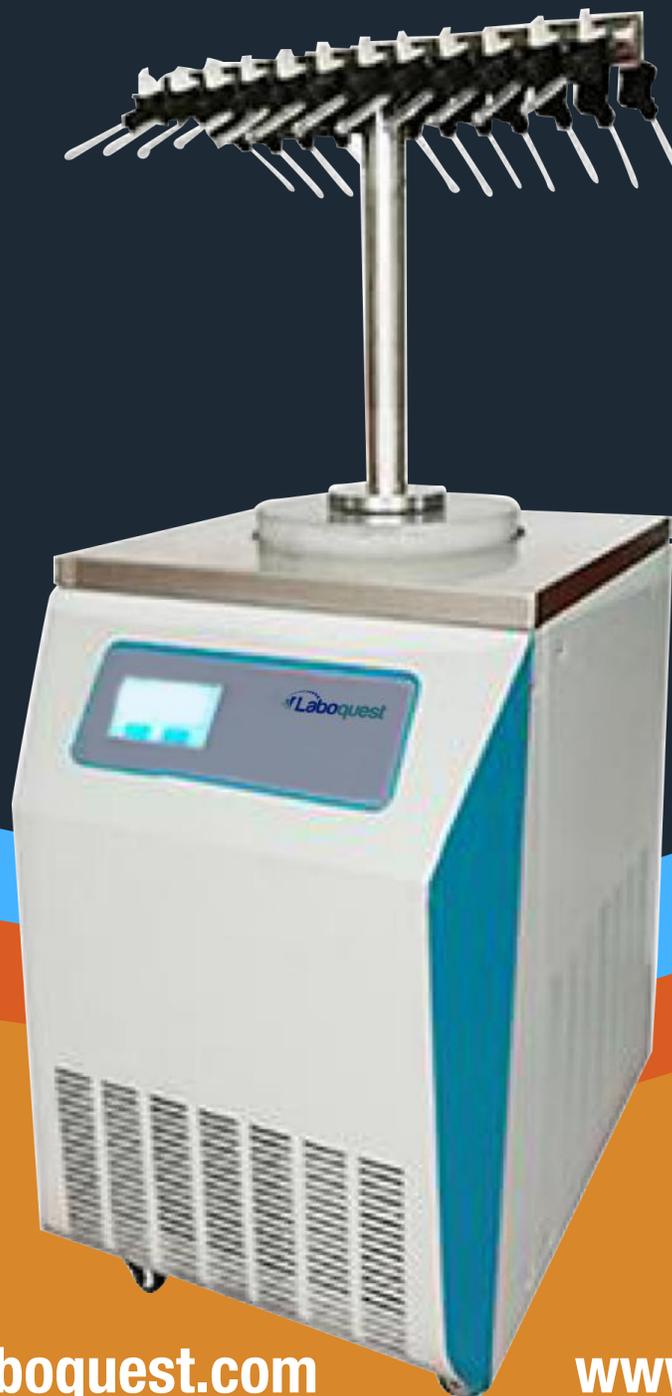




# T-TYPE FREEZE DRYERS

## TFDQ Series



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## T-TYPE FREEZE DRYERS

### T-type Freeze Dryer TFDQ 3000

T-type Freeze Dryer TFDQ 3000 is a floor standing unit with 3 to 4 kg condenser capacity and condenser temperature options of - 50 °C for specimen's containing solvents. The T-type manifold accommodates 24 ampoules via the rubber adaptors. 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

## T-type Freeze Dryer TFDQ 4000

T-type Freeze Dryer TFDQ 4000 is a floor standing unit with 3 to 4 kg condenser capacity and condenser temperature options of - 80 °C for specimen's containing solvents. The T-type manifold accommodates 24 ampoules via the rubber adaptors. 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

## Specifications

| Model No.               | TFDQ 3000                  | TFDQ 4000                  |
|-------------------------|----------------------------|----------------------------|
| Condenser temperature   | - 50 °C                    | - 80 °C                    |
| Condenser capacity      | 3 to 4 kg / 24 h           | 3 to 4 kg / 24 h           |
| Number of sealed valves | 24 pieces for 24 ampoules  | 24 pieces for 24 ampoules  |
| T-type shelf            | 430 x 480 mm               | 430 x 480 mm               |
| Condenser size          | Φ 215 mm, 140 mm deep      | Φ 215 mm, 140 mm deep      |
| Defrosting              | Off cycle defrosting       | Off cycle defrosting       |
| Vacuum pump flow rate   | 7.2m <sup>3</sup> / h      | 7.2m <sup>3</sup> / 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 + 430) mm | 770 x 550 x (720 + 430) mm |
| Weight                  | 100 kgs                    | 155 kgs                    |