



VULCAN MACHINERY CORP.

20 N CASE AVE AKRON OH 44305
PH: 330.376.6025
F: 330.376.2172
info@vulcanmachinery.com

Engineering Makes The Difference™

**CONVEYORIZED STRAND SPRAY COOLING TANK
CST-Series**



Model Number	Belt Contact Length (feet)	Belt Width (inches)	Approx. number of strands
CST10	10	10	20
CST15	15	15	35
CST20	20	20	50
CST25	25	25	60
CST30	30	30	80

APPLICATION:

- The Conveyorized Strand Spray Cooling Tanks have been designed for the water mist spray cooling of stranded plastics as applicable to the pelletizing market. This approach is particularly suited for the cooling and handling of hygroscopic materials where the limiting of the exposure of the strand extrudates to less moisture than absorbed in full emersion tanks is desired. Vulcan spray cooling units are also available with optional forced air and vacuum water removal systems.

TANK:

- 12 gallon, 304 stainless steel construction
- ½" thick bulkheads are split UHMW construction for contouring to extrudate profile
 - ¼" thick rubber gasket bulkheads are available
- 2' air wipe compartment with ½" thick Lexan lids
 - Optional air wipe system available

FRAME:

- Heavy wall tubing, steel plate and structural sections
- Two rigid and two swivel casters and hold-downs
- Screw type floor jacks
- Fully guarded drive train and electrical components

BELT:

- Belt type – stainless steel mesh with belt take-up

WATER SPRAY SYSTEM:

- Atomizing spray nozzles of sufficient quantity are located to cover the complete belt width over the predetermined spray length
- Articulated spray manifold can be moved out of spray position to accommodate threading of the line if desired
- If units is furnished with optional lids, the spray bars are attached to the underside of the lids

RECIRCULATION SYSTEM (optional):

- Recirculation system to consist of collection tank for spray water, pump, filter and heat exchanger
- System completely piped requiring only the connection of supply, and returns lines from heat exchanger to customer's chilled water source

ELECTRICAL:

- Standard Electrical is 230 Volt/3 Phase/60 Hertz
 - Electrical other than the above is available as an option

OPTIONS:

- Longer or wider belts for higher bulk rates or higher line speeds are available as options
- Standard units furnished for permanent installation without casters or hold-downs
- Evaluated exit end of spray cooling units to match entrance to pelletizer
- Hinged lids to spray tank with spray bars mounted on lids. Spray bars are automatically shut-off when lids are opened
- Positive air pressure water removal system or combination of positive air pressure and vacuum water removal system



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