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REBIRTH OF THE COOLER

Introducing Oyster Tempo,
the World's First Performance Cooler.

Oyster

VACUUM INSULATION

THERMOS

1904

Oyster

2023

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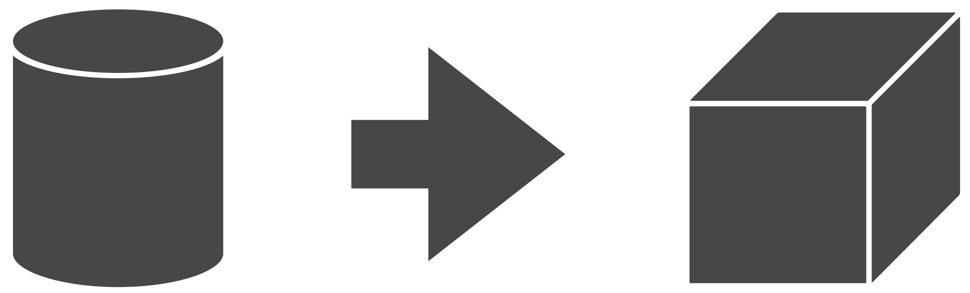
5 YEARS OF DEVELOPMENT

We started out trying to optimize the last mile distribution of groceries, researching various insulation technologies. It quickly became obvious that vacuum insulation was superior both in thermal performance and cost of manufacturing, with one flaw.

Vacuum insulation has existed for over a century in the form of Thermoses, but the technology is limited to cylindrical form factors, due to the curved structure's ability to withstand the high forces of negative pressure (vacuum) within the walls.

We needed a box to move forward, so we got to thinking:

What if we were able to design a non-cylindrical (a box) vacuum container where the wall structure could resist the negative pressure from the vacuum?



CYLINDER BOX

Our hypothesis was to insert fumed silica panels derived from VIP panels (vacuum insulation panels) between flat walls to resist the negative pressure and implosion. And further utilize the barrier film derived from VIP panels, to seal the chamber and optimize the cold bridge.

Our initial prototype proved the hypothesis by improving the thermal performance 6x in the box form factor, but the concept was too heavy and did not solve our need.

We needed a solution that was lightweight, fully recyclable, had a 10-year lifespan, and was cost-efficient at scale, so we got to work...

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THE PROBLEM

NOT COOL

The “best” traditional coolers utilize plastic shells filled with Polyurethane insulation. This results in oversized products that are heavy, with poor thermal performance and are almost impossible to recycle.

