

# FIBERGLASS COOLING TOWERS

## 45 - 540 TONS



MI-PT-135 shown

Milacron cooling tower cells are designed for industrial cooling applications such as hydraulics, chiller condensers, temperature controllers and other applications.

**DESIGN PROCESS WATER TEMPERATURES:**

- 95°F to 85°F (at 78°F wet bulb)

**DESIGN PROCESS WATER FLOW RATE:**

- 3 gpm per ton

**AVAILABLE CAPACITIES:**

- 45 to 540 tons

Milacron cooling towers offer total non-ferrous construction, with UV protected fiberglass shell, PVC wet deck, louvers and drift eliminator. A stainless steel structure supports the direct drive fan assembly with TEFC motor. A structural base is included for roof or stand mounting.

Opened inspection port showing wet deck, drift eliminator and distribution header.



Stainless steel motor support with TEFC motor and direct drive fan.

**FEATURES - AT A GLANCE:**

- Non-ferrous design
- Single and multicell configurations
- Easy to remove inspection covers
- Structural base included
- TEFC fan motor with ABS fan blades
- PVC wet deck and drift eliminator



# SPECIFICATIONS

<b>POWER TOWER SPECIFICATIONS MI-PT</b>		<b>45</b>	<b>85</b>	<b>105</b>	<b>135</b>	<b>170</b>	<b>210</b>	<b>270</b>	<b>405</b>	<b>540</b>
<b>WATER CAPACITY</b>	Capacity (tons) <sup>1</sup>	45	85	105	135	170	210	270	405	540
	Flow rate (gpm)	135	255	315	405	510	630	810	1,215	1,620
<b>FAN (direct drive)</b>	Quantity	1	1	1	1	2	2	2	3	4
	RPM	1,170	1,170	1,170	870	1,170	1,170	870	870	870
	# of blades per fan	9	9	9	6	9	9	6	6	6
	Diameter of fan (inches)	36	42	42	60	42	42	60	60	60
	CFM (total)	12,040	21,700	25,000	30,500	43,400	50,000	61,000	91,500	122,000
<b>MOTOR</b>	Quantity	1	1	1	1	2	2	2	3	4
	Total nameplate HP	3	5	10	7.5	10	20	15	22.5	30
	Amps @ 230/3/60	9.6	15.2	28.0	22.0	28.0	56.0	44.0	66.0	88.0
	Amps @ 460/3/60	4.8	7.6	14.0	11.0	14.0	28.0	22.0	33.0	44.0
	Amps @ 575/3/60	3.9	6.1	11.0	9.0	11.0	12.0	18.0	27.0	36.0
<b>PROCESS CONNECTIONS (inches)</b>	To process	3	4	4	4	6	6	6	2 <sub>3</sub> / <sub>8</sub> 6	2 <sub>3</sub> / <sub>8</sub> 6
	From process	4	6	6	6	10	10	10	2 <sub>3</sub> / <sub>8</sub> 10	2 <sub>3</sub> / <sub>8</sub> 10
<b>DIMENSIONS (inches)</b>	Height	138	138	138	140	138	138	140	140	140
	Length	60	84	84	96	145	145	169	254	338
	Depth	49	73	73	85	84	84	96	96	96
<b>WEIGHTS (LBS)</b>	Dry	725	1,290	1,390	1,612	2,310	2,210	3,125	4,350	5,800
	Wet	1,470	3,100	3,200	4,200	5,700	5,600	7,800	11,000	15,000
	Shipping	1,100	1,580	1,680	1,950	2,310	2,210	3,125	4,35	5,800

## STANDARD FEATURES

- Single or multi cell designs
- Total non-ferrous construction materials
- Single inlet and drain connections on models up to 270 tons
- Counter-flow 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

### 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

### 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-born debris from entering cell

### 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

## OPTIONS

### 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



MILACRON PRODUCTS: TEMPERATURE CONTROLLERS • PORTABLE CHILLERS • CENTRAL CHILLERS • PUMP TANK STATIONS • TOWER SYSTEMS • FILTERS

### MILACRON PROCESS SUPPORT BUSINESS

4165 Halfacre Road Batavia, Ohio 45103  
 Phone: 513-536-2584 Fax: 513-536-2321  
 website: www.milacron.com