



TOP PRESS FREEZE DRYERS

TPDQ Series

www.laboquest.com

info@laboquest.com

Top press Freeze Dryer TPDQ 3000

Top press Freeze Dryer TPDQ 3000 is a floor standing unit with a condensing capacity of 3 kg to 4 kg / 24 h and a temperature of -50°C . It provides feasibility of vial lyophilization. Equipped with three trays with a bulk capacity of 0.8 L allowing any shape or size of sample to be freeze dried. Precise vacuum control enables faster freeze drying and reproducible results. Transparent drying chamber helps in visualization of drying process. Big opening condenser with external coiling tubes facilitates pre-freezing function.

Features

- ◆ Ice condenser capacity is 3 to 4 kg / 24 h
- ◆ Condenser temperature ($- 50^{\circ}\text{C}$)
- ◆ Display of sample temperature, vacuum curve degree, cold trap temperature curve
- ◆ Clear acrylic door for easy product viewing during processing
- ◆ High pumping speed vacuum pump
- ◆ Pre-freezing function
- ◆ Anti-corrosive stainless steel air inlet valve
- ◆ USB port to output freeze drying data

Optional features

- ◆ Intake backfilling filter
- ◆ Air inlet filter for pump
- ◆ Nitrogen inflation valve
- ◆ Vacuum control valve
- ◆ Eutectic point testing device
- ◆ Electrical heat defrosting
- ◆ Vacuum pump oil return
- ◆ Oil mist filtration system
- ◆ RS232 interface and software for data storage on computer

Top Press Freeze Dryers

Top press Freeze Dryer TPDQ 4000

Top press Freeze Dryer TPDQ 4000 is a floor standing unit with a condensing capacity of 3 kg to 4 kg / 24 h and a temperature of -80 °C. It provides feasibility of vial lyophilization. Equipped with three trays with a bulk capacity of 0.8 L allowing any shape or size of sample to be freeze dried. Precise vacuum control enables faster freeze drying and reproducible results. Transparent drying chamber helps in visualization of drying process. Big opening condenser with external coiling tubes facilitates pre-freezing function.

Features

- ◆ Ice condenser capacity is 3 to 4 kg / 24 h
- ◆ Condenser temperature (- 80 °C)
- ◆ Display of sample temperature, vacuum curve degree, cold trap temperature curve
- ◆ Clear acrylic door for easy product viewing during processing
- ◆ High pumping speed vacuum pump
- ◆ Pre-freezing function
- ◆ Anti-corrosive stainless steel air inlet valve
- ◆ USB port to output freeze drying data

Optional features

- ◆ Intake backfilling filter
- ◆ Air inlet filter for pump
- ◆ Nitrogen inflation valve
- ◆ Vacuum control valve
- ◆ Eutectic point testing device
- ◆ Electrical heat defrosting
- ◆ Vacuum pump oil return
- ◆ Oil mist filtration system
- ◆ RS232 interface and software for data storage on computer

Top Press Freeze Dryers

Top press Freeze Dryer TPDQ 3001

Top press Freeze Dryer TPDQ 3001 is a floor standing unit with a condensing capacity of 3 kg to 4 kg / 24 h and a temperature of -50 °C. It provides feasibility of vial lyophilization. Equipped with four trays with a bulk capacity of 1 L allowing any shape or size of sample to be freeze dried. Precise vacuum control enables faster freeze drying and reproducible results. Transparent drying chamber helps in visualization of drying process. Big opening condenser with external coiling tubes facilitates pre-freezing function.

Features

- ◆ Ice condenser capacity is 3 to 4 kg / 24 h
- ◆ Condenser temperature (- 50 °C)
- ◆ Display of sample temperature, vacuum curve degree, cold trap temperature curve
- ◆ Clear acrylic door for easy product viewing during processing
- ◆ High pumping speed vacuum pump
- ◆ Pre-freezing function
- ◆ Anti-corrosive stainless steel air inlet valve
- ◆ USB port to output freeze drying data

Optional features

- ◆ Intake backfilling filter
- ◆ Air inlet filter for pump
- ◆ Nitrogen inflation valve
- ◆ Vacuum control valve
- ◆ Eutectic point testing device
- ◆ Electrical heat defrosting
- ◆ Vacuum pump oil return
- ◆ Oil mist filtration system
- ◆ RS232 interface and software for data storage on computer

Top press Freeze Dryer TPDQ 4001

Top press Freeze Dryer TPDQ 4001 is a floor standing unit with a condensing capacity of 3 kg to 4 kg / 24 h and a temperature of -80 °C. It provides feasibility of vial lyophilization. Equipped with four trays with a bulk capacity of 1 L allowing any shape or size of sample to be freeze dried. Precise vacuum control enables faster freeze drying and reproducible results. Transparent drying chamber helps in visualization of drying process. Big opening condenser with external coiling tubes facilitates pre-freezing function.

