PARAGON® COOLING TOWERS

Induced Draft, Counter Flow Design
100 - 250 Ton Single Modules

Paragon® cooling towers

are induced draft counter flow design cooling towers with single module capacities from 100 to 250 cooling tons. These towers are a unitary seamless engineered plastic design that Delta has been manufacturing since 1981 providing long-term durability and trouble-free operation.

STANDARD FEATURES:

- Seamless Engineered Plastic (HPDE) Shell
- Corrosion Proof Construction
- Direct Drive Fan System with Totally Enclosed Motor.
- Factory Assembled for Simple Installation
- 15 Year Shell Warranty
- Low Pressure Drop Self Propelled PVC Water Distribution System
- High Efficiency PVC Fill
- Made in the USA

Compare the value Delta Cooling Towers offer against the value of other comparable units. You will find the benefits we can provide are unique and superior:

- Energy Efficiency - low fan HP from optimized cooling counterflow design, low pump head.
- Non-Corrosive Materials of Construction - impervious to chemicals, acids, and salts.
- Cost Less to Maintain - will not rust, chip, or ever require painting for extraordinary tower life.
- Unique Design - provides unlimited flexibility of modular operation, future upgrade capablity, and location convenience.
- One-Piece Construction - strong and long lasting. Shell is backed by a 15 year warranty.
- Cost Less to Install - light weight construction reduces rigging and structural roof support requirements. Maintenance costs and water treatment chemicals cost are significantly lowered.

OPTIONS AVAILABLE:

- Mounting Platforms
- Two Speed Motors
- Thermostatic On/Off Fan Control Package
- Anti Freeze Basin Heaters
- Pump(s)
- Sump Level Switches
- Stainless Steel Basket Strainers
- Control Panels
- Storage Tanks

134 Clinton Road • Fairfield, NJ 07004 • 973-227-0300 • FAX 973-227-0458 • www.deltacooling.com

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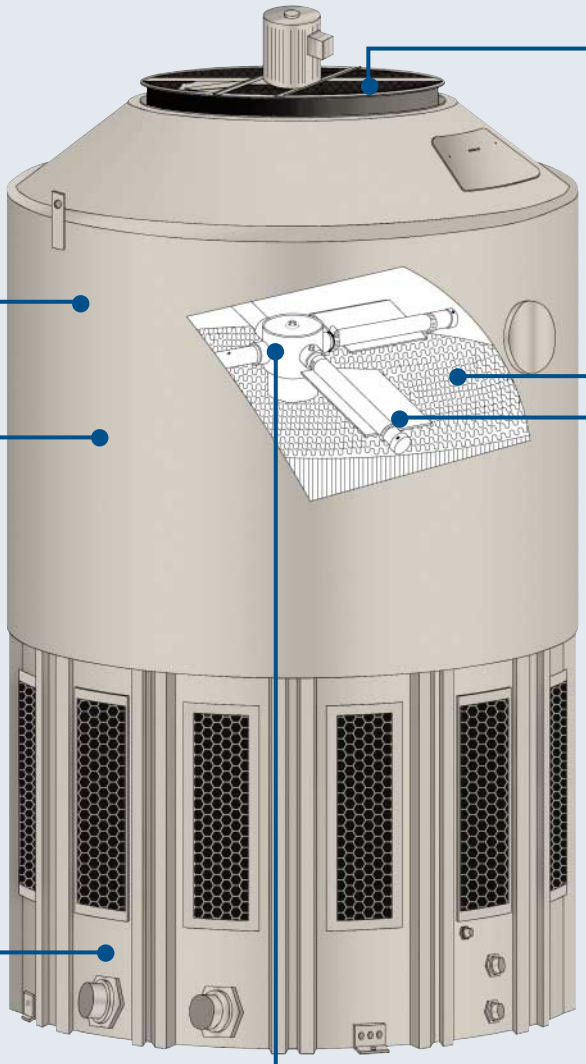
CORROSION-PROOF SHELL

HDPE Plastic Construction can not corrode and is backed by 15 Year Warranty.

