

## Model 311DS Digital Shaking Incubator: 4 x 2 L/6 x 1 L Capacity

The 311DS is a high performance incubator with a built-in orbital shaker. A broad temperature range expands the use of this incubator to liquid cultures, washing blots and other shaking applications requiring precise temperature control.

Temperature within the 311DS is strictly regulated by the *SmartChek™* temperature control system. All electronics are located away from the chamber to protect them from heat related stress and provide a long, maintenance-free service life.

The sturdy, integral shaker has a 19 mm orbit. A flat platform with non-slip rubber mat, as well as a variety of flask platforms are available separately. Platforms can hold as many as four 2 liter and six 1 liter flasks.

The gasketed door has a large, integral viewing area for checking samples without disturbing the chamber contents. Opening the door stops operation of the shaker.

The incubator is supplied with one shelf. Additional shelves and shaker platforms are sold separately.

- Built-in shaker with 19 mm orbit
- Exclusive *SmartChek™* temperature control system
- Broad temperature range to meet a wide variety of applications
- Gasketed door with large, integral viewing area



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### SPECIFICATIONS

Chamber volume	2.5 cu. ft./71 liters
Temperature range	Ambient +5° to 80°C
Temp uniformity/accuracy	±0.2°C @ 37°C
Temp. display	0.1°C
Shaker orbit/speed	19 mm/20 to 300 rpm
Timer	0 to 99 minutes or continuous
Dimensions (W x D x H)	
Chamber	17.4 x 15.6 x 16 in/44.2 x 39.6 x 40.6 cm
Exterior	22.6 x 21.4 x 25 in/57.4 x 54.4 x 63.5 cm
Weight	140 lb/63.6 kg
Electrical	230V~ or 120V~, 50/60 Hz

### ORDERING INFORMATION

Catalog No.	Description
I5311-DS-230V*	Digital Incubator with Shaker, Model 311DS, 230V
I5322	Additional shelf
I5331	Flat shaker platform with non-slip rubber mat
I5330	Shaking platform pre-drilled for flask clamps, clamps sold separately (see page 23)
I5330-2000	Platform with 4 x 2 L flask clamps
I5330-1000	Platform with 6 x 1 L flask clamps
I5330-500	Platform with 8 x 500 ml flask clamps
I5330-250	Platform with 12 x 250 ml flask clamps
I5330-125	Platform with 20 x 125 ml flask clamps
I5330-50	Platform with 30 x 50 ml flask clamps

\*230V product includes both EU and UK power cords. For 120V units, remove -230V from end of catalog number.