

INSTRUCTION MANUAL

Models:

6780-FP – 120/100V US

6781-FP -- 230V EU

6782-FP -- 230V UK



Warnings

The following precautions should be taken when operating or working near the Corning® LSE™ Low Speed Orbital Shaker:

- **Always** wear safety glasses and other appropriate protection when operating this equipment.
- **Never** operate the unit without a shaking head securely attached.
- **Shake** hazardous samples in appropriate containment vessels.
- **Do not** stir volatile materials.
- **Do not** immerse the unit for cleaning.
- **Do not** modify or substitute the grounded power plug. Use only power cords supplied by the manufacturer. Use only properly grounded outlets to avoid shock hazard.
- **Do not** modify the unit electrically or mechanically as personal injury or product damage may occur.
- **Not** explosion or spark proof.
- **Not** for industrial use. These units are designed for use in laboratory environments by persons knowledgeable in safe laboratory practices.
- **Repair** should be performed only by qualified individuals.

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1.0 GENERAL SPECIFICATIONS

Electrical requirements:

115V model	115V 10% - 50/60Hz, 0.3A
230V model	230V 10% - 50/60Hz, 0.15A
Fuse	2 x 0.5A 230V; 2 x 1A 115V
Speed	from 3 to 60 rpm
Shaker Orbit	19 mm (0.75 inch)
Timer	20 – 120 minutes in 10 minute step, HOLD function
Maximum Load	5 kg
Dimensions WxLxH	295 x 340 x160 mm
Platform dimensions WxL	295 x 295 mm useable area
Weight	6.6 kg
Operating Conditions	4°C to 70°C, up to 85% RH, non-condensing

2.0 INSTALLATION OF THE SHAKER

2.1 UNPACKING

Before starting the installation, carefully examine the shaker for possible damage or missing parts.

- Open the box and carefully remove the padding. Check that the shaker has not been visibly damaged during transportation.
- Keep the packing material until you are sure that the shaker works properly.
- Carefully lift the device out of the box.
- Be sure that the following information is included on the serial label located on the back of the unit: Serial Number, Product Number, Electrical Rating.
- Check that the power cord has a pin configuration that fits into a wall socket according to the local standard.

Should any kind of damage have occurred during transportation, contact Corning Customer Service or the Corning dealer the product was purchased from as soon as possible to file a claim with the carrier.

2.2 SELECTING THE CORRECT LOCATION

When locating the shaker, please consider following:

- Put the shaker on horizontal, leveled and stable surface.
- Leave enough space around the shaker for normal air circulation, minimally 10 cm.
- Leave enough space around the shaker for easy access and maintenance.
- Avoid locations subject to shocks and vibrations.
- Avoid locations subject to frequent power fluctuations or power losses (this may affect shaker performance).

Note: There has to be an easy access to the shaker control panel and main plug in case of emergency.

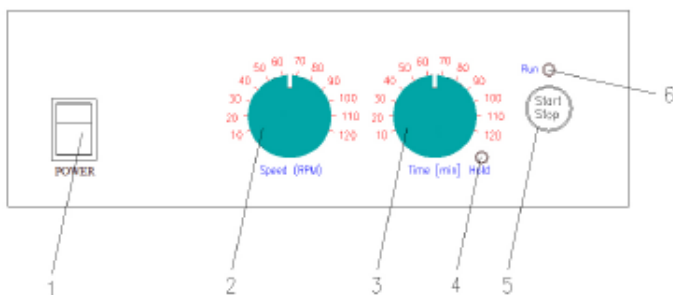
2.3 ATTACHING THE POWER CORD

First connect the main power cord to the shaker then connect the plug end of the cord to a grounded wall socket. Avoid lines on which powerful electric motors, refrigerators and similar devices are connected.



Be careful when you plug the cord to a grounded wall socket!
Do not touch plug with wet hand!
Do not pull the plug by the cord!

3.0 INSTRUCTIONS FOR USE



1. **POWER** switch – to turn the shaker *ON* (power switch illuminates) or *OFF*
2. **SPEED** potentiometer – to set the shaker speed
3. **TIME** potentiometer – to set timed operation
4. **HOLD** – yellow light illuminates when shaker is set on HOLD for continuous operation
5. **START/STOP** button to start or stop shaking
6. **RUN** – green light illuminates when shaker operates

Note: The speed can be adjusted at any time during shaker operation. The time however can not be changed while the shaker is in motion. To change the time press the STOP button first, allow the shaker platform to come to full stop and set the time value again. Restart the shaker.



Do not use the shaker near water sources. Be sure that water doesn't get on the device, especially during the cleaning procedures.

- Do not expose the shaker to caustic or corrosive vapors (e.g. organic solvents).
- Do not insert any objects into the shaker (such as a screwdriver or metal rods).
- Never operate the shaker without platform securely attached.
- Hazardous samples should be shaken only in appropriate containment vessels.

NOTE :

Misuse or unauthorized modifications will waive the warranty rights. If the equipment is used in a manner not specified by the manufacturer, the safety features of the shaker may be impaired.



Do not shake flammable or explosive samples!

4.0. TROUBLESHOOTING GUIDE / SERVICE

Be sure to disconnect the shaker from the main power source immediately in case of any signs of malfunction and contact Corning Customer Service immediately at:

- 1.800.492.1110 (for toll-free calling within the U.S. and Canada)
- 1.978.442.2200 (outside the U.S.), or
- Contact your local Corning support office listed in the back of this manual.

