# Thermo Scientific Series 8000 DH

## Culture with Confidence

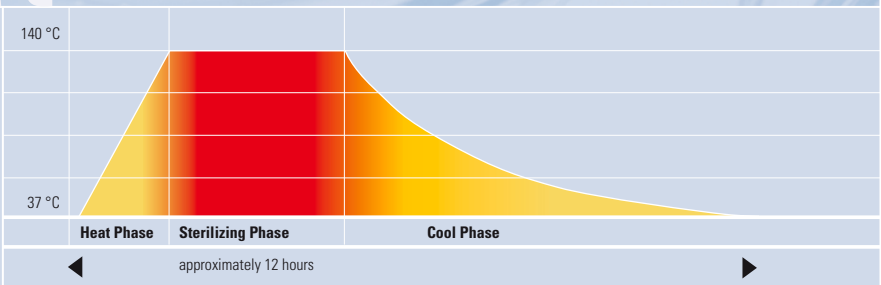
**On-Demand Sterilization**
Thermo Scientific Series 8000 DH, direct heat $CO_2$ incubators include an easy-to-use, safe and proven sterilization system to destroy all forms of microbial life inside the chamber. The automatic high temperature decontamination cycle is ideal for overnight sterilization and ensures consistent sterilization time after time. Audible alarms and access codes ensure laboratory and product safety as well as security.

**The Mobile Answer**
Thermo Scientific Series 8000 DH $CO_2$ incubators are light in weight. With the roller base accessory, these advanced incubators can be moved quickly to where needed within your laboratory.

**Easy to Configure and Use**
Thermo Scientific Series 8000 $CO_2$ incubators use a microprocessor controlled monitoring system Message Center. The message center is highly intuitive and extremely user friendly. For example, the sterilization cycle is started by the simple press of one button. Options available include a digital RH display, to enable continual monitoring for humidity dependent applications.

# Direct Heat

**High Temperature Uniformity**
Directed airflow and direct chamber heating maintain optimum uniformity for an ideal culturing environment. During the sterilization cycle, the same system ensures that your incubator's entire chamber is sterilized – all contamination is eliminated.




**Direct Heat Sterilization Cycle** – 120 minutes at 140°C – ensures the elimination of all microorganisms and fungal spores from every incubator surface (ANSI/AAMI/ISO 11134). This claim has been validated with suspensions from B. subtilis spores calibrated for dry heat processes, because these are most resistant against dry heat sterilization and therefore the recommended indicator organism (U.S. Pharmacopoeia, ch. 1035). All spores applied to the different surfaces of the incubator – chamber wall (stainless steel), door (glass) and door gasket (tempered silicone), have been reliably eliminated with the sterilization cycle after 120 minutes at 140°C.

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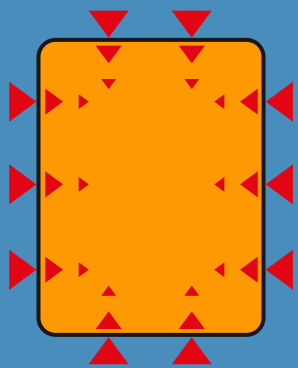
Laboratuvar Teknolojileri Limited Şirketi


**The sterilization cycle starts with the simple press of the white button! During the heat sterilization process, the message center guides you through the cycle with start-up and cycle status messages.**



**Stable and uniform temperature distribution through heating of all six sides of the chamber, during incubation as well as during sterilization.**

# Thermo Scientific Series 8000 DH $CO_2$ Incubators

## Technical Specifications

| | |
|---|---|
| **Temperature** | |
| Control | ±0.1 °C |
| Range | 5 °C above ambient to 50 °C (122 F) |
| Uniformity | ±0.3 °C @ 37 °C (98.6 F) |
| Tracking Alarm | User-programmable high/low |
| **Overtemperature** | |
| Sensor | Precision thermistor |
| Setability | 0.1 °C |
| Function | Shuts off heat |
| **Temperature Safety** | |
| Sensor | Precision thermistor |
| Controller | Independent analog electronic |
| **$CO_2$** | |
| $CO_2$ Control | Better than ±0.1 % |
| $CO_2$ Range | 0-20 % |
| Inlet Pressure | 15 PSIG (1.0 bar) |
| Sensor | T/C or IR |
| Readability & Setability | 0.1 % |
| Tracking Alarm | User-programmable high/low |
| **Humidity** | |
| RH | Ambient to 95 % @ 37 °C (98.6 F) |
| Humidity Pan | 3.2 qt. (3.0 liters) standard |
| Display (opt.) | In 1% increments |
| **Fittings** | |
| Access Port | 1.3" (3.3 cm) with removable |
| | silicone plug with filter |
| $CO_2$ Inlet | 1/4" hose (barbed) |
| **Unit Heat Load** | |
| 115 V/230 V | 293 BTUH (86 Watt) |

| | |
|---|---|
| **Shelves** | |
| Dimensions | 18.5" x 18.5" (47.0 cm x 47.0 cm) |
| Construction | Stainless steel, perforated |
| Surface Area | 2.4 sq. ft. (0.2 sq. m) |
| Max. per Chamber | 36.0 sq. ft. (3.3 sq. m) |
| Standard, Maximum | 4, 15 |
| **Construction** | |
| Interior Volume | 6.5 cu. ft. (184.1 liters) |
| Interior | Type 304, mirror finish, stainless steel |
| Exterior | 18 gauge, cold-rolled steel, powder coated |
| Outer Door Gasket | Four-sided, molded, magnetic vinyl |
| Inner Door Gasket | Removable, cleanable, feather-edged, silicone |
| **Electrical** | |
| All | 115 V, 50/60 Hz, 9.6 FLA (Operating range 90-125 V) |
| | 230V, 50/60 Hz, 4.4 FLA (Operating range 180-250V) |
| Circuit Breaker/Power Switch | 12 amps/2 pole |
| Convenience/Receptade | 75 watts max. (matches cabinet voltage) |
| Plug | 115 V: NEMA 5-15P plug; 230 V: CEE 7/7 plug |
| Alarm Contacts | Power interruption; deviation of temp, |
| | $CO_2$, RH; customer connections |
| | through jack on back of unit |
| **Dimensions** | |
| Exterior (w x h x d) | 26.3" x 39.5" x 25.0" |
| | (66.8 cm x 100.3 cm x 63.5 cm) |
| Interior (w x h x d) | 21.3" x 26.8" x 20.0" |
| | (54.1 cm x 68.1 cm x 50.8 cm) |
| **Weight** | |
| Net | 260 lbs. (117.9 kg) |
| Shipping (Motor) | 315 lbs. (142.9 kg) |

## Ordering Information

| Cat No. | $CO_2$ | Voltage |
|---|---|---|
| 3540 | TC | 115 VAC |
| 3542 | IR | 115 VAC |
| 3541 | TC | 230 VAC |
| 3543 | IR | 230 VAC |

### Choice of T/C or IR Sensor

Select a T/C sensor when chamber temp and RH are relatively constant. Typically, a T/C sensor has a longer life than an IR sensor.

Select an IR sensor when temp and RH levels are changed frequently. With either sensor, elevated RH is critical to prevent desiccation.