

## COLD PLUNGE CHILLER

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### Standard Features

- 16 ga. Galvanized steel cabinet with high gloss powder coat finish
- Split system with condensing unit outdoors and heat exchanger cabinet indoors
- Indoor and outdoor units connect with refrigeration line set (not included)
- Cabinet mounted chilled water supply pressure and temperature gauges
- U.L. Listed, and EPA Compliant, R-407C condensing unit suitable for outdoors installation
- Copeland scroll compressor with crankcase heater and discharge safety thermostat
- Air cooled, high ambient, horizontal discharge condenser with head pressure control for low ambient operation to 5F degrees
- Oversized receiver with outlet shutoff valve and pressure safety
- Single point power connection into weather proof electrical panel
- Voltage monitor protection
- 24 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
- Cupronickel evaporator for light chemical resistance
- Split chiller; outdoor condensing unit with indoor heat exchanger cabinet (requires a line set to be provided and installed by a refrigeration contractor to connect the two units together).
- 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 minimize condensation
- System is factory leak checked, pressure tested, put under a deep vacuum, charged with refrigerant, and run tested under load prior to shipment
- Warranty: One (1) years limited parts, five (5) years limited compressor warranty.

### Options & Accessories

- Condenser coil coating for corrosion protection in coastal areas
- Other voltages and options available; consult the factory



Indoor Heat Exchanger



Outdoor Condensing Unit

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	4 Ton	4.0	5.0
1,200 to 1,500	5 Ton	5.0	6.0
1,500 to 2,000	6 Ton	6.0	7.0
2,000 to 2,700	7 Ton	7.0	7.5
2,700 to 3,500	10 Ton	10.0	10.0

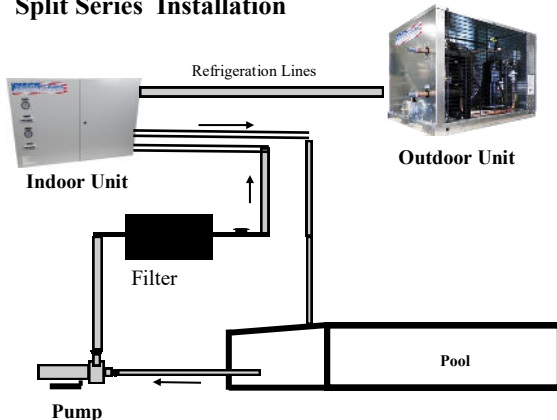
### Consider Upsizing Chiller If...

- 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).

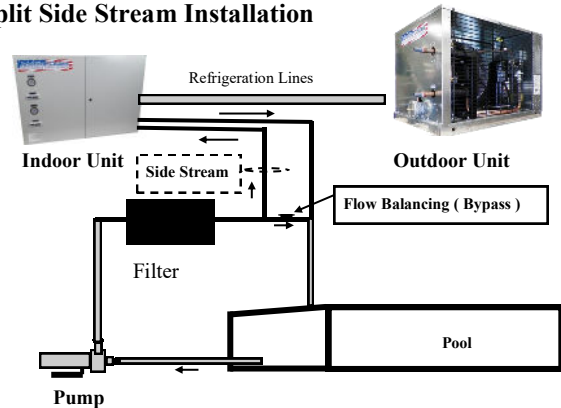
*Our clients include many professional sports teams like the Oklahoma City Thunder, Denver Nuggets and Chicago Bears plus spa's, cruise ships and residences.*

