



# DEEP FREEZE IS AG-CHILL'S MOST ROBUST CHILLER

## HOW LOW CAN YOU GO?

Bring on Deep Freeze for ultimate industrial cooling. Designed to provide supreme industrial chilling. Deep Freeze shares many of the same robust qualities as our Freeze models, along with the capacity to cool from +70°F to -112°F (+21°C to -80°C). Fully insulated internal parts to ensure no internal temperature loss. Keep your critical materials, equipment, and processes cold even in hot conditions.



Shortest Industry Lead Times UL/CSA Certified Award Winning Manufacturer ISO 9001 Made in the USA



Energy Efficient Sustainable Solutions - Wide Variety of Refrigerants Available (R32/R508/R508 for UL7)

World-Class Custom Engineering Team. Wide variety of UL/CSA Certified options up to 30 tons cooling capacity 480VAC 20 HP 100 amps. Smart Chiller™ capabilities available.



Ideal process cooling solution for Biotech, Dairy, Chemicals, Cannabis, Oil Extraction, EDM, Fermentation, Hydroponics, Lasers, Printing, Welding, Food, and Plastics.



OPTIMIZED COOLING CAPACITY

PROGRAMMABLE CONTROLLER w/ MODBUS INTERFACE

SUITABLE FOR HAZARDOUS LOCATIONS

PORTABLE, SCALABLE, SIMPLE



# DEEP FREEZE

www.ag-chill.com 1-541-610-6858 2400 E 6895 S, Suite 16, Cottonwood Heights, UT 84121



## DEEP FREEZE AND ULTRA LOW TEMPERATURE SPECIFICATIONS

Model Number	Fluid Temp Range (F)	Ambient Temp Range	Refrigerant	Inlet/Outlet	Pump			Reservoir Capacity	Cooling Capacity (BTU/hr)	Dimensions	Max Amps (FLA)	Recommended Breaker/Service (MCA)	Available Voltages
NSC0500-LT	10°F - 45°F	40°F - 100°F	R404a	1/2" NPT	Continuous Duty, non-ferrous	1/3 HP Fixed Displacement Pump	4 GPM Fixed 50 PSI Max	4 Gallon Poly Tank	10°F - 2,500 BTU/hr 45°F - 5,070 BTU/hr	28.25"L x 22.5"W x 32.5"H	16.6 Amps	20 Amp	120/1/60 (std)
NSC1000-LT	10°F - 45°F	40°F - 100°F	R404a	1/2" NPT	Continuous Duty, non-ferrous	1/3 HP Fixed Displacement Pump	4 GPM Fixed 50 PSI Max	15 Gallon Poly Tank	10°F - 5,900 BTU/hr 45°F - 11,900 BTU/hr	34"L x 28"W x 39"H	16.3 Amps (std) 14 Amps 6 Amps	20 Amp (std) 20 Amp 15 Amp	208-240/1/60 (std) 208-240/3/60 480/3/60
NSC2000-LT	10°F - 45°F	40°F - 100°F	R404a	3/4" NPT	Continuous Duty, Stainless Steel	3/4 HP Centrifugal Pump	15 GPM @ 28 PSI 25 GPM @ 23 PSI 35 GPM @ 16 PSI 45 GPM Max	15 Gallon Poly Tank	10°F - 13,800 BTU/hr 45°F - 27,200 BTU/hr	34"L x 43"W x 40"H	30.9 Amps (std) 20.1 Amps 9.2 Amps	40 Amp (std) 25 Amp 15 Amp	208-240/1/60 (std) 208-240/3/60 480/3/60
NSC3000-LT	10°F - 45°F	40°F - 90°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	1-1/2 HP Centrifugal Pump	15 GPM @ 39 PSI 30 GPM @ 35 PSI 45 GPM @ 28 PSI 60 GPM Max	50 Gallon Poly Tank	0°F - 19,200 BTU/hr 45°F - 44,900 BTU/hr	34"L x 65"W x 62"H	29.3 Amps 13.6 Amps (std)	35 Amp 20 Amp (std)	208-240/3/60 (std) 480/3/60 (std)
NSC5000E-LT	10°F - 45°F	0°F - 90°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	1-1/2 HP Centrifugal Pump	15 GPM @ 39 PSI 30 GPM @ 35 PSI 45 GPM @ 28 PSI 60 GPM Max	50 Gallon Poly Tank	0°F - 19,200 BTU/hr 45°F - 44,900 BTU/hr	34"L x 65"W x 62"H	29.3 Amps 13.6 Amps (std)	35 Amp 20 Amp (std)	208-240/3/60 (std) 480/3/60 (std)
NSC10000-LT	10°F - 45°F	40°F - 90°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	2 HP Centrifugal Pump	15 GPM @ 54 PSI 30 GPM @ 48 PSI 45 GPM @ 40 PSI 65 GPM Max	50 Gallon Poly Tank	15°F - 53,000 BTU/hr 45°F - 90,000 BTU/hr	34"L x 65"W x 62"H	26.6 Amps (std)	35 Amp (std)	480/3/60 (std)
NSC10000E-LT	10°F - 45°F	0°F - 90°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	2 HP Centrifugal Pump	15 GPM @ 54 PSI 30 GPM @ 48 PSI 45 GPM @ 40 PSI 65 GPM Max	50 Gallon Poly Tank	15°F - 53,000 BTU/hr 45°F - 90,000 BTU/hr	34"L x 65"W x 62"H	26.6 Amps (std)	35 Amp (std)	480/3/60 (std)
Model Number	Fluid Temp Range (F)	Refrigerant	Condenser	Inlet/Outlet	Pump			Reservoir Capacity	Cooling Capacity (BTU/hr)	Dimensions	Max Amps (FLA)	Recommended Breaker/Service (MCA)	Available Voltages
NSC0500-ULT	-112°F to +70°F -80°C to +21°C	R404a/ R508b	Air-cooled	1/2" NPT	Continuous Duty, Stainless Steel	Fixed Displacement	4 GPM Fixed	5 Gallon Stainless Steel	-40°C (-40°F) - 1,700 Watts (5,800 BTU/hr) -80°C (-112°F) - 400 Watts (2,000 BTU/hr)	34"L x 64.3"W x 72"H	16 Amps	20 Amp	208-240/3/60 (std)
NSC1000-ULT	-112°F to +70°F -80°C to +21°C	R404a/ R508b	Air-cooled	3/4" NPT	Continuous Duty, Stainless Steel	Fixed Displacement	4 GPM Fixed	5 Gallon Stainless Steel	-40°C (-40°F) - 3,700 Watts (12,000 BTU/hr) -80°C (-112°F) - 1,750 Watts (4,600 BTU/hr)	34"L x 64.3"W x 72"H	25 Amps (std)	30 Amp (std)	208-240/3/60 (std)
NSC2000-ULT	-112°F to +70°F -80°C to +21°C	R404a/ R508b	Air-cooled	3/4" NPT	Continuous Duty, Stainless Steel	Fixed Displacement	8 GPM Fixed	10 Gallon Stainless Steel	-40°C (-40°F) - 7,000 Watts (24,000 BTU/hr) -80°C (-112°F) - 3,000 Watts (10,200 BTU/hr)	34"L x 64.3"W x 72"H	20 Amps (std)	30 Amp (std)	480/3/60 (std)

MORE UL/CSA CERTIFIED OPTIONS AVAILABLE: UP TO 30 TONS COOLING CAPACITY, FLUID TEMPERATURES AS LOW AS -80°C (-112°F), 480VAC/3/60 100 AMPS, UP TO 60,000 WATTS HEATING CAPABILITY, -20F AMBIENT OUTDOOR MODELS.

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DEEP FREEZE INDOOR & OUTDOOR INDUSTRIAL CHILLERS

ULTRA-LOW TEMP



## AG-CHILL 5 TON ULTRA LOW TEMPERATURE CHILLER

### AG-CHILL NSC5000(E)(A)(EA)-ULT-480/3 REV 20201101

Working Temperature Range (°F/°C)	-112°F to 70°F / -80°C to 21°C
Temperature Stability (°F/°C)	±2 / ±2.2
Cooling Capacity at 75°F/24°C Ambient	(-20°C) 18,060 watts
	(-60°C) 17,000 watts
	(-80°C) 7,000 watts
Pump	Continuous Duty, Centrifugal, 36 GPM @ 40 psi
Inlet/Outlet	1 - 1/4" NPT Female
Compressor/Refrigerant	Discus - R404a/R508b
Reservoir/Filling Volume	20 gal/76 Liter Sealed Stainless Steel w/Fluid Port
Ambient Temperature (Standard)	50°F to 100°F / 10°C to 38°C
Extended Ambient Temperature (Optional)	Customizable
Dimensions (LxWxH) Inches	74 x 50 x 76
Weight, pounds	1600
Power Options	
External Condensing Unit - 480V/3PPE/60Hz	22.5 amps (FLA) - 34.2 amps (MCA)
Chiller - 480V/3PPE/60Hz	26.7 amps (FLA) - 31.4 amp (MCA)
Controls	Electronic programmed temperature controller with constant (setpoint & process) temperature readout.
External Thermocouple (Optional)	pt100
Digital Interface	Modbus TCP/IP
Refrigeration Components	Efficient discus compressors, sightglass/moisture indicators, balanced port expansion valves filter drier, pump down valves, fan cycling.
Process Fluid Components	"Y" strainer with 50 mesh stainless steel screen, continuous duty centrifugal pump, stainless steel sealed reservoir, fill port and sight glass.
Safety Controls	High and low refrigerant, high and low temperature, overloads on compressor, pump and fans.
Construction	Welded steel powder coated frame and full metal cabinet, stainless steel piping connections.
Warranty	1 Year Parts and Labor
UL/CSA Certified (Full Assembly)	Yes
UL/CSA Certified for Outdoor Use (Optional)	Customizable
Lead Time	10 to 12 Weeks
Base Price (Standard)	\$99,500.00

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