

Corning Brand Equipment Product Selection Guide



CORNING

Introduction

Corning Life Sciences is pleased to present our Equipment Selection Guide. In this guide, you will find a selection of Corning's newest and most requested products.

For up-to-date information on Corning Life Sciences' comprehensive range of products and services, go to www.corning.com/lifesciences where you can access:

- ▶ New products information
- ▶ Product catalog
- ▶ Technical information including:
 - Application notes
 - Instruction manuals
 - Product bulletins
 - Product selection guides
- ▶ Product literature
- ▶ Distributor information

For additional product information, please visit www.corning.com/lifesciences, or call 1.800.492.1110. Customers outside the United States, please call 1.978.442.2200 or contact your local support office. See back cover.

Ordering Information

Corning products are available through any authorized Corning support office or distributor. Please see our website for a complete listing.

To place an order, simply contact the distributor of your choice. For each requested product, provide the Corning catalog number, product description, and desired quantity.



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Liquid Handling Equipment



Corning® Lambda® Plus Starter Kit

The Corning Lambda Plus starter kit contains:

- ▶ Cat. No. 4071 Lambda Plus single-channel pipettor, 0.5 to 10 μL
- ▶ Cat. No. 4072 Lambda Plus single-channel pipettor, 2 to 20 μL
- ▶ Cat. No. 4074 Lambda Plus single-channel pipettor, 20 to 200 μL
- ▶ Cat. No. 4075 Lambda Plus single-channel pipettor, 100 to 1000 μL
- ▶ Universal carousel rack for six single-channel pipettors
- ▶ Corning DeckWorks™ Pipet Tips: Cat. No. 4135 (10 μL), Cat. No. 4138 (200 μL), and Cat. No. 4140 (1000 μL)

Cat. No.	Description	Qty/Pk	Qty/Cs
4069	Lambda Plus starter kit	1 kit	1 kit

Corning Lambda Plus Single-channel, 8-channel, and 12-channel Pipettors

Corning Lambda Plus pipettors are available in single-, eight-, and twelve-channel configurations.

- ▶ Extremely Low pipetting forces
- ▶ Volume lock prevents accidental change
- ▶ 3-year warranty
- ▶ Fully autoclavable and UV resistant
- ▶ Designed for universal fit with all common brands of pipet tips
- ▶ Adjustable tip ejector
- ▶ Factory calibrated to strict ISO 8655 standards



Corning Lambda Plus single-channel pipettor



Corning Lambda Plus 8-channel and 12-channel pipettor

Cat. No.	Volume Range (μL)	Channels	Accuracy (%)	Precision (%)	Tip (μL)	Qty/Cs
4070	0.2 - 2.0	1	± 12 to ± 1.5	<6.0 to <0.7	10	1
4071	0.5 - 10	1	± 4.0 to ± 0.5	<4.0 to <0.4	10	1
4072	2 - 20	1	± 4.0 to ± 0.8	<3.0 to <0.4	200	1
4073	10 - 100	1	± 1.6 to ± 0.8	<0.8 to <0.3	200	1
4074	20 - 200	1	± 1.2 to ± 0.6	<0.6 to <0.3	200	1
4075	100 - 1,000	1	± 1.0 to ± 0.6	<0.45 to <0.25	1,000	1
4080	1 - 10	8	± 8.0 to ± 2.0	<6.0 to <1.2	10	1
4081	5 - 50	8	± 4.0 to ± 1.6	<2.5 to <0.6	200	1
4082	20 - 200	8	± 3.0 to ± 1.0	<1.5 to <0.6	200	1
4083	50 - 300	8	± 1.6 to ± 1.0	<1.5 to <0.6	200/300	1
4084	1 - 10	12	± 8.0 to ± 2.0	<6.0 to <1.2	10	1
4085	5 - 50	12	± 4.0 to ± 1.6	<2.5 to <0.6	200	1
4086	20 - 200	12	± 3.0 to ± 1.0	<1.5 to <0.6	200	1
4087	50 - 300	12	± 1.6 to ± 1.0	<1.5 to <0.6	200/300	1

Accessories

4078	Universal carousel rack for six single-channel pipettors
4079	Universal linear rack for six pipettors (six single-channel, maximum of four 8-channel or 12-channel pipettors)
4088	8-channel or 12-channel pipettor stand. Holds one Lambda Plus 8-channel or 12-channel pipettor

Costar® 8-Pette® and 12-Pette® Multi-channel Pipettors

These multi-channel pipettors feature a unique, ergonomic trigger-style aspiration and dispense control mechanism designed to reduce thumb fatigue during repetitive pipetting.

Cat. No.	Volume Range (μL)	Channels	Qty/Pk	Qty/Cs
4880	20 - 200	12	1	1
4888	20 - 200	8	1	1



Corning® Stripettor™ Ultra Pipet Controller



The Stripettor Ultra pipet controller is designed for use with glass and plastic serological pipets from 0.5 to 100 mL. When fully charged, the batteries enable up to 8 hours of continuous use. Aspirating and dispensing speed is controlled through the finger triggers.

- ▶ LCD display for continuous visualization of speed, modes, and battery status
- ▶ Colored nose pieces for user or application identification

Cat. No.	Description
4099	Corning Stripettor Ultra Pipet Controller

Accessories

4991	Hydrophobic PTFE filter 0.2 µm (5 pcs)
4992	Hydrophobic PTFE filter 0.45 µm (5 pcs)
4993	Silicone pipet holder
4994	Battery set, 3 x AAA, NiHM
4995	Battery cover with wings
4996	Universal power supply, 9V with set of adaptors (EU, US, UK, and AUS)
4997	Colored nose pieces, set of 4 (orange, yellow, green, red)



Corning Aspirator Device and Accessories



Cat. No.	Description	Qty/Pk	Qty/Cs
4930	Aspirator device (includes hand piece, grommet for accessory attachment, and single-channel adapter for use with disposable pipet tips)	1	1
4931	8-channel adapter for use with disposable pipet tips	1	1
9016	Aspirating pipet, without graduations, unplugged, sterile, paper/plastic wrapped	50	500

Transtar-96® Liquid Transfer System



- ▶ A portable, autoclavable liquid handling device for use with 96-well plates

- ▶ A sterile 96 tip disposable cartridge, which loads into the Transtar system, enables liquids to be aspirated, transferred, and dispensed over a volume range of 25 to 200 µL in 5 µL increments

- ▶ Transtar-96 system accuracy is rated at ±5% at all volume levels

Cat. No.	Description	Sterile	Qty/Pk	Qty/Cs
7605	Transtar-96, adjustable-volume pipettor	N/A	1	1
7606	Transtar elevator	N/A	1	1
7610	Transtar disposable cartridges	Yes	1	24
4876	Transