



**MANIFOLD
TOP PRESS
FREEZE DRYERS**

MTPQ Series

Manifold Top Press Freeze Dryers

Manifold Top Press Freeze Dryer MTPQ 3000

Manifold Top press Freeze Dryer MTPQ 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. The manifolds allow lyophilization of wide spectrum of sample volumes. It facilitates the connection of eight different sizes of flasks ranging from 50 ml to 1200 ml. 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

Manifold Top Press Freeze Dryers

Manifold Top press Freeze Dryer MTPQ 4000

Manifold Top press Freeze Dryer MTPQ 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. The manifolds allow lyophilization of wide spectrum of sample volumes. It facilitates the connection of eight different sizes of flasks ranging from 50 ml to 1200 ml. 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

Manifold Top Press Freeze Dryers

Manifold Top press Freeze Dryer MTPQ 3001

Manifold Top press Freeze Dryer MTPQ 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. The manifolds allow lyophilization of wide spectrum of sample volumes. It facilitates the connection of eight different sizes of flasks ranging from 50 ml to 1200 ml. 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

Manifold Top Press Freeze Dryers

Manifold Top press Freeze Dryer MTPQ 4001

Manifold Top press Freeze Dryer MTPQ 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. The manifolds allow lyophilization of wide spectrum of sample volumes. It facilitates the connection of eight different sizes of flasks ranging from 50 ml to 1200 ml. 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

Manifold Top Press Freeze Dryers

Specifications

Model No.	MTPQ 3000	MTPQ 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 540 mm	Φ 260 x 540 mm
Manifold	8 ports	8 ports
Cooling	Air cooling	Air cooling
Flasks	1000 ml	1000 ml
	500 ml	500 ml
	250 ml	250 ml
	100 ml	100 ml
	50 ml	50 ml
	600 ml wide neck flask	600 ml wide neck flask
	1200 ml wide neck flask	1200 ml wide neck flask
Defrosting	Off cycle defrosting	Off cycle defrosting
Condenser size	Φ 215 mm, 140 mm deep	Φ 215 mm, 140 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
Power	970 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 + 540) mm	770 x 550 x (720 + 540) mm
Weight	110 kgs	170 kgs

Manifold Top Press Freeze Dryers

Specifications

Model No.	MTPQ 3001	MTPQ 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 540 mm	Φ 260 x 540 mm
Manifold	8 ports	8 ports
Cooling	Air cooling	Air cooling
Flasks	1000 ml	1000 ml
	500 ml	500 ml
	250 ml	250 ml
	100 ml	100 ml
	50 ml	50 ml
	600 ml wide neck flask	600 ml wide neck flask
	1200 ml wide neck flask	1200 ml wide neck flask
Defrosting	Off cycle defrosting	Off cycle defrosting
Condenser size	Φ 215 mm, 140 mm deep	Φ 215 mm, 140 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
Power	970 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 + 540) mm	770 x 550 x (720 + 540) mm
Weight	110 kgs	170 kgs