



Shown with
Optional
Equipment



RENTAL MODULE

450 Ton

Cat®/York® air cooled screw chillers are self-contained and provide chilled water for outdoor rental air conditioning and process applications. Each unit includes: York air cooled semi-hermetic screw chiller with a weather-resistant microprocessor control center, water fittings, triple duty valves, and in-line water strainers, all mounted on a formed steel base frame. This unit is reinforced with an industrial rugged, rental ready, framed enclosure for increased durability and strength. Units meet or exceed industry guidelines and third party safety and quality standards.

TECHNICAL SPECIFICATIONS

Model	CH450
Dimensions — ft (m)	
Length	42' (12.80) in transit; 50' (15.24) in use
Width	8' (2.44)
Height	13' 6" (4.11)
Total shipping weight — lb (kg)	
with container and chassis	38,126 (17,293)

Water connections — in (mm)	8 (203)
Single point power supply	460 V / 3 PH / 60 Hz
Electrical connections.	Series 16 cam-loc (common bus)
Running load amps (with pump)	750
Minimum circuit ampacity (with pump)	791

FEATURES

COMPONENTS

- York air cooled semi-hermetic screw chiller
 - Four (4) semi-hermetic screw design compressors. One compressor per refrigerant system.
 - Evaporator equipped for freeze protection down to -20° F (-29° C) ambient.
 - Condenser coils design working pressure of the coil is 450 psig.
 - Controls housed in NEMA 3R/12 air/liquid-tight cabinet with LCD with back lighting for outdoor viewing. Forty characters in plain English terms with color-coded 12-button non-tactile keypad.
 - Provisions included for pumpdown at shutdown; unit alarm contacts standard. Operating program stored in non-volatile memory (EPROM), eliminating chiller failure due to AC powered failure/battery discharge.
 - Control transformer steps down incoming 460/3/60 power to supply 115/1/60 control power.
 - Black fin corrosion resistant coating protects condenser in harsh industrial/saltwater environments (optional feature)

- One (1) 40 hp (29.8 kW) Bell & Gossett pump mounted internally to frame (optional feature)
 - Range 330 to 1,060 Gal/min (1251 to 4017 L/min) — 1,005 Gal/min (3809 L/min) nominal at 100 feet (30.5 m) of head pressure providing system flexibility
- Infinite position triple duty valve to dial in the evaporator bypass loop
- Insulated water and suction lines to prevent condensation

