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# Thermo Scientific Incubator/Shakers

**The Thermo Scientific iEMS Incubator/Shakers are reputed as high-performance. The iEMS Incubator/Shaker is designed for ELISA applications, and the iEMS Incubator/Shaker HT is used when elevated temperatures up to 69°C are needed.**

**With superior temperature control and efficient orbital shaking, the iEMS Incubator/Shakers dramatically increase sensitivity and specificity of the ELISA assays and reduces incubation times, providing high performance and productivity meeting even the highest assay demands.**

## **Accurate temperature control for reliable assays**

The unique design of the thermal microplate holder eliminates the edge effect and ensures the microplates are heated evenly from all sides. The accurate temperature uniformity across the whole plate offers high reliability for assays requiring elevated temperatures.

## **Orbital shaking for increased productivity**

The iEMS Incubator/Shakers incorporate a powerful variable-speed orbital shaker, ensuring efficient mixing for even very viscous liquids. And most importantly, the shaking motion

enhances the reaction in wells and reduces incubation times for higher throughput and productivity.

## **Flexible temperature selection and capacity**

The iEMS Incubator/Shaker provides constant incubation temperatures up to 40°C, while the iEMS Incubator/Shaker HT allows incubation at up to 69°C.

The iEMS Incubator/Shaker and iEMS Incubator/Shaker HT are designed for flexible sample capacities, processing three or up to nine microplates at a time, respectively.



**Thermo Scientific iEMS Microplate Incubator/Shaker HT**  
A high-performance 96-well plate incubator and orbital shaker for assays requiring temperatures up to 69C.



**Thermo Scientific iEMS Incubator/Shaker**  
A high-performance microplate incubator and shaker designed for ELISA applications.

# Technical Specifications and Ordering Information

Thermo Scientific Incubator/Shaker		
	iEMS Incubator/Shaker	iEMS Incubator/Shaker HT
<b>Temperature control</b>		
Programmable temperature range	14°C - 40°C	14°C - 69°C
Controlled incubation range	Ambient + 3°C - 40°C	Ambient + 3°C - 69°C
Resolution	0.1°C	0.1°C
Programmable incubation time	Up to 48 hours in steps of 1 second	Up to 48 hours in steps of 1 second
Inaccuracy	± 0.3°C	± 0.5°C
Uniformity	< 0.3°C across the entire plate	< 0.6°C across the entire plate, with a plate sealer
<b>Shaker</b>		
Frequency	400 - 1400 revolutions per minute (rpm) in steps of 250 rpm	400 - 1400 revolutions per minute (rpm) in steps of 250 rpm
Diameter	1 mm (radius 0.5 mm)	1 mm (radius 0.5 mm)
Programmable shaking time	Up to 48 hours in steps of 1 second	Up to 48 hours in steps of 1 second
Programmable interval time	Up to 48 hours in steps of 1 second	Up to 48 hours in steps of 1 second
<b>General Features</b>		
Capacity	Up to nine 96-well plates	Up to three 96-well plates
Dimensions (H x W x D)	400 x 400 x 450 mm 15.7 x 15.7 x 17.7 in.	200 x 400 x 450 mm 7.9 x 15.7 x 17.7 in.
Weight	30 kg (66.1 lbs.)	15 kg (33.1 lbs.)
<b>Ordering Information</b>		
<b>Cat.No</b>	<b>Description</b>	
5112250	iEMS Incubator/Shaker HT, 1-CABIN 220 - 240 V 50/60 Hz*	
5112257	iEMS Incubator/Shaker HT, 1-CABIN 100 - 120 V 50/60 Hz*	
5112200	iEMS Incubator/Shaker, 3-CABIN 220 - 240 V 50/60 Hz**	
5112207	iEMS Incubator/Shaker, 3-CABIN 100 - 120 V 50/60 Hz**	
	*Includes 3 pcs iEMS thermal holder HT	
	**Includes 9 pcs iEMS thermal holder	
5921200	iEMS thermal microplate holder	
5921210	iEMS thermal holder HT	



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