Solstice

GET THE SOLSTICE® LBA ADVANTAGE

See reduced costs and better insulation performance with Liquid Blowing Agent (LBA) blends vs Vacuum Insulated Panels (VIPs)

As energy efficiency regulations evolve, refrigerator manufacturers need innovative ways to meet new requirements – all while maintaining profit margins and attractive retail price points for consumers. Solstice® LBA minimizes the need to use more expensive Vacuum Insulated Panels (VIPs) while realizing a 10% improvement in insulation performance vs hydrocarbons. By replacing 1 sq. meter of VIPs using our high-performance Solstice® LBA in your blends, customers can save an average of $5 per refrigerator.

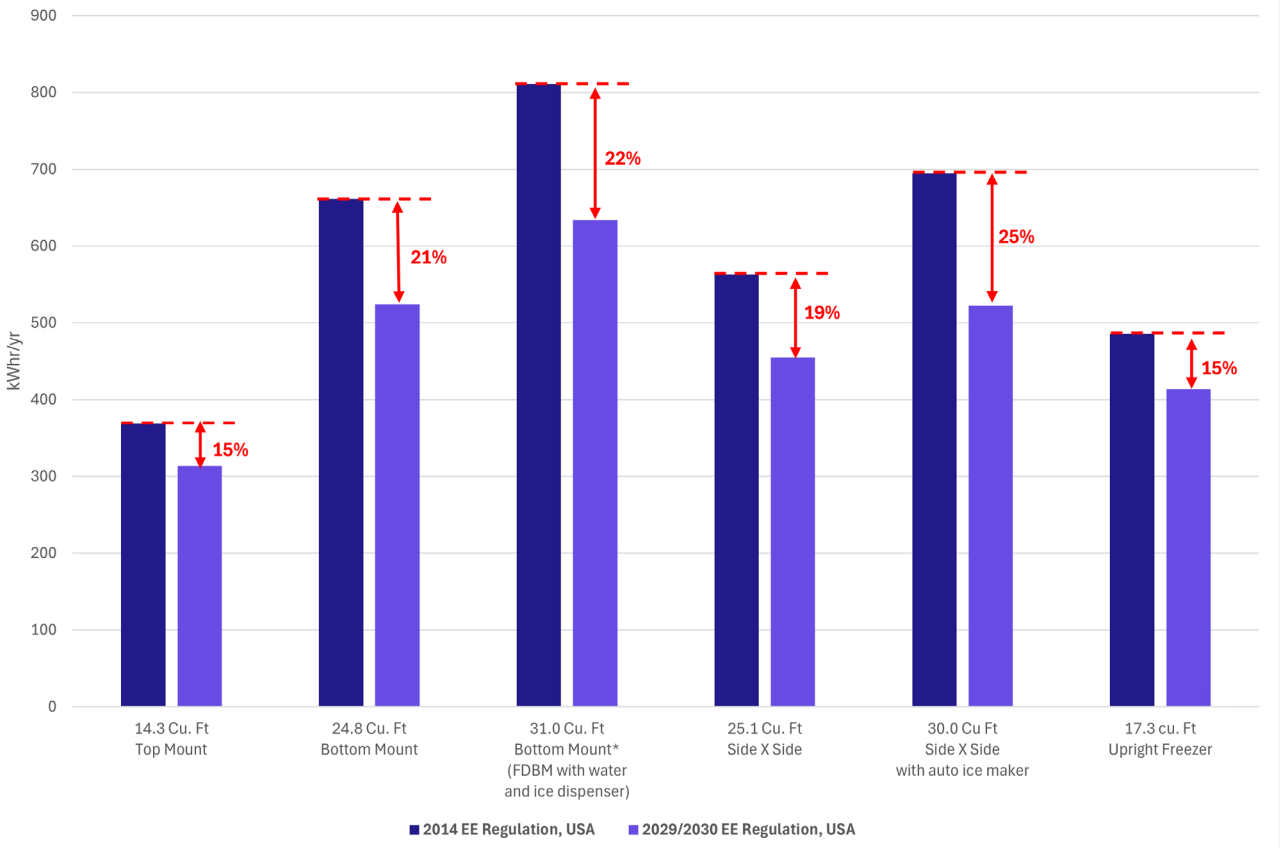
REACH YOUR SUSTAINABILITY GOALS

The appliance industry is facing an environmental challenge resulting from the use of high GWP materials, such as hydrofluorocarbons (HFCs), hydrochlorofluorocarbons (HCFCs), or less energy efficient materials like hydrocarbons, commonly used as blowing agents in the production of insulation foam.

Based on hydrofluoro-olefin (HFO) technology, Solstice® LBA has a global warming potential (GWP) of 1, 99.9% lower than HFC blowing agents.

