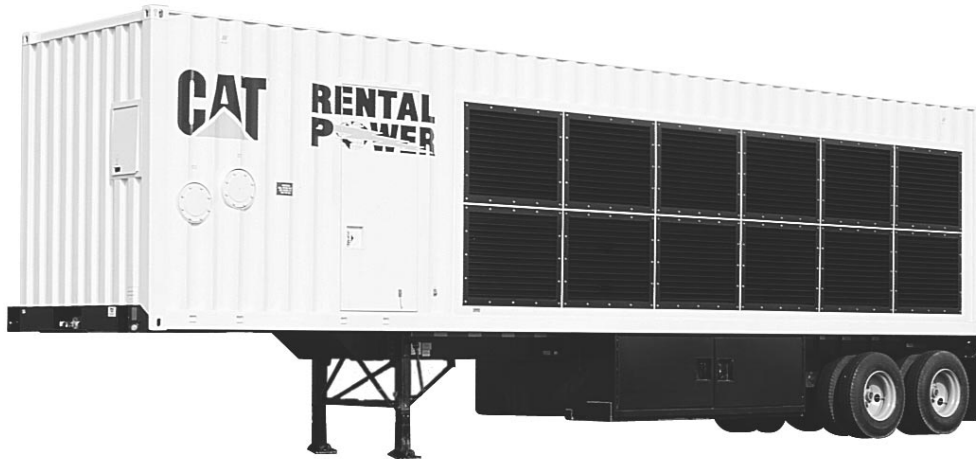




# 450-Ton Air-Cooled Rental Chiller Module



## MODULE COMPONENTS

- Three (3) 150-ton York air-cooled reciprocating chillers with microcomputer control centers for operating and safety controls
- Separate refrigeration circuits to provide redundancy up to six (6) 75-ton compressors
- One (1) 50 hp Bell and Gossett pump that delivers 500-1600 gpm (1000 gpm nominal) at 100 feet of head pressure (this provides flexibility for systems requiring different flows)
- Triple-duty valves to dial in the proper flow to the evaporators
- Butterfly valves to dial in the evaporator bypass loops
- In-line water strainers to protect system from foreign objects
- Insulated water lines to prevent condensation
- Refrigeration lines fitted with vibration absorbers to prevent vibration damage
- Low flow bypass on the evaporator lines to prevent chiller shutdown in low flow conditions

## CAT® ISO CONTAINER AND TRAILER

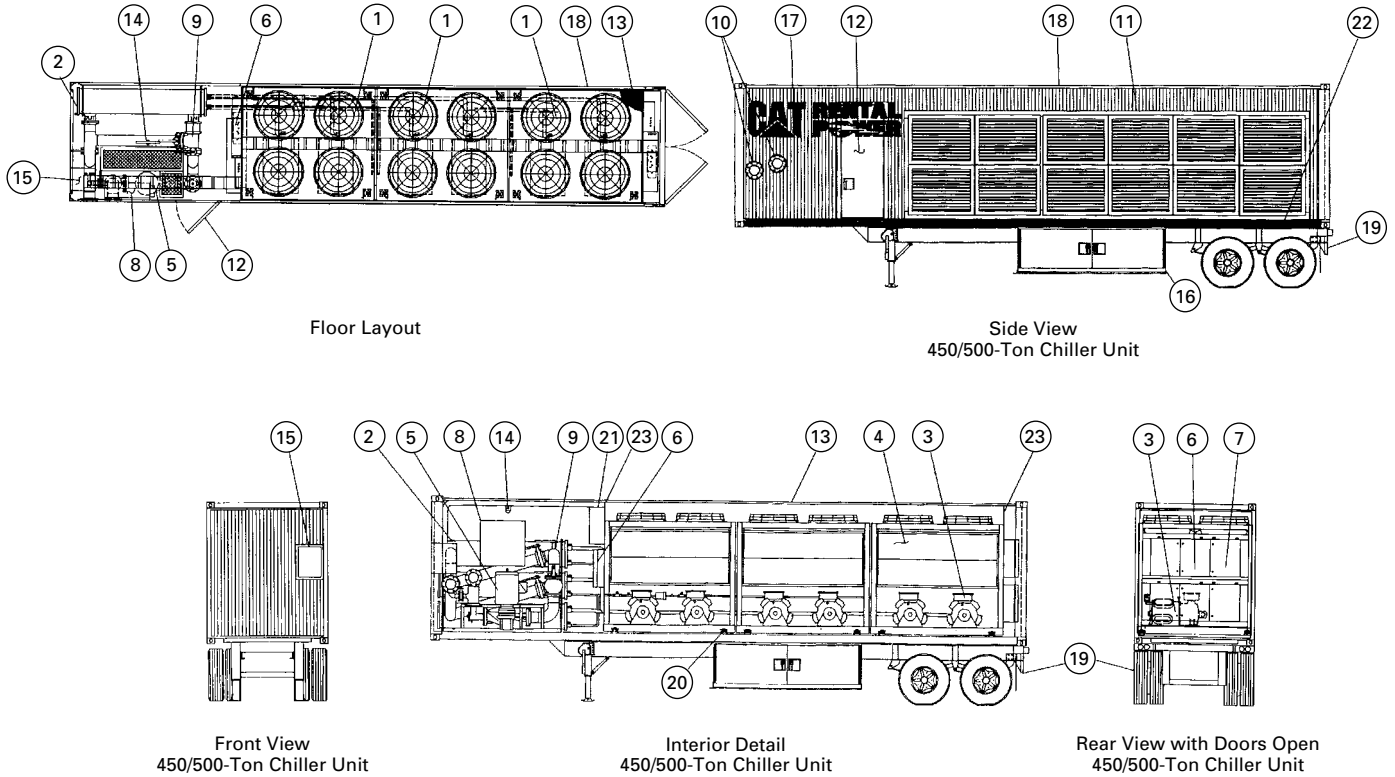
- One (1) 40-foot ISO container
- Two (2) 8-inch flanged, evaporator water connections with external access for ease of connections
- Storage box on chassis for storage of hose, cable, and fittings
- Lockable bus bar access door to keep unauthorized personnel from accessing high voltage cables

