

AG-CHILL INDUSTRIAL FLUID CHILLERS

Optimizing Botanical Extraction



AG-CHILL

DESIGNED FOR CANNABIS & HEMP
MANUFACTURING

CANNABIS EXTRACTION TEMPERATURE CONTROL

Ultra Low Temperature control is essential for cannabis extraction. It is important that the cold solvent dissolves just the valuable glandular trichomes - cannabinoids, terpenes, and flavonoids. Extracting at temperatures any warmer than -40°F (-40°C) results in dissolving undesirable compounds including lipids (fats and waxes) and chlorophyll. If these are dissolved during extraction, they need to be removed via further expensive processing down the line. Ultra Low Temperature extraction ensures consistent and high-quality end-products such as vape cartridges, tinctures, and dabbable concentrates.



UL/CSA CERTIFIED, UP TO 30 TONS COOLING CAPACITY, FLUID TEMPERATURES AS LOW AS -80°C (-112°F), UP TO 60,000 WATTS HEATING CAPABILITY, -20°F AMBIENT OUTDOOR MODELS.



DEEP FREEZE



COOLING CAPACITY TO 10°F

Deep Freeze by AG-CHILL is our industrial grade chiller. This chiller's temperature range is 10°F to 60°F (-12°C to 16 °C), ideal for continuous solvent recovery and for solventless ice water hash extraction. All internal components of Deep Freeze are insulated to enhance efficiency. If you need a liquid cooling system that is reliably cold, look to Deep Freeze.



SUPER LOW TEMP



COOLING CAPACITY TO -58°F

Super Low Temp Series by AG-CHILL is our extreme value offering for those of you who are serious about high quality extraction and production throughput. Featuring specially designed two-stage reciprocating compressors, these "SLT" chillers will bring your solvents down to -58°F (-50°C) at light speed. Specified with tons of extra capacity at the coldest temperatures, SLT maximizes high quality production.



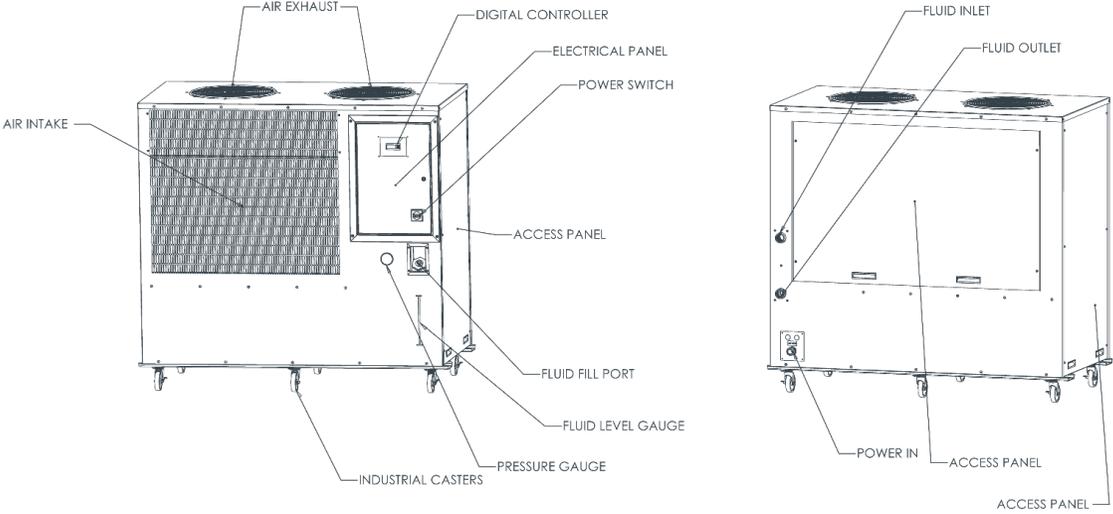
ULTRA LOW TEMP



COOLING CAPACITY TO -112°F

Ultra Low Temp by AG-CHILL is our flagship lowest temperature chiller. For optimal extraction, this is your cornerstone. Rest assured knowing the engineered cooling capacity specified at -112°F (-80°C) is verifiably always producing your highest-grade concentrates. With the highest quality extracts that you and your customers can depend on, your brands will have the ultimate competitive advantage.

