



HEATING, COOLING & POWER

Unit Arrangement - Dimensions are Approximate

## 450 Ton Air Cooled Chiller

### General Description and Features:

Ready for outdoor operation with minimal setup.  
 Complete microprocessor control center  
 Trailer mounted  
 Single point power connection  
 Pre-wired 100 amp disconnect for Pump  
 Low ambient temperature operation to -20°F  
 High ambient temperature operation to 125°F  
 Brine mode to 25°F  
 Single 120V oil heater plug (Dual plug after 2013)  
 300 psig water pressure option available

### Mechanical Data:

Water Connections	6" 150 lb RF flange in/out
Water Volume	93 gallons
Water Max. pressure	150 psig
Minimum Load	26 tons
Min. / Max. Water Flow	800 / 2004 gpm
Circuits / Compressors	3 / 3
Refrigerant / Charge	R134a, 205 / 415 / 415 lbs
Oil / Charge	POE, 7.5 / 6.3 / 7.5 gal.

### Equipment Data:

Model 30XAB45069-04S53

### Shipping Data:

Shipping Weight	27,500 lbs (chiller)
Trailer	15,000 lbs
Dimensions (chiller)	48' L x 8' W x 8'-6" H
Leveling Required	Within 1" per 8 ft.
Installed Clearances	10' (sides), 4' (electrical)

### Electrical Data:

Voltage	460 V / 3 phase / 60 hertz
Disconnect Size	1000 amps
Connection	Leviton Series 16 Camlock
Cables	4/0 - (3) Per Ph, (1) Ground
FLA / MCA Chiller	817 / 889 amps
Pump Breaker	100 amp added if using pump
Rec. Service	1000 amps

### Single Point Power

460 V / 3 phase / 60 hertz  
 1000 amps  
 Leviton Series 16 Camlock  
 4/0 - (3) Per Ph, (1) Ground  
 817 / 889 amps  
 100 amp added if using pump  
 1000 amps

Leaving Water Temp.	Leaving Brine Temp.	Capacity in Tons				
		Ambient Air Temperature				
		75° F	85° F	95° F	105° F	115° F
55° F		530	510	490	460	380
50° F		495	475	460	435	360
45° F		460	440	425	405	370
40° F		420	400	390	370	350
	35° F	380	360	340	330	315
	30° F	345	325	310	300	285
	25° F	320	300	280	270	255

Water Limits: 55°F to 40°F / Brine: 25°F

Chiller Barrel Flow VS Pressure Drop			
Flow (GPM)	Pressure Drop (PSID) (Cooler only, no strainer or pipe)		
	2.5	30% PG	20% EG
800 Min.	2.5	30% PG	20% EG
900	3	5	--
1000 std.	4	6	4.9
1250	6	9	7.5
1500	9	12.5	10.5
1750	11.5	16.5	14
2000 Max.	15	21	18

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