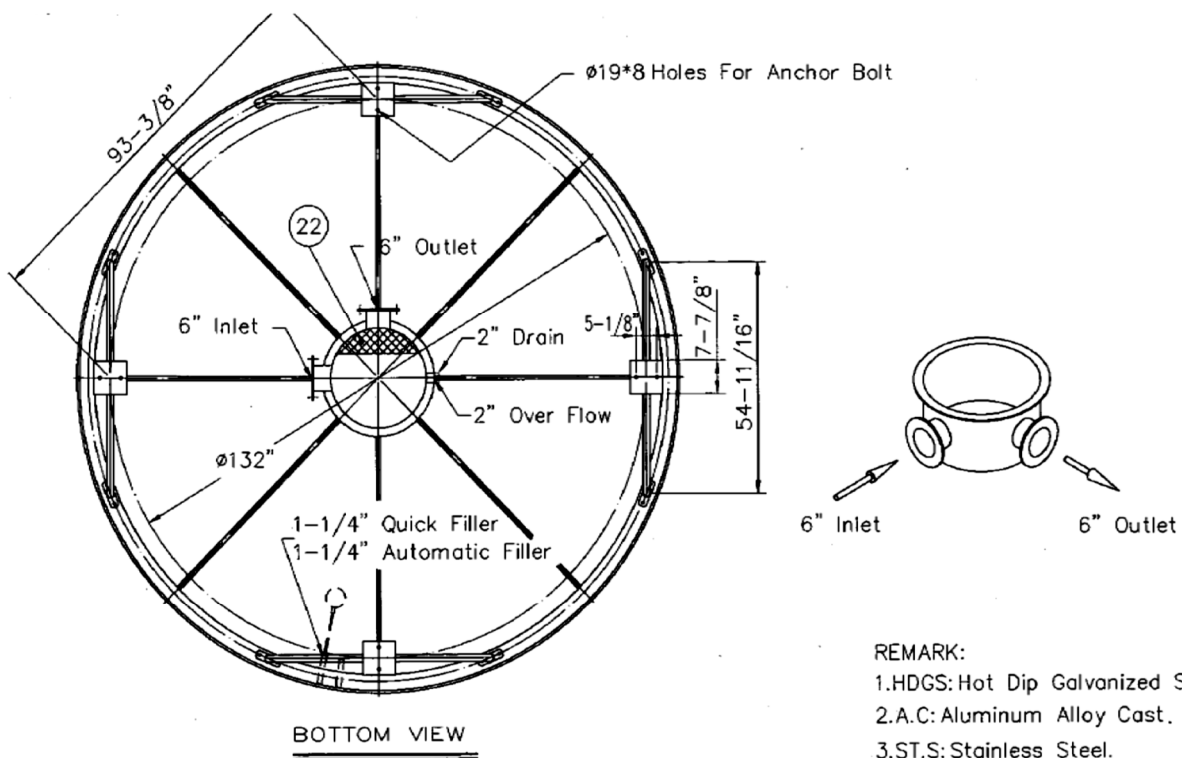
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# TECHNICAL IMAGE B: MODEL T-2200 Cooling Tower Systems, Inc.



