

A 360° approach to sustainable ULT storage.

Act now

ENERGY

Industry-leading energy efficiency per sample

The ENERGY STAR®-certified SU780XLE combines inherently efficient free-piston Stirling engine performance with a high-density storage design to offer unsurpassed energy savings per sample capacity.

INFRASTRUCTURE

Minimal heat rejection effects on HVAC

Beyond remarkably low heat output, the unique air flow design ejects heat upward toward room air returns for maximum comfort, rather than mixing rising heat into the room from floor level like other ULTs.



US

Stirling Ultracold SU780XLE Upright Ultra-Low Temperature Freezer

Athens, Ohio, United States
SKU SU780XLE-PWR5

Environmental Impact Scale Decreasing Environmental Impact	
1	10
Manufacturing	
Manufacturing Impact Reduction	1.0
Renewable Energy Use	No
Responsible Chemical Management	1.0
Shipping Impact	1.0
Product Content	5.0
Packaging Content	1.0
User Impact	
Energy Consumption (kWh/day)	8.0
Water Consumption (gallons/day)	N/A
Product Lifetime	3.0
End of Life	
Packaging	5.0
Product	5.8
Environmental Impact Factor:	
30.8	
Label Valid Through: July 2025	
act.mygreenlab.org	

#1 U.S. ACT Score
from My Green Lab

TEMPERATURE

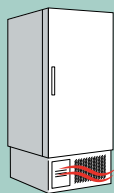
Wider setpoint range matches temperatures to sample type

With its wide -20°C to -86°C range, the SU780XLE is the only single ULT model that supports a broad selection of stable setpoints for optimized temperature matching by sample type.

UTILIZATION

Highest storage density & capacity per footprint

The high-density cabinet optionally holds up to 700* 2-inch boxes. This not only allows you to deploy fewer units to store comparable sample volumes in a smaller space, but saves energy and related carbon emissions by using less freezers over operating lifetime.



VS



Uniquely dedicated to sustainability

From its beginning, Stirling Ultracold has set the industry standard for energy efficiency, climate-friendly refrigerants, green lab advocacy and more, with the only dedicated line of all-sustainable ULT models.

Watch this video to see our leading role in the International Laboratory Freezer Challenge by scanning the QR code.



*To keep the vacuum release port unobstructed on the SU780XLE, it is recommended that one box be removed from the High-Density Storage Rack. This will reduce storage capacity to 699 2-inch boxes in the high-density configuration.



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