

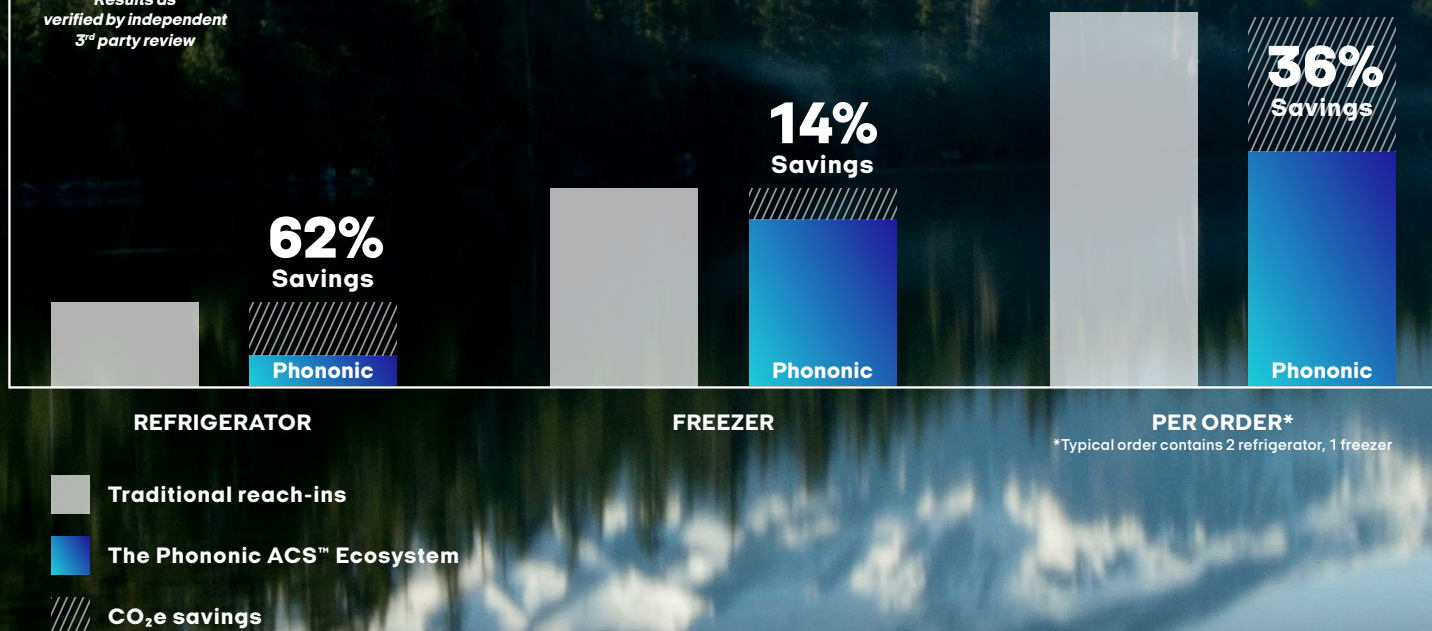
Cooling Technology that's Better for the Environment

Eliminating traditional refrigerants and finding sustainable cooling solutions with a lower carbon footprint impact is a priority for many grocers today. Phononic's ACS™ Totes represent a monumental step forward. In fact, the Phononic ACS Refrigerator Tote produces less than half the CO₂e of a traditional reach-in over one year of usage. Combine this with Phononic's demand-based energy savings potential, real-time cold chain compliance documentation and streamlined associate workflows, the Phononic ACS solution delights end customers, improves your bottom line, delivers fresher food and reduces food waste.



Results as
verified by independent
3rd party review

Cradle to Grave Comparison {per One Year of Product Usage}



Read the full LCA report
conducted by John Beath
Environmental, LLC



As the global leader in solid state cooling technology, Phononic is driving the world to a more sustainable way to cool. Its transformational technology reduces greenhouse gas [GhG] emissions and supports climate goals, while meeting the demanding performance needs of the market.

Phononic Totes: Proven to be Efficient, Cut Carbon and Reduce Maintenance



Good for Business

Modular design — cool only what you need



Good for Customers

Improve order accuracy & decrease wait times



Good for the Environment

Solid state technology eliminates hazardous HFCs

Eliminate environmentally harmful refrigerants

Phononic totes deliver lower GWP, lower carbon footprint impact and demand-based energy savings.

Phononic's ACS™ [Active Cooling Solutions] Ecosystem, which includes ACS Refrigerator and Freezer Totes, ACS Rack Kit, ACS Cart Kit and ACS Growth Accelerator Suite, enables tri-temperature order consolidation for curbside and delivery operations. Powered by Phononic's solid state technology, the ACS Refrigerator and Freezer Totes are completely devoid of traditional refrigerants.

These flexible and sustainable alternatives to traditional order fulfillment methods reduce labor and space requirements, increase customer satisfaction, and when combined with real-time system data, enable pathways to profitable growth.

Find out more:



THE PHONONIC ACS™ ECOSYSTEM

ACTIVE

Active Cooling

Tote actively cools to reach and maintain setpoint temperature.

Active Use

Team members can pick orders directly into totes on carts; totes can be stored on racks until customer pick-up or deployed in last-mile for delivery.



Refrigerator/Freezer Totes

CONNECTED

Cold Chain Compliance

Documented cold chain compliance; tote documents and maintains temperature 24/7.

Proactive Alert

50+ telemetry points uploaded to Phononic Cloud, providing proactive alerts on temperature, tote use and anything requiring timely attention.



Growth Accelerator Suite

SUSTAINABLE

Eliminate Refrigerants

Completely devoid of hazardous HFCs. Net impact of <1 GWP.

Demand-based Energy Savings

Save energy costs and reduce environmental impact through on-demand chilling and freezing.



Solid State Cooling
AIMACT, FISMA Compliance