



# 300-Ton Air-Cooled Rental Chiller Module



## MODULE COMPONENTS

Two (2) 150-ton York air-cooled reciprocating chillers with microcomputer control centers for operating and safety controls  
Separate refrigeration circuits to provide redundancy up to four (4) 75-ton compressors  
Two (2) 20 hp Bell and Gossett pumps that deliver 250-700 gpm (360 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

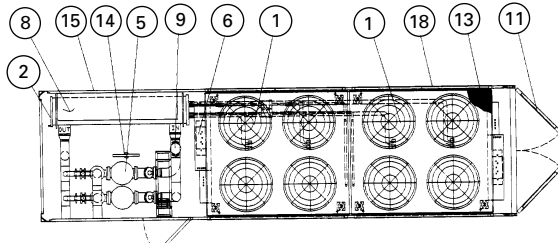
One (1) 30-foot ISO container  
Two (2) 6-inch flanged, evaporator water connections with external access for ease of connections  
Storage box on chassis for storage of hose, cable, and fittings  
Lockable bus bar access door to keep unauthorized personnel from accessing high voltage cables

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

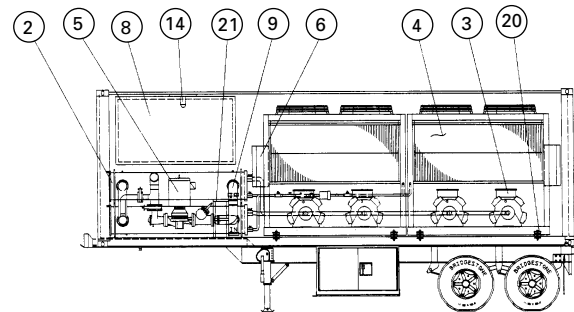
## ELECTRICAL AND CONTROL PANELS

Total Full Load Amps = 658 amps @ 480 volt/  
3 phase/60 hertz  
Bus bar configuration with two (2) 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  
Two (2) 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  
Four (4) 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) 3 kV•A control transformer for module auxiliaries

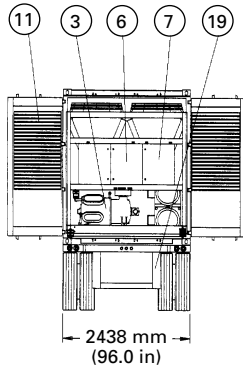
### DIMENSIONS



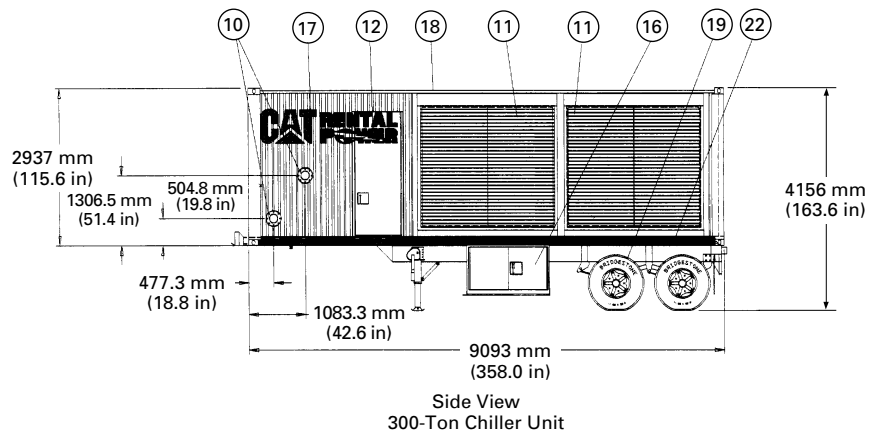
Floor Layout



Interior Detail  
300-Ton Chiller Unit



Rear View with Doors Open  
300-Ton Chiller Unit



Side View  
300-Ton Chiller Unit

- |  |  |                                   |
|--|--|-----------------------------------|
| ① Reciprocating Liquid Chiller         | ⑦ Power Panel for Compressors and Fans | ⑮ Exterior Electrical Connections |
| ② Dual-Circuit Cooler                  | ⑧ Distribution/Motor Control Center    | ⑯ Cable Storage Box               |
| ③ Semi-Hermetic Compressor Motor       | ⑨ 6-inch System Piping                 | ⑰ Caterpillar Rental Decals       |
| ④ Black Fin Coated Condenser Coils     | ⑩ Customer Connections                 | ⑱ 30-ft ISO Containers            |
| ⑤ In-Line Centrifugal Circulation Pump | ⑪ Exterior Ventilation Louver          | ⑲ Undercarriage Arrangement       |
| ⑥ Chiller Microcomputer Control Center | ⑫ Entrance Door                        | ⑳ Vibration Isolators             |
|  | ⑬ Roof Exhaust Opening                 | ㉑ Bar Grate Walk Platform         |
|  | ⑭ 120 VAC Light                        | ㉒ Channel Reinforcement           |

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). The complete unit weighs 40 000 lbs. with chassis. Empty chassis weighs 8500 lbs. These weights do not include tractor.

Consult your Caterpillar representative for details.

Materials and specifications are subject to change without notice.

The International System of Units (SI) is used in this publication.