

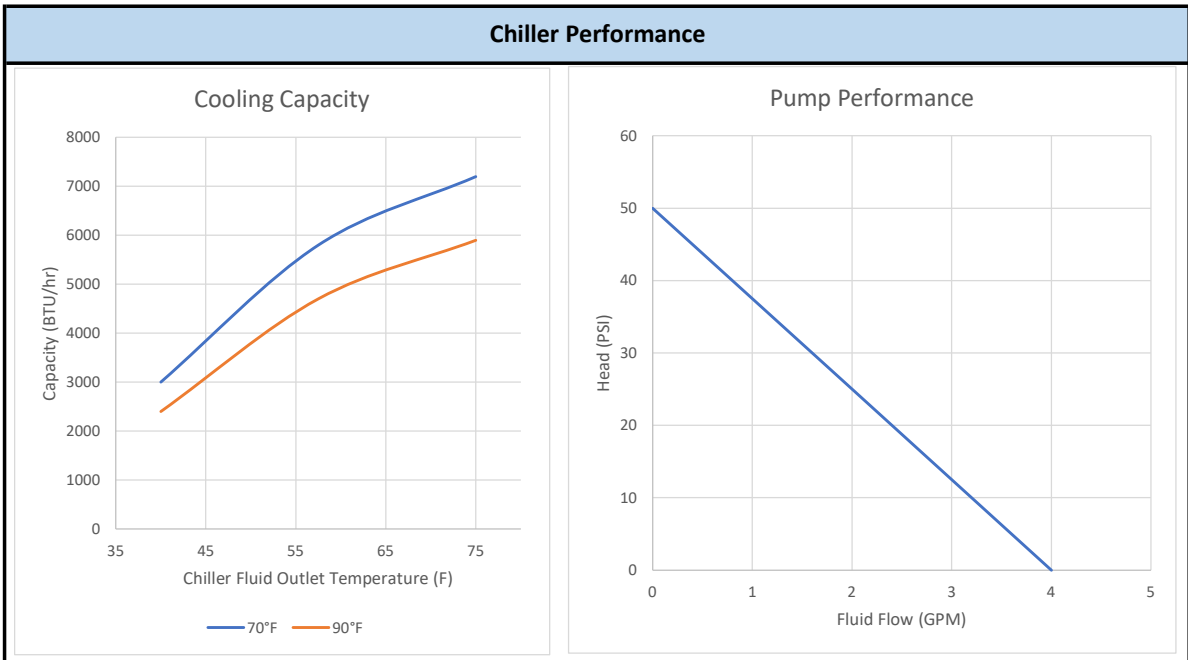


# NSC0500

## 1/2 Ton Air Cooled Freeze Chiller

### Dimensional Drawings

LENGTH	WIDTH	HEIGHT	WEIGHT	TANK CAPACITY	FLUID CONNECTIONS
24 3/8"	22 5/8"	32 1/2"	220 lbs	4 Gallon Poly Tank	1/2" NPT



**AG-Optimists, LLC**  
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All Information Is For Reference Only





# NSC0500

Standard Features and Benefits			
<b>Performance</b>	Working Temperature Range	40°F(4.5°C) to 75°F(24°C)	
	Temperature Stability	±2	
	Cooling Capacity at 70F	40°F (4.4°C) - 3,000 BTU/hr (880 Watts) 57.5°F (14.2°C) - 5,800 BTU/hr (1,700 Watts) 75°F (23.9°C) - 7,200 BTU/hr (2,110 Watts)	
	Ambient Temperature (Standard)	40°F - 100°F	
	Pump Performance	0 GPM @ 50 PSI 2 GPM @ 25 PSI 4 GPM @ 0 PSI	
<b>User Interface</b>	Controls	Electronic Programmed Temperature Controller with Constant (Setpoint & Process) Temperature Readout	
	Additional Features	Fluid Level Indicator, Pump Pressure Gauge	
<b>Refrigeration Circuit</b>	Compressor	Copeland Reciprocating	
	Heat Exchanger	Braze Plate Heat Exchanger	
	Refrigerant	R134a	
	Additional Features	Access Ports, Service Valves, Filter Drier, Sight Glass, Thermostatic, Low Pressure Switch, Expansion Valve (TXV)	
	Max Heat Rejection	8,700 BTU/hr (2.5 kW)	
<b>Process Fluid Circuit</b>	Pump	Continuous Duty, 1/3 HP Fixed Displacement Pump With Bypass	
	Inlet/Outlet	1/2" NPT	
	Reservoir	4 Gallon Poly Tank	
	Additional Features	Inline Strainer, Process Fluid Temperature Sensor, Pump Discharge Pressure Gauge	
<b>Construction</b>	Frame	Galvanized Steel	
	Enclosure	Powder Coated Steel Enclosure with Easy Access Panels	
<b>Quality</b>	Warranty	1 Year Standard Warranty	
	UL/CSA Certified (Full Assembly)	ETL 3170655, UL STD 1994, CAN/CSA STD, C22.2 No. 236	
	Manufacturing	Manufactured in the U.S.A. Certified ISO 9001:2015 Company	
<b>Power</b>	Available Voltages	Max Amps (FLA)	Recommended Breaker/Service (MCA)
	120VAC /1P /60Hz (STANDARD) 208-240VAC / 1P / 60Hz	15.1 Amps (std) 9.2 Amps	18 Amps (std) 15 Amps

Optional Upgrades			
<b>UPGRADES</b>	Anti-Backflow Process Heating Pass-through	External Temperature Monitoring Alternate Pumps	Controllers
<b>More Options and Customization Available - Contact Factory for More Information</b>			

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