STANDARDIZED DESIGN



**Industrial
Grade
Temperature
Control**



**Non-Ferrous
Piping
System**



**Hermetically
Sealed
Compressor**



**Continuous
Duty Non-
Ferrous
Pump**



**Environ-
mentally
Friendlier
Refrigerant**



**Brazed
Plate
Heat
Exchanger**



**Smart
Chiller
Capabilities**



**Available In
Multiple
Voltages**



FREEZE

Freeze, AG-CHILLS's standard industrial chiller, is an absolute workhorse. Equipped with a hermetically sealed compressor, a non-ferrous piping system, an oversized reservoir, and a brazed plate heat exchanger, Freeze provides powerful reliable chilling. Boasting a powerful pump that will supply up to 65 gallons per minute up to 65 psi, this industrial chiller provides enough flow to cool multiple fluid circuits at one time. The Freeze industrial cooling line is perfect for hydroponics as well as soil cultivation.

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CUSTOM CHILLERS

Often, a cooling solution requires engineering expertise and custom attention. As a premier industrial process chiller manufacturer, AG-CHILL is happy to create the complete custom chiller or cooling solution to quickly meet your needs.

AG-CHILL's world-class engineering team will provide any temperature solution from simple to very complex. Our expertise guarantees satisfied customers with a very short lead time.

CUSTOM OPTIONS



CUSTOM CHILLER SIZES

Whether you need a 1/4-ton industrial chiller or a 100-ton system, we will create the best solution for your needs.



ANTI BACKFLOW

If the chilling fluid is located above the chiller, anti-backflow prevents fluid from flowing back into the system when the process chiller is turned off.



ADVANCED CONTROLS

We can integrate the latest in smart controls with our chiller systems, so you can control your chiller remotely or leverage temperature.



COMPLETE TEMPERATURE CONTROL SOLUTIONS

Our engineers can design a complete system that solves all your temperature control needs – From industrial chillers and controls to cooling jackets and heating solutions



WATER FILTER

Add a filter on the inlet to keep the inside of the process chiller clean, even if the fluid is dirty. UL and CSA certified.



CUSTOM TEMPERATURE RANGES

We can create a custom solution for temperatures from -112F to 300 F.



HEATER

Add a heater to the commercial chiller. Whether you need increased or decreased temperatures, your industrial chiller will be equipped to do both jobs.



DEIONIZED CHILLERS

If you need de-ionized water compatibility for your EDM system or integrated circuit manufacturing, we have you covered.



ALTERNATIVE FLUIDS

We can design a build systems for whichever fluid you need – from de-ionized water to heat transfer fluid or oil.

FLUX WRAP



Fluxwrap™ can chill materials in drums, totes, tanks and all manner of vessels, even when a heat exchanger is not currently present. This proprietary, multi-channel fluid path allows maximum flow of the cooling liquid with minimal pressure. The wrap conforms to the container shape and maintains thermal contact over uneven surfaces – creating full coverage cooling. Do you have a need for cooling and heating? Simply change the temperature of the Fluxwrap™ fluid, and you have an effective medium for heating. Fluxwrap™ is a versatile fluid temperature control solution.

FLUXWRAP FEATURES



Proprietary multi-channel fluid path allows maximum flow with minimal pressure



Elastic strap design ensures good thermal conductivity between blanket and drum



Wrap conforms to drum or tote to maintain thermal contact over uneven surfaces



Lightweight compact design, full coverage cooling

PERFECT PAIR
Fluxwrap can chill materials in drums, totes, tanks and all manner of vessels. Fluxwrap applies chilling to many vessels that were previously difficult or financially unfeasible to chill.



WRAP THE CONTAINER



ATTACH HOSES



APPLY INSULATION



TURN IT ON!