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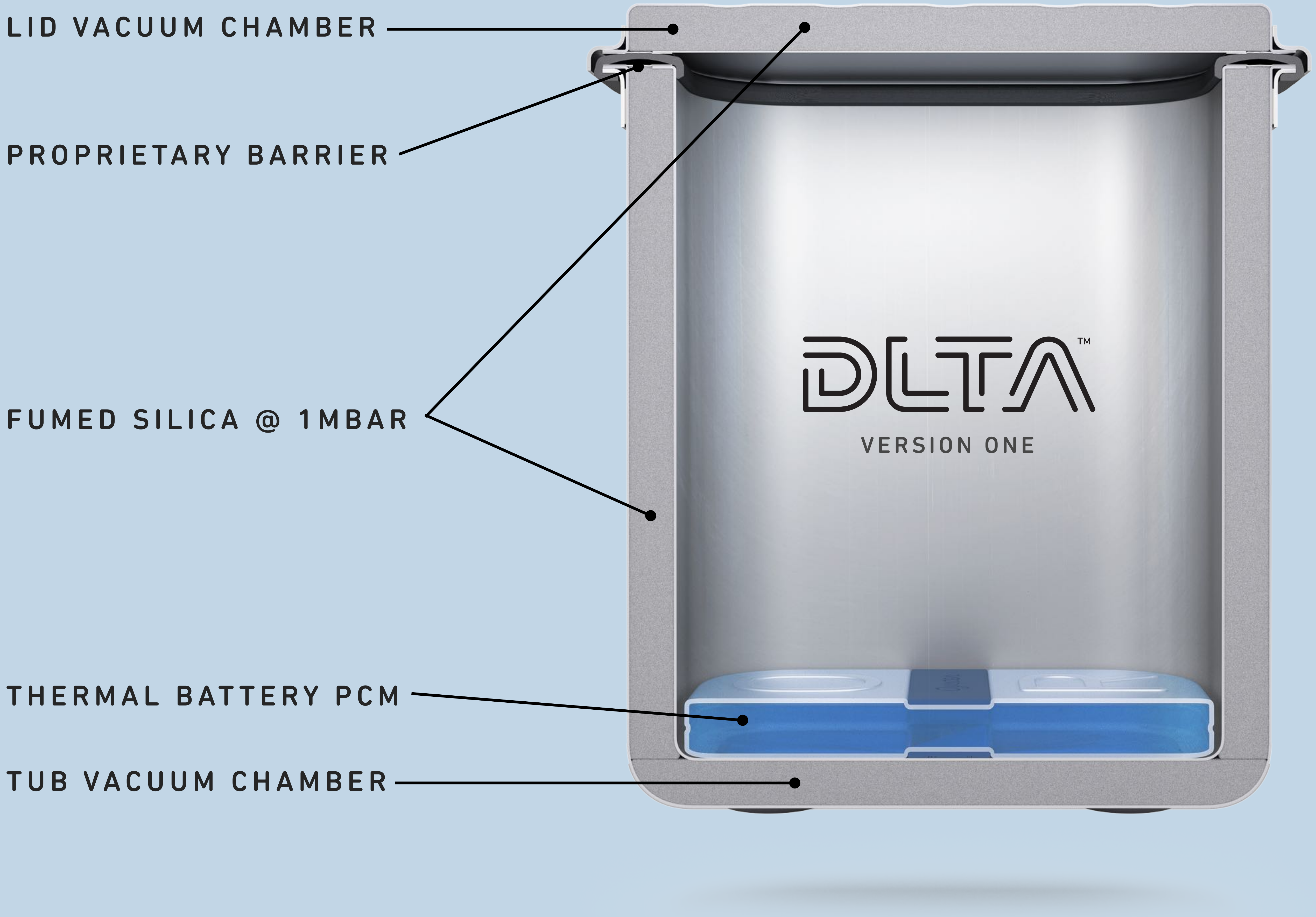
THE SOLUTION



VERY COOL

We have developed and built possibly the worlds first fully integrated Aluminium - Silica Vacuum container. Radically optimizing the three key thermal challenges

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WE ARE REVOLUTIONIZING TEMPERATURE SENSITIVE STORAGE

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NOT COOL VERY COOL

THE PROBLEM

THE SOLUTION

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THE THREE THERMAL CHALLENGES

To radically improve the performance of traditional coolers, we identified three key thermal drivers. We believe optimizing these is crucial to moving the category forward

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1. CORE INSULATION

A highly-insulating container wall limits heat transfer between the outside environment and the internal storage space.

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2. THERMAL BRIDGE

All containers have a physical connection between the inside and outside. Minimizing thermal conductivity between the two is critical to obtain a high insulating cooler.

