Frictionless Compressor Technology

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Frictionless Compressor Technology

The frictionless compressor technology is compressor with the application of magnetic bearings and permanent magnet synchronous motor. In frictionless compressor instead of roller bearings and hydrodynamic bearings, magnetic bearings are used. Magnetic bearings consume less power and there is no need for oil and lubrication systems.

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Frictionless Compressor Technology" under my guidance and supervision. ...show more content... Discharge pressures can range from low pressure to very high pressure (>5000 psi or 35 MPa). In certain applications, such as air compression, multi-stage double-acting compressors are said to be the most efficient compressors available, and are typically larger, noisier, and more costly than comparable rotary units.

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Primarily used for commercial and industrial comfort and process cooling Extremely efficient operation Oil free design The Frictionless compressor is the world's first totally Oil-Free compressor specifically designed for the Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) industry.

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Describes a compressor technology introduced in the 2003 International Air-Conditioning, Heating, Refrigerating Exposition. Key features; Capacity and efficiency; Use of the compressor technology in an chiller design certified by the Air-Conditioning and Refrigeration Institute.

Frictionless- Compressor Technology

Introduction The frictionless compressor technology is compressor with the application of magnetic bearings and permanent magnet synchronous motor. In frictionless compressor instead of roller bearings and hydrodynamic bearings, magnetic bearings are used.

FRICTIONLESS COMPRESSION TECHNOLOGY

The frictionless compressor technology is the compressor with which the application of the magnetic bearings & permanent magnet synchronous motor. In the frictionless compressor instead of the roller bearings & hydrodynamic bearings, magnetic bearings will be use. Magnetic bearings consume less power & there is no need for the oil and lubrication systems.

Seminar on Frictionless Compressor Technology Report

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The frictionless compressor technology is compressor with the application of magnetic bearings and permanent magnet synchronous motor. In frictionless compressor instead of roller bearings and hydrodynamic bearings, magnetic bearings are used. Magnetic bearings consume less power and there is no need for oil and lubrication systems.

Frictionless Compressor Technology
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The magnetic bearings allow the compressor to operate without the use of oil for lubrication, which reduces energy losses due to friction and increases the heat transfer efficiency of the chiller, because no oil enters the evaporator or the condenser.

Magnetic-Bearing Chiller Compressors | Department of Energy
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Heroes in the Basement – Frictionless Compressors for Centrifugal Chillers
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By using active magnetic bearings and a direct drive between motor and compressor (without having a gearbox in between) and by applying dry gas seals, a fully dry-dry (oil-free) system was achieved.

Magnetic bearing - Wikipedia
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The Magnitude frictionless magnetic bearing compressor was developed to improve performance and reliability while reducing service requirements compared to conventional centrifugal compressor designs. The unit has a single rotating component — the compressor shaft — levitated on a magnetic field.