DIRECT DRIVE AIR MOVING SYSTEM

Totally enclosed cooling tower motor powers fiber-reinforced polypropylene axial propeller fan.



LIGHTWEIGHT AND HEAVY DUTY

Plastic is lighter than conventional cooling towers and average wall thickness is 5-10 times sheet metal towers.

FILL MATERIAL

High efficiency spiral wound PVC cellular design for maximum cooling.

LEAK-PROOF SUMP

Molded as Unitary (One-Piece) Structure that has no joints to leak or require re-caulking and sealing.

DRIFT ELIMINATOR

Polyethylene drift eliminators prevent water droplets from leaving the tower.

WATER DISTRIBUTION SYSTEM

Self-propelled multiple PVC rotating arm system evenly distributes the water.

Model Number	Approximate Weight Shipping	Operating	Dimensions Dia. x Ht.	Capacity Tons	Fan Motor HP	Sump Capacity Gallons
ΔT-100I	1510	4235	84" x 146"	100	5	330
ΔT-125I	1585	4310	84" x 146"	125	7.5	330
ΔT-150I	1785	5570	95" x 178"	150	7.5	468
ΔT-175I	1925	5810	95" x 178"	175	10	468
ΔT-200I	3170	8440	114" x 210"	200	10	718
ΔT-250I	3365	8640	114" x 210"	250	15	718

Delta Cooling Towers

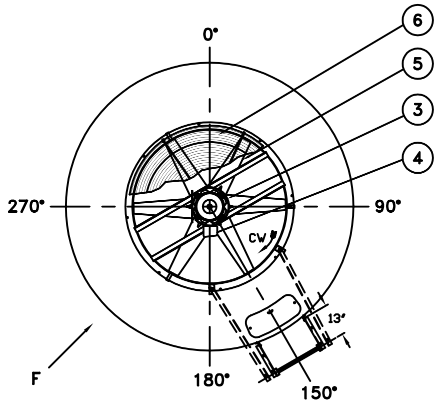
Leader in Non-Corrosive Cooling Tower Technology

134 Clinton Road, P.O. Box 952 • Fairfield, New Jersey 07004-2970

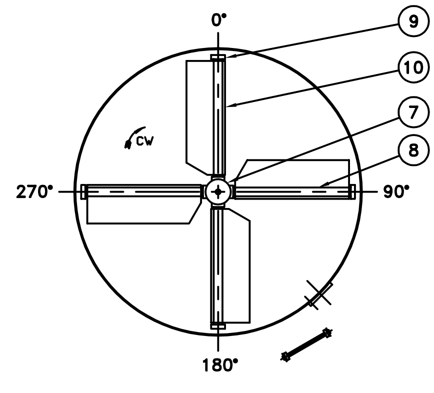
Tel: 973-227-0300 • Fax: 973-227-0458 • 800-BUY-DELTA

E-mail: deltacooling@att.net • Website www.deltacooling.com

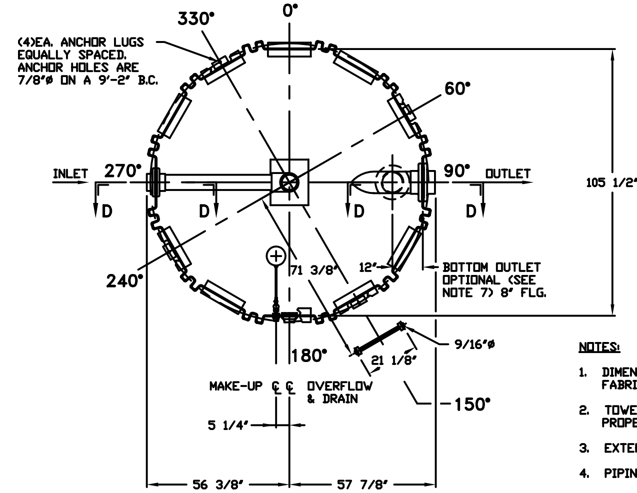
DATE	SYM	REVISION	AUTH	CHK
9/20/96	A	DRAWN IN ACAD	A.C.	W.P.
7/27/98	B	REV. FAN RING & DIM.	W.P.	
12/12/00	C	ADDED NOTE 12	B.O.	J.F.
5/22/02	D	REV. FAN ASSEMBLY	B.O.	J.F.