SMART CHILLERS WITH BEACON

At the end of the day, everyone wants things to be easier and more efficient. Smart phones help track everything from steps and calories to weather and traffic. With Beacon Inside, this same ease and access are available to you for industrial temperature control. Beacon remote temperature controller has the same features as many single-stage electronic temperature controllers, and also boasts many added benefits made possible by internet connectivity. Your extraction chiller will work seamlessly with Beacon industrial temperature controller.



Monitor
Conditions
Remotely



Customize
Alerts And
Schedules



Enjoy
Peace
Of Mind



Historical Data
Storage For Process
Analysis



DEEP FREEZE TECHNICAL SPECIFICATIONS

Base Model	Chiller Fluid Temp Range	Ambient Temp Range	Cooling Capacity	Pump	Inlet/Outlet	Refrigerant	Reservoir Capacity	Dimensions	Weight (Approx)	Available Voltages	Max Amps
NSC0500-LT	10°F(-12°C) to 45°F(7°C)	40°F - 100°F	70°F Ambient 10°F (-12.2°C) - 2,500 BTU/hr (730 Watts) 27.5°F (-2.5°C) - 3,700 BTU/hr (1,080 Watts) 45°F (7.2°C) - 5,000 BTU/hr (1,470 Watts)	1/3 HP Fixed Displacement Pump With Bypass	1/2" NPT	R404a	4 Gallon Poly Tank	24 3/8" x 22 5/8" x 32 1/2"	220 lbs	120VAC / 1P / 60Hz (std)	16.1 Amps (std)
NSC1000-LT	10°F(-12°C) to 45°F(7°C)	40°F - 100°F	70°F Ambient 10°F (-12.2°C) - 5,700 BTU/hr (1,670 Watts) 27.5°F (-2.5°C) - 8,000 BTU/hr (2,340 Watts) 45°F (7.2°C) - 10,600 BTU/hr (3,110 Watts)	1/3 HP Fixed Displacement Pump With Bypass	1/2" NPT	R404a	15 Gallon Poly Tank	34 1/2" x 28 1/2" x 39"	360 lbs	208-240VAC / 1P / 60Hz (std) 208-240VAC / 3P / 60Hz 480VAC / 3P / 60Hz	15.4 Amps (std) 14 Amps 6 Amps
NSC2000-LT	10°F(-12°C) to 45°F(7°C)	40°F - 100°F	70°F Ambient 10°F (-12.2°C) - 12,200 BTU/hr (3,580 Watts) 27.5°F (-2.5°C) - 17,300 BTU/hr (5,070 Watts) 45°F (7.2°C) - 23,300 BTU/hr (6,830 Watts)	3/4 HP Centrifugal Pump	3/4" NPT	R404a	15 Gallon Poly Tank	34 1/2" x 43 1/2" x 40"	550 lbs	208-240VAC / 1P / 60Hz (std) 208-240VAC / 3P / 60Hz 480VAC / 3P / 60Hz	28.7 Amps (std) 20 Amps 9.3 Amps
NSC5000-LT	10°F(-12°C) to 45°F(7°C)	40°F - 100°F	70°F Ambient 10°F (-12.2°C) - 21,800 BTU/hr (6,390 Watts) 27.5°F (-2.5°C) - 30,700 BTU/hr (9,000 Watts) 45°F (7.2°C) - 41,600 BTU/hr (12,190 Watts)	2 HP Centrifugal Pump	1-1/4" NPT	R404a	50 Gallon Poly Tank	34" x 65" x 62"	1000 lbs	480VAC / 3P / 60Hz (std) 208-240VAC / 3P / 60Hz 208-240VAC / 1P / 60Hz	12.4 Amps (std) 29.3 Amps 48 Amps
NSC10000-LT	10°F(-12°C) to 45°F(7°C)	40°F - 100°F	70°F Ambient 10°F (-12.2°C) - 43,600 BTU/hr (12,780 Watts) 27.5°F (-2.5°C) - 61,900 BTU/hr (18,140 Watts) 45°F (7.2°C) - 84,000 BTU/hr (24,620 Watts)	2 HP Centrifugal Pump	1-1/4" NPT	R404a	50 Gallon Poly Tank	34" x 65" x 62"	1000 lbs	480VAC / 3P / 60Hz (std)	22.8 Amps (std)

