

Laboratory Freeze Dryers



Floor Model



Table Top Model

ilShin® Europe

ilShin[®] Europe Laboratory Freeze Dryers

Freeze-drying, or lyophilization, is in simple terms a dehydration technique. The aspect of the freeze drying process that makes it different from other dehydration techniques, is that dehydration takes place while the product is in a frozen state and under a vacuum. These conditions stabilize the product, minimizing the effects of oxidation and other degradation processes.

With a combination of a reliable cooling system together with a tight vacuum, ilShin is the only right answer in every freeze dry application in your laboratory!



Floor model with optional shell freezer

Table Top Freeze Dryer



Table Top model

Drying flasks on a small footprint

This is our smallest Freeze Dry model. We guarantee this compact design will fit on every lab table. Our table top model comes with a standard drum with 8 valves (1/2 inch). Ideal for connecting freeze dry flasks.

Specifications model TFD5505

Technical specifications TFD5505 Table top model	
Ice capacity per 24 hours (L)	3 liter / 24 hour
Total ice capacity (L)	5 liter (coil type condenser)
Condenser temperature (°C)	< -55 °C
Compressor (HP)	1/3 HP
Cabinet dimensions (W x D x H)	425 x 570 x 650 mm (incl. Drum)
Drum dimensions mm (Dia x H)	270 x 270 mm
Amount of 1/2 " valves on drum	8 x 1/2 inch
Weight (Kg)	38 Kg
Electrical	230 V / 50 Hz
Microprocessor control	Yes
Hot gas defrosting	Yes
Temperature display	Yes (°C)
Vacuum display	Yes (mTorr)
Release function	Yes with needle valve (inert gas backfill)
Autorun programming	Yes
Including oil rotary vacuum pump 200l/min	

**-55 °C
Condensator**



Floor Model Freeze Dryers

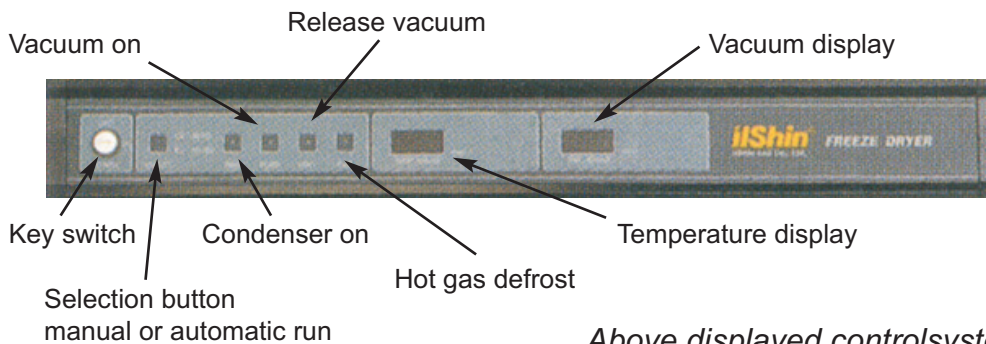
Flexible Drying Solutions

Our floor model Freeze Dryer offers condenser capacities ranging from 8 liter up to 18 liter. On the top of our floor models a wide range of flexible options can be fitted:

- Stainless Steel Manifolds
- Acrylic Drums with stoppering and heated shelves
- Several Stainless Steel Drums
- Shelf systems (see back of this brochure for specifications)

The unit can be ordered with a standard -55 °C condenser or a two stage system down to -85 °C in case solvents are used with a low freezing point.

Control Panel System



Floor model with optional concentrator

Above displayed controlsystem is used on both Floor and Table Top Model

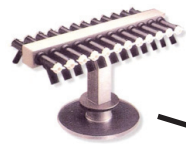
Specifications Floor Models



Model no:	FD5508	FD5512	FD5518
Capacity per 24 h	5 liter/24 hours	10 liter/24 hours	12 liter/24 hours
Total capacity (L)	8 liter	12 liter	18 liter
Condenser temperature (°C)	< -55 °C standard < -85 °C optional, Please change model number 55 to 85 (for example FD8510)		
Compressor (HP)	1/3 HP	3/4 HP	3/4 HP
Ext. dimensions	805 x 750 x 885 mm (W x D x H)		
Condenser dim.	300 x 300 mm (Dia x H)	300 x 350 mm (Dia x H)	300 x 450 mm (Dia x H)
Weight (Kg)	120 Kg	122 Kg	130 Kg
Electrical	230 V / 50 Hz		
Microprocessor	Yes		
Hot gas defrost	Yes		
Temp. display	Yes (°C)		
Vacuum display	Yes (mTorr)		
Release function	Yes with needle valve (inert gas backfill)		
Autorun program	Yes		
Including oil rotary vacuum pump 200l/min			

**-55 °C or -85 °C
Condensor**

Options for the Floor Models



Stainless Steel Manifolds

Model:	Manifold type:
MC1224	24 x 1/2 inch valves
MC3412	12 x 3/4 inch valves
MC1324	12 x 1/2 inch valves
	12 x 3/4 inch valves
MC1204	4 x 1/2 inch valves



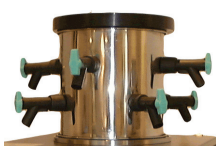
Acrylic Drums with stoppering / heated shelves

Model:	Acrylic Drum type:
CDC3332	Stoppering and 2 heated shelves 280 mm H x 250 mm Dia
CDC3333	Stoppering and 2 heated shelves 330 mm H x 330 mm Dia

Heated shelves to max. +43°C



Additional Shelf kits for SS Drums



Stainless Steel Drums

Model:	Drum type:
DC1212	12 x 1/2 inch valves 275 mm H x 230 mm Dia
DC1316	8 x 1/2 inch & 8 x 3/4 inch valves 320 mm H x 300 mm Dia
DC1218	18 x 1/2 inch valves 320 mm H x 300 mm Dia

Built in Shell Freezer / Concentrator

Additional specifications when ordering an integrated Shell Freezing Bath			
Model no:	FDS5508	FDS5512	FDS5518
Condenser temperature (°C)	< -55 °C standard		< -85 °C optional, <i>Please change model number 55 to 85 (for example FDS8508)</i>
Ext. dimensions	1005 x 750 x 885 mm (W x D x H)		
Weight (Kg)	178 Kg	182 Kg	190 Kg
Shell Freezing system specifications			
Bath dimensions	320 x 175 x 153 mm (W x D x H)		
Compressor	High Capacity 1/3 HP		
Bath temp.	< -40 °C		
Flask capacity	1 flask capacity (two rollers) up to 900 ml size flask		

Additional specifications when ordering an integrated rotor vacuum concentrator (MC)			
Model no:	MCFD5508	MCFD5512	MCFD5518
Condenser temperature (°C)	< -55 °C standard		< -85 °C optional, <i>Please change model number 55 to 85 (for example MCFD8508)</i>
Ext. dimensions	1005 x 750 x 885 mm (W x D x H)		
Weight (Kg)	175 Kg	179 Kg	187 Kg
Concentration system specifications			
Heater	Built in heater with single setting at +44 °C with over temp. protection		
Driver	MPB Brushless D.C. Motor		
Rotor options	Rotor 10ml x 24 holes (part RH1024) or 1,5ml x 60 holes (part RH1560)		

For further questions about other ilShin products, maintenance contracts or Freeze Dry Flasks please contact your local dealer for more details:

Your local ilShin dealer: