

Conserve Space with Multi-pass Flood Cooling

Conair's MPCB Series multi-pass tanks are designed for applications where space is tight and a combination puller/cooling tank is needed. The MPCB tank utilizes servo driven multi-pass sheaves within the cooling tank to circulate product multiple times within a limited space. Multi-pass tanks, a Conair invention, are designed to minimize floor space and water consumption by utilizing a shorter length of tank for multiple passes of product. Product can pass through the three compartments of the MPCB tank up to five times, thus giving 120 feet {36 m} of flood cooling with only a 27-foot long {8 m} footprint (MPCB-24 model).



Model MPCB-24

Use 80% Less Floor Space!

MPCB multi-pass tanks are designed for bath cooling up to 1/2 inch tubing. The multi-purpose tanks use up to five times less floor space compared to standard cooling tanks. MPCB tanks incorporate a servo-driven 20-inch {508 mm} primary sheave that doubles as a puller. The large diameter and controlled pull force avoid tube flattening and distortion. Sheaves can be machined to a particular tube diameter, improving accuracy over belt pullers by eliminating the normal "crush" effect. The driven sheave significantly shortens the travel distance of the tube before pickup, minimizing stretch and tension.

Precision glass bearings on non-driven sheaves reduce drag and stretching as the tubing makes subsequent passes through the tank at line speeds up to 800 feet/minute {243 meters/minute}.

▶ Space-saving technology

Conair designed multi-pass tank technology to help alleviate a common pain point – space, and long extrusion line lengths. As an added benefit, the multi-pass tanks use less water, and allow for easy supervision of the product cooling all within one tank, close to the extruder if adjustments to the process are required.

▶ Simplified cleanout

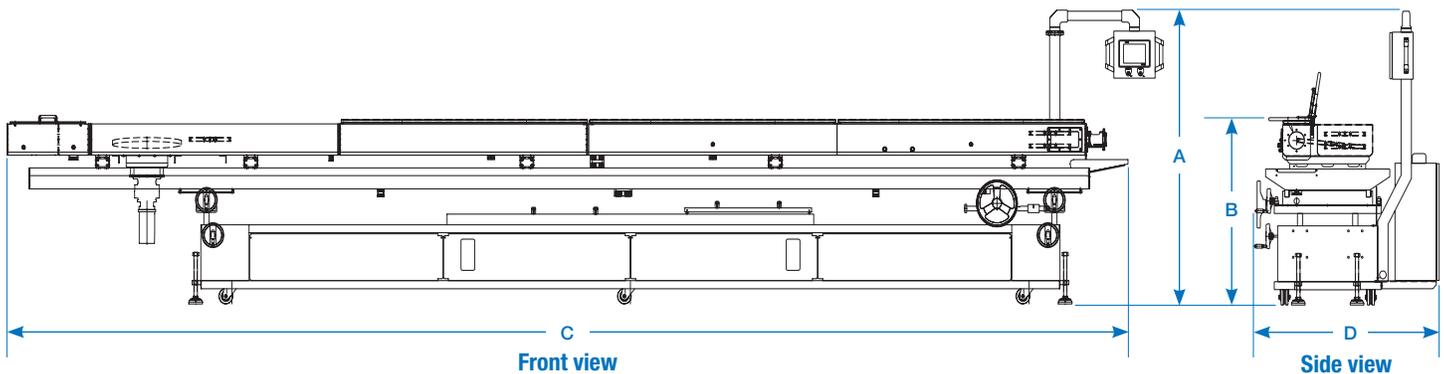
The stainless steel tank interior is designed to ease daily cleanout by minimizing sharp corners and exposed threads where bacteria, pyrogens and other particulate matter can accumulate. The telescoping drip tray is one-piece to aid in wipe-down by eliminating open seams. Guide rollers inside the vacuum tank are fixed to free-standing mounts to allow removal for cleaning

▶ Integrated components save cost

The MPCB tank integrates a single-piece drip tray, primary puller, multi-pass cooling, and air wipe chamber into a single package, eliminating added cost and space requirements for stand-alone components.



Specifications



Models	MPCB-18	MPCB-24
Performance characteristics		
Capacity (tube)	Up to 0.5 inch {12.7 mm} diameter	
Compartments	3	
Number of passes	Up to 5	
Water circulation pump (open)	2 Hp	
Water system contacts	Non-ferrous	
Dimensions inches {mm}		
A - Overall height	74 {1879.6}	
B - Tank height	8 {203}	
C - Overall length feet {mm}	21.25 {6477}	27.20 {8290.56}
D - Overall width	55 {1397}	
Cooling chamber length feet {mm}	18 {5486}	24 {7315}
Cooling chamber width	26 {660}	
Air wipe chamber length	24 {610}	
Primary (driven) sheave diameter	20 {508}	
Secondary (non-driven) sheave	12 {304}	
Adjustments	3-plane manual	
Centerline height	42 ±2 {1066.8 ±50.8}	
Construction		
Tank material	Stainless steel	
Full length splash tray	Stainless steel	
Tank roller brackets*	18	24
Base frame	Welded painted steel	
Weight lb {kg}		
Shipping	3400 {1542}	3900 {1769}
Voltage Full load amps †		
460V/3 phase/60 Hz	Consult Conair	

Options

- Left-to-right direction
- Special paint
- Passivation of stainless components to minimize corrosion caused by surface impurities that is recommended for medical applications
- Stainless steel frame
- Stainless steel and plastic plumbing package with no copper or brass
- 230/3/60, 380/3/50 or 575/3/60 power supply
- Servo driven 20-inch first pass roller to minimize rubber band effect
- Mounting of customer supplied ultra-sonic wall unit in first 18 inches of vacuum chamber with water connections including debubbling unit for water input and two adjustable roller pedestals
- Trojan (model) UV Max ultraviolet water treatment unit
- Minntech (model) polypropylene filter housing with 5 micron rating filter
- Two additional non driven wheel for five pass operation
- CE Certification
- UL Certification

Specification Notes

* Tubing rollers not included.

† 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.

