

Semi-hermetic Screw Compressors for Ammonia

Ammonia is becoming increasingly important in refrigeration due to its ideal environmental properties and efficiency. Any remaining risks associated with the use of this refrigerant could be minimized using hermetic compressor technology – even in large-scale air conditioning applications.

Up to now semi-hermetic ammonia compressors have shown a lack in efficiency due to the use of special materials and technology. This disadvantage has been overcome with the development of suction gas cooled motor technology for a semi-hermetic ammonia screw compressor. The materials are the same as those for an open system consisting of a compressor motor and an oil separator. The new compressor technology was developed to facilitate a new ammonia chiller design.

This concept – new chillers based on the semi-hermetic screw compressor – has many benefits. It is the perfect match for all applications with water temperatures above 0°C and can be used in the industrial environment as well as in all air conditioning applications.

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