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AIR CHILLER SYSTEM



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The new Air Chiller System, ACS-3, is a unique gas flow cooling system that enables mechanical testing to temperatures as low as -100 °C. Equipped with a three-stage cascading compressor design, the ACS-3 allows for low temperature environmental control without the use of liquid nitrogen. This flexible system is available for use with the Q800 DMA, all Discovery Hybrid Rheometer models with Environmental Test Chamber (ETC), the ARES-G2 Rheometer and the RSA-G2 Solids Analyzer with Forced Convection Oven (FCO). The ACS-3 can help eliminate or reduce liquid nitrogen usage and associated hazards from any laboratory and offers an incredible return on investment.

Operating Specifications

Instrument	Environmental System	Minimum Temperature
DMA Q800	Standard Furnace	-100°C
ARES-G2/RSA-G2	Forced Convection Oven, FCO	-100°C
DHR	Environmental Test Chamber, ETC	-85°C

Safe

The ACS-3 eliminates the need for liquid nitrogen or other refrigerated gases, removing potential for asphyxiation, injuries, or other hazards associated with compressed gas.

Convenient

Never change, refill, or order another tank of liquid nitrogen. The ACS-3 is ready to run whenever you are.

Small

Space in your lab is precious and the ACS-3 helps to preserve that resource. The Air Chiller occupies 36% to 75% less space than equivalent liquid nitrogen cooling systems

Quiet

The efficient design produces a comfortable low operating noise level of 55 dB.

Affordable

Over the life of the instrument, the ACS-3 provides considerable cost savings over recurring gas deliveries. Depending on your liquid nitrogen cost and consumption, typical return on investment is two to three years.*

*Estimated annual LN2 savings of \$6500 based on usage of 1 tank per week at a cost of \$125 per tank.