

## 1.0. GENERAL DESCRIPTION

### 1.1. DEFINITION

Corning LSE Digital Microplate and Orbital Shakers are intended for shaking microplates, 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: 4° C TO 65° C, 85% RH  
**MODEL 6780-4, 6781-4 and 6782-4**

POWER SUPPLY	230V ± 10% - 50Hz, 115V ± 10% - 50Hz/60Hz
MOTOR POWER	15W
FUSE	2 x 0.25A, 230V 2 x 1 A, 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 – 99 minutes 50 seconds in 10 second steps, under 10 minutes in 1 second steps, timer HOLD function
LOAD	max. 0.3 kg
DIMENSIONS W x L x H	170 mm x 275 mm x 130 mm
WEIGHT	4.3 kg

**MODEL 6780-NP, 6781-NP and 6782-NP**

POWER SUPPLY	230V ± 10% - 50Hz, 115V ± 10% - 50Hz/60Hz
MOTOR POWER	15W
FUSE	2 x 0.25A 230V 2 x 1 A 115V
RPM REGULATION	DIGITAL, load independent, from 50 to 600 RPM in 10 RPM steps
SHAKER ORBIT	19 mm
TIMER	30 sec - 99minutes 50 seconds in 10 second steps, under 10 min. in 1 second steps, timer HOLD function
LOAD	max. 4 kg
DIMENSIONS W x L x H	255 mm x 312 mm x 130 mm
WEIGHT	7.1 kg