

Technical Review Special Edition: Air-conditioning & Refrigeration Systems

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Welcome to the special edition our technical review featuring our air-conditioning & refrigeration systems developed by Mitsubishi Heavy Industries Thermal Systems, Ltd. and Mitsubishi Heavy Industries Automotive Thermal Systems Co., Ltd. (MCCJ).

MCCJ commenced operations on January 1, 2013 as a subsidiary of Mitsubishi Heavy Industries (MHI) dedicated exclusively to the automotive air-conditioner business.

Driven by growth in emerging markets, the automotive industry continues to expand globally. In recent years, with increasing interest in resources and the environment, electric powertrain vehicles such as EVs, HVs, and PHEVs have seen strong demand driven by efforts to achieve improved efficiency and stricter emissions control.

MCCJ aims to offer solutions in automotive air-conditioning products such as the enhanced high-efficiency compressor, which is the key component of the refrigeration cycle, motor-driven compressor development, and improved system efficiency based on MHI's well-established heat pump technology.

In this special edition, we introduce examples of key products resulting from our recent development work: a high-efficiency scroll compressor, an electric compressor for electric powertrain vehicles, a heat pump system, and an electric water heater.

MCCJ continues to pursue technological developments that enable both a sophisticated driving experience and protection of our precious environment. We deeply appreciate your ongoing support and understanding in our quest.