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ISUZU ANNOUNCES A NEW GENERATION OF THE REFRIGERATED BODY – IT’S ELECTRIC!

A focus on product integration and new technologies has delivered a new refrigeration delivery solution for the future!

Las Vegas, NV.—Isuzu Commercial Truck of America, Inc., distributor of America’s best-selling low cab forward trucks, announced the development of an all-electric Isuzu NRR EV truck integrated with the Thermo King® e300 all-electric transport refrigeration unit (TRU) during the Advanced Clean Transportation Expo (ACT).

Isuzu’s NRR EV was announced in March 2023 and is planned for production this summer. The Class 5 NRR-EV is Isuzu’s next generation of medium-duty delivery trucks and today it has elevated what’s possible with an EV powertrain.

The Isuzu N-Series trucks have long been an industry favorite for their maneuverability and visibility, the two key hallmarks of their low-cab forward design. The NRR-EV has three wheelbase offerings (132.5”, 150”, and 176”) that allows customers to choose between 14 to 20-ft. bodies to utilize the vehicle’s 19,500 GVWR. When it comes to the powertrain, the NRR-EV can be equipped with one of four battery pack configurations (60 kWh, 100 kWh, 140 kWh, and 180 kWh) with different estimated ranges from 60 to 235 miles.

This advanced Isuzu powertrain is key to the development of an all-electric refrigerated Class 5 truck. The powertrain is equipped with an electric-power takeoff (ePTO) that has an operating range from 7 to 12 kWh output with a peak output of 26 kWh for demand spikes like when operating a dump body under heavy load. One of the best features of the ePTO is that it works seamlessly without a switch. This means the driver doesn’t need to dial it up or down to meet the power demands of the onboard equipment. The NRR-EV’s onboard computer will communicate directly with the Thermo King® e300 all-electric transport refrigeration unit and supplies the power needed.

The Thermo King® e300 is part of the evolve™ portfolio of electrified refrigeration solutions. This Class 5 refrigerated truck solution developed by Thermo King® is fully integrated into the OEM’s electric vehicle chassis. Customers can order an EV chassis with an all-electric transport refrigeration unit to meet their delivery needs. The nose-mount unit is designed for refrigerated box trucks to help companies meet decarbonization regulations and goals. It can provide cooling for single temperature applications with minimal impact on the Isuzu NRR-EV’s range. The e300’s electric reciprocating compressor provides constant, continuous system capacity regardless of whether the vehicle is stationary or driving down the



Commercial Truck of America, Inc.

road. The capacity is not susceptible to varying engine RPM changes that impact a traditional engine-driven system's performance.

In fact, the e300 eliminates traditional components like the belt driven compressor, mount and drive kit, and refrigeration hose. Installers will appreciate the reduction in overall installation time and owners will appreciate the increased reliability because less parts means fewer breakdowns. The e300 also uses R-452A refrigerant which is a low global warming potential (GWP) refrigerant that reduces direct CO₂ emissions by nearly 50% per unit when compared to the traditional R-404A refrigerant.

This truck opens new doors for businesses and Isuzu. Shaun Skinner, President of Isuzu Commercial Truck of America, says, "Our new NRR-EV has been the top conversation for the last couple of years. We knew we had a good solution for dry product delivery, but many of our customers also needed refrigerated delivery. With all of the intricacies of the powertrain and a new approach to refrigeration, this really shows the power of the Isuzu-Thermo King collaboration. Engineers have worked tirelessly to get this right and customers will appreciate what this truck can do. For Isuzu, this is among the first Class 5 all-electric refrigerated truck offerings, and it will open new doors for us and our brand."

Sustainability and collaboration are at the heart of this new truck. Chris Tanaka, Vice President of Product Management for Thermo King Americas stated, "Thermo King recognizes the power of collaboration for driving industry progress. Strategic collaborations, such as with Isuzu Commercial Truck of America, underscore our commitment to providing our joint customers with cutting-edge technology that align with OEM developments and propel zero-emission transportation forward."

This refrigerated truck solution is showcased during the 2024 ACT Expo in Las Vegas, NV, May 20-23, 2024.

About Isuzu Trucks

Isuzu commercial trucks have been the best-selling low cab forward trucks in America every year since 1986. Headquartered in Anaheim, California, Isuzu Commercial Truck of America, Inc. is the distributor of Isuzu commercial vehicles in the United States and is a subsidiary of Isuzu Motors Limited, one of the world's largest manufacturers of medium- and heavy-duty trucks.

For more information, call (866) 441-9638 or visit www.isuzucv.com.

About Thermo King

Thermo King – by Trane Technologies (NYSE: TT), a global climate innovator – is a worldwide leader in sustainable transport climate control solutions. Thermo King has been providing transport temperature control solutions for a variety of applications, including trailers, truck bodies, buses, air, shipboard containers and railway cars since 1938. For more information, visit thermoking.com or tranetechnologies.com.

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