

## High-Intensity Spray for more Rapid Cooling

Conair MSBHI Series cooling tanks produce a high-pressure spray that cools tube and profile extrusions faster and in less space than immersion tanks.

For pipe and tube of significant mass, immersion tanks compromise cooling efficiency due to the formation of an insulation layer over the hot product surface. MSBHI high intensity spray tanks eliminate this problem and increase cooling efficiency through the process of extreme turbulent cooling. Cooling water droplets striking the hot surface rapidly conduct the heat away and are driven off in a continuous process.



**MSBHI 24-12**

## Keyhole Tank Design: Minimizes Plumbing / Enhances Flow

The keyhole design of MSBHI tanks incorporate the spray and reservoir tanks into one compartment. The combination requires less plumbing, minimize future maintenance, and improves water flow through the tank for more efficient cooling of extruded products.

All standard MSBHI models include an integral reservoir/spray tank, individual control of all spray zones (VPTOX), a spray system sized for up to 100 gpm {379 liters/min}, stainless steel lids and adjustable tank height and side-to-side movement.

For faster cooling rates, you can increase the flow rate to as much as 220 gpm {833 liters/min} and cooling efficiency with an optional process pump and heat exchanger. Other options include motorized tank forward, reverse movement and clear lids.

### ► **Easy to operate**

Built-in water manifold system has water valves dedicated to each spray chamber. Individual spray bars control the direction of the spray to optimize cooling for each product's geometry. Quick dump valves are provided for draining the tank.

### ► **Stainless-steel components**

The tank, water reservoirs, and drip pans are stainless steel. Other surfaces are painted for corrosion resistance.

### ► **Tank lengths of 16 to 24 feet {4.9 to 7.3 meters}**

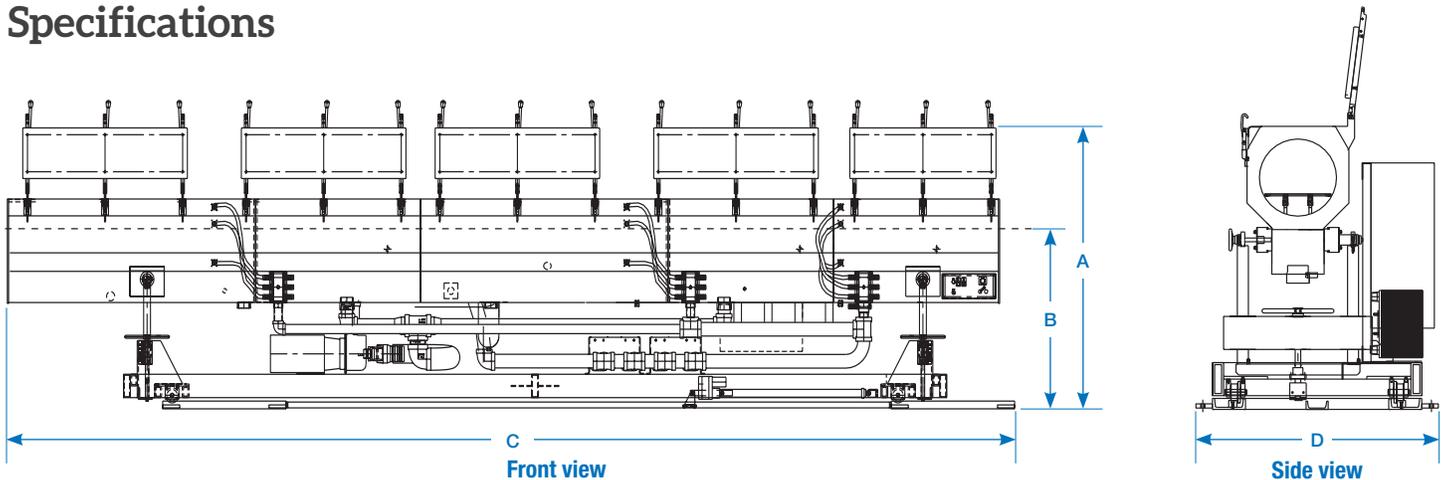
The MSBHI is available in a range of sizes; from a 16-foot {4.9 meters}, two-chamber tank to the 24-foot {7.3 meters}, three-chamber tank.