<u>Problem</u>	<u>Explanation / Solution</u>
POWER key doesn't light up	Check the power connection, Check fuses Call Corning Customer Service
Shaker does not START	Check the power connection, Check fuses Call Corning Customer Service

5.0. ROUTINE MAINTANCE / CLEANING

- No routine maintenance or lubrication is required.
- It is recommended that the shaker is kept clean.

5.1. CLEANING

The outside housing can be cleaned with a soft, damp cloth when needed.

Do not use any corrosive or abrasive cleaners (acetone, polish etc.) This may permanently damage the shaker finish.



Before cleaning the shaker, always unplug the power cord from the wall socket!

6.0. SERVICE AND REPAIR INFORMATION

If you have a question about the Corning® LSE™ Low Speed Orbital Shaker or have a service inquiry, contact Corning Customer Service immediately at:

- 1.800.492.1110 (for toll-free calling within the U.S. and Canada)
- 1.978.442.2200 (outside the U.S.), or
- Contact your local Corning support office listed in the back of this manual.

Before returning any unit for service, a Return Authorization (RA) number must first be obtained. Equipment sent in without out prior authorization will be returned at the customer's expense. When returning a unit to Corning for service, it should be sent in the original packaging. If this is not possible, be sure that the unit is sufficiently packed. Any damage resulting from improper packaging is the responsibility of the customer. A written explanation should accompany the unit along with the RA number.

7.0. WARRANTY STATEMENT

Corning Incorporated (Corning) warrants that this product will be free from defects in material and workmanship for a period of two (2) years from date of purchase. CORNING DISCLAIMS ALL OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Corning's sole obligation shall be to repair or replace, at its option, any product or part thereof that proves defective in material or workmanship within the warranty period, provided the purchaser notifies Corning of any such defect. Corning is not liable for any incidental or consequential damages, commercial loss or any other damages from the use of this product.

This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in the supplied instruction manual. This warranty does not cover damage caused by accident, neglect, misuse, improper service, natural forces or other causes not arising from defects in original material or workmanship. This warranty does not cover motor brushes, fuses, light bulbs, batteries or damage to paint or finish. Claims for transit damage should be filed with the transportation carrier.

In the event this product fails within the specified period of time because of a defect in material or workmanship, contact Corning's Customer Service at the following numbers: USA: 1-800-492-1110; Canada: 1-978-442-2200. For other regions of the world, please visit www.corning.com/lifesciences or see the included instruction manual for a list of World Wide Support Offices.

Corning's Customer Service team will help arrange local service where available or coordinate a return authorization number and shipping instructions. Products received without proper authorization will be returned. All items returned for service should be sent postage prepaid in the original packaging or other suitable carton, padded to avoid damage. Corning will not be responsible for damage incurred by improper packaging. Corning may elect for onsite service for larger equipment.

Some states do not allow limitation on the length of implied warranties or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights. You may have other rights which vary from state to state.

No individual may accept for, or on behalf of Corning, any other obligation of liability, or extend the period of this warranty.

For your reference, make a note of the serial number, date of purchase and supplier here.

Serial No. _____ Date Purchased _____

Supplier _____

8.0. DECLARATION OF CONFORMITY

Declaration of Conformity




Corning Life Sciences hereby confirms that the product

Corning[®] LSE[™] Low Speed Orbital Shaker

Is in accordance with the following directives and standards:

2006/95/EC	Low Voltage Directive
2004/108/EC	EMC Directive
2006/42/EC	Machine Directive
2002/95/EC	RoHS
2006/96/EC	WEEE

EN 61010-1
EN 61010-2-051
EN ISO 12100-2
EN 55011
EN 55014-1
EN 5014-2
EN 55022
EN 61000-3-2
EN 61000-3-3
EN 6100-6-2
EN 61326-1



Michael Rosenblum
Quality Manager

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to both Part 15 of the FCC Rules and the radio interference regulation of the Canadian Department of Communications. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference which case the user will be required to correct the interface at his own expense.

9.0. PRODUCT DISPOSAL



This symbol, if present on the product, indicates that the product was planned for use in a country complying with the Waste Electrical and Electronic Equipment EU Directive, 2002/96/ED. This symbol indicates that this equipment must not be disposed of with unsorted municipal waste. It is the product user's responsibility to correctly dispose of waste equipment by handing it over to an authorized facility for separate collection and recycling. It is the product user's responsibility to decontaminate waste equipment from biological, chemical, and/or radiological hazards prior to disposal.

Additional information pertaining to the disposal of Corning per the WEEE Directive can be obtained at www.corning.com/weee.

Please register your warranty online at
<http://www.corning.com/lifesciences/warranty>

CORNING

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India
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f 91-124-4604099

Japan
t 81 3-3586 1996
f 81 3-3586 1291

Korea
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f 82 2-796-9300

Singapore
t 65 6733-6511
f 65 6861-2913

Taiwan
t 886-2-2716-0338
f 886 2-2716-0339

EUROPE

France
t 0800 916 882
f 0800 918 636

Germany
t 0800 101 1153
f 0800 101 2427

The Netherlands
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f 31 20 659 76 73

United Kingdom
t 0800 376 8660
f 0800 279 1117

All other European Countries
t 31 (0) 20 659 60 51
F 31 (0) 20 659 7673

LATIN AMERICA

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t (55-11) 3089-7419
f (55-11) 3167-0700

Mexico
t (52-81)8158-8400
f (52-81) 8313-8589

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