



SIMPSON[®]
TECHNOLOGIES

Model #MC-300
Simpson Multi-Cooler[®]



Description

The [Simpson Multi-Cooler](#) is the world's most popular sand cooling and pre-conditioning equipment. The Multi-Cooler is available in sizes to match operations ranging from small jobbing foundries to large-scale automated facilities.

Features & Benefits

- Crib design insures "minimal sand" in the air plenum.
- Exterior of the crib and interior of the air plenum are fabricated from steel. The floor of the Multi-Cooler is constructed of abrasion resistant replaceable ceramic tiles.
- Eight plows faced with wear resistant carbide.
- An electromechanically actuated discharge door, which maintains sand discharge rate equal to charge rate.
- Automatic in-line moisture control.
- Dual drive, consisting of two speed reducers. The reducers are coupled to the vertical shafts with pin-type couplings, replaceable pins and bushings.
- A pneumatic disc clutch permits starting and stopping with a full load of sand.
- Centralized lubrication system.
- Dusthood, cyclone and PLC based controls.
- Discharge sand temperature at or below 120°F.
- Reduced variation in key sand properties.
- Reduced sand defects and scrap caused by hot sand.
- Reduction in bentonite consumption (w/optional BAS).



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Technical Data

Specification	300MC
Capacity (US) (Tons/hr)	300
Cooler Length	24'-4 5/8"
Overall Width	15'-6"
Overall Height	18'-4 3/8"
Cooler Width	14'-4 1/8"
Clearance Under Discharge Door	59 1/4"
Typical Fan Length	81 1/2"
Typical Overall Length	34'-2 1/8"
Drive Motor hp/rpm	250/1,200
Supply Fan hp/rpm/cfm	125/1,800/31,700
Exhaust cfm	39,400
Shipping Weight (lbs)	44,000