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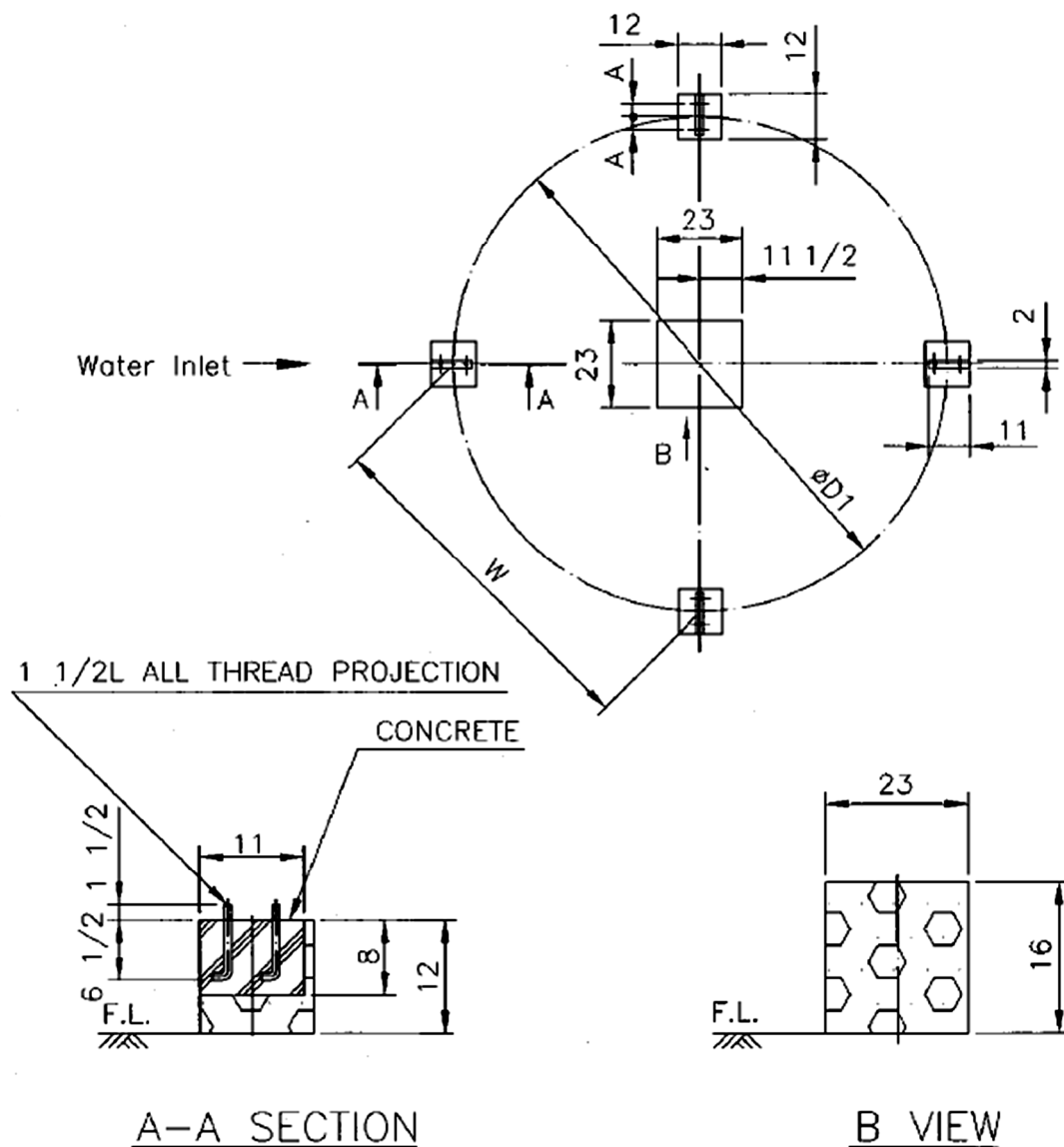
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# FOUNDATION DRAWING: MODEL T-2200 Cooling Tower Systems, Inc.

| T-        | øD1     | W       | A     | L TYPE ANCHOR BOLT |   |     |
|-----------|---------|---------|-------|--------------------|---|-----|
|           |         |         |       | SIZE               | L | PCS |
| 2200      | 132     | 93 3/8  | 2 1/2 | W5/8               | 8 | 8   |
| 2225~2250 | 132     | 93 3/8  | 2 1/2 | W5/8               | 8 | 8   |
| 2300      | 156 1/8 | 110 3/8 | 2 3/4 | W5/8               | 8 | 8   |
| 2350      | 169 1/8 | 119 5/8 | 2 3/4 | W5/8               | 8 | 8   |



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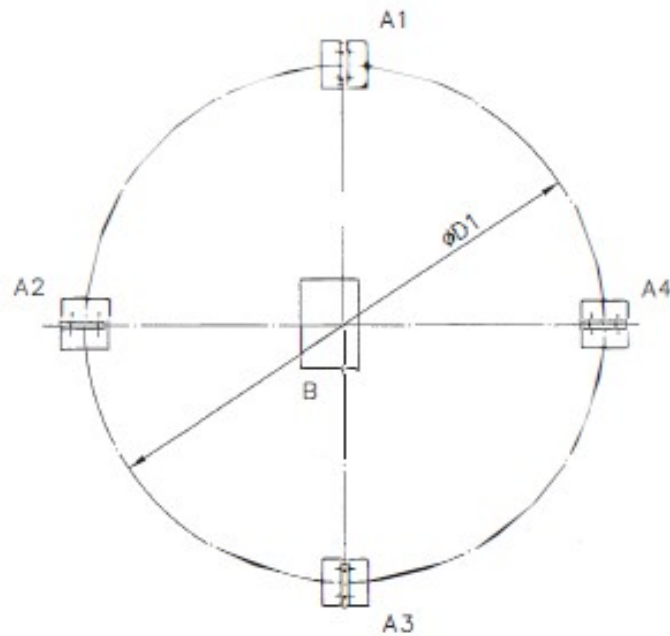
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| TOWER MODEL<br>T-2 | øD         | LIVE LOAD |        | DEAD LOAD |         |
|--------------------|------------|-----------|--------|-----------|---------|
|                    |            | A1=...=A4 | B      | A1=...=A4 | B       |
| 150                | 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 |      |     |             |
|       | Lee                                               |      | MM  | / '20 08 25 |
|       |                                                   |      |     |             |

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