

Product Information Bulletin

Delta Counter Flow Cooling Towers

PIBE1011

General

Prop fan, counter flow cooling towers offer the best combination of **energy efficiency per unit ton of cooling** and **freedom from water side problems of any cooling tower design on the market**. In particular, the counter flow design is far superior to other designs when high dissolved solids makeup water, often encountered in the southwest or where water is in short supply, as evaporite deposition on the fill is not a problem. Delta Cooling Towers, Inc. (Delta) has combined this superior engineering design with all plastic construction making a totally corrosion proof, efficient, cooling tower a reality. ProChemTech International, Inc. is pleased to have obtained OEM status to supply Delta cooling towers to both the new construction and replacement markets across the United States.

Advanced Features

- efficient counter flow design
- plastic construction, **can not rust or corrode**
- 15 year warranty on cooling tower structure
- direct drive fans on larger units, no belts or gear boxes to fail
- can be acid cleaned for scale removal

Available Models

Pioneer

- low profile
- capacities from 10 to 100 ton
- optional black plastic
- TEAO fan motors
- PVC drift eliminator
- non-clog large orifice removable nozzle distribution
- high efficiency PVC spiral wound fill for maximum efficiency
- corrosion proof shell, 15 year warranty
- leak proof one piece molded sump



Model	Ship Wt. lb	Op Wt. lb	Size D x H	Tons	Motor HP	Sump gal
T-10	350	705	38" x 78"	10	1	40
T-15	360	725	38" x 78"	15	1.5	40
T-20	385	750	38" x 78"	20	2	40
T-25	405	765	38" x 78"	25	3	40
T-30	710	1500	56" x 76"	30	5	75
T-40	730	1525	56" x 76"	40	5	75
T-50	910	2610	80" x 80"	50	5	157
T-75	970	2675	80" x 80"	75	7.5	157
T-100	1030	2730	80" x 80"	100	10	157

Note: See Paragon units for best energy efficiency in 55 to 100 ton size range

Paragon

- single cell units
- capacities from 100 to 250 ton
- optional black plastic
- direct drive TEAO fan motors
- three pass drift eliminator
- non-clog large orifice removable nozzle distribution
- high efficiency PVC cellular fill for maximum efficiency
- corrosion proof shell, 15 year warranty
- water powdered rotating distribution system
- leak proof one piece molded sump
- efficient prop type fan



Model	Ship Wt. lb	Op Wt. lb	Size D x H	Tons	Motor HP	Sump gal
T-55i	1500	4225	84" x 146"	55	2	330
T-70i	1505	4230	84" x 146"	70	3	330
T-85i	1510	4235	84" x 146"	85	5	330
T-100i	1510	4235	84" x 146"	100	5	330
T-125i	1585	4310	84" x 146"	125	7.5	330
T-150i	1785	5570	95" x 178"	150	7.5	468
T-175i	1925	5810	95" x 178"	175	10	468
T-200i	3170	8440	114" x 210"	200	10	718
T-250i	3365	8640	114" x 210"	250	15	718

Premier

- single cell units, multiple fans
- capacities from 250 to 500 ton
- direct drive TEAO fan motors
- three pass drift eliminator
- non-clog large orifice removable nozzle distribution
- high efficiency PVC cellular fill for maximum efficiency
- corrosion proof shell, 15 year warranty
- base coated steel platform for easy installation
- leak proof one piece molded sump
- efficient prop type fans



Model	Ship Wt. lb	Op Wt. lb	Size L x W x H	Tons	Fan Motors	Sump gal
TR-205812	3900	7990	15.5' x 8.5' x 11'	254	2 – 5 hp	450
TR-275812	3980	8140	15.5' x 8.5' x 11'	292	2 – 7.5	450
TR-210812	4100	8300	15.5' x 8.5' x 11'	319	2 - 10	450
TR-305812	6050	11960	21.5' x 8.5' x 11'	408	3 – 5	720
TR-375812	6170	12150	21.5' x 8.5' x 11'	460	3 - 7.5	720
TR-310812	6350	12430	21.5' x 8.5' x 11'	502	3 – 10	720

TM Series

- multiple cell units, two fans per cell
- capacities from 250 to 2000 ton
- direct drive TEAO fan motors
- three pass drift eliminator
- non-clog large orifice removable nozzle distribution
- high efficiency PVC cellular fill for maximum efficiency
- corrosion proof shell, 15 year warranty
- leak proof one piece molded sump
- efficient prop type fans
- independent cell capacity for operational flexibility
- self supporting plastic base



Three Cell Unit

Single Cell units

Model	Ship Wt. lb	Op Wt. lb	Size L x W x H	Tons	Fan Motors	Sump gal
TM-105312	5020	10670	16.5' x 8.5' x 15.5'	285	2 – 5 hp	480
TM-105412	5020	10670	16.5' x 8.5' x 15.5'	300	2 – 5	480
TM-175312	5020	10670	16.5' x 8.5' x 15.5'	320	2 – 7.5	480
TM-175412	5020	10670	16.5' x 8.5' x 15.5'	335	2 – 7.5	480
TM-110312	5020	10670	16.5' x 8.5' x 15.5'	350	2 - 10	480
TM-110412	5020	10670	16.5' x 8.5' x 15.5'	365	2 – 10	480
TM-115312	5020	10670	16.5' x 8.5' x 15.5'	395	2 – 15	480
TM-115412	5020	10670	16.5' x 8.5' x 15.5'	415	2 - 15	480

Two, three, four, five, and six cell units are simply multiples of the above single cell units placed together on the width dimension. Thus the width of a two cell unit is 17.0', a three cell unit is 25.5', a four cell unit is 34.0', a five cell unit is 42.5', and a six cell unit is 51.0'

Delta cooling towers are “green”, environmentally superior units, in that there is no galvanized metal to corrode and pollute the environment with zinc, the counter flow design allows higher cycles and less water use than cross flow units, and the prop fans are more efficient, less energy use, than centrifugal blowers. Combine a superior Delta cooling tower with a patented ProChemTech SofTek – SSBrom™ water management program for a minimum 25% decrease in water use and elimination of toxic biocide chemical use.

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