E1 SERIES FORCED DRAFT MODELS
10 TO 75 TONS

Model E1-40

EFFICIENT COOLING IN A RUST-FREE DESIGN

Conair's E1 series forced draft, counterflow cooling towers are rust-proof, not just rust-protected. We're so confident the molded polyethylene shell will not rust, chip or crack, we back it with a 15-year warranty.

All water connections, the water distribution system and the wet decking are made of PVC to eliminate corrosion and resist rot, decay and biological attack.

The forward curved centrifugal belt-driven blowers are made of heavy-duty steel with a corrosion-resistant dipped and baked alkyd finish.

REDUCE WATER AND SEWER USAGE TO SAVE MONEY

Conair cooling towers pay for themselves by recirculating process cooling water, which saves water costs and sewer taxes.

Hot water enters at the top and is sprayed over a continuous coil of angled-baffle PVC decking. Air flowing upward from the base removes the heat through evaporation. The spiral decking design extends the water's travel path and exposure to air, increasing the heat transfer area for efficient cooling.

Interchangeable, non-clogging nozzles and laterals permit increased flow without increasing inlet pressure.

Options include: a blower sound enclosure that also serves as a protective housing; two-speed blower motors to closely control temperature and save energy; and basin heaters.

■ Easy inlet/outlet connections

Single-point inlet water connection. Choose the optional side outlet with make-up float valve, or the standard bottom outlet for use with remote tanks and sumps. Also includes drain and overflow connections.

■ Seamless, rust-free design

Our one-piece MDPE tower shell will not rust, corrode, chip, crack or require protective coating or painting. There are no seams, panels or rivets to fail or compromise performance. All fasteners are 304 stainless steel.

■ Costs less to install

Towers are shipped factory complete, requiring little more than water and electrical connections to install. Lightweight design reduces rigging and structural roof support requirements.

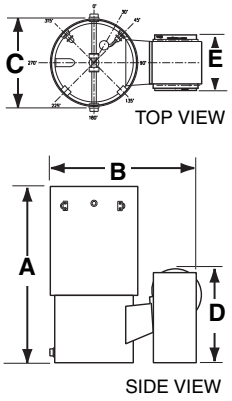
■ 15-year warranty

Our cooling towers carry an unbeatable warranty package. We warrant the polyethylene shell against material defects and workmanship for 15 years.
We also warrant the TEFC blower motor for five years and provide a one-year parts and labor warranty on the entire tower.

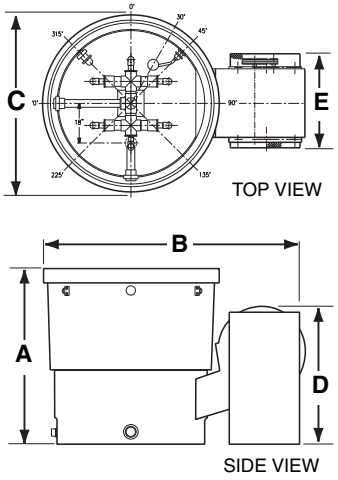
CONAIR™

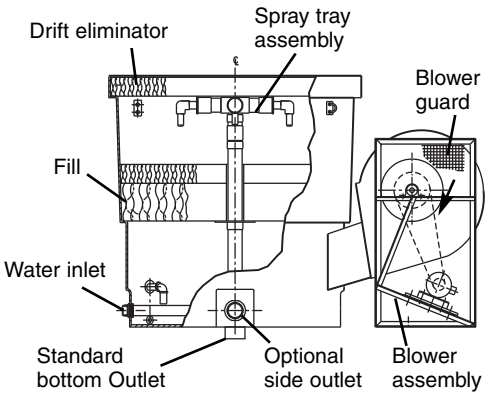
E1 SERIES FORCED DRAFT MODELS 10 TO 75 TONS

MODELS E1-10 to E1-25



MODELS E1-30 to E1-100





MODEL	E1-10	E1-15	E1-20	E1-25	E1-30	E1-40	E1-50	E1-75
Performance characteristics								
Tower capacity Tons	10	15	20	25	30	40	50	75
Sump capacity Gallons {liters}	40 {151}	40 {151}	40 {151}	40 {151}	75 {284}	75 {284}	157 {594}	57 {594}
Blower motor Hp {kW}	1 {0.74}	1.5 {1.12}	2 {1.49}	3 {2.24}	5 {3.73}	5 {3.73}	5 {3.73}	7.5 {5.59}
Wet bulb temperature / Output tower tons {GPM}*								
70°F {21°C}	14 {44}	22 {67}	29 {89}	37 {111}	44 {134}	59 {179}	74 {223}	111 {335}
72°F {22°C}	13 {41}	20 {62}	27 {83}	34 {104}	41 {125}	55 {166}	69 {208}	104 {312}
75°F {24°C}	12 {36}	18 {54}	24 {72}	29 {90}	35 {107}	47 {143}	59 {179}	89 {269}
78°F {26°C}	10 {30}	15 {45}	20 {60}	25 {75}	30 {90}	40 {120}	50 {150}	75 {225}
80°F {27°C}	8 {25}	12 {37}	16 {50}	21 {63}	25 {76}	33 {100}	42 {126}	63 {189}
Dimensions inches {cm}								
A - Total height	78.5 {199}				76.0 {193}		80.0 {203}	
B - Total width	67.5 {171}				93.0 {236}		114.0 {290}	
C - Total depth	39.0 {99}				56.25 {143}		80.5 {204}	
D - Height, blower assembly	41.75 {106}				60.5 {154}		60.5 {154}	
E - Depth, blower assembly	24.75 {63}				32.0 {81}		38.75 {98}	
Weight lb {kg}								
Shipping (dry)	350 {159}	360 {163}	385 {175}	405 {184}	710 {322}	730 {331}	910 {413}	970 {440}
Operating	705 {320}	725 {329}	750 {340}	765 {347}	1500 {680}	1525 {692}	2610 {1184}	2675 {1213}
Operating with remote sump	425 {192}	445 {202}	470 {213}	485 {220}	970 {440}	995 {451}	1500 {680}	1565 {710}
Voltage Full Load Amps								
208v/3 phase/60 Hz	4.0	5.7	7.5	10.6	16.8	16.8	16.8	24.3
230v/3 phase/60 Hz	3.6	5.2	6.8	9.6	15.2	15.2	15.2	22.0
400v/3 phase/50 Hz	1.9	2.6	3.6	5.0	8.5	8.5	8.5	11.3
460v/3 phase/60 Hz	1.8	2.6	3.4	4.8	7.6	7.6	7.6	11.0
575v/3 phase/60 Hz	1.2	1.8	2.4	3.2	5.0	5.0	5.0	8.0
Connections inches NPT								
Water inlet and outlet†	2.0	2.0/3.0			3.0	3.0/4.0	4.0	4.0/6.0
Make-up water	0.75	0.75			1.0	1.0	1.0	1.0
Overflow and drain	1.0	1.0			2.0	2.0	2.0	2.0
Water requirements ‡								
Inlet pressure psi {bars}	5 - 7 {0.24 - 0.48}				5 - 7 {0.24 - 0.48}		5 - 7 {0.24 - 0.48}	
Maximum inlet temperature	150°F {66°C}				150°F {66°C}		150°F {66°C}	

SPECIFICATION NOTES

* Based on 95°F {35°C} inlet water and 85°F {29°C} outlet water. Consult factory for other conditions. 1 tower ton = 15,000 Btu/hr.

† Side outlet, shown, is optional. The standard bottom outlet is installed at the center of the tower bottom.

‡ Due to the unique interchangeable nozzle design of the E1 Series Cooling Towers, customer specifications must include design flow requirements.

Specifications may change without notice. Contact your Conair representative for the latest information.