Solstice® LBA helps customers realize energy efficiency goals, with a 10% improvement in insulation performance vs hydrocarbons. Solstice® LBA is non-ozone-depleting, nonflammable (ASTM E-681 and EU A11), listed under the U.S. EPA's Significant New Alternatives Policy (SNAP) program to replace ozone-depleting substances, listed on the TSCA inventory/registered under REACH, VOC-exempt (per U.S. EPA), and manufactured in the U.S.

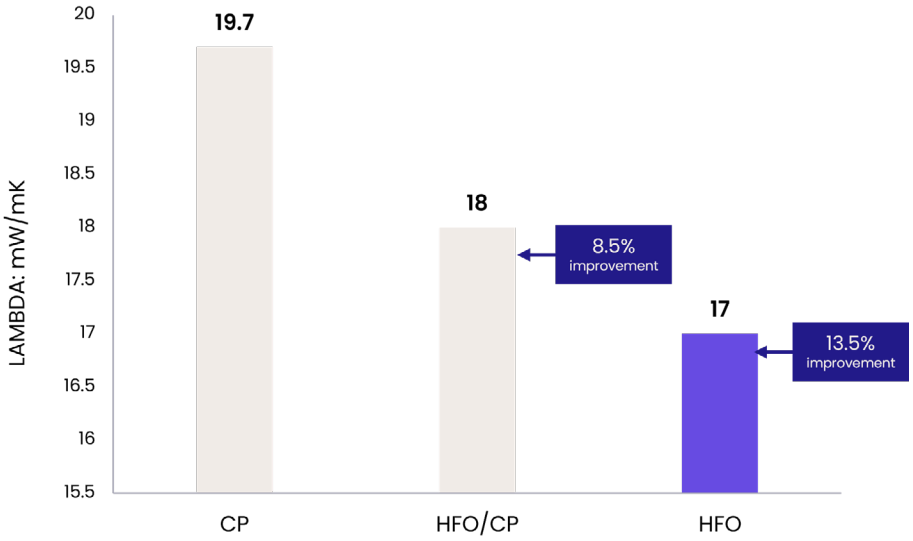
ENERGY EFFICIENCY CHANGES IN COMMON HOME REFRIGERATOR-FREEZER & UPRIGHT FREEZER



TECHNICAL INFORMATION

Solstice® LBA offers an ultra-low global warming potential (GWP) of one, and is an alternative to HCFCs, HFCs, and hydrocarbons (cyclopentane). When used alone or as a blend with cyclopentane, Solstice® LBA can provide better insulation performance than using cyclopentane and vacuum insulated panels (VIPs).

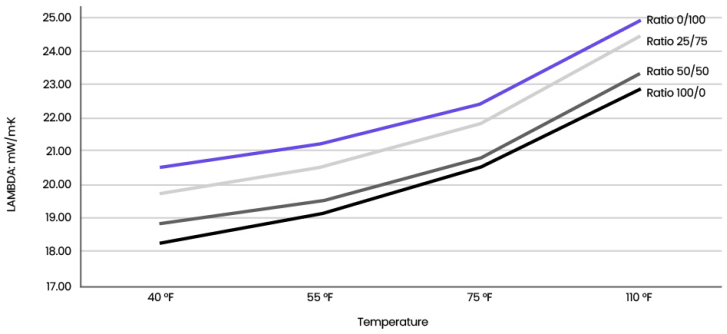
BLENDS OF SOLSTICE LBA / CYCLOPENTANE



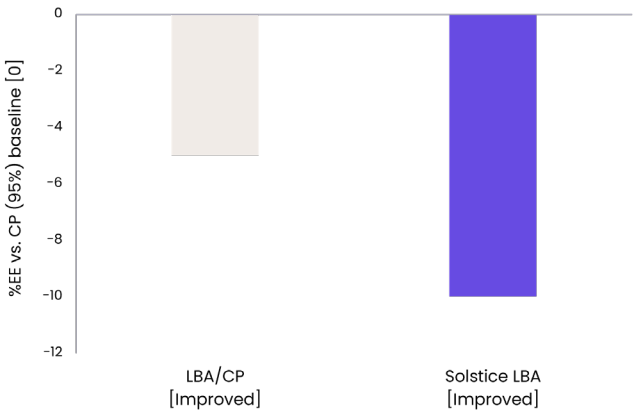
NOTE: Measurements are at 10 °C

Solstice® LBA optimized: 13.5% improvement over cyclopentane baseline

BLENDS OF SOLSTICE® LBA / CYCLOPENTANE



ENERGY CONSUMPTION VS. BLOWING AGENT



Pure Solstice® LBA Foam System Can Improve EE on Average 5-10% Compared with CP System, Depending on Product Design

RESPONSIBLE CARE™
Driving Safety & Sustainability

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For more information, click HERE or scan the QR code to contact us.

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