



TOP PRESS FREEZE DRYERS

TPDQ Series

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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 |