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PERFECT PAIR

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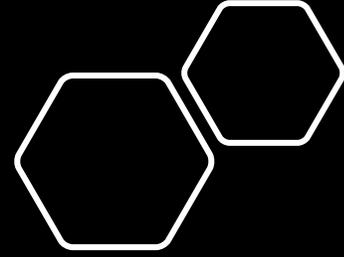
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ULTRA LOW TEMPERATURE TECHNICAL SPECIFICATIONS

Product Type	Base Model	Chiller Fluid Temp Range	Ambient Temp Range	Cooling Capacity	Pump	Inlet Outlet	Refrigerant	Reservoir Capacity	Dimensions	Weight (Approx)	Available Voltages	Max Amps	
SUPER LOW TEMP	NSC4000-SLT	-58 F (-50 C) to 0 F (-18 C)	20 F - 100 F	70 F Ambient -58 F (-50 C) - 7,800 BTU/hr (2,290 Watts) -19 F (-28.3 C) - 32,100 BTU/hr (9,410 Watts) 20 F (-6.7 C) - 61,300 BTU/hr (24,000 Watts)	2.2kW Vortex Pump	0 GPM @ 121 PSI 13.1 GPM @ 67 PSI 27.3 GPM @ 13 PSI	3/4" NPT	R404a	15 Gallon Stainless Steel	65" x 34" x 66"	1000 lbs	480VAC / 3P / 60Hz (std) 33 Amps (std)	
	NSC6000-SLT	-58 F (-50 C) to 0 F (-18 C)	20 F - 100 F	70 F Ambient -58 F (-50 C) - 13,900 BTU/hr (4,070 Watts) -26.5 F (-32.5 C) - 50,700 BTU/hr (14,860 Watts) 5 F (-15 C) - 110,400 BTU/hr (32,360 Watts)	3.75kW Vortex Pump	0 GPM @ 122 PSI 17.9 GPM @ 39 PSI 35.7 GPM @ 31 PSI	1-1/2" NPT	R404a	15 Gallon Stainless Steel	49 3/4" x 69 3/8" x 75 5/8"	1250 lbs	480VAC / 3P / 60Hz (std) 46 Amps (std)	
ULTRA LOW TEMP	NSC0500-ULT	-112 F (-80 C) to 70 F (21 C)	40 F - 100 F	70 F Ambient -94 F (-70 C) - 1,900 BTU/hr (560 Watts) -85 F (-65 C) - 2,600 BTU/hr (760 Watts) -76 F (-60 C) - 3,200 BTU/hr (940 Watts)	0.75kW Vortex Pump	0 GPM @ 107 PSI 4.5 GPM @ 50 PSI 8.9 GPM @ 16 PSI	1/2" NPT	R404a/R508b	5 Gallon Stainless Steel	35" x 34" x 66"	1100 lbs	200-240VAC / 3P / 60Hz (std) 208-240VAC / 1P / 60Hz 480VAC / 3P / 60Hz	16 Amps (std) 25 Amps (std)