VIEW C–C



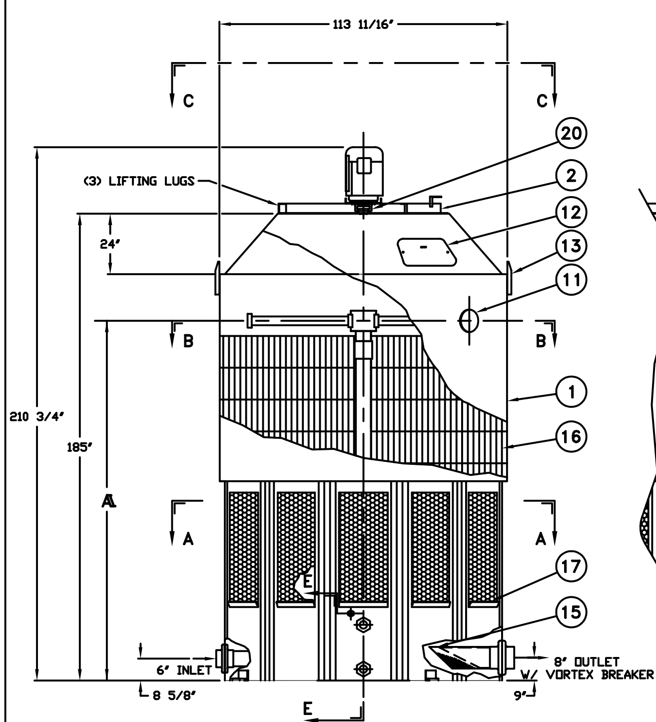
SECTION B–B



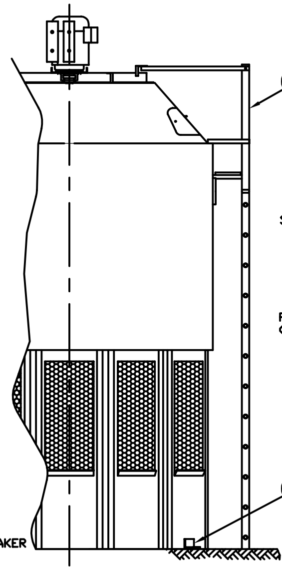
SECTION A–A
(SEE NOTE 1)

NOTES:

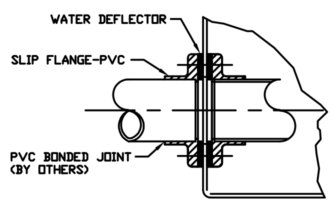
1. DIMENSIONS SHOWN ARE NOMINAL AND ARE SUBJECT TO FABRICATION TOLERANCES.
2. TOWER TO BE INSTALLED ON A FLAT AND RIGID SURFACE, PROPERLY SUPPORTED.
3. EXTERNAL PIPING MUST BE INDEPENDENTLY SUPPORTED.
4. PIPING AND BULKHEAD FITTING MATERIAL IS PVC.
5. HARDWARE MATERIAL IS TYPE 304 STAINLESS STEEL.
6. FAN ASSEMBLY & SPRINKLER ARMS SHIPPED SEPARATELY FOR FIELD INSTALLATION.
7. FOR BOTTOM OUTLET MAXIMUM OPENING IN SUPPORT TO BE 19" x 19".
8. MAXIMUM INLET WATER TEMPERATURE 140°F. (CONSULT FACTORY FOR HIGHER TEMP. APPLICATIONS.)
9. SEE DWG. NO DT-D-80-755 FOR MULTICELL LAYOUT.
10. ALL DIMENSIONS ARE IN INCHES.
11. ALL WEIGHTS ARE IN POUNDS. DRY WT. INCLUDES; FAN ASSEMBLY, SINGLE SPEED MOTOR & TOWER COMPLETE. MAX. FAN WT. INCLUDES FAN ASSEMBLY AND TWO SPEED MOTOR.
12. RISER PIPE HAS 1/4" WEEP HOLE IN SUMP.



