

# COOLING TOWER

**TP SERIES**  
FIBERGLASS

- **All Non-Ferrous Design**
- **45 to 540 Tons Capacity**
- **UV Stabilized Fiberglass Shell**
- **TEFC Fan Motor with ABS Fan Blades**
- **10 Year Shell Warranty**
- **5 Year Mechanical Warranty**

The **TP Series** cooling tower is ready to meet the needs of today's industry. This tower cell is made of all non-ferrous materials, including fiberglass shell, TEFC motor, ABS fan, PVC wet deck and distribution header. The fiberglass shell is 1/2" thick and even thicker in certain support areas. Other product features include:

#### **TOWER DESIGN:**

- Single or multi cell designs
- Total non-ferrous construction materials
- Single inlet and drain connections on models up to 270 tons
- Induced draft air movement
- Structural galvanized steel base on 45 to 135 ton models
- Structural painted steel base on 170 to 540 ton models

#### **SHELL CONSTRUCTION:**

- High strength fiberglass molding
- 1/2" of structural thickness in reinforced areas
- UV stabilized coating
- Acrylic adhesive bonding between shell halves
- Polyurethane sealant

#### **FAN:**

- Air foil shaped blades for increased air flow
- Blades are made of a glass fiber reinforced polymer
- Direct drive
- Factory set for maximum air movement

#### **MOTOR:**

- TEFC construction
- Mounted on a stainless steel frame
- Supported on reinforced fiberglass shell area
- Mounted to shell with stainless steel fasteners

#### **INLET LOUVERS:**

- PVC construction
- Easily removed for cleaning
- Vertical orientation to eliminate 'splash out'
- Directs air flow at proper angle for even distribution into wet deck
- Helps prevent air-borne debris from entering cell



TP-135 shown

#### **DISTRIBUTION HEADER:**

- Non-ferrous PVC 'cross' construction
- Stationary
- Computer designed spray pattern
- Large orifice spray heads
- PVC spray heads
- Drift eliminator prevents over spray and water loss

#### **WET DECK:**

- Stacked honeycomb pattern maximizes water and air flow for greater cooling efficiency
- PVC construction

#### **INSPECTION COVERS:**

- Easily removed
- Seamless gasket sealing
- Allows for inspection of cell interior and replacement of wet deck

