

# COLD PLUNGE CHILLER

**Capacity: 50,100 Btu/h in 100°F ambient and 50°F leaving water temperature**

## Standard Features

- The Ultra Quiet chillers is suitable for outdoor installation with 6" clearance
- Space saving Chiller can be wall mounted
- 16 ga. Galvanized steel cabinet with high gloss powder coat finish
- Cabinet mounted chilled water supply pressure and temperature gauges
- U.L. Listed, and EPA Compliant, R-404a refrigeration suitable for outdoors installation
- Copeland scroll compressor with crankcase heater and discharge safety thermostat
- Air cooled, high ambient, horizontal discharge condenser with EC high efficiency fan motor
- Receiver (22 lbs) with outlet shutoff valve and pressure safety
- Single point power connection into weather proof electrical panel
- Phase and voltage monitor guards against loss of phase, phase reversal
- 240 vac control circuit with digital, electronic thermostat, compressor anti, short-cycle time delay, water flow safety switch lockout, high and low refrigeration pressure safety lockout switches, compressor anti short-cycle timer
- Stainless steel nickel brazed evaporator with hot gas bypass capacity control
- Liquid line specialties include externally equalized thermal expansion valve with liquid line solenoid valve, filter drier, and sight glass
- Non ferrous water lines with 1-1/4" FPT connections are wrapped in 1/2" closed cell insulation to prevent condensation
- System is factory leak checked, pressure tested, put under a deep vacuum, charged with refrigerant, and run tested under load prior to shipment
- The system and all parts are warranted to be free of manufactured defects for a period of thirteen (13) months from date of shipment

## Options & Accessories

- Condenser coil coating for corrosion protection in coastal areas
- Split system refrigeration with condensing unit outdoors and chiller indoors
- Heated & insulated receiver in condensing unit for cold weather operation
- Full cabinet corrosion protection with 5 year warranty
- Marine grade chiller heat exchanger for **salt water pools**
- Factory authorized technician for startup and training
- Factory authorized contractor for installation



Physical Data		Electrical Data		
Dimensions	47-1/8"L x 16 5/8"D x 51-7/8"H	Power Supply	208-230/1/60	
Ship Weight	720 lbs.	4.0 h.p. Compressor	LRA:	1 @ 140 Amps
Condenser Clearance	6" on Inlet Side		RLA:	26.0 Amps
Other Sides Clearance	30" on electrical access and fan discharge	165 Watt Fan Motor	FLA:	1.7 Amps
Sound Rating @ 10 ft.	60 dBA with cabinet insulation 62 dBA <i>without</i> cabinet insulation	Total Circuit	FLA:	27.7 Amps
			MCA:	35.9 Amps
Connections	1-1/4" FPT CHWS and CHWR		MOP:	60.0 Amps

Plunge Pool Chiller Sizing Guide			
Pool Volume ( Gallons )	Chiller Capacity	Chiller H.P @ 50F LWT	Chiller H.P. @ 45F LWT
100 to 300	1 Ton	1.0	1.5
300 to 450	1-1/2 Ton	1.5	2.0
450 to 650	2 Ton	2.0	2.5
650 to 950	3 Ton	3.0	3.5
950 to 1,200			
1,200 to 1,500	4 Ton	4.0	5.0
1,500 to 2,000	5 Ton	5.0	6.3
2,000 to 2,700	6 Ton	6.3	7.0
2,700 to 3,500	7 Ton	7.5	8.0

### Consider Upsizing Chiller If...

- Piping runs are long, uninsulated or run under heated floors.
- Filter system adds heat
- Pool is used for long durations or repeatedly with minimum recovery time between usage.
- Pool is used for full body immersion
- Pool is in an outdoor or warm location
- Pool will be turned on/off with limited cool down period (may significantly increase chiller size - consult factory).

*Our cold plunge clients include many professional sports teams like the Denver Nuggets and Chicago Bears plus professional spa's, cruise ships and many residential applications like Larry Ellison's (Oracle) personal residence. We have been engineering pool chillers for 30 years.*

## Dimensional Drawing

