

**General Specifications:**

- ✿ 20°F to 70°F Leaving Coolant Range
- ✿ 90 Gallon 304 Stainless Steel Evaporator Tank
- ✿ Tank Sight Glass, 15 PSI Relief Valve, and Air Vent
- ✿ Integrated Operating and Safety Controls
- ✿ Simple and Efficient Refrigeration Circuit
- ✿ Aluminum Structural Frame
- ✿ Weatherproof Mechanical and Electrical Sections
- ✿ Automatic Variable Speed Discharge Pressure Control
- ✿ Single Point Electrical Connection
- ✿ Stainless Steel Fan Shroud and Composite Prop
- ✿ Integrated Bypass Pump

Model	Description	Flow GPM	Capacity @ 95°F Ambient (1,000's BTUH)			Pipe size	Electrical size	Shipping Weight
			35°F	45°F	55°F			
CE-20-A-1	Single Compressor	60	183	227	278	2"	2"	2,750 lbs.
CE-20-A-2	Dual Compressor	60	178	219	266	2"	2"	2,700 lbs.

**Integrated Available Options**

CATALOG	DESCRIPTION
CVE02001	Locking Casters
CVE02002	Super Low Ambient Kit
CVE02003	High Ambient Kit
CVE02004	Stainless Steel Panels/Hardware
CVE02005	Heresite Coated Condenser Coils
CVE02006	Disconnect Switch (Door Mounted)
CVE02007	VPM Voltage Phase Monitor
CVE02008	6 Point Digital Temp Display
CVE02009	Refrigerant Gauges (per circuit)
CVE02011	Tank Level Alarm
CVE02012	Tank Auto-Fill
CVE02014	Remote Operating Panel
CVE02015	Tank Fill Pressure Reducing Valve
CVE02016	Flow Switch (paddle)
CVE02018	System Pump Pressure Bypass Valve
CVE02019	System Pump VFD
CVE02020	Vibration Isolation Mounts
CVE02021	Water Cooled Condensers Mod Valve

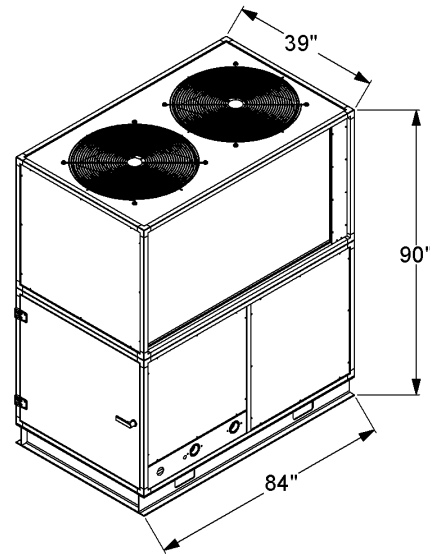
**Safety and Operating Controls**

- ✿ Temperature and pressure gauge panel
- ✿ High and low refrigerant pressure lockouts
- ✿ Simple electronic temperature controls
- ✿ Two stages with dual compressor system
- ✿ Suction pressure operating control
- ✿ Discharge pressure control for condenser fans
- ✿ Contactors, motor starters, and overloads

**Refrigeration Circuit**

- ✿ 20 ton nominal semi-hermetic compressor or two 10 ton scroll compressors
- ✿ Independent refrigeration circuit per compressor
- ✿ Remote air-cooled condenser copper/aluminum
- ✿ Stainless steel brazed plate evaporator
- ✿ Thermostatic expansion valve
- ✿ Liquid-line filter dryer
- ✿ Refrigerant sight glass
- ✿ Suction and discharge service access valves

Physical Data	CE-20-A
Dimensions	84"L x 39" W x 90" H
Dry Weight	2,500 lbs.
Operating Weight	3,250 lbs.
Oil Weight	27.6 pt
Refrigerant Weight	24 lbs.
Piping Connections	2" FPT
Electrical Connections	2"
Reservoir Capacity	90 Gallons
Condenser CFM	14,000 CFM
Nominal Pump Design	60 GPM @ 100' Head



Electrical Data																		
Single Comp.	Volts	Phase	HZ	Compressor (Each)			Fan (Each)			System Pump			Bypass Pump			Total	MFS	MCA
				Qty	HP	RLA	Qty	HP	FLA	Qty	HP	FLA	Qty	HP	FLA	FLA		
	230	3	60	1	20	59.0	2	1.0	5.0	1	3	8.0	1	0.17	1.0	78.0	151.8	92.8
	460	3	60	1	20	29.5	2	1.0	2.5	1	3	4.0	1	0.17	0.5	39.0	75.9	46.4
Dual Comp.	230	3	60	2	10	28.6	2	1.0	5.0	1	3	8.0	1	0.17	1.0	76.2	112.0	83.4
	460	3	60	2	10	14.3	2	1.0	2.5	1	3	4.0	1	0.17	0.5	38.1	56.0	41.7

**NOTES:**

1. Transformer reflects all power used in control circuit.
2. FLA is at 45° LCT and 95° Ambient Temperature
3. For 208v, multiply 460v values by 2.21

Performance Data		CE-20-A-2				
		Ambient Temperature				
LCT °F	75°	85°	95°	105°	115°	
60°	323.4	308.0	291.8	274.8	257.0	
55°	295.4	281.2	266.0	250.0	233.4	
50°	269.0	255.6	241.6	226.6	211.2	
45°	244.8	232.4	219.3	205.3	190.9	
40°	220.6	209.2	197.0	184.0	170.6	
35°	199.4	188.8	177.5	165.4	152.9	
30°	178.2	168.4	158.0	146.8	135.2	
25°	160.0	150.9	141.2	127.8	-	
20°	141.8	133.4	124.4	108.8	-	

\* Net capacities not including BTUH's from system pump  
 \*\* Capacity in 1,000 BTUH's with water only  
 \*\*\* LCT =Leaving Coolant Temperature

**System Pump Performance Curve (Nominal)**

