

Alpha Series Model A2

ALPINE CHILLERS

PROCESS CHILLER FOR CANNABIS EXTRACTION APPLICATIONS

- Ultra-Low Temperature Control of Solvents
- Rated for 8 KW at -60°C
- Water-Cooled Industrial Production Unit
- UL508A Certification

COOLING CAPACITIES

°C	-40	-50	-60	-70	-80
KW	16	12.9	8.4	4.6	1.8

The performance data are based on:

Heat transfer fluid: Syltherm XLT

Condenser cooling water inlet temperature: 15°C

Instrumentation and controls

Setpoint range	-40°C to -80°C
Temperature stability	± 1.0°C
Certification	UL508A Industrial Control Panel
Control panel	Stainless steel NEMA 4X Enclosure
Operator interface	4" color touch-screen graphic display
Control system	Programmable logic controller (PLC)
Monitor capabilities	Temperatures, level, equipment status
Communications	Modbus, RS-232 and RS-485
Temperature sensor	Internal Pt100 RTD
Tank level indication	Electronic analog level transmitter

Electrical

Power requirement	460 V, 3-Phase, 60 Hz, 33 Amps FLA
Codes/standards	NFPA-70, NFPA-79

Physical parameters

Construction	Stainless steel frame and cabinet
Dimensions	34 W x 72 L x 72 H (in.)
Shipping Weight	1,850 lbs.
Cooling water pipe	1-1/4" MNPT supply and return fittings
Recirculation pipe	3/4" FNPT supply and return fittings



A2

Refrigeration system

Type	2-Stage cascade refrigeration cycle
Refrigerants	Stage 1 - R404A, Stage 2 - R23
Compressors	Semi-hermetic reciprocating
Water requirements	10-20 GPM cooling water
Condenser	Water-cooled shell and tube
Evaporators	Brazed plate heat exchangers

Recirculation system

Heat transfer fluid	Syltherm XLT, Dynalene HF-LO, etc.
Expansion tank	25 Gallon stainless steel reservoir
Piping	Welded stainless steel piping, valves
Pump type	Magnetically coupled gear pump
Rated pump flow	10.75 GPM
Maximum pressure	45 PSI

Warranty

System warranty	12 Months, parts and labor
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A2-R7 Date 03-15-21



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ALPINE

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MADE IN

U. S. A