

【심포지움-진공 04】

Introduction of the Oil-Free Scroll Vacuum Pump

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The scroll, which is one of many positive displacement and kinetic mechanisms, is currently utilized for refrigerant compressors in air conditioners, air compressors, and vacuum pumps because of its features and advantages. The scroll has been the focus of research and development in order to improve performance and seek new applications. Although the principal of scroll technology developed a long time ago, it had not been utilized until recently. This was due to a highly precise machining processes and technological advances. Nowadays, such difficulties have been resolved by improved machining centers, so many products with unique scroll mechanisms have been introduced. Anest Iwata was the first to develop and supply oil-free scroll compressors and air-cooled oil-free scroll vacuum pumps to the market. An improved type of scroll vacuum pump is introduced herein.