

HUAYU BROTHER®



华豫兄弟(深圳)制冰系统有限公司

HUAYU BROTHER(SHENZHEN) ICE SYSTEMS CO.,LTD.

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LYO-068 Pilot production freeze dryer

HUAYU BROTHER® LYO laboratory freeze dryer fits a wide range of freeze drying applications from laboratory research to pilot production.

Designed versatility and multifunction, the LYO-068 with same features with industrial freeze dryer whatever the controller system or the system configurations, heavy duty and reliable.

Adopt most advance PLC system and Touch screen monitor, could provide operator as more information of the whole system working condition which will help control the system running status and make right judgement for next stage setting or change current working parameter to fit current situation.

Configured to meet your requirement LYO-068 lyophilizer provide a shelf temperature -55°C to $+80^{\circ}\text{C}$, condenser temperature $<-80^{\circ}\text{C}$, and vacuum $<1\text{pa}$ ensure it can be qualify most substance freeze drying.

SYSTEM FEATURES & PERFORMANCE:

CONTROL SYSTEM:

PLC+Touch screen system.

Automatic and Manual operate model.

Parts working status, raw material/shelves/condenser temperature, vacuum degree etc. real-time display.

Batch freeze drying curve display.

Industrial type electric cabinet.

DRYING HOUSE:

AISI316 drying house, inner wall with mirror treatment, roughness $Ra < 0.4$

AISI316 shelves with mirror treatment, flatness $< 0.5\text{mm/m}$

5 plates total 0.68sq.m , 4 plates (size $420*480\text{mm}$) with material loading capacity, 1 for extra radiant temperature.

Bottom to top stoppering device.

Acrylic door with anodized aluminum frame, compression lock.

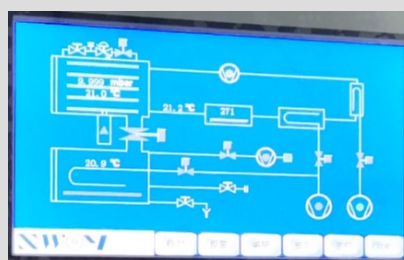
CONDENSER:

Split condenser with 16Liters/24hr capacity.

Icing coils direct expose in condenser provide a better vapor collect efficient.

Hot gas defrosting.

Butterfly valve for isolation with drying house.



General Specifications:	
Model	LYO-068
Shelf area	0.68m ²
Ice capacity	16kgs/24hr
Size	H1980*W1510*D986mm
Weight	900kgs
Power install	6.328kwh
Power consumption	3.24kwh
Drying House	
Shelves	4+1
Material trays	4
Shelves size	420*480*20mm
Shelves spacing	100mm
Shelves temp.	-55°C to +80°C
Ice condenser	
Isolation	Butterfly valve DN100
Condenser temp.	<-80°C
Defrosting	Hot gas
Vacuum System	
Vacuum degree	<1Pa
Vacuum pump rate	16m ³ /hr
Vacuum gauge	INFICON
Leakage	5x10 ⁻² mbarL/s
Refrigeration System	
Compressor	Tecumseh Cascade R404a+R508b
Expansion valve	EMERSON
Solenoid valve	Danfoss
Control System	
Control type	PLC+Touch screen
Main parts brand	SIEMENS

Open Type Structure:



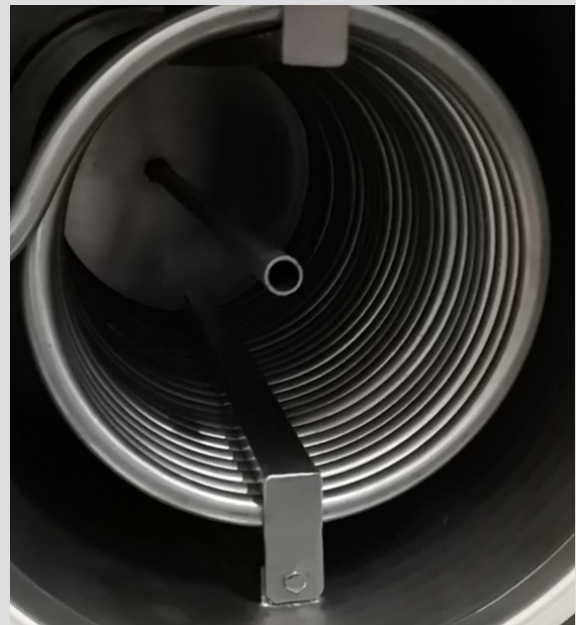
Easy settle wheels:



Drying House:



Ice Condenser:



Electric Controller:

