

## COLD PLUNGE CHILLER

**1.5-7.5 Ton**  
**CPPCKEZ-Split Series**

### Standard Features

- EPA Compliant, R-407c refrigeration suitable for outdoors installation
- Copeland scroll compressor with crankcase heater and freeze stat safety thermostat
- Air cooled, high ambient, horizontal discharge condenser with head pressure control
- Oversized receiver with outlet shutoff valve and pressure safety
- Single point power connection into weather proof electrical panel
- 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.
- Cupronickel evaporator for light chlorine resistance
- Liquid line specialties include externally equalized thermal expansion valve with liquid line solenoid valve, filter drier, and sight glass
- Non ferrous water lines with 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

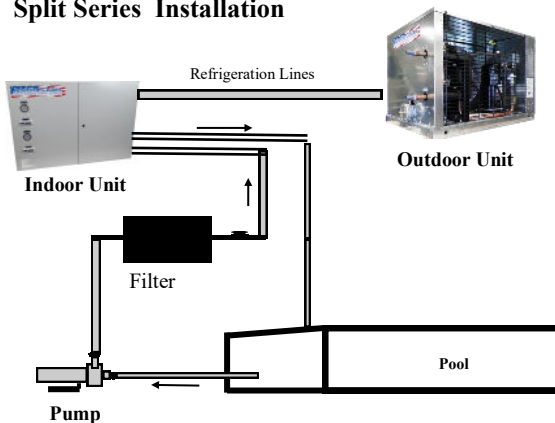
### Consider Upsizing Chiller If...

- 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).

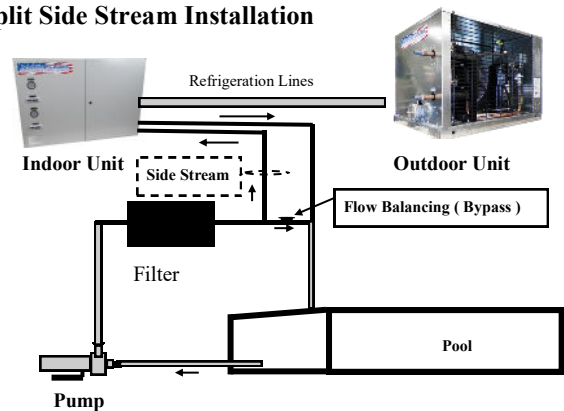
*Our clients include many professional sports teams like the Oklahoma City Thunder, Denver Nuggets and Chicago Bears plus spa's, cruise ships and residences.*

### Typical Site Installations

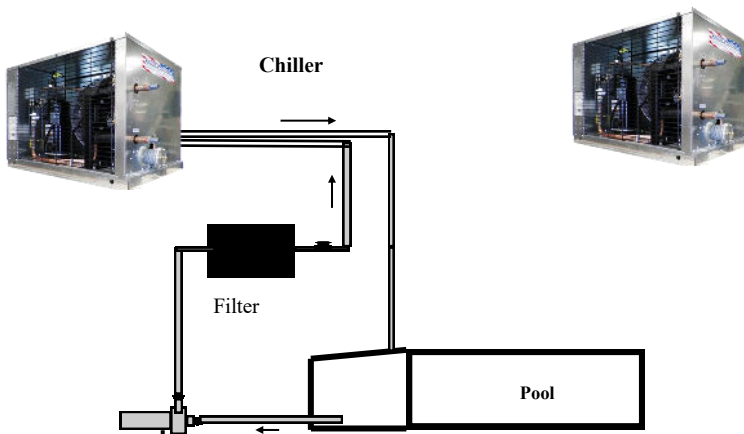
#### Split Series Installation



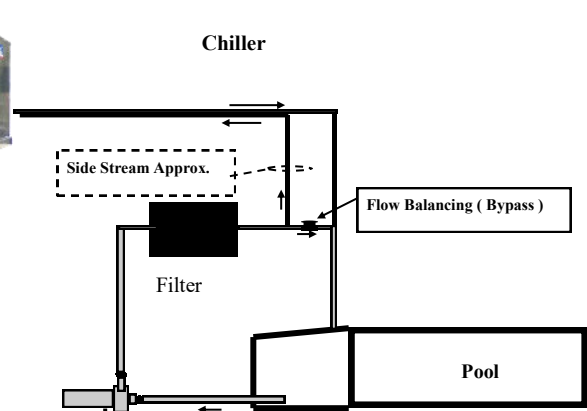
#### Split Side Stream Installation



#### Series Installation



#### Side Stream Installation



General Data																	
Model (i.e. CPPC0151)		0151	0201	0301	0401	0501	0153	0203	0303	0403	0503	0753	0304	0404	0504	0754	
Nominal Tons Cooling		1.5	2	3	4	5	1.5	2	3	4	5	7.5	3	4	5	7.5	
Refrigerant		R407C	R407C	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	208-230	460	460	460	460
	Phase	1	1	1	1	1	3	3	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	60	60
Compressor	Quantity	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Rated Load Amps (RLA)	12	15.7	23.2	26.1	31.1	9.7	10.6	15.2	20.5	22.1	39.3	6.1	7.5	9.6	17.3	
	Locked Rotor Amps (LRA)	56	68	112	137	175	58	58	93	114	128	225	39	47.5	63	114	
Fan Motor	Quantity	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	
	Full Load Amps (FLA)	1.1	1.1	2.1	2.1	2.1	1.1	1.1	2.1	2.1	2.1	4.2	1.1	1.1	1.1	2.2	
Total Circuit	Full Load Amps (FLA)	13.1	16.8	25.3	28.2	33.2	10.8	11.7	17.3	22.6	24.2	47.7	7.2	8.6	10.7	21.7	
	Min Circuit Ampacity	16.1	20.7	31.1	34.7	41	13.2	14.4	21.1	27.7	29.7	53.3	8.7	10.5	13.1	23.8	
	Max Overcurr. Protect. (MOP)	25	35	50	60	70	20	25	35	45	50	90	15	15	20	40	
Physical Data																	
Outdoor Unit Size (in)	Length (L)	37	37	44	44	44	37	37	44	44	44	65-1/2	44	44	44	65-1/2	
	Width (W)	31	31	33	33	33	31	31	33	33	33	36	33	33	33	36	
	Height (H)	20	20	30-1/2	30-1/2	30-1/2	20	20	30-1/2	30-1/2	30-1/2	42	30-1/2	30-1/2	30-1/2	42	
Indoor Unit Size (in)	Length (L)	32	32	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	12	12	
	Height (H)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Weight (lb)	Outdoor	240	248	370	385	395	240	248	370	385	395	550	370	385	395	550	
	Indoor	105	115	125	130	135	105	115	125	130	135	150	125	130	135	150	
	Ship	530	550	750	775	806	530	550	750	775	806	990	740	775	806	990	
Air Clearance Required (in)	Sides	31	31	33	33	33	31	31	33	33	33	36	33	33	33	36	
	Air Intake	20	20	30.5	30.5	30.5	20	20	30.5	30.5	30.5	42	30.5	30.5	30.5	42	
	Air Discharge	40	40	61	61	61	40	40	61	61	61	84	61	61	61	84	
Connection Sizes	Water (FPT)	3/4	3/4	1	1	1	1	1	1	1	1	1-1/4	1	1	1	1-1/4	
	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	5/8	1/2	1/2	1/2	5/8	
	Refrig. Suction Line OD	7/8	7/8	7/8	1-1/8	1-1/8	7/8	7/8	7/8	1-1/8	1-1/8	1-3/8	7/8	1-1/8	1-1/8	1-3/8	