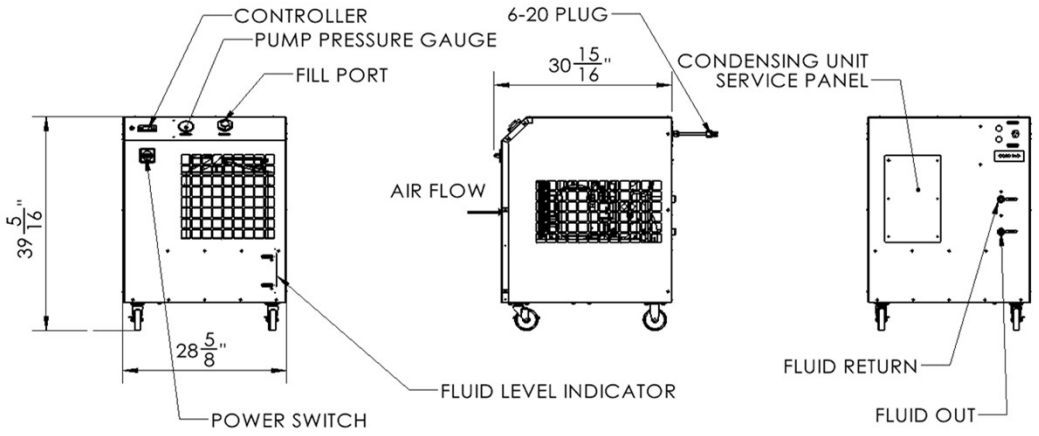
NSC1000-LT

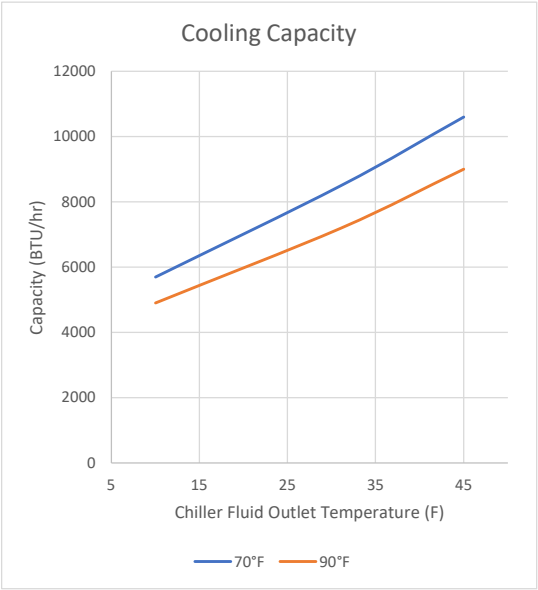
1 Ton Air Cooled Deep Freeze Chiller

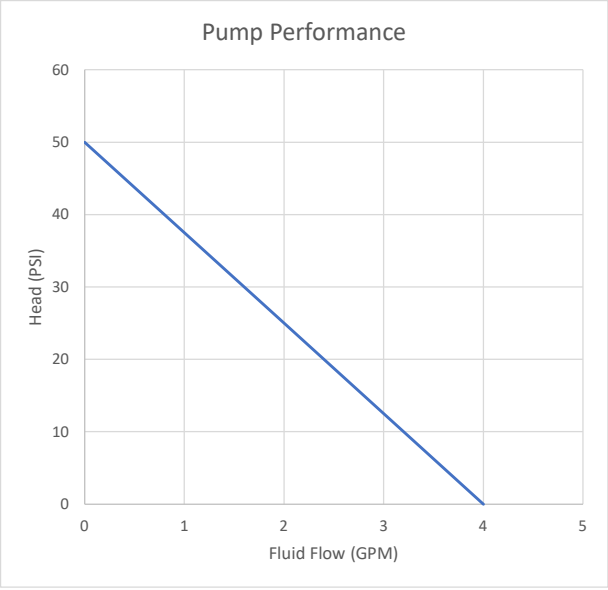
Dimensional Drawings



LENGTH	WIDTH	HEIGHT	WEIGHT	TANK CAPACITY	FLUID CONNECTIONS
30 15/16"	28 5/8"	39 5/16"	360 lbs	15 Gallon Poly Tank	1/2" NPT

Chiller Performance





AG-Optimists, LLC
3130 South 1030 West, Suite 1
Salt Lake City, UT 84119
(541) 610-6858
www.ag-chill.com

All Information Is For Reference Only

MADE IN THE USA

NSC1000-LT

Standard Features and Benefits			
Performance	Working Temperature Range	10°F(-12°C) to 45°F(7°C)	
	Temperature Stability	±2	
	Cooling Capacity at 70F	10°F (-12.2°C) - 5,700 BTU/hr (1,670 Watts) 31.1°F (-0.5°C) - 8,500 BTU/hr (2,490 Watts) 45°F (7.2°C) - 10,600 BTU/hr (3,110 Watts)	
	Ambient Temperature (Standard)	40°F - 100°F	
	Pump Performance	0 GPM @ 50 PSI 2 GPM @ 25 PSI 4 GPM @ 0 PSI	
User Interface	Controls	Electronic Programmed Temperature Controller with Constant (Setpoint & Process) Temperature Readout	
	Additional Features	Fluid Level Indicator, Pump Pressure Gauge	
Refrigeration Circuit	Compressor	Copeland Scroll	
	Heat Exchanger	Brazed Plate Heat Exchanger	
	Refrigerant	R404a	
	Additional Features	Access Ports, Service Valves, Filter Drier, Sight Glass, Liquid Receiver, Thermostatic Expansion Valve (TXV)	
	Max Heat Rejection	18,300 BTU/hr (5.4 kW)	
Process Fluid Circuit	Pump	Continuous Duty, 1/3 HP Fixed Displacement Pump With Bypass	
	Inlet/Outlet	1/2" NPT	
	Reservoir	15 Gallon Poly Tank	
	Additional Features	Inline Strainer, Process Fluid Temperature Sensor, Pump Discharge Pressure Gauge	
Construction	Frame	Galvanized Steel	
	Enclosure	Powder Coated Steel Enclosure with Easy Access Panels	
Quality	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	
Power	Available Voltages	Max Amps (FLA)	Recommended Breaker/Service (MCA)
	208-240VAC / 1P / 60Hz (STANDARD) 208-240VAC / 3P / 60Hz 480VAC / 3P / 60Hz	15.4 Amps (std) 14 Amps 6 Amps	19.4 Amps (std) 20 Amps 15 Amps

Optional Upgrades			
UPGRADES	Anti-Backflow Process Heating Pass-through	External Temperature Monitoring Alternate Pumps Extended Ambient (-15°F)	Controllers UL/CSA for Outdoor Use
	More Options and Customization Available - Contact Factory for More Information		

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