	NSC1000-ULT	-112 F (-80 C) to 70 F (21 C)	40 F - 100 F	70 F Ambient -112 F (-80 C) - 1,000 BTU/hr (290 Watts) -94 F (-70 C) - 4,400 BTU/hr (1,290 Watts) -76 F (-60 C) - 7,100 BTU/hr (2,080 Watts)	0.75kW Vortex Pump	0 GPM @ 107 PSI 4.5 GPM @ 50 PSI 8.9 GPM @ 16 PSI	1/2" NPT	R404a/R508b	5 Gallon Stainless Steel	35 1/4" x 52 7/8" x 65 1/8"	1150 lbs	200-240VAC / 3P / 60Hz (std) 480VAC / 3P / 60Hz	25 Amps (std)
	NSC2000-ULT	-112 F (-80 C) to 70 F (21 C)	40 F - 100 F	70 F Ambient -112 F (-80 C) - 5,100 BTU/hr (1,490 Watts) -76 F (-60 C) - 19,000 BTU/hr (5,570 Watts) -40 F (-40 C) - 27,800 BTU/hr (8,150 Watts)	2.2kW Vortex Pump	0 GPM @ 117 PSI 7 GPM @ 65 PSI 14 GPM @ 14 PSI	3/4" NPT	R404a/R508b	10 Gallon Stainless Steel	70 3/8" x 35 7/8" x 75 5/8"	1350 lbs	480VAC / 3P / 60Hz (std) 208-240VAC / 3P / 60Hz	20 Amps (std) 55 Amps
	NSC3500-ULT	-112 F (-80 C) to 70 F (21 C)	20 F - 110 F	70 F Ambient -112 F (-80 C) - 8,600 BTU/hr (2,590 Watts) -76 F (-60 C) - 33,300 BTU/hr (9,750 Watts) -40 F (-40 C) - 48,600 BTU/hr (14,240 Watts)	2.2kW Vortex Pump	0 GPM @ 121 PSI 13.1 GPM @ 67 PSI 27.3 GPM @ 13 PSI	1" NPT	R404a/R508b	15 Gallon Stainless Steel	49 3/4" x 69 3/8" x 75 5/8"	1500 lbs	480VAC / 3P / 60Hz (std)	35 Amps (std)
	NSC5000-ULT	-112 F (-80 C) to 70 F (21 C)	20 F - 110 F	70 F Ambient -112 F (-80 C) - 13,900 BTU/hr (4,070 Watts) -76 F (-60 C) - 43,000 BTU/hr (14,530 Watts) -40 F (-40 C) - 65,600 BTU/hr (19,280 Watts)	5 HP Centrifugal Pump	0 GPM @ 44 PSI 45 GPM @ 41 PSI 90 GPM @ 20 PSI	1-1/4" NPT	R508B	20 Gallon Stainless Steel	64" x 36" x 72"	1965 lbs	480VAC / 3P / 60Hz (std)	26.7 Amps (std)
	NSC9000-ECU	N/A	N/A	20 F - 110 F			5/8" AND 1-3/8"	R404A	N/A	48 1/4" x 68 5/8" x 35 3/8"	1060 lbs	480VAC / 3P / 60Hz (std)	27.3 Amps (std)



