

thermo scientific



Simple, flexible and reliable

Thermo Scientific™ CO<sub>2</sub> Resistant Shaker

**ThermoFisher**  
SCIENTIFIC

## APPLICATIONS

MAMMALIAN CELL CULTURE

BACTERIAL SUSPENSIONS

STAINING AND DESTAINING

WASHING PROCEDURES

HYBRIDIZATION

SOLUBILITY STUDIES

EXTRACTION PROCEDURES

DIAGNOSTIC TESTS

GENERAL SHAKING APPLICATIONS

# Trust your cell cultures to a proven, reliable solution

Thermo Scientific™ CO<sub>2</sub> resistant orbital shakers provide reliable around-the-clock operation ideally suited to keep your cells alive and flourishing within your working environment.



- Orbital shaking through magnetic power eliminates the need to replace belts
- Small footprint ideal for use in a CO<sub>2</sub> incubator or on the bench
- Specially treated mechanical components protect up to 20% CO<sub>2</sub> and 95% humidity conditions
- Convenient external control box with LED display allows for easy adjustments without opening the chamber door
- External control box standard with 4-20 mA data output port to provide added security and remote monitoring capability
- Minimal heat dissipation assures conditions within the CO<sub>2</sub> chamber are not effected
- Stainless steel construction for protection from corrosive CO<sub>2</sub> gassing conditions

## An extensive selection of accessories fits most applications

- Choose the best orbit size for your application with 19 mm (3/4") orbit for flasks and cell culture dishes or 3mm (1/8") orbit for microplates and other small vessels
- Large capacity 18x18" universal platform option available for high-throughput projects and to maximize incubator space



**External control box with 4-20 ma data port**



**Adjustable tube racks**



**Variety of clamp sizes**

**A variety of accessories to fit most applications**

See the next page for full list of accessories.

Cat. No.	88881101	88881101B	88881102	88881102B
Plug configuration				
Orbit diameter	19 mm (3/4 in)	3 mm (1/8 in)	19 mm (3/4 in)	3 mm (1/8 in)
Speed range	30 – 300 rpm	30 – 1200 rpm maximum	30 – 300 rpm	30 – 1200 rpm maximum
Speed accuracy	±1 rpm	± 5 rpm	±1 rpm	± 5 rpm
Rotation mode	Orbital			
Display	LED display shows speed and time			
Display accuracy	1 rpm			
Timer range	0 – 99 h 59 min, or continuous			
Indicator lights	rpm, Time, Warning, Run			
Maximum load	6 kg (13 lbs)	10 kg (22 lbs)*	6 kg (13 lbs)	10 kg (22 lbs)*
Power input	100 – 240 V, 50/60 Hz			
Data output	4-20 mA Data Output			
Net weight	17.5 kg (38.6 lbs)	16 kg (35.3 lbs)	17.5 kg (38.6 lbs)	16 kg (35.3 lbs)
Shipping contents	Shaker Body x 1, Control Box x 1, US Plug x 1		Shaker Body x 1, Control Box x 1, CN Plug x 1, EU Plug x 1, UK Plug x 1	
Product dimensions W x L x H	360 x 300 x 96 mm / 14.2 x 11.8 x 3.8 in (Main System)	360 x 300 x 101 mm / 14.2 x 11.8 x 4.0 in (Main System)	360 x 300 x 96 mm / 14.2 x 11.8 x 3.8 in (Main System)	360 x 300 x 101 mm / 14.2 x 11.8 x 4.0 in (Main System)
	95 x 158 x 26 mm / 3.7 x 6.2 x 1.0 in (Control Box)			
Operation condition	4°C - 60°C, 20% - 99% rH, 0% - 20% (CO <sub>2</sub> density)			
Certificate	CE, RoHS, cCSAus			
Warranty	2 years (parts and labor)			

