

1.0 Introduction

The Labnet Orbit™ Digital Shakers are intended for shaking microliter plates, tubes, bottles, flasks, dishes and other laboratory vessels. The shakers are driven by asynchronous motors, which enable silent operation and constant shaking speed independent of the load or power supply fluctuations.

Each shaker device consists of two main components:

- ▶ Motor with eccentric mechanism
- ▶ Control electronics

The motor drives the shaker's eccentric mechanics and generates shaking effect. The electronics control the motor RPM, TIME, and keyboard functions.

2.0 Safety Precautions

- ▶ Always plug the unit into a properly grounded and fused outlet.
- ▶ Do not use the device near water sources. Take care so that water will not fall on the device, especially during cleaning procedures.
- ▶ Do not use the device in a caustic or explosive atmosphere.
- ▶ There are no user serviceable parts in the unit. Opening the unit may void the warranty. In case of a malfunction or liquid being spilled into the unit, unplug the device from its power outlet and contact Corning Customer Service.



NOTE: In the case that the device does not function properly even if you have exactly followed the instructions described in the User's Manual, contact Corning Customer Service. If the equipment is used in a manner not specified by this manual, the equipment may become unsafe to operate, could harm the user or the device, and may void the warranty.

Do not shake inflammable or explosive samples or use the unit in an inflammable or explosive environment.

3.0 Specifications

The casings of the Labnet Orbit P4, 300, and 1000 are made of plastic. Bottom cover and upper plate are made of steel plate varnished with high resistant polyurethane lacquer.

The housing of the Orbit 1900 is made from a high-grade cold rolled steel plate and painted with a highly resistant polyurethane lacquer.

▶ Labnet Orbit P4

Electric Power Supply

120V	120V ± 10%, 50/60Hz
230V	230V ± 10%, 50/60Hz
Motor Power	15W
Fuse	
120V	2 x T 1A L 250V
230V	2 x T 0.25A L 250V
RPM Regulation	Digital, load independent, from 100 to 1,200 rpm (1,400 rpm, 120V version) in 10 rpm steps
Shaker Orbit	3 mm
Timer	30 sec. to 99 min. 50 sec. in 10-second steps (under 10 min. in 1-second steps), timer HOLD function
Maximum Load	0.66 lbs. (0.3 kg)
Dimensions (W x L x H)	7.4 x 11.8 x 5.9 in. (18.8 x 30 x 15 cm)
Weight	9.5 lbs. (4.3 kg)
Ambient Operation Range	5°C to 40°C, up to 85% RH, non-condensing