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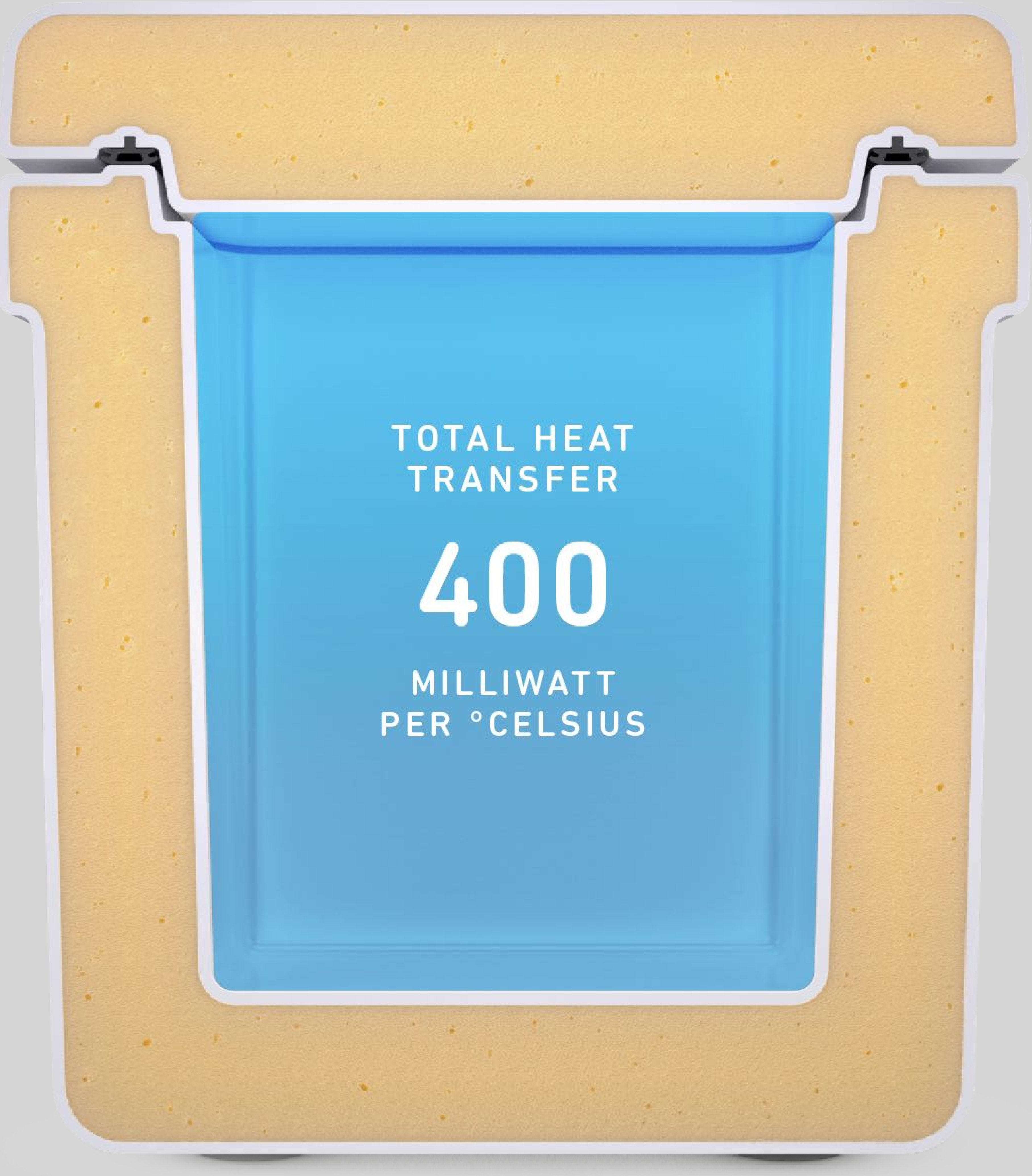