### ► **Options to fit your needs**

Optional recirculation and heat exchanger packages increase cooling efficiency by circulating from 100 to 220 gallons {379 to 833 liters} of cold water per minute around the extrudate. Reduce maintenance with a filter system for optional 7.5 or 10 Hp process pumps. Also available: Four foot start-up chamber for flood or independent vacuum and recirculation system, motorized forward and reverse tank movement and nozzle spray bar configuration.



## Specifications



Models		
Tank Style	16-12	24-12
<b>Performance characteristics</b>		
Tube/profile capacity inches {mm}	Up to 12 {305}	
Number of compartments	1	
Length of compartments ft {cm}	16 {488}	24 {732}
<b>Tank movement inches {mm}</b>		
Width	± 1.5 {38}	
Height	± 2.5 {64}	
<b>Dimensions inches {mm}</b>		
Overall length ft {cm}	17 {518}	25 {762}
A - Overall height inches {mm}	60 {1524}	84 {1524}
B - Height to centerline inch {mm}	39 {991}	
C - Tank length ft {cm}	16 {488}	24 {731}
D - Overall width inches {mm}	53 {1346}	
Tank compartment width inch {mm}	12 {306}	
Tank compartment height inch {mm}	8 {203}	
Bulk head diameter inch {mm}	12 {305}	16 {406}
<b>Weight lb {kg}</b>		
Shipping	4000 {1814}	4800 {2177}
<b>Voltage Full load amps †</b>		
230V/3 phase/60 Hz	Consult Conair	
460V/3 phase/60 Hz (Std.)	Consult Conair	
<b>Water requirements ‡</b>		
100 gpm {379 liters/min} (if purchased without pumps) main supply line 1 inch NPT fitting		

### Specification Notes

\* Amp draws will increase with the addition of an optional pump(s).

† 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.

‡ Consult factory for 32 ft {975 cm} and 40 ft {1219 cm} models for pipe and profile applications.

This table defines pipe and profile configurations only.

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

### Application Notes

The base unit is supplied without pumps. Using plant supplied water nearly 100 gpm can be circulated through the tank. The tank is drained by gravity.

## Options

- **Left-to-right extrusion direction**
- **Thermometer** for upper tank or reservoir
- **7.5 Hp water circulation system** including high performance stain less steel brazed plate heat exchanger. For extrusion rates less than 600 pounds per hour. Rated for 180 gallons per minute at 40 psi based on 45 °F chiller temperature and 30 gallons per minute flow rate to the heat exchanger. Includes 3 inch turbo filter which is rated for 200 gallons per minute
- **10 Hp water circulation system** including high performance stain less steel brazed plate heat exchanger. For extrusion rates less than 800 pounds per hour. Rated for 220 gallons per minute at 40 psi based on 45 °F chiller temperature and 45 gallons per minute flow rate to the heat exchanger. Includes two 3-inch turbo filters which are rated for 200 gallons per minute
- **Additional 2-inch or 3-inch turbo filter** with three way valve and two check valves enabling in line switching of filters for cleaning
- **Built in rail system** with electronic actuator with 36-inch travel and single speed of 0.6 inches per second forward and reverse
- **AC inverter and selector switch** allowing slow speed 0.2 inches per second and fast speed 0.6 inches per second via selector switch
- **5 Hp liquid ring vacuum pump** powered by 7.5 Hp motor and 72 cubic feet per minute. For vacuum levels upto 20 inches of mercury All chambers are connected to the single vacuum pump and served by one common integrated reservoir
- **Bolt-on-air wipe chamber** includes lock line nozzles
- **Special roller rack system** for solid profiles
- **Custom paint**
- **Eight contoured product rollers**
- **Four foot flood cooling compartment**
- **One inch thick clear lids** for ease of process observations including hold down clamps for water retention

