

## INTRODUCTION

This manual covers the specifications, operation and use of the Labnet I-5311-DS shaking incubator and its accessories. Please pay special attention to the **Safety Precautions** section in this manual.

The I-5311-DS shaking incubator from Labnet International provides an extremely stable temperature environment, and an aggressive shaking motion for the mixing of materials for cell culture growth at ambient and above ambient temperatures.

The I-5311-DS shaking incubator uses microprocessor controls and mechanical convection to maintain a stable temperature environment and to achieve fast chamber temperature recovery after a door opening. The incubator interior is constructed from stainless steel for corrosion resistance and easy clean-up of accidental spills. All incubator doors have an integral glass window and the incubator has a light to allow observation of samples without opening the door. Each door is fully thermal gasketed.

The I-5311-DS shaking incubator comes with one removable full shelf and four large, rubber padded adjustable feet for leveling the unit. Additional half and full shelves may be purchased. The I-5311-DS shaking mechanism supports a wide range of optional rack and flask platforms which are user changeable.

## SPECIFICATIONS

Chamber temperature range	Ambient +5C to 70C (Ambient +10°C with shaker on)
Accuracy / Uniformity @37°C	+/-0.3C / +/-0.5C
Temperature accuracy	+/-0.2C
Temperature Controller	Microprocessor - User Calibratable
Over temperature safety	Independently settable
Shaker speed	20 to 300 rpm
Shaker orbit	19mm
Shaker max load	7.4kg*
Shaker timer	Continuous (Hld) or 30 seconds to 99 minutes 50 seconds
Timer increments	30 seconds to 9 min 59 seconds in 1 second steps 10.0 minutes to 99 min 50 seconds in 10 second increments
Interior electrical outlet	1 amp
Chamber volume	2.5 cu ft / 70 liters
Exterior dimensions w x d x h	574 x 544 x 644mm
Chamber dimensions w x d x h	442 x 396 x 406mm

### Electrical Ratings and Unit Size

I-5311-DS	120V, 50/60Hz, 6 amps
I-5311-DS-230V	230V, 50/60Hz, 4 amps

\* Max load is 4 x 2 liter flasks with 400ml liquid in each flask

## UNPACKING

Upon receipt of your I-5311-DS shaking incubator, examine the carton and unit for damages. If shipping damage has occurred, a claim must be filed with the carrier. The carrier is responsible for correcting shipping damages. Save all packaging until the unit has been shown to operate properly to your satisfaction. Carefully remove the unit from the carton and shipping pallet.