

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 wetdecking are made of PVC to resist rot, decay and biological attack.



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

Less Water and Sewer Usage; Save Money

Conair cooling towers pay for themselves by recirculating process cooling water, which saves 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

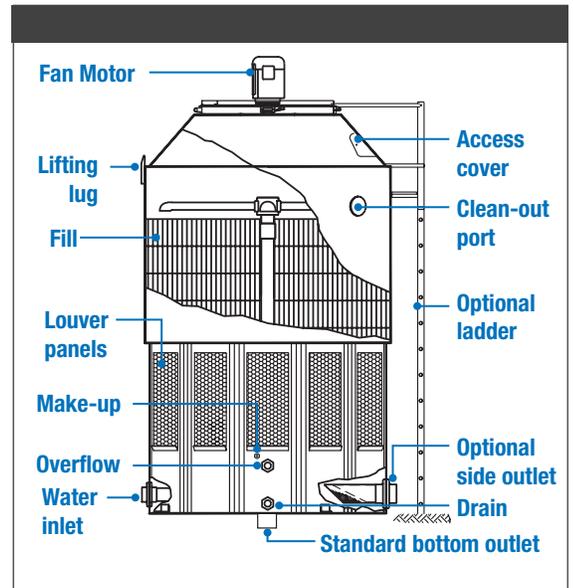
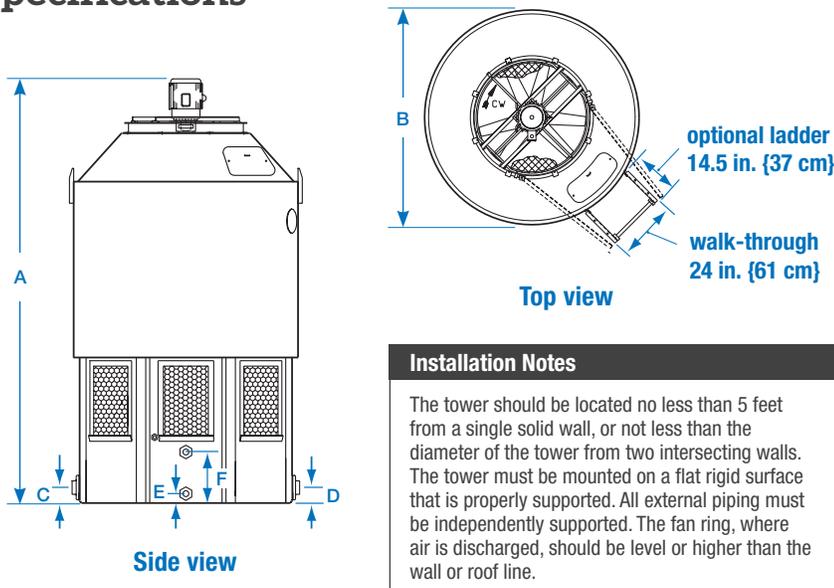
Lightweight design reduces rigging and structural roof support requirements. Everything is factory assembled for easy installation. Simply attach the fan assembly to the tower, and hook up the water and electricity.

▶ 20-year warranty

We're so confident our molded polyethylene shell will not rust, chip or crack, we back it with a 20-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



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}			468 {1772}			718 {2718}			
Fan motor Hp {kW}	2 {1.49}	3 {2.24}	5 {3.73}		7.5 {5.59}		10 {7.45}		15 {11.18}	
Dimensions inches {cm}										
A - Total height	146 {371}			178 {452}			211 {535}			
B - Diameter	84 {213}			95 {241}			114 {290}			
C - Height to center of inlet	5.75 {14.6}	6.75 {17.1}		5.75 {14.6}	9.0 {22.9}		8.63 {21.9}			
D - Height to center of outlet†	5.75 {14.6}			6.75 {17.1}		7.75 {19.6}		9.0 {22.9}		
E - Height to center of drain	3.5 {8.9}			4.0 {10.2}			4.5 {11.4}			
F - Height to center of overflow	19.0 {48.3}			20.5 {52.1}			22.0 {55.9}			
G - Height to center of make-up	24.5 {62.2}			25 {63.5}			26.5 {67.3}			
Approximate 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 full load amps**										
208v/3 phase/60 Hz	7.3	12.2	19.4	19.4	25.0		33.0		48.0	
230v/3 phase/60 Hz	6.6	11.0	16.8	16.8	22.0		29.0		42.0	
400v/3 phase/50 Hz	3.9	5.5	8.7	8.5	11.3		15.2		21.7	
460v/3 phase/60 Hz	3.3	5.5	8.4	8.4	11.0		14.5		21.0	
575v/3 phase/60 Hz	2.4	3.2	5.5	5.5	8.0		10.5		16.3	
Connections inches										
Water inlet / outlet - Socket style	4.0		4.0 / 6.0			6.0		6.0 / 8.0		
Make-up water - NPT						1.0				
Overflow and drain - NPT					2.0		3.0			
Water requirements §										
Inlet pressure / temperature	7-10 psi {0.48-0.69 bars} / 140° F {60°C} maximum									

Specification Notes

* Based on 95°F {35°C} inlet water, 85°F {29°C} outlet water, and 78°F {26°C} entering wet bulb temperature and 3.0 gpm/ton of water flow. 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.

**FLA data for reference purposes only. Does not include any options or accessories on equipment. For full FLA detail for power circuit design of specific machines and systems, refer to the electrical diagrams of the equipment order and the nameplate applied to the machine.

Specifications may change without notice. Consult with a Conair representative for the most current information.

