

25% Global Share of Car Air-conditioning Compressors



Automotive Systems Business

Using Technologies for Environmental-Friendliness and Outstanding Comfort to Expand Global Business Providing Car Air-conditionings that Are Friendly to People and the Global Environment

Sanden's compressors for automotive air-conditionings are highly dependable products that are incorporated in automobiles manufactured throughout the world. The Company offers diverse types of compressors—including Wobble plate, swash plate, and scroll types—that are ideal for various kinds of automobiles—including conventional internal combustion vehicles as well as hybrid and electric-powered vehicles—and has maintained a high level of customer satisfaction in this field.

Another principal product in this field is compact HVAC (heating, ventilating air-conditioning) systems*, which offer economical

benefits that have led to a rapid rise in the share of compact and mini-vehicles equipped with such systems. In addition, to sustain reliability amid the extremely harsh operating conditions of construction equipment, we have used our own original technologies to create high-durability, high-capacity air-conditioning systems that have earned the unwavering confidence of customers worldwide.

By providing products that are good to the global environment and also promote improved human comfort, Sanden's Automotive Systems Business is working to continue expanding the scale of its business.

*HVAC systems include air-conditioning control units.



■ Electric Compressors
Designed to meet the needs of hybrid and electric vehicles, these compressors do not depend on engine-drive mechanisms, so they maintain optimal air-conditioning performance in line with conditions in vehicles even when the vehicle's engine is stopped. They contribute to increased comfort as well as reduced fuel consumption.



■ Hybrid Compressors
Designed to meet the needs of hybrid vehicles, these are compact and lightweight units that incorporate DC brushless motors with high-performance neodymium magnets and realize sophisticated control through the application of control computers.



■ Externally Controlled Compressors
The compressors realize smooth continuous drive through the use of external control methods and clutchless operation. Their finely controlled operation contributes to conservation of fuel.



■ Scroll Compressors
Scroll compressors have been widely adopted by the world's automotive and home air-conditioning manufacturers because of their quiet operation and ultrahigh speed durability. Sanden took the lead in the development of this type of compressor ahead of other companies in the field in Japan and overseas.



■ HVAC Units
Sanden's HVAC (heating, ventilating air-conditioning) units create pleasant driving spaces that place a high level of importance on human beings, the natural environment, and automobiles. Backed by cutting-edge technology, the solid reliability and high quality of these units deliver a pleasant driving experience.



■ Air-Conditioning Systems
for Construction Equipment
These systems help to improve work efficiency by offering a pleasant environment in the cabin of construction equipment while also saving space and offering automatic operation. The fact that many construction machinery manufacturers have selected these Sanden-brand systems reflects the high level of technology and reliability of Sanden systems.