

Economy Cooling Tank for Tube, Pipe and Profile

ECB Cooling Tanks provide flood cooling or optional spray cooling for profile, tubing, and pipe extrusions up to 6 inches {152 mm}.

The internal plumbing for flood cooling has been designed to provide maximum turbulence to break up the warmer water that tends to surround and insulate the product, allowing maximum cooling efficiency. The spray cooling option enhances the heat transfer rate through evaporative cooling. Support and hold-down rollers keep the buoyant extrusion in place as it passes through the tank. The extrusion can be held above the water level, or submerged in the water of the spray compartment when the spray option is chosen.



Spray or Flood Cooling of Extruded Profiles, Tubing, and Pipe

The ECB Tank, constructed using welded, heavy gauge stainless steel, has two compartments: a long water or spray compartment for controlled cooling of the extrusion, and a short air-wipe compartment for removing water from the extrusion surface as it leaves the water or spray compartment.

The water and spray compartments are sealed by gaskets on each end.

Height adjustment hydraulic jacks at both ends of the tank permit and ensure proper alignment with the extrusion line. Grooved casters and positioning screws also ensure proper tank alignment is maintained. The optional closed water recirculation reservoir, pump, and heat exchanger can interface with your portable chiller or central chiller for reduced water consumption.

▶ Simplified features in an economy package

Vertical adjustment is completed by pumping a pair of hydraulic jacks built into the tank support system.

▶ Tank lengths from 6 to 30 feet {183 – 914 cm}

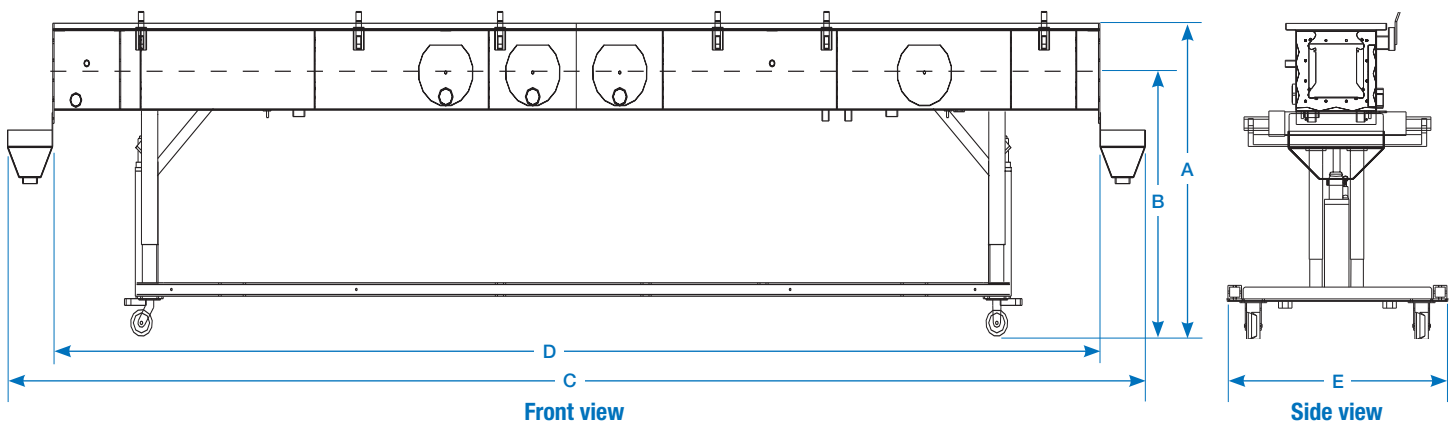
Cross sections range from 8 x 12 {20 x 31 cm} to 16 x 16 inches {41 x 41 cm}. The wide range of sizes allows you to choose a tank that meets your needs.

▶ Options to meet your needs

- Add a 2 Hp (40 gpm) recirculation system to the 12 or 25 foot lengths, or a 5 Hp (100 gpm) to the 30 foot model. The system includes a brazed plate heat exchanger, reservoir, and strainer filter.
- An advanced filtration system with flush capabilities can also be supplied
- An array of 4, schedule 80 PVC water distribution manifolds with brass spray nozzles for advanced evaporative cooling
- CE certification
- UL certification



Specifications



Models	ECB-1				ECB-2				ECB-4				ECB-6							
Tank length ft.	7				12				16				21				30			
Performance characteristics																				
Tube/profile capacity	1 inch {25 mm}				Up to 2 inches {50 mm}				Up to 4 inches {101 mm}				Up to 6 inches {152 mm}							
Pumps	0.5 Hp				2 Hp or 5 Hp				2 Hp, 5 Hp or 7.5 Hp											
Number of compartments	2																			
Size - Cooling / Air wipe ft. {mm}	6 inch {152 mm} / 1 inch {25 mm}		11 {3353} / 1 {305}		15 {4572} / 1{305}		20 {6096} / 1{305}		29 {8839} / 1{305}		11 {3353} / 1{305}		15 {4572} / 1{305}		20 {6096} / 1{305}		29 {8839} / 1{305}			
Dimensions inches {mm}																				
A - Overall height	55 {1397}																			
B - Height to centerline	42 {1067} Centerline height is adjustable \pm 2 inches {50.8 mm}																			
C - Overall length	84 {2134}		180 {4572}		216 {5486}		288 {7315}		396 {10058}		180 {4572}		216 {5486}		288 {7315}		396 {10058}			
D - Tank length ft {m}	7 {2.1}		13.5 {4.1}		17.5 {5.3}		22.5 {6.9}		31.5 {9.6}		13.5 {4.1}		17.5 {5.3}		22.5 {6.9}		31.5 {9.6}			
E - Overall width	30 {762}				48.5 {1232}															
Tank compartment width*	8 {203}				12 {306}				14 {356}											
Tank compartment height	8 {203}				12 {306}				14 {356}											
Approximate weight lb {kg} †																				
Shipping	700 {318}		2200 {998}		2800 {1270}		3500 {1587}		4500 {2041}		2200 {998}		2800 {1270}		3500 {1587}		4500 {2041}			
Voltage Full load amps †																				
240 V/3-phase/50-60 Hz	Consult Conair																			
480 V/3-phase/50-60 Hz	Consult Conair																			
Water requirements																				
City, tower, or chiller water; main supply line 1 inch NPT fitting																				

Specification Notes

* You will need a V-groove caster adapter if you have rails that are not spaced 25 inches {635 mm} apart. Adapters are available for rails with centerline spacing of 22 to 25 inches {559 to 635 mm}.

† Weights are based on standard configuration only and do not include any of the available options.

‡ Consult factory. Amp draws will be based on options selected.

These tables define standard configurations only.

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

Application Notes

The base tank is supplied without the recirculation system. The tank is drained by gravity.

