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Product Name :

Cut Section Model Of Rotary Hermetic Compressor

Product Code :

SLE/MCE/86



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Description :

Cut Section Model Of Rotary Hermetic Compressor (Product Code: SLE/MCE/86) is a sectioned teaching model used to show the internal parts and working principle of a rotary hermetic compressor in refrigeration and air-conditioning classrooms. Instructors value this lab equipment for technical institutes because the cut-away exposes the stationary cylinder, the roller on the shaft's eccentric and the spring-loaded sealing blade that separates suction from discharge. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Model type	Cut-section model of a rotary hermetic compressor
Main parts shown	Stationary cylinder, roller and shaft; the shaft carries an eccentric on which the roller is mounted
Sealing blade	Set into a slot in the cylinder and kept in contact with the roller by a spring; moves in and out of the slot to follow the rotor
Function shown	Blade separates the suction and discharge parts; the rotating roller always touches the cylinder wall
Dimensions	500 × 400 × 500 mm (approx.)
Weight	35 kg (approx.)
Product code	SLE/MCE/86
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Rotary Compressor Cut Section Model Used For?

The model lets students trace a compression cycle step by step. As the shaft turns, the roller mounted on its eccentric rolls around the inside of the stationary cylinder, always touching the wall, while the blade slides in and out of its slot to follow it. The space between roller and cylinder is divided by the blade into a suction side and a discharge side, so gas drawn in on one side is squeezed and pushed out on the other — which is why the part is often called a sealing blade.

Rotary compressors of this type are widely used in room air conditioners and small refrigeration units, so the model helps refrigeration mechanics, diploma and degree students understand the machine before they meet it sealed inside a real system. It works well on the front bench during lectures and alongside working refrigeration trainers in the laboratory.

OEM Manufacturer

Jain Scientific Equipments Private Limited, trading as ScienceLab, is the OEM that makes the Cut Sectio
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