

E2 SERIES INDUCED DRAFT MODELS 55 TO 250 TONS



Model E2-150
(with optional access
ladder and installation platform)

EFFICIENT COOLING WITH MINIMUM MAINTENANCE

Conair's E2 series induced draft, counterflow cooling towers offer more cooling, but require less space and less maintenance.

From the rust-proof molded polyethylene tower shell to the corrosion-resistant direct drive fan assembly, E2 towers contain fewer components that could fail and hamper performance.

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

REDUCE WATER AND SEWER USAGE TO SAVE MONEY

Conair cooling towers recirculate process cooling water, paying for themselves in reduced water costs and sewer taxes.

A fixed PVC water distribution system sprays hot water over a continuous coil of angled-baffle PVC decking. The spiral decking design extends the water's travel path and exposure to air, increasing the heat transfer area for efficient cooling.

The fan draws air through inlet louver panels at the base, and then upward through the decking. Heat is removed when water evaporates from the multiple surfaces of the decking.

Options include: variable frequency drives on the fan motor to closely control temperature and save energy; an aluminum access ladder with safety cage; and installation platform.

■ 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.

■ 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

Lightweight design reduces rigging and structural roof support requirements. Everything is factory assembled for easy installation. Simply attach the fan assembly to the tower, and hook up the water and electricity.

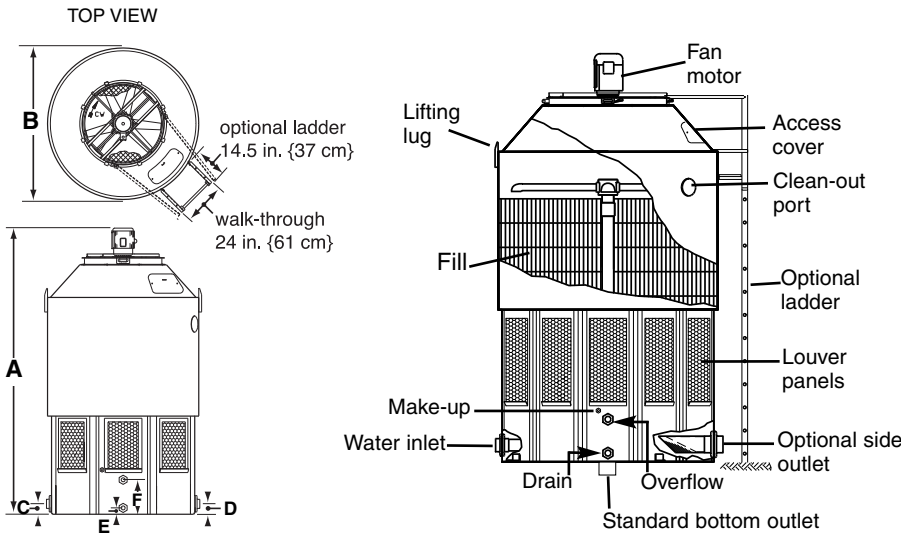
■ 15-year warranty

We're so confident our molded polyethylene shell will not rust, chip or crack, we back it with a 15-year warranty. We also warrant the totally enclosed, direct drive fan motor for five years and provide a one-year parts and labor warranty on the entire tower.



SPECIFICATIONS

**E2 SERIES INDUCED DRAFT MODELS
55 TO 250 TONS**



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.

† For the standard bottom outlet, the maximum opening in the support should be: E2-55 to E2-175, 14 x 14 inches; E2-200 to E2-250, 19 x 19 inches.

‡ Operating weights are based on the following water levels: E2-55 to E2-125, 14 inches; E2-150 to E2-175, 15 inches; E2-200 to E2-250, 16 inches.

§ Due to the unique design of the E2 Series Cooling Towers, customer specifications must include design flow requirements.

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

MODEL	E2-55	E2-70	E2-85	E2-100	E2-125	E2-150	E2-175	E2-200	E2-250
Performance characteristics									
Tower capacity Tons	55	70	85	100	125	150	175	200	250
Sump capacity Gallons {liters}	330 {1249}	330 {1249}	330 {1249}	330 {1249}	330 {1249}	468 {1772}	468 {1772}	718 {2718}	718 {2718}
Fan motor Hp {kW}	2 {1.49}	3 {2.24}	5 {3.73}	5 {3.73}	7.5 {5.59}	7.5 {5.59}	10 {7.45}	10 {7.45}	15 {11.18}
Wet bulb temperature / Output tower tons (GPM)*									
70°F (21°C)	82 {246}	104 {313}	126 {378}	149 {447}	186 {559}	223 {671}	261 {783}	298 {895}	373 {1119}
72°F (22°C)	76 {229}	97 {291}	118 {354}	138 {416}	173 {520}	208 {624}	243 {729}	277 {833}	347 {1041}
75°F (24°C)	65 {197}	83 {251}	101 {303}	119 {359}	149 {449}	179 {538}	209 {628}	239 {718}	299 {898}
78°F (26°C)	55 {165}	70 {210}	85 {255}	100 {300}	125 {375}	150 {450}	175 {525}	200 {600}	250 {750}
80°F (27°C)	46 {138}	58 {176}	71 {213}	84 {252}	105 {315}	126 {378}	147 {441}	168 {504}	210 {630}
Dimensions inches {cm}									
A - Total height	146 {371}	146 {371}	146 {371}	146 {371}	146 {371}	178 {452}	178 {452}	211 {535}	211 {535}
B - Diameter	84 {213}	84 {213}	84 {213}	84 {213}	84 {213}	95 {241}	95 {241}	114 {290}	114 {290}
C - Height to center of inlet	5.75 {14.6}	5.75 {14.6}	6.75 {17.1}	5.75 {14.6}	5.75 {14.6}	9.0 {22.9}	9.0 {22.9}	8.63 {21.9}	8.63 {21.9}
D - Height to center of outlet†	5.75 {14.6}	5.75 {14.6}	6.75 {17.1}	6.75 {17.1}	6.75 {17.1}	6.75 {17.1}	7.75 {19.6}	9.0 {22.9}	9.0 {22.9}
E - Height to center of drain	3.5 {8.9}	3.5 {8.9}	3.5 {8.9}	3.5 {8.9}	3.5 {8.9}	4.0 {10.2}	4.0 {10.2}	4.5 {11.4}	4.5 {11.4}
F - Height to center of overflow	19 {48.3}	19 {48.3}	19 {48.3}	19 {48.3}	19 {48.3}	20.5 {52.1}	20.5 {52.1}	22.0 {55.9}	22.0 {55.9}
G - Height to center of make-up‡	24.5 {62.2}	24.5 {62.2}	24.5 {62.2}	24.5 {62.2}	24.5 {62.2}	25 {63.5}	25 {63.5}	26.5 {67.3}	26.5 {67.3}
Weight lb {kg}									
Shipping (dry)	1180 {535}	1250 {567}	1270 {576}	1510 {684}	1585 {719}	1785 {810}	1925 {873}	3170 {1438}	3365 {1526}
Operating ‡	3980 {1805}	4050 {1837}	4070 {1846}	4235 {1921}	4310 {1955}	5570 {2527}	5810 {2635}	8440 {3838}	8640 {3919}
Operating with remote sump/tank	1385 {628}	1455 {660}	1475 {669}	1715 {778}	1790 {812}	2020 {916}	2260 {1025}	2945 {1336}	3090 {1402}
Voltage Total amps									
208v/3 phase/60 Hz	7.3	12.2	19.4	19.4	25.0	25.0	33.0	33.0	48.0
230v/3 phase/60 Hz	6.6	11.0	16.8	16.8	22.0	22.0	29.0	29.0	42.0
400v/3 phase/50 Hz	3.9	5.5	8.7	8.5	11.3	11.3	15.2	15.2	21.7
460v/3 phase/60 Hz	3.3	5.5	8.4	8.4	11.0	11.0	14.5	14.5	21.0
575v/3 phase/60 Hz	2.4	3.2	5.5	5.5	8.0	8.0	10.5	10.5	16.3
Connections inches									
Water inlet / outlet - Socket style	4.0	4.0	4.0 / 6.0	4.0 / 6.0	4.0 / 6.0	6.0	6.0 / 8.0	6.0 / 8.0	6.0 / 8.0
Make-up water - NPT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Overflow and drain - NPT	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0
Water requirements §									
Inlet pressure / temperature	7-10 psi {0.48-0.69 bars} / 140° F {60°C} maximum								

INSTALLATION NOTES

The tower should be located no less than 5 feet from a single solid wall, or not less than the diameter of the tower from two intersecting walls. The tower must be mounted on a flat rigid surface that is properly supported. All external piping must be independently supported. The fan ring, where air is discharged, should be level or higher than the wall or roof line.