### Typical Site Installations

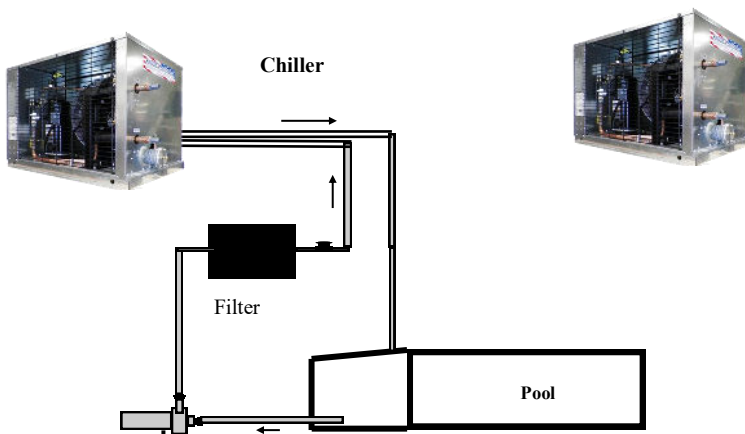
#### Split Series Installation



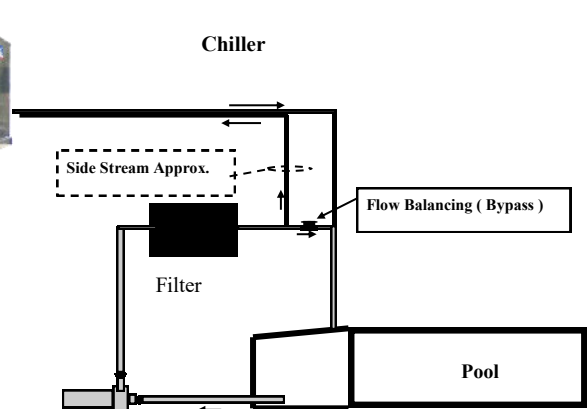
#### Split Side Stream Installation



#### Series Installation



#### Side Stream Installation



General Data															
Model (i.e. CPPC0151)		0151	0201	0301	0401	0501	0153	0203	0303	0403	0503	0304	0404	0504	
Nominal Tons Cooling		1.5	2	3	4	5	1.5	2	3	4	5	3	4	5	
Refrigerant		R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C	
Electrical Data															
Supply Power	Voltage	208-230	208-230	208-230	208-230	208-230	208-230	208-230	208-230	208-230	208-230	208-230	460	460	460
	Phase	1	1	1	1	1	3	3	3	3	3	3	3	3	3
	Frequency (Hz)	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Compressor	Quantity	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Rated Load Amps (RLA)	12	15.7	23.2	26.1	27.9	9.7	10.6	15.2	20.5	22.1	6.9	9.4	9.6	
	Locked Rotor Amps (LRA)	56	68	112	137	175	58	58	93	114	115	48	58	63	
Fan Motor	Quantity	1	1	1	2	2	1	1	1	2	2	1	2	2	
	Full Load Amps (FLA)	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	
Total Circuit	Full Load Amps (FLA)	13.7	17.4	24.9	29.5	31.3	11.4	12.3	16.9	23.9	25.5	7.8	11.2	11.4	
	Min Circuit Ampacity (MCA)	16.7	21.3	30.7	36	38.3	13.8	15	20.7	29	31	9.5	13.6	13.8	
	Max Overcurr. Protect. (MOP)	25	35	50	60	60	20	25	35	45	50	15	20	20	
Physical Data															
Outdoor Unit Size (in)	Length (L)	19	19	19	19	19	19	19	19	19	19	19	19	19	
	Width (W)	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
	Height (H)	29.5	29.5	29.5	52	52	29.5	29.5	29.5	29.5	52	52	29.5	52	52
Indoor Unit Size (in)	Length (L)	32	32	32	32	32	32	32	32	32	32	32	32	32	
	Width (W)	12	12	12	12	12	12	12	12	12	12	12	12	12	
	Height (H)	24	24	24	24	24	24	24	24	24	24	24	24	24	
Weight (lb)	Outdoor	270	275	290	400	550	270	275	290	400	550	290	400	500	
	Indoor	105	115	125	130	135	105	115	125	130	135	125	130	135	
	Ship	630	688	730	870	940	630	688	730	870	940	730	870	940	
Air Clearance Required (in)	Service	24	24	24	24	24	24	24	24	24	24	24	24	24	
	Air Discharge	29.5	29.5	29.5	52	52	29.5	29.5	29.5	52	52	29.5	52	52	
	Air Intake	6	6	6	6	6	6	6	6	6	6	6	6	6	
Connection Sizes	Water (FPT)	3/4	3/4	1	1	1	1	1	1	1	1	1	1	1	
	Refrig. Liquid Line OD (in)	3/8	3/8	1/2	1/2	1/2	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2	
	Refrig. Suction Line OD (in)	7/8	7/8	7/8	1-1/8	1-1/8	7/8	7/8	7/8	1-1/8	1-1/8	7/8	1-1/8	1-1/8	
Sound	dBa	56	56	58	58	59	56	56	58	58	59	58	58	59	