

**F-13****AUTOMATED****Fast Drying  
Capability****Fast Product  
Freezing****Moveable****Key Features**

F-Series driers are designed for food & industrial processes. The entire process from initial freezing to final drying can be done in a single pre-programmed cycle.

The F-Series can perform initial freezing of the product quickly via conduction.

This ensures the machines can slot into a fast paced production environment with ease.

The F-13 is ideal for medium scale product development and small-scale production activities. The machine is designed to freeze dry 13kg\* of product over a 16-24 hour period.

\*dependant on product

**Food****Lab****Pharma****Technical Data****F-13**

Ice Condenser Capacity	20kg
Ice Condenser Performance	15kg /24h
Ice Condenser Temperature	-55°C
Defrost	Hot Gas
Number of Shelves	5 + 1
Shelf Area	1.3m <sup>2</sup>
Shelf Spacing	60mm
Chamber Temperature	-45°C to +80°C
Cooling systems	Air cooled
Refrigeration	20m <sup>3</sup> /h Compressor
Unit Dimensions (H x W x L)	2m x 1m x 2m
Refrigerant	R404A
Vacuum	Kurt J Lesker RV224
Chamber Dimensions	600mm id x 1400mm
Power Supply	380-415v 15a 3~ 240v 30a 1~
Control System	Automatic or Manual Controls

**FROZEN IN TIME**  
Manufacturers of freeze driers and vacuum cold traps