

**General Specifications:**

- ✿ 20°F to 70°F Leaving Coolant Range
- ✿ 130 Gallon 304 Stainless Steel Evaporator Tank
- ✿ Tank Sight Glass, 30 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	Pump Head	Capacity @ 95°F Ambient (1,000's BTUH)			Pipe size	Electrical size	Shipping Weight
				35°F	45°F	55°F			
CE-35-A	35 Ton Nominal	110	160 feet	308	381	463	3"	2"	3,900 lbs.

Integrated Available Options	
CATALOG	DESCRIPTION
CVE03501	Locking Casters
CVE03502	Super Low Ambient Kit
CVE03503	High Ambient Kit
CVE03504	Stainless Steel Panels/Hardware
CVE03505	Heresite Coated Condenser Coils
CVE03506	Disconnect Switch (Door Mounted)
CVE03507	VPM Voltage Phase Monitor
CVE03508	6 Point Digital Temp Display
CVE03509	Refrigerant Gauges (per circuit)
CVE03511	Tank Level Alarm
CVE03512	Tank Auto-Fill
CVE03514	Remote Operating Panel
CVE03515	Tank Fill Pressure Reducing Valve
CVE03516	Flow Switch (paddle)
CVE03518	System Pump Pressure Bypass Valve
CVE03519	System Pump VFD
CVE03520	Vibration Isolation Mounts
CVE03521	Water Cooled Condensers Mod Valve

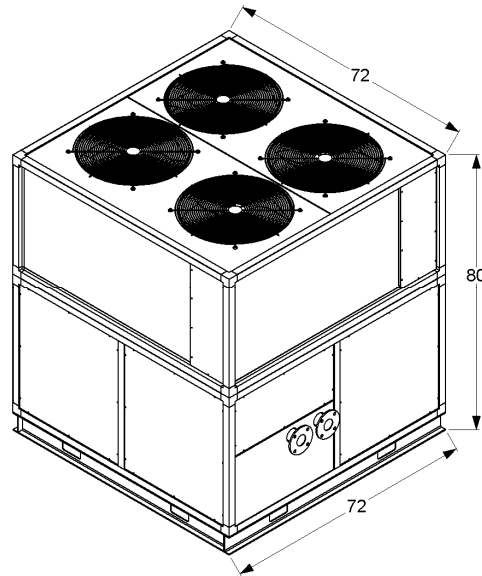
**Safety and Operating Controls**

- ✿ High and low refrigerant pressure lockouts
- ✿ Simple electronic temperature control
- ✿ Suction pressure operating control
- ✿ Discharge pressure control for condenser fans
- ✿ Contactors, motor starters, and overloads

**Refrigeration Circuit**

- ✿ Two 10 nominal ton scroll compressors & one 15 nominal ton scroll compressor
- ✿ Air-cooled condenser copper/aluminum
- ✿ Coil in shell heat exchanger
- ✿ Thermostatic expansion valve
- ✿ Liquid-line filter drier
- ✿ Refrigerant sight glass
- ✿ Refrigeration suction and discharge service access valves

Physical Data	CE-35-A
Unit Dimensions	72" L x 72" W x 80" H
Dry Weight	4,000 lbs.
Operating Weight	4,950 lbs.
Oil Weight	26.8 pt.
Refrigerant Weight	42 lbs.
Piping Connections	3" NPT
Electrical Connection	2"
Reservoir Capacity	110 Gallons
Condenser CFM	24,500 CFM
System Pump	110 GPM @ 70 PSI



Electrical Data																	
Volts	Phase	HZ	Compressor (Each)			Fan (Each)			System Pump			Bypass Pump			Total FLA	MFS	MCA
			Qty	HP	RLA	Qty	HP	FLA	Qty	HP	FLA	Qty	HP	FLA			
230	3	60	1	15	43.6	4	1	5.6	1	7.5	18	1	0.17	1.0	142.2	196.7	153.1
			2	10	28.6												
460	3	60	1	15	21.8	4	1	2.8	1	7.5	9	1	0.17	0.5	71.1	98.4	76.6
			2	10	14.3												

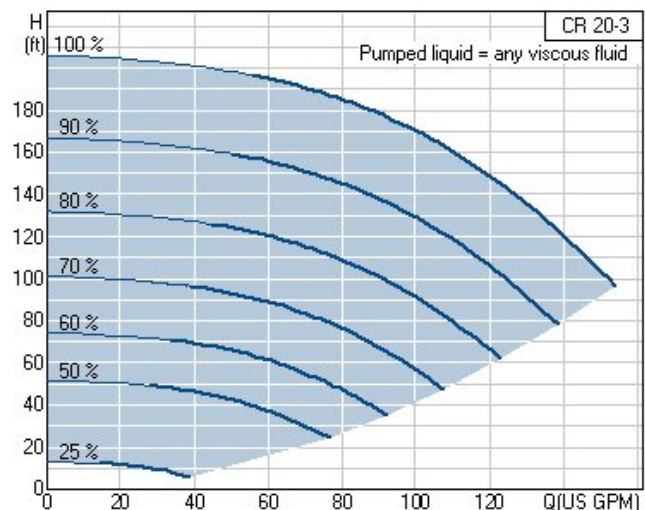
**NOTES:**

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-35-A				
		Ambient Temperature				
LCT °F		75°	85°	95°	105°	115°
60°		563.7	536.3	507.9	478.3	447.7
55°		514.7	489.3	462.7	435.0	406.5
50°		468.5	444.7	420.0	394.1	367.6
45°		426.1	404.1	381.1	356.9	332.2
40°		383.8	363.5	342.1	319.7	296.7
35°		346.8	327.9	308.0	287.2	265.8
30°		309.7	292.2	273.9	254.6	234.8
25°		277.8	261.6	244.6	223.7	-
20°		245.9	231.0	215.3	192.8	-

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

**System Pump Performance Curve (Nominal)**



**Chiller Solutions LLC**

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**Engineering Specifications**

All data subject to change without notice  
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