SUMITOMO RIKO

PRESS RELEASE

October 2, 2024

Sumitomo Riko Exhibits at Japan Mobility Show Bizweek 2024

Sumitomo Riko Co., Ltd (Headquarters: Nakamura-ku, Nagoya; President & CEO: Kazushi Shimizu) will exhibit at the Japan Mobility Show Bizweek 2024 to be held at Makuhari Messe (Chiba City, Chiba Prefecture) from October 15 (Tue.) to 18 (Fri.).

Japan Mobility Show Bizweek 2024

Japan Mobility Show Bizweek 2024 is an exhibition organized by Japan Auto Parts Industries Association (JAPIA), a business event that generates co-creation between mobility-related companies and start-ups. Our group is planning to introduce “Cool Fit Plate (Battery Cooling Plate),” “IHX (Internal Heat Exchanger),” and “Resin Tube for Cooling Piping of BEV” as EV-related products at the show.

<Outline of the exhibition>

Exhibition Name	Japan Mobility Show Bizweek 2024
Dates	Tuesday, October 15 - Friday, October 18
Venue	Makuhari Messe
Booth No.	A-12
URL	https://www.japan-mobility-show.com/

<Exhibits>

＞＞Battery Cooling Plate: Cool Fit Plate

This is a battery cooling product to efficiently cool the bottom of the battery (the upper side of the flow path) and furthermore to equalize the temperature of the battery. It features protrusions in the parallel flow paths, which generate vortex and agitate the fluid boundary layer, resulting in efficient cooling performance. Moreover, by placing the protrusions in the optimal locations, the cooling efficiency can be improved at any point, thereby reducing the temperature difference between different parts of the battery, which contributes to extending battery life.

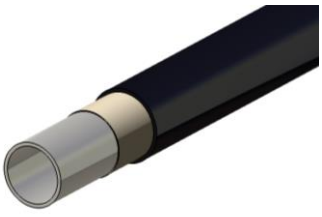
Lower Plate

＞＞IHX（Internal Heat Exchanger）

This internal heat exchanger improves the cooling efficiency of air conditioning systems and achieves high heat exchange performance with its unique spiral shape. The addition of a straight shape to the spiral shape of the low-pressure piping (inner tube) allows the creation of a flow that agitates the boundary layer, resulting in efficient heat exchange performance. Compared to our current mass-produced products, the new product can improve heat exchange performance by 30%, contributing to improved electricity costs.

＞＞Resin Tube for Cooling Piping of BEV

This is a cooling resin tube for BEVs (electric vehicles). Polypropylene is used as the innermost layer of the tube in consideration of heat resistance and other environmental mitigation factors compared to tubes for ICEs (internal combustion engines). This has enabled us to reduce the cost of resin tubing. Compared to the conventional press-fit fastening, the laser-welded fastening structure contributes to reducing the number of parts and the reduction of pressure loss.



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