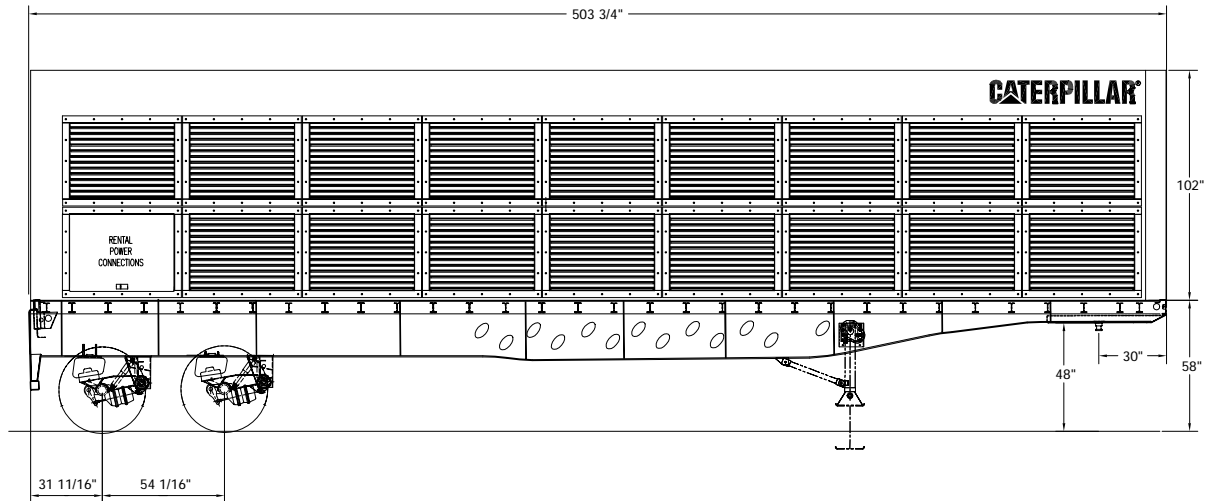
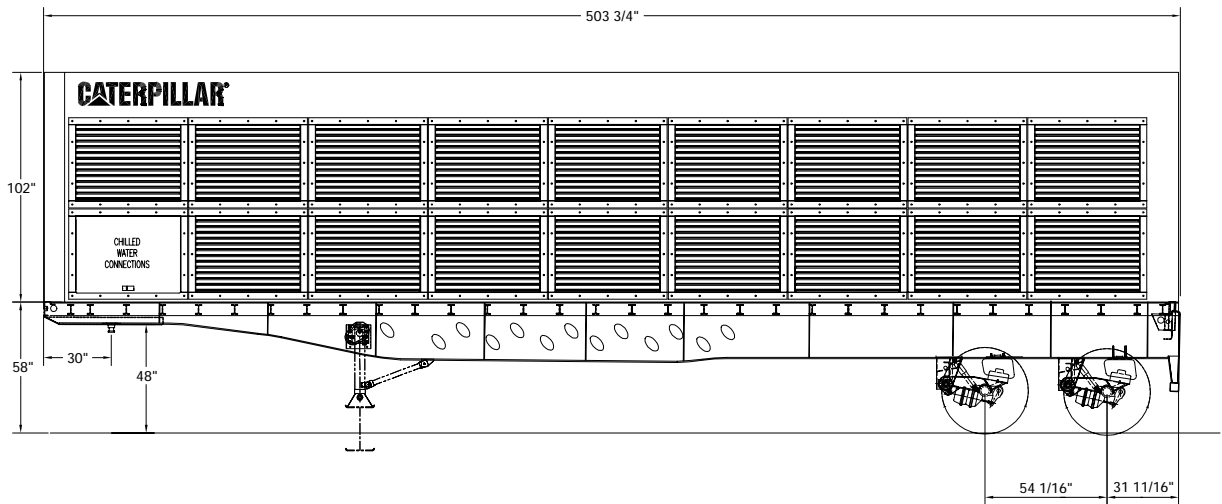
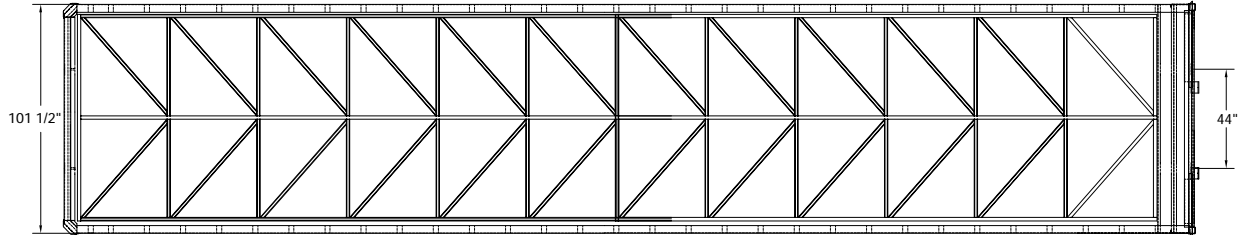
CONTROL/POWER CENTER

- Single point non-fused disconnect power supply connection with individual system circuit breakers
- NEMA rated motor starters for circulating pumps with manual HAND-OFF-AUTO controls for each pump
- Convenient 120 Volt outlet provides users a power supply right at the chiller.
- Power panels include: 3-light system to notify 460 Volt present, correct phase rotation, and available shore power. Compressor power terminals and motor starting contactors, fan contactors, and overload current protection. Power wiring routed through liquid tight conduit to compressors.

AIR COOLED SCREW CHILLER



DIMENSIONS



Consult your Caterpillar representative for more details.

www.CAT-ElectricPower.com

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