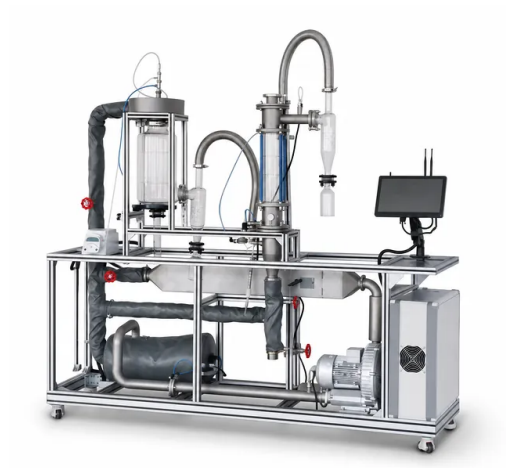


Multi-Functional Drying Educational Unit Operations Pilot Plant

Item Number: LPK-BMFD



Introduction

Versatile multi-functional drying educational unit operations pilot plant integrating tunnel, fluidized bed, and spray drying. Enables hands-on study of drying curves, psychrometry, and gas-solid separation for chemical engineering curriculum in higher education labs.

[Learn More](#)

System Parameter / Module	Technical Description & Capabilities
Drying Modes	Tunnel drying, fluidized bed drying, and spray drying
Visual Components	Transparent spray drying tower, fluidized bed column, and cyclone separators
Chassis Construction	High-strength industrial aluminum alloy frame with lockable casters
Equipment Footprint	Maximum dimensions of 2200 mm × 580 mm × 1980 mm (L × W × H)
Instrumentation & Sensors	Integrated dry-bulb/wet-bulb temperature sensors, anemometers, and electronic balance indicators
Core Laboratory Exercises	- Determination of drying curves and drying rate curves - Psychrometric measurement of air humidity - Comparative study of drying kinetics in static vs. fluidized states - Visual analysis of atomization dynamics and gas-solid separation in cyclones