



SIMPSON[®]
TECHNOLOGIES

Model #MC-50
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	50MC
Capacity (US) (Tons/hr)	50
Cooler Length	11'-4"
Overall Width	7'- 7"
Overall Height	10'-3 ³ / ₄ "
Cooler Width	6'-9 ¹ / ₂ "
Clearance Under Discharge Door	38 3/8"
Typical Fan Length	33 ³ / ₄ "
Typical Overall Length	17'-6 3/8 "
Drive Motor hp/rpm	30/1,800
Supply Fan hp/rpm/cfm	25/3,600/5,300
Exhaust cfm	6,600
Shipping Weight (lbs)	8,500