1.0. GENERAL DESCRIPTION

1.1. DEFINITION

Labnet's 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.

1.2. PRINCIPLES OF OPERATION

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. TECHNICAL FEATURES

2.1. CONSTRUCTION

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

2.2. GENERAL SPECIFICATIONS: OPERATION RANGE: 4ºc TO 65ºc, 85%RH

ORBIT P2, ORBIT P4, AND ORBIT M60 MODELS

POWER SUPPLY	230V ± 10% - 50Hz, 115V ± 10% - 50Hz/60Hz
MOTOR POWER	15W
FUSE	2 x 0.25AT, 230V 2 x 1 AT, 115V
RPM REGULATION	DIGITAL, load independent, from 100 to 1200 (1400 - 115V version) RPM in 10 RPM steps
SHAKER ORBIT	3 mm
TIMER	30 sec - 99min 50sec. in 10 sec. steps, under 10 min. in 1 sec. steps, timer HOLD function
LOAD	max. 0.3 kg
DIMENSIONS W x L x H	170mm x 275mm x 130mm
WEIGHT	4,3 kg