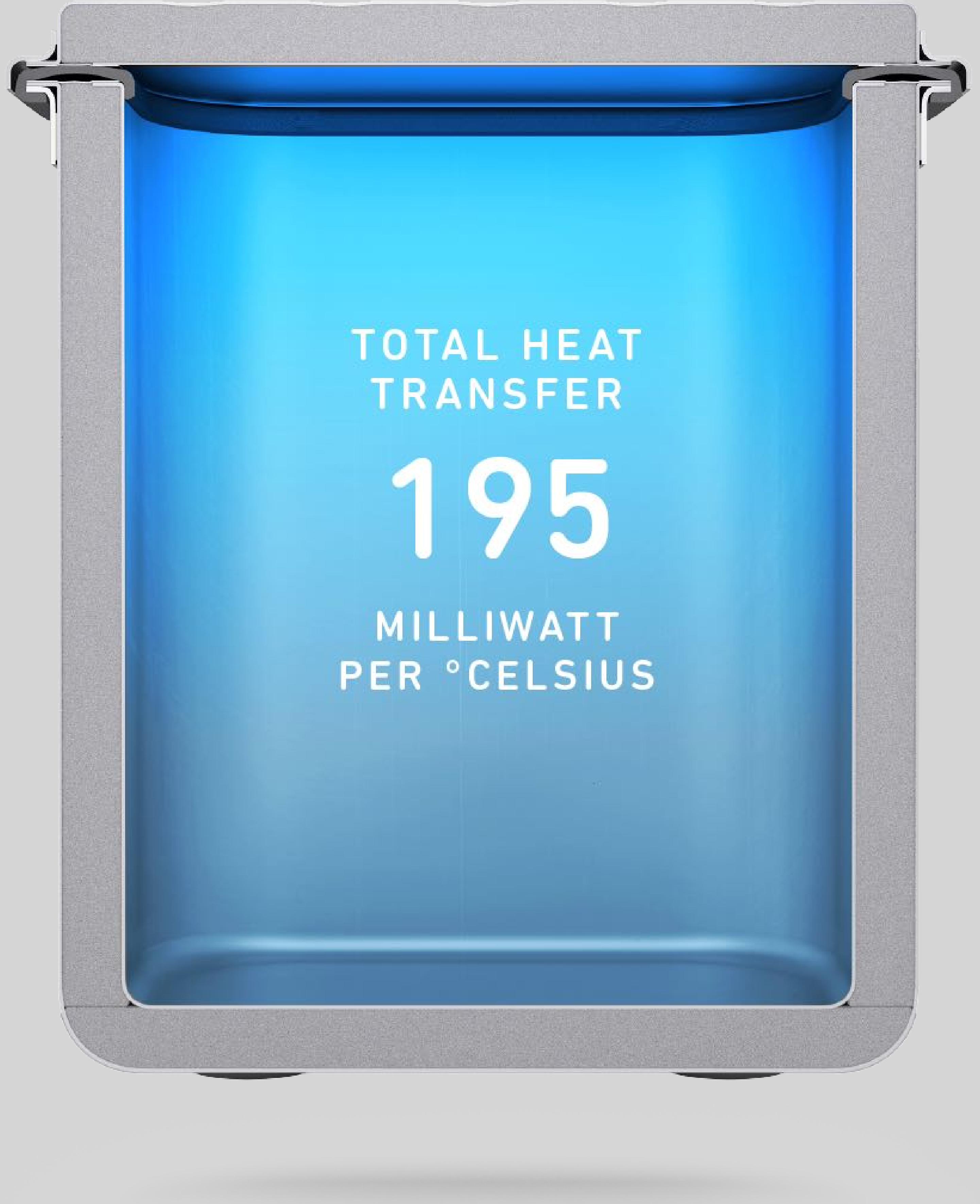
TOTAL HEAT TRANSFER