#### **WARRANTIES:**

- 10 year shell warranty
- 5 year motor/fan warranty

**PRICE & PERFORMANCE... for the LONG TERM**

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**TEMPEK**

since 1989

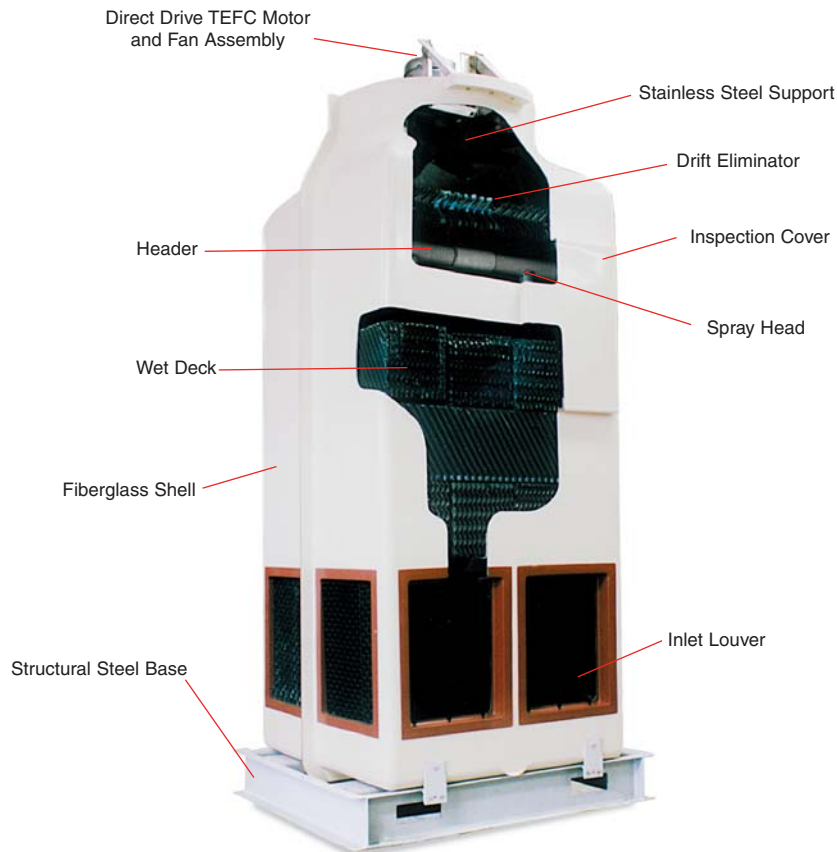
# SPECIFICATIONS

## TP SERIES SPECIFICATIONS

MODEL		T45P	T85P	T105P	T135P	T170P	T210P	T270P	T315P	T405P	T540P
<b>CAPACITY</b>	Capacity (tons) <sup>1</sup>	45	85	105	135	170	210	270	315	405	540
	Flow rate (gpm)	135	255	315	405	510	630	810	945	1,215	1,620
<b>FAN</b>	Quantity	1	1	1	1	2	2	2	3	3	4
	RPM	1,170	1,170	1,170	870	1,170	1,170	870	1,170	870	870
	# of blades per fan	9	9	9	6	9	9	6	9	6	6
	Diameter of fan (inches)	36	42	42	60	42	42	60	42	60	60
	Total CFM	12,040	21,700	25,000	30,500	43,400	50,000	61,000	78,388	91,500	122,000
<b>MOTOR</b>	Quantity	1	1	1	1	2	2	2	3	3	4
	Total nameplate HP	3	5	10	7.5	10	20	15	30	22.5	30
<b>AMPERAGE<sup>2</sup></b>	230 / 3 / 60	9.6	15.2	28.0	28.0	28.0	56.0	56.0	86.4	84.0	112.0
	460 / 3 / 60	4.8	7.6	14.0	14.0	14.0	28.0	28.0	43.2	42.0	56.0
	575 / 3 / 60	3.9	6.1	11.0	12.0	11.0	12.0	24.0	36.0	36.0	48.0
<b>PIPE SIZES (inches)</b>	To process	3	4	4	4	6	6	6	2@6	2@ 6	2@ 6
	From process	4	6	6	6	10	10	10	2@10	2@ 10	2@ 10
<b>DIMENSIONS (inches)</b>	Height	138	138	143	140	138	143	140	143	140	140
	Length	60	84	84	96	145	145	169	217	254	338
	Depth	49	73	73	85	84	84	96	84	96	96
<b>WEIGHT (LBS)</b>	Dry	725	1,290	1,390	1,612	2,310	2,210	3,125	4,000	4,350	5,800
	Wet	1,470	3,100	3,200	4,200	5,700	5,600	7,800	10,700	11,000	15,000
	Shipping <sup>3</sup>	1,100	1,580	1,680	1,950	2,310	2,710	3,125	4,000	4,350	5,800

**Notes:**

1. Tons capacity at 15,000 BTU / hr. 2. Full load amps shown. No allowance for inrush. Service disconnect by owner. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring. Consult factory for 50hz operation.  
3. Unit weight crated for shipment.



**THESE OPTIONS ARE AVAILABLE:**

**FAN STARTER KIT:**

- Motor starter contactor
- Motor overload relay
- Nema 1 enclosure
- Fan thermostat

**SIDE OUTLET:**

- PVC flange
- Factory installed

**BASIN FLOAT VALVE:**

- Mechanical float and valve
- 1/2" supply connection
- Factory or field installed

**TOWER STAND:**

- 10' corner post design with cross bracing
- Ladder and railing attachments

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