

IS 11329: 2018

Finned Type Heat Exchanger for Room Air Conditioner (*First Revision*)

Heat exchangers are essential components that transfer heat efficiently between two separate fluids or air streams. They play a crucial role in cooling and heating systems by allowing room air conditioners to regulate temperature effectively, contributing to the comfort in indoor environments.

Consumers expect high-quality heat exchangers that ensure durability, safety, and optimal performance. Key parameters include durability and longevity, leak free operation, resistance to corrosion and efficient heat transfer. Use of safe, non-corrosive materials and robust construction methods is essential to prevent leaks and enhance the lifespan of the product. Additionally, consumers value clear product markings that provide essential details like safety information.

IS 11329 mandates the use of durable materials such as copper or aluminum and specifies surface treatments like e-coating for enhanced corrosion protection. It outlines detailed testing procedures, including pressure and leak tests, to verify the mechanical strength and assembly tightness. Visual inspections ensure there are no defects like burrs or cracks, while corrosion resistance tests confirm suitability for various environments, such as coastal or industrial areas. Compliance with this standard assures consumers of the heat exchanger's quality and reliability.