

# 207 Ton Portable Air Cooled Screw Chiller (575V)



**MOBILE**  
Air & Power Rentals

a division of Resolute Industrial

Mobile Air Portable Air Cooled Screw Chiller packages are self-contained and specifically engineered to provide flexible, temporary chilled fluid for commercial and industrial air conditioning and process cooling applications. The chiller package is permanently mounted on a rugged steel tubular frame that can be easily maneuvered with a forklift. These on-board features allow for quick delivery and minimal installation time.

## Chiller Features

- Standard efficiency, standard IPLV
- Compressor with variable speed drive
- R-134a refrigerant (fully charged)
- Voltage code - (575/3/60)
- SP circuit breaker with system indicator compressor switches
- Control transformer
- Convenience outlet
- North American safety code (cUL)
- Service isolation valve (suction)
- Compressor heaters
- One differential pressure switch per chiller
- ASME pressure vessel and associated codes
- Pre-coated fin condenser coil
- Louvered (condenser only) enclosure panels
- CRN Canadian construction (Ontario and Quebec)

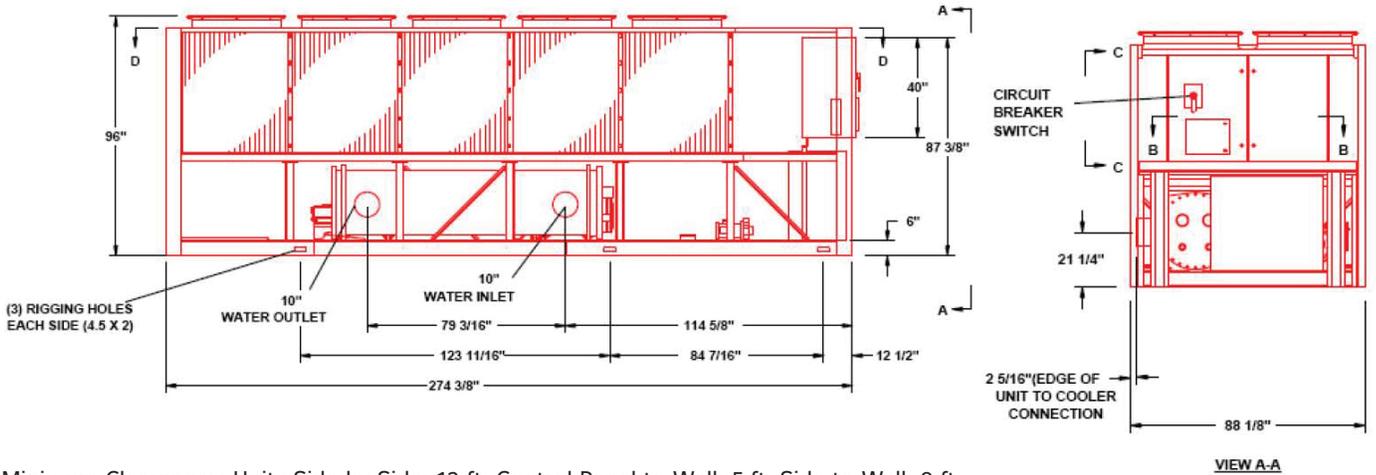
## Package Features

- 20 HP integral pump with bypass option
- Steel tubular skid with fork pockets (4" x 10"; 54" center on center)
- 4" Butterfly valve (inlet / outlet)
- 120V-15A Convenience outlet
- 120V Extension cord shore power option
- 4" strainer
- Flow switch, 4" suction diffuser