- Lockable doors to prevent unauthorized entry
- Air ride chassis to help prevent road vibration
- Removable air intake louvers to provide ease of serviceability

## ELECTRICAL AND CONTROL PANELS

- Total Full Load Amps = 953 amps @ 480 volt/ 3 phase/60 hertz
- Bus bar configuration with three (3) feeds each including three (3) phases and one (1) ground
- Caterpillar Motor Control Center provides protection from power surges and peaks, and provides disconnects for each compressor and pump
- Phase rotation light to ensure proper power installation
- "Control Power On" lamp to notify user that 480 volt is present
- Convenient 120 volt inlets allow user to supply power to warm up crankcase heaters prior to running, which allows 480 volt power to be disconnected
- 120 VAC lighting for lighting without 480 volt power supply
- Copper distribution buswork designed per UL specifications
- Six (6) 250 amp feeder circuit breakers, one per compressor
- NEMA rated motor starters for circulating pumps with HAND-OFF-AUTO controls for each pump
- One (1) 5 kV•A control transformer for module auxiliaries

### DIMENSIONS



- |  |   |                             |
|--|---|-----------------------------|
| ① Reciprocating Liquid Chiller         | ⑧ Distribution/Motor Control Center     | ⑯ Cable Storage Box         |
| ② Dual-Circuit Cooler                  | ⑨ 8-inch System Piping                  | ⑰ Caterpillar Rental Decals |
| ③ Semi-Hermetic Compressor Motor       | ⑩ Customer Connections – 8-inch flanges | ⑱ 40-ft ISO Container       |
| ④ Black Fin Coated Condenser Coils     | ⑪ Exterior Ventilation Louvers          | ⑲ Air-Ride Undercarriage    |
| ⑤ In-Line Centrifugal Circulation Pump | ⑫ Entrance Door                         | ⑳ Vibration Isolators       |
| ⑥ Chiller Microcomputer Control Center | ⑬ Roof Exhaust Opening                  | ㉑ Feeder Panel              |
| ⑦ Power Panel for Compressors and Fans | ⑭ 120 VAC Light                         | ㉒ Channel Reinforcement     |
|  | ⑮ Exterior Electrical Connections       | ㉓ Baffles                   |

The container meets or exceeds the following standards and regulations.

- ISO/TC 104 requirements for cargo containers.
- ANSI/MH5.1 basic requirements for closed van containers.
- UIC code 592-1 International Union of Railway.

Maximum weight allowed on interstate highways is 34 000 lbs. on rear axles (40 000 lbs. with permit). This unit typically weighs 57 000 lbs. as shipped. The complete unit weighs 62 660 lbs. with chassis. Empty chassis weighs 7000 lbs. These weights do not include tractor.

Consult your Caterpillar representative for details.