Features

- ◆ Ice condenser capacity is 3 to 4 kg / 24 h
- ◆ Condenser temperature (- 80 °C)
- ◆ Display of sample temperature, vacuum curve degree, cold trap temperature curve
- ◆ Clear acrylic door for easy product viewing during processing
- ◆ High pumping speed vacuum pump
- ◆ Pre-freezing function
- ◆ Anti-corrosive stainless steel air inlet valve
- ◆ USB port to output freeze drying data

Optional features

- ◆ Intake backfilling filter
- ◆ Air inlet filter for pump
- ◆ Nitrogen inflation valve
- ◆ Vacuum control valve
- ◆ Eutectic point testing device
- ◆ Electrical heat defrosting
- ◆ Vacuum pump oil return
- ◆ Oil mist filtration system
- ◆ RS232 interface and software for data storage on computer

Top Press Freeze Dryers

Specifications

Model No.	TPDQ 3000	TPDQ 4000
Condenser temperature	- 50 °C	- 80 °C
Condenser capacity	3 to 4 kg / 24 h	3 to 4 kg / 24 h
Freeze drying area	0.08 m ²	0.08 m ²
Bulk capacity	0.8 L	0.8 L
Vial capacity Φ 12 mm	492 pieces	492 pieces
Vial capacity Φ 16 mm	279 pieces	279 pieces
Vial capacity Φ 22 mm	147 pieces	147 pieces
Drying chamber size	Φ 260 x 490 mm	Φ 260 x 490 mm
Cooling	Air cooling	Air cooling
Defrosting	Off cycle defrosting	Off cycle defrosting
Condenser size	Φ 220 mm, 240 mm deep	Φ 220 mm, 240 mm deep
Trays	3 layers	3 layers
Tray dimension	Φ 180 mm	Φ 180 mm
Tray spacing	70 mm	70 mm
Vacuum pump flow rate	7.2m ³ / h	7.2m ³ / h
Vacuum	< 10 Pa	< 10 Pa
Power	1070 W	1400 W
Voltage	220 V / 50 Hz	220 V / 50 Hz
	120 V / 60 Hz	120 V / 60 Hz
Dimensions	580 x 500 x (720 + 490) mm	770 x 550 x (720 + 490) mm
Weight	105 kgs	160 kgs

Top Press Freeze Dryers

Specifications

Model No.	TPDQ 3001	TPDQ 4001
Condenser temperature	- 50 °C	- 80 °C
Condenser capacity	3 to 4 kg / 24 h	3 to 4 kg / 24 h
Freeze drying area	0.1 m ²	0.1 m ²
Bulk capacity	1 L	1 L
Vial capacity Φ 12 mm	656 pieces	656 pieces
Vial capacity Φ 16 mm	372 pieces	372 pieces
Vial capacity Φ 22 mm	196 pieces	196 pieces
Drying chamber size	Φ 260 x 490 mm	Φ 260 x 490 mm
Cooling	Air cooling	Air cooling
Defrosting	Off cycle defrosting	Off cycle defrosting
Condenser size	Φ 220 mm, 240 mm deep	Φ 220 mm, 240 mm deep
Trays	4 layers	4 layers
Tray dimension	Φ 180 mm	Φ 180 mm
Tray spacing	50 mm	50 mm
Vacuum pump flow rate	7.2m ³ / h	7.2m ³ / h
Vacuum	< 10 Pa	< 10 Pa
Power	1070 W	1400 W
Voltage	220 V / 50 Hz	220 V / 50 Hz
	120 V / 60 Hz	120 V / 60 Hz
Dimensions	580 x 500 x (720 + 490) mm	770 x 550 x (720 + 490) mm
Weight	105 kgs	160 kgs