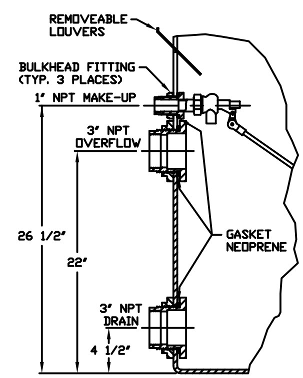
ELEVATION



VIEW F



SECTION D–D
INLET & OUTLET



SECTION E–E

ITEM	QTY	PART NO.	DESCRIPTION	MATERIAL	REMARKS
20	1		VIBRATION SWITCH	STEEL	OPTIONAL
19	1		FLOAT VALVE	BRONZE	
18	1		LADDER ASSEMBLY	ALUMINUM	OPTIONAL
17	1 SET		LOUVER PANEL	PVC	
16	1 SET		FILL	PVC	
15	1		STRAINER	PLASTIC	OPTIONAL
14	4		ANCHOR LUG	ALUMINUM	
13	2		LIFTING LUG	ALUMINUM	
12	1		MANHOLE COVER	POLYETHYLENE	
11	1		CLEAN-OUT PORT	POLYETHYLENE	
10	4		MIST ELIMINATOR	POLYETHYLENE	
9	4		PIPE CAP	PVC	
8	4		SPRINKLER PIPE	PVC	
7	1		SPRINKLER HEAD	PVC	
6	1		FAN GUARD	COATED STEEL	SPLIT
5	1		PROPELLER	POLYPROP/FRP	
4	1		ELECTRICAL CONN.	STEEL	
3	1		MOTOR	STEEL	TEAO, DIR. DRIVE
2	1		FAN RING	COATED STEEL	
1	1		TOWER SHELL	POLYETHYLENE	

BILL OF MATERIALS

TOWER	ΔT 200I	ΔT 250I
HP	10	15
DRY WT.	2670	2815
OPER. WT.	8355	8500
DESIGN WT.	10855	11000
MAX. FAN WT.	570	610
A	129 1/2"	142 1/8"

PARAGON®

DELTA COOLING TOWERS, INC.
41 PINE STREET, ROCKAWAY, NJ 07866
PH 973.586.2201 FAX 973.586.2243

TITLE ΔT 200I AND ΔT 250I

JOB#

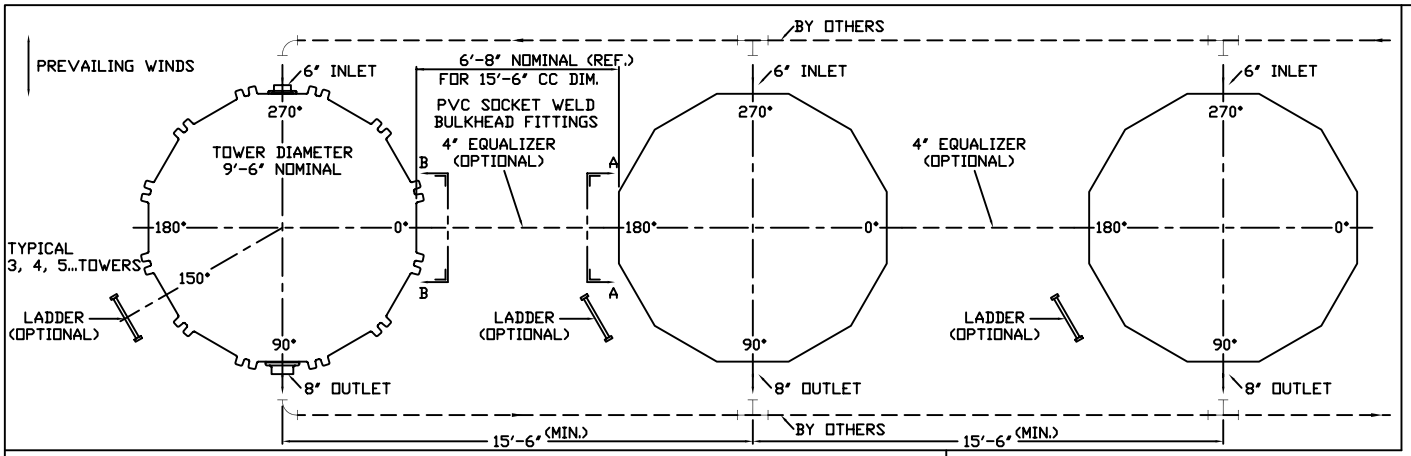
DWN BY Alexander Clements

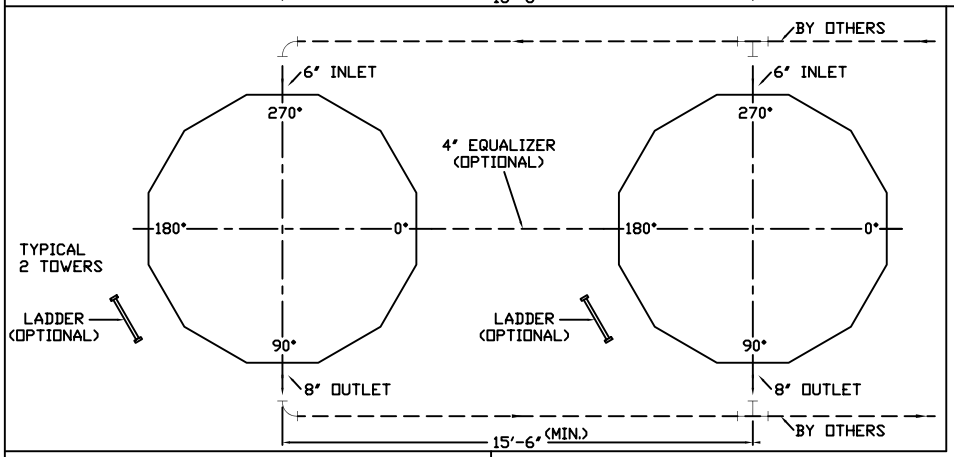
APPVD BY W.A.Patterson

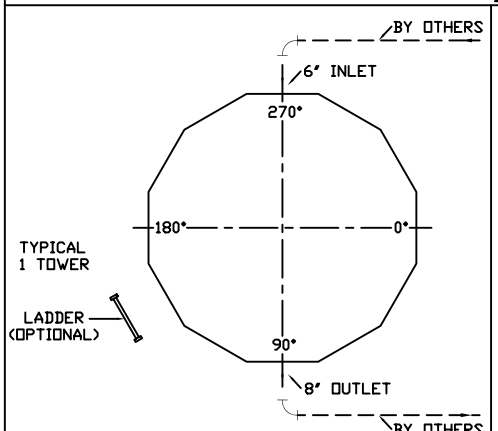
SCALE 1/2" = 1'-0"

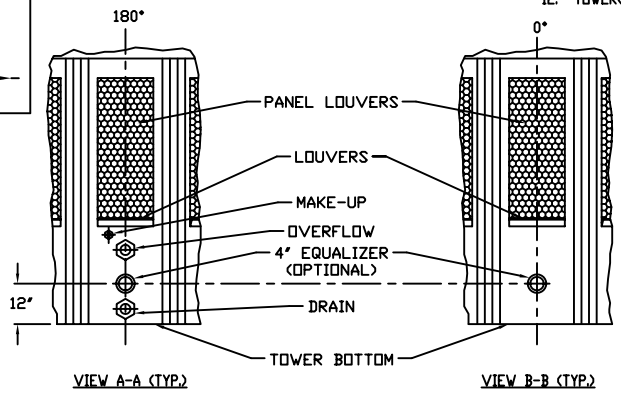
DATE 9/20/96

DWG NO. DT-D-80-754









DATE	SYM	REVISION	DRWN	CHK
9/20/96	C	REDRAWN IN ACAD	A.C.	V.P.