\* Maximum load as indicated when ≤150 rpm

## Ordering information

Description	Cat. No.
<b>Instruments</b>	
CO <sub>2</sub> resistant shaker with 19 mm orbit, US style plug, 100-120 V	88881101
CO <sub>2</sub> resistant shaker with 3 mm orbit, US style plug, 100-120 V	88881101B
CO <sub>2</sub> resistant shaker with 19 mm orbit, CN, UK, EU style plugs 220-240 V	88881102
CO <sub>2</sub> resistant shaker with 3 mm orbit, CN, UK, EU style plugs 220-240 V	88881102B

## Ordering information

Description	Maximum quantity on 14.1 x 11.8 in. universal platform	Maximum quantity on 18 x 18 in. universal platform	Cat. No.
<b>Accessories</b>			
50 mL clamp	30	49	88881105
100 mL clamp	15	25	88881106
150 mL clamp	15	25	88881107
200 mL clamp	15	18	88881108
250 mL clamp	15	18	88881109
500 mL clamp	9	10	88881110
1000 mL clamp	6	7	88881111
2000 mL clamp	4	4	88881112
3000 mL clamp	2	4	88881113
5000 mL clamp	1	2	88881114
500 mL infusion bottle clamp	6	12	88881115
1000 mL infusion bottle clamp	6	9	88881116
Funnel clamp	2	6	88881117
Fixed tube rack 40 × 14 mm dia	2	4	88881118
Fixed tube rack 40 × 16 mm dia	2	4	88881119
Adjustable tube rack 40 × 14 mm dia	2	4	88881120
Fixed tube rack 21 × 30 mm (50mL conical tube)	2	4	88882119
Fixed tube rack 40 × 18mm (15mL conical tube)	2	4	88882118
Adjustable tube rack 40 × 16 mm dia	2	4	88881121
14.1 x 11.8 in. Universal platform, 360 × 300 mm	—	-	88881122
18 x 18 in. Universal platform, 457 × 457 mm	—	-	88881122B
Rubber mat platform	—	-	88881123
96-Well microplate holder	6	10	88881124
Spring wire rack 240 x 350 x 80 mm	1	1	88881125
Sticky mat 140 x 140 mm	4	9	88881126
Control box with 4-20 mA data output port for 19 mm orbit			88881127B
Control box with 4-20 mA data output port for 3 mm orbit			88883101B
General power adaptor			88881128
US plug			88881129
CN plug			88881130
EU plug			88881131
UK plug			88881132
Flask clamp starter kit - includes: (2) 100 mL flask clamps, (4) 250 mL flask clamps, (4) 500 mL flask clamps, (2) 1 L flask clamps, (2) 2 L flask clamps			88881133



Clamps



Fixed tube racks



Adjustable tube racks



Universal and rubber platforms



96-Well microplate holder



Control box



Plugs

## Bundle packages

Order the system and accessories separately or get started fast with one of our bundled packages. Package includes a CO<sub>2</sub> resistant orbital shaker with control box with 4-20 mA data output, 14.1 x 11.8 in universal platform (360 X 300 mm), and flask clamp starter kit.

## Ordering information

Description	Cat. No.
<b>Bundle packages</b>	
Bundle package: CO <sub>2</sub> resistant shaker 19 mm orbit, US style plug, 100-120 V including control box with 4-20 mA data output, 14.1 x 11.8 in universal platform (360 X 300 mm), and flask clamp starter kit	88881103
Bundle package: CO <sub>2</sub> resistant shaker 3 mm orbit bundle package, US style plug, 100-120 V including control box with 4-20 mA data output, 14.1 x 11.8 in universal platform (360 X 300 mm), and flask clamp starter kit	88881103B
Bundle package: CO <sub>2</sub> resistant shaker 19 mm orbit, CN, UK, EU style plugs 220-240 V including control box with 4-20 mA data output, 14.1 x 11.8 in universal platform (360 X 300 mm), and flask clamp starter kit	88881104
Bundle package: CO <sub>2</sub> resistant shaker 3 mm orbit, CN, UK, EU style plugs 220-240 V including control box with 4-20 mA data output, 14.1 x 11.8 in universal platform (360 X 300 mm), and flask clamp starter kit	88881104B

Find out more at [thermofisher.com/co2resistantshakers](https://thermofisher.com/co2resistantshakers)