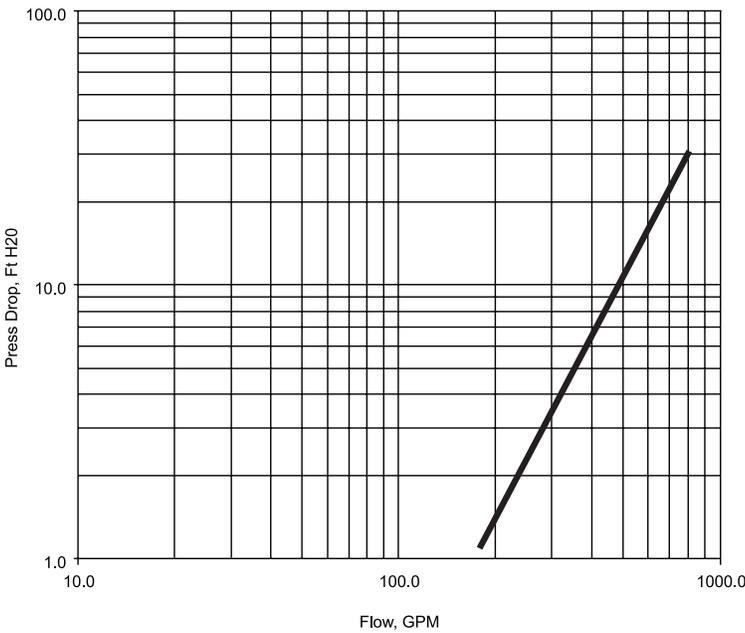
Quick delivery and minimal installation time when you need temporary cooling.

**RENTAL CHILLER PACKAGE**



Minimum Clearances: Units Side by Side: 12 ft, Control Panel to Wall: 5 ft, Side to Wall: 8 ft, Front to Wall: 8 ft. Install unit on flat level surface.

**Cooler Water Pressure Drop**



**General**

Chiller Model Number YCAV0207<sup>(1)</sup>  
 Ambient Operating Range 0-125°F  
 Chilled Water Setpoint Limits 15-60°F  
 Refrigerant Circuits 2  
 Equipment Insurance Value \$190,000

<sup>(1)</sup> See Johnson Controls YCAV Engineering Guide for additional chiller specifications

**Dimensions (Skid Mounted)**

Length 22' 9"  
 Width 7' 3"  
 Height 8' 6"  
 Total Weight 17,880 lbs

**Electrical**

Single Point Power Supply 575V / 3Ø / 60Hz  
 Connections (1 per Ø) Series 16 Cam Type  
 Running Load Amps 285A<sup>(2)</sup>  
 Minimum Circuit Ampacity 319A<sup>(2)</sup>

<sup>(2)</sup> Includes 20HP Pump (19A)

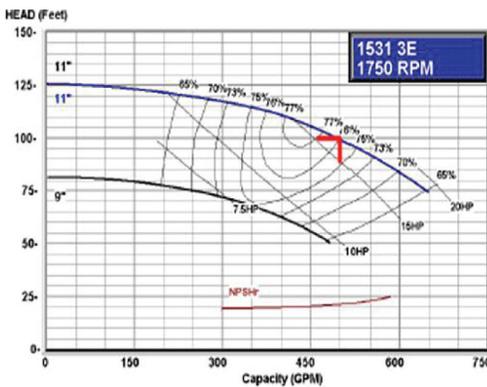
**Evaporator Flow**

Minimum 180 GPM  
 Nominal 474 GPM  
 Maximum 800 GPM  
 Fluid Connections 4", Grooved  
 Maximum Water Side Pressure 150 PSIG  
 Evaporator Volume 140 GAL

**Cooling Capacity (Tons)**

Actual capacity subject to leaving temperature, fluid utilized, and ambient conditions.

LCWT (°F)	LBT (°F)	OUTDOOR AMBIENT (°F)			
		75	85	95	105
50		226.9	222.0	214.8	200.4
44		207.2	202.9	197.6	185.4
40		194.8	190.9	186.4	176.0



Design Capacity = 500.0 GPM  
 Design Head = 100.0 Feet

Suction Size = 4"  
 Suct. Velocity = 12.6 fps  
 Discharge Size = 3"  
 Disc. Velocity = 21.7 fps

Min. Imp. Dia. = 9"  
 Max. Imp. Dia. = 11"  
 Cut Dia. = 11"

Max. Flow = 648 GPM  
 B.E.P. Flow = 443 GPM

Eff. @ Duty-Point = 76.17%  
 Motor Size = 20.00 HP

B.H.P. @ Duty-Point = 16.45 BHP  
 Max. B.H.P. for Imp. Cut = 18.81 BHP