

## CCW - Water Cooled Central Chillers



	CCW-40	CCW-50	CCW-60	CCW-70	CCW-90	CCW-110	CCW-140
Refrigeration Capacity (Btu/Hr.)							
Capacity @ 20°F LFT	208,800	279,600	358,800	404,400	535,200	699,600	879,600
Capacity @ 30°F LFT	260,400	351,600	445,200	502,800	664,800	854,400	1,070,400
Capacity @ 40°F LWT	321,600	435,600	552,000	621,600	824,400	1,057,200	1,324,800
Capacity @ 50°F LWT	384,000	519,600	658,800	742,800	982,800	1,261,200	1,580,400
Compressor	Reciprocating	Screw	Screw	Screw	Screw	Screw	Screw
Compressor HP	40	50	60	70	80	110	140
Condenser	Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube
Evaporator	Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube
Chilled Water Flow Rate @ 50°F LWT (gpm@ psi)	76.9	104.0	131.7	148.5	196.7	252.3	316.2
Dimensions (in.)							
Length	85	85	85	85	85	85	85
Width	46	46	46	46	46	46	46
Height	79	79	79	79	80	83	87
Shipping Weight (lbs.)							
Electrical Rating							
FLA @ 230-3-60	150.2	150.2	240	255	342	445	560
FLA @ 460-3-60	75.1	72.0	114.0	121.0	164.0	213.0	267.0
Connection Sizes							
Chilled Water Conn. (in.)	2	2.5	2.5	3	3	4	4
Lifting Eyes	standard	standard	standard	standard	standard	standard	standard
Options							
Tank	See "CWT for chillers" specification page						
Pump	See pump specification page						
Auto. Water Make-Up Valve	optional						
Low Water Level Alarm	optional						
High Temperature Alarm	optional						
Low Temperature Alarm	optional						

1 ton = 12,000 btu/hr.  
 Specifications based on 90°F ambient temp.

Note: Cooling Technology, Inc. reserves the right to change manufacturers of components as found necessary.



## Basic Construction

### **CONSTRUCTION**

Frame	Heavy gauge carbon steel base. Welded frame construction.
Finish	Primed & Painted with Acrylic Enamel
Lifting Eyes	Included on base frame for ease of lifting to high elevations

### **COMPRESSOR**

Compressor Type	Screw (exception: CCA-40 Reciprocating)
Unloading	Infinite control to 25%
Features	Motor winding protection, pressure relief valve, crank case heater, double wall rotor housing, three-stage oil separator, automatic start unloading, phase sequence control, oil sight glass, pressure relief valve.

### **EVAPORATOR**

Type	Shell & Tube
Construction	Carbon steel shell with copper tubes
Insulation	Closed cell foam
Fluid Pressure Drop	<4 psig (typical)

### **CONDENSER**

Type	Shell & Tube
Construction	Carbon steel shell with copper tubes
Insulation	Closed Cell Foam
Head Pressure Control	Condensing water regulating valve
Fluid Pressure Drop	<4 psig (typical)
Features	Removable heads with steel ring and cover design for ease of maintenance

### **ELECTRICAL CONTROLS**

Rating	Nema 4 rated enclosure
Controller	MCS Microprocessor Controller
	Long-life LED indicators
Protections	Freeze stat protection
	Motor overload protection
	High pressure cutout
	Low-flow cutout
	Time delay low pressure cutout
	Motor starters

### **REFRIGERATION SPECIALTIES**

Thermal expansion valve
High pressure relief valve
Liquid line solenoid valve
Removable filter dryer
Sight glass with moisture indicator
Discharge/suction line service valve

**CCW TYPICAL PIPING LAYOUT**

