

Ethyl Acetate Synthesis Unit Operations Pilot Plant For Practical Training

Item Number: LPK-IKDD



Introduction

Modular and customizable pilot plant for ethyl acetate synthesis practical training. Integrates esterification reaction, liquid-liquid extraction, neutralization, and sieve-plate distillation unit operations. Bridging theory and real-world industrial processes. Designed for university chemical engineering labs

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Unit Module	Key Operations & Physical Functions	Maximum Equipment Dimensions (L × W × H)
Public Utility Unit	Delivers stable softened water, cooling water, compressed air, and vacuum; manages continuous run configurations.	2200 mm × 1120 mm × 2310 mm
Esterification Reaction Unit	Handles quantitative reactant feeding, in-line catalytic esterification, condensation reflux, and vacuum material transfer.	2200 mm × 1120 mm × 3600 mm
Neutralization & Extraction Unit	Manages liquid-liquid extraction, gravity two-phase separation, and automatic constant-temperature control for the extraction vessel.	2200 mm × 1120 mm × 2300 mm
Sieve Plate Distillation Unit	Performs batch and continuous distillation, fractional distillation, reflux ratio adjustments, and solvent purification.	2200 mm × 1120 mm × 2900 mm