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FREEZE IS AG-CHILL'S STANDARD LIGHT INDUSTRIAL WORKHORSE

THE COLD STANDARD

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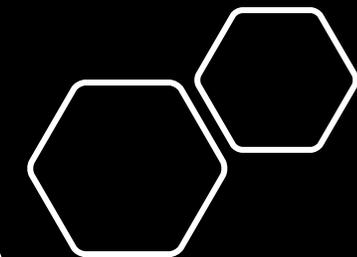
Shortest Industry Lead Times
UL/CSA Certified
Award Winning Manufacturer
ISO 9001
Made in the USA



Energy Efficient
Sustainable Solutions
- Wide Variety of
Refrigerants Available
(R507B/R508B for ULT)

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 solutions
for Biotech, Dairy, Chemical,
Cannabis, EDM, Fermentation,
Hydroponics, Lasers, Printing,
Semiconductors, Welding, Food,
and Plastics.



FREEZE



FREEZE BY AG-CHILL CHILLERS

Base Model	Chiller Fluid Temp Range	Ambient Temp Range	Cooling Capacity	Pump		Inlet/Outlet	Refrigerant	Reservoir Capacity	Dimensions	Weight (Approx)	Available Voltages	Max Amps
NSC0330-FROST	15°F(-10°C) to 65°F(18°C)	35°F - 100°F	90°F Ambient 25°F (-3.9°C) - 500 BTU/hr (150 Watts) 45°F (7.2°C) - 2,300 BTU/hr (670 Watts) 65°F (18.3°C) - 4,000 BTU/hr (1,170 Watts)	60 Watt Centrifugal Pump	0 GPM @ 17 PSI 3.3 GPM @ 13 PSI 6.6 GPM @ 5 PSI	5/8" BARBED	R134a	2.5 Gallon Poly Tank	18" x 16 1/4" x 20 1/2"	112 lbs	120VAC / 1P / 60Hz (std)	9.4 Amps (std)
NSC0500	40°F(4.5°C) to 75°F(24°C)	40°F - 100°F	70°F Ambient 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)	1/3 HP Fixed Displacement Pump With Bypass	0 GPM @ 50 PSI 2 GPM @ 25 PSI 4 GPM @ 0 PSI	1/2" NPT	R134a	4 Gallon Poly Tank	24 3/8" x 22 5/8" x 32 1/2"	220 lbs	120VAC / 1P / 60Hz (std) 208-240VAC / 1P / 60Hz	15.1 Amps (std) 9.2 Amps
NSC1000	40°F(4.5°C) to 75°F(24°C)	40°F - 100°F	70°F Ambient 40°F (4.4°C) - 6,500 BTU/hr (1,900 Watts) 57.5°F (14.2°C) - 11,800 BTU/hr (3,460 Watts) 75°F (23.9°C) - 14,700 BTU/hr (4,310 Watts)	1/3 HP Fixed Displacement Pump With Bypass	0 GPM @ 50 PSI 2 GPM @ 25 PSI 4 GPM @ 0 PSI	1/2" NPT	R134a	15 Gallon Poly Tank	34 1/2" x 28 1/2" x 39"	390 lbs	208-240VAC / 1P / 60Hz (std) 208-240VAC / 3P / 60Hz 480VAC / 3P / 60Hz	15.4 Amps (std) 14 Amps 6 Amps
NSC2000	40°F(4.5°C) to 75°F(24°C)	40°F - 100°F	70°F Ambient 40°F (4.4°C) - 15,100 BTU/hr (4,430 Watts) 57.5°F (14.2°C) - 23,100 BTU/hr (6,770 Watts) 75°F (23.9°C) - 33,700 BTU/hr (9,880 Watts)	3/4 HP Centrifugal Pump	0 GPM @ 32 PSI 22.5 GPM @ 24 PSI 45 GPM @ 7 PSI	3/4" NPT	R134a	15 Gallon Poly Tank	34 1/2" x 43 1/2" x 40"	550 lbs	208-240VAC / 1P / 60Hz (std) 208-240VAC / 3P / 60Hz 480VAC / 3P / 60Hz	28.7 Amps (std) 20 Amps 9.3 Amps
NSC5000	40°F(4.5°C) to 65°F(18°C)	40°F - 100°F	70°F Ambient 40°F (4.4°C) - 38,200 BTU/hr (11,200 Watts) 52.5°F (11.4°C) - 46,500 BTU/hr (13,630 Watts) 65°F (18.3°C) - 56,000 BTU/hr (16,410 Watts)	2 HP Centrifugal Pump	0 GPM @ 46 PSI 30 GPM @ 37 PSI 60 GPM @ 17 PSI	1-1/4" NPT	R404a	50 Gallon Poly Tank	34" x 65" x 62"	1000 lbs	480VAC / 3P / 60Hz (std) 208-240VAC / 3P / 60Hz 208-240VAC / 1P / 60Hz	12.4 Amps (std) 29.3 Amps 48 Amps
NSC10000	40°F(4.5°C) to 65°F(18°C)	40°F - 100°F	70°F Ambient 40°F (4.4°C) - 77,200 BTU/hr (22,630 Watts) 52.5°F (11.4°C) - 93,800 BTU/hr (27,480 Watts) 65°F (18.3°C) - 112,700 BTU/hr (33,030 Watts)	2 HP Centrifugal Pump	0 GPM @ 46 PSI 30 GPM @ 37 PSI 60 GPM @ 17 PSI	1-1/4" NPT	R404a	50 Gallon Poly Tank	34" x 65" x 62"	1000 lbs	480VAC / 3P / 60Hz (std)	22.8 Amps (std)