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3. THERMAL CIRCULATION

The speed at which thermal energy is distributed within the cooler, affects how quickly the container achieves its target temperature, and how evenly the temperature is distributed within the cooler.

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TEST: 12 HOURS @ 86°F

12 Cans @ 35°F - 2 Lbs Icepack @ 27°F

CVS Cooler (24 liter)
USD 25,-

Yeti Hopper (18 liter)
USD 299,-

Yeti Tundra (45 liter)
USD 350,-

DLTA (23 liter)
USD 500,-

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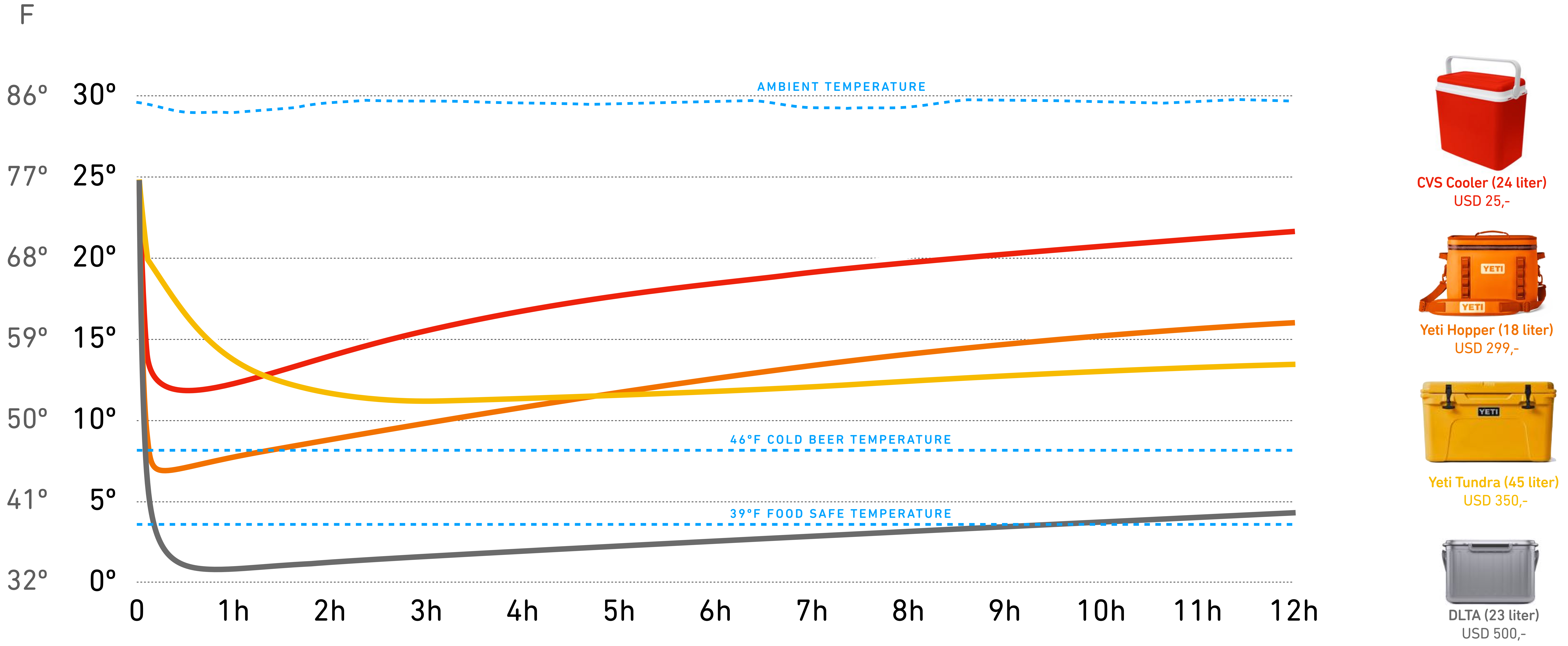
THE Oyster COOLER



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OYSTER SHORT STORY

Oyster

COLDER, FASTER, LONGER

3X COLDER* THAN POLYURETHANE PLASTIC COOLERS.

*BASELINE @ 32°F

3X CAPACITY WITHIN THE SAME EXTERNAL VOLUME AND WEIGHT.

100% RECYCLABLE ALUMINUM AND SILICA CONSTRUCTION.

DRY
NO ICE
FOOD SAFE

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KEY FEATURES

ONE HANDED OPEN
FROM BOTH SIDES

HUGE INSIDE
COMPACT OUTSIDE

USER FRIENDLY

BUMPS AND
SCRATCHES ARE
MEMORIES

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