NOTES:

1. SEE DRAWING #DT-D-80-754 FOR TOWER ASSEMBLY.
2. FOR PROPER PERFORMANCE, TOWER(S) MUST BE INSTALLED IN AN UNOBSTRUCTED LOCATION FREE FROM CONDITIONS THAT MAY INDUCE RECIRCULATION OF DISCHARGE AIRFLOW OR RESTRICT THE SUPPLY OF AIRFLOW TO THE INLET OF THE TOWER(S).
3. TOWER(S) MUST NOT BE INSTALLED NEAR ANY SOURCE OF HEAT, DISCHARGE OF STREAM, DISCHARGE OF HOT AND/OR HUMID EXHAUST AIR, ETC.
4. MINIMUM RECOMMENDED DISTANCE FROM ANY SOLID WALL IS TWO THIRDS (2/3) OF THE TOWER DIAMETER, OR 5 FEET, WHICHEVER IS GREATER, IF ONLY ONE WALL IS INVLOVED. FOR INSTALLATION IN A CORNER BETWEEN TWO WALLS, THE DISTANCE SHOULD BE INCREASED TO A MINIMUM OF ONE (1) TOWER DIAMETER FROM EACH WALL.
5. IF THE TOWER(S) ARE LOCATED NEAR A WALL OR ROOF LINE, THE FAN RING (POINT OF AIRFLOW DISCHARGE) SHOULD BE LEVEL OR HIGHER THAN THE WALL OR ROOF LINE.
6. IF THE TOWER(S) ARE INSTALLED IN AN ENCLOSURE A MINIMUM 3 FOOT CLEARANCE IS ALLOWED, IF:
   A) AIR INTAKE OPENINGS ARE PROVIDED IN AT LEAST THREE SIDES OF THE ENCLOSURE.
   B) TOTAL NET FREE AREA IN WALLS IS AT LEAST EQUAL TO THE TOWER(S) CROSS SECTIONAL AREA.
   C) TOP OF WALLS IS NOT HIGHER THAN THE TOWER(S) FAN RING.
7. DIRECTION OF PREVAILING SUMMER WINDS SHOULD BE CONSIDERED IN TOWER LAYOUT. THE LEEWARD SIDE OF BUILDINGS IS GENERALLY NOT A DESIRABLE LOCATION FOR THE TOWER(S) INSTALLATION.
8. IF ANY OF THE ABOVE LIMITATIONS ARE NOT SATISFIED, RELOCATING OR ELEVATING THE TOWER(S) SHOULD BE CONSIDERED. OFTEN THE MOST FEASIBLE COURSE OF ACTION IS EITHER AN ACCEPTANCE BY USER OF LOWER COOLING TOWER SYSTEM PERFORMANCE DUE TO ADVERSE LOCATION EFFECTS, OR INCREASING THE COOLING SYSTEM CAPACITY (LARGER TOWER(S) OR ADDITIONAL TOWER).
9. FOR INSTALLATION, REFER TO DELTA COOLING TOWERS INDUCED DRAFT INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS.
10. ALL FITTINGS ARE PVC SOCKET WELD FITTINGS.
11. EXTERNAL PIPING, BY OTHERS, MUST BE INDEPENDENTLY SUPPORTED.
12. TOWER(S) TO BE INSTALLED ON A FLAT AND RIGID SURFACE, PROPERLY SUPPORTED.

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TITLE: ΔT 200I AND ΔT 250I
SINGLE AND MULTICELL LAYOUT

DWN BY Alexander Simonds
APPVD BY W.A.Patterson
JOB#
SCALE NONE
DATE 9/20/96
DWG NO. DT-D-80-755