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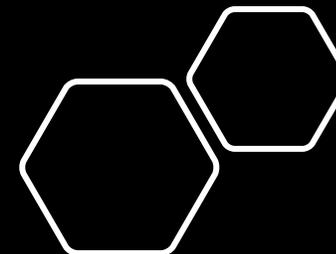


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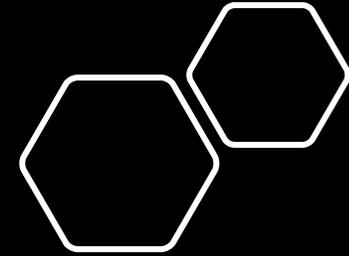
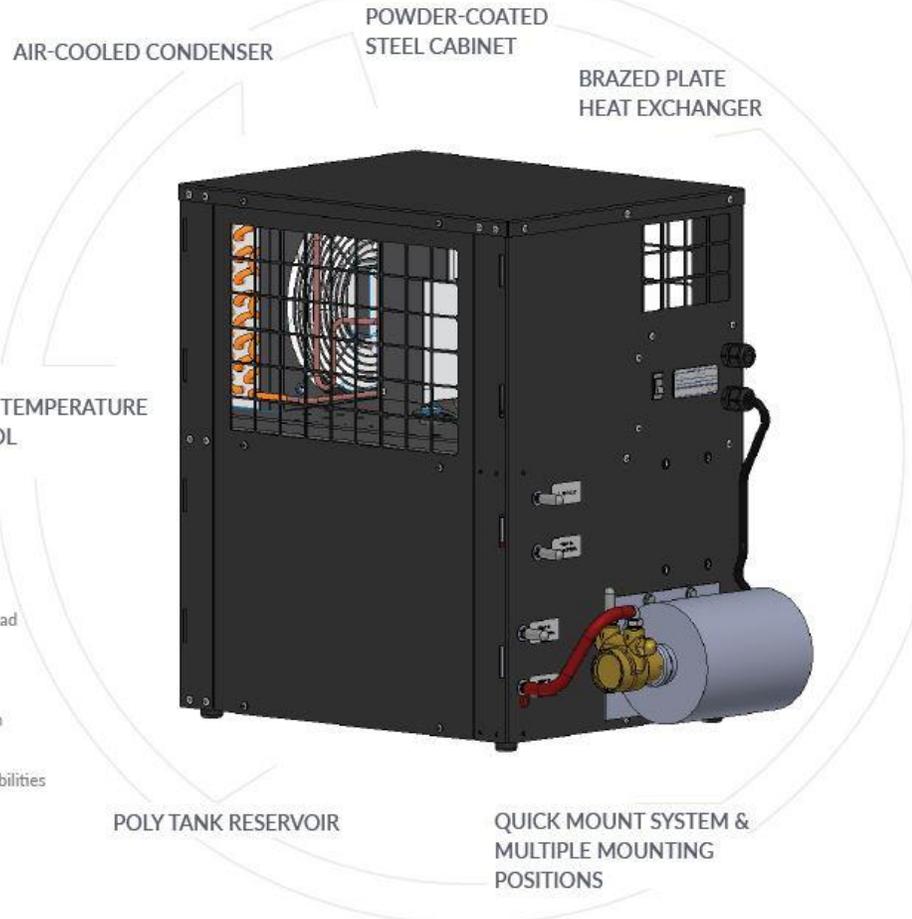
GLYCOL CHILLER POWER PACK SERIES

SMALL BUT MIGHTY

AG-CHILL, experts in temperature control for your botanical production, bring you a line of efficient, high-performance glycol chillers. Engineered for efficiency, value, and minimal footprint, these chillers also allow up to three separate circuits for optimal versatility.

- Digital temperature control for maximum efficiency
- Interface effortlessly with your process
- Quick mount system: save time and money, and avoid frustration with easy wall installation
- Multiple mounting positions
- Insulated reservoir and lines protects glycol temperature and minimizes condensation
- Anti-vibration pads reduce motor noise
- Rugged powder-coated steel cabinet

Shortest Industry Lead Times
Made in the USA
 Award-Winning Manufacturer
 World-Class Custom Engineering Team
 ETL Safety Listed
 Smart Chiller™ capabilities available



POWER PACK

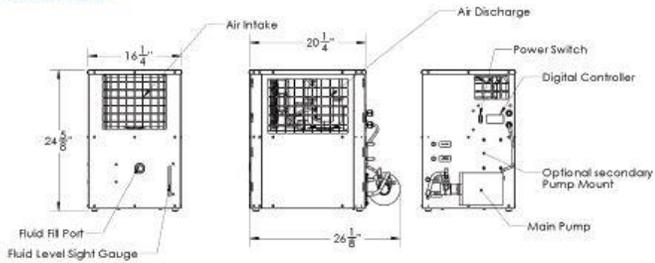
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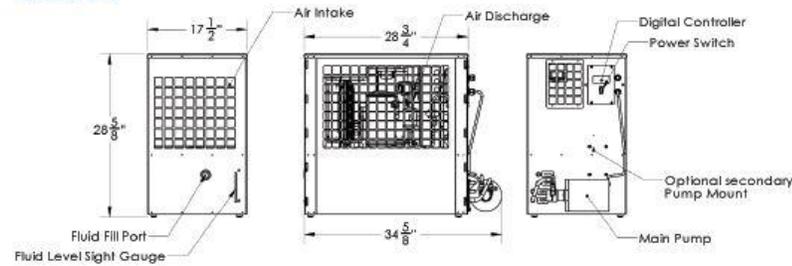
GLYCOL CHILLER POWER PACK

	NSGC0101	NSGC0301	NSGC0401	
Dimensions L x W x H (Including Pumps and Motors)	26-1/8" x 16-1/4" x 24-5/8"	34-5/8" x 17-1/2" x 28-5/8"	34-5/8" x 18-3/4" x 28-5/8"	
Electrical	Voltage	120VAC, 60Hz, 1P	208-240VAC, 60Hz, 1P	208-240VAC, 60Hz, 1P
	RLA (Rated Load Amps)	16	16	25
	MCA (Min. Circuit Ampacity)	18.6	19.4	29.2
	MOCP (Max. over Current Protection)	28.6	32.0	47.2
	Plug Type	5-20P 	6-20P 	L6-30P 
Refrigeration Circuit	Compressor	1/2 hp	1 hp	1-1/2 hp
	Cooling Capacity 30°F Fluid at 90°F Ambient	3,600 BTU/hr	7,250 BTU/hr	11,500 BTU/hr
	Refrigerant	R134a		
Fluid Circuit	Reservoir Capacity	4 Gallon		
	Glycol Pumps	Single Pump (dual pump capable)		Dual Pump (Triple pump capable)
	Fluid Connections	3/8" Barbed		
	Pump	80 GPH 1/3 HP Rotary Vane		

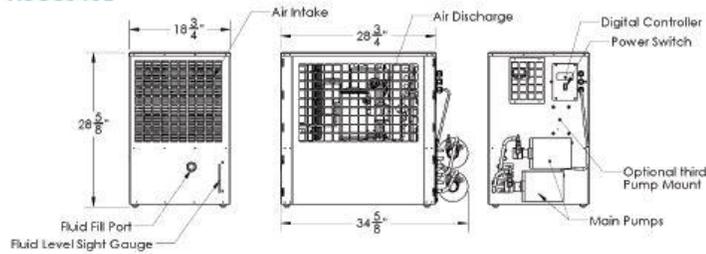
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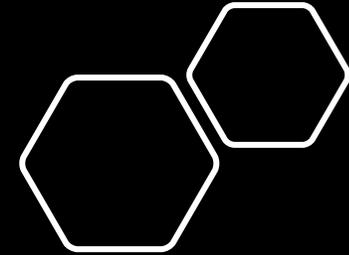


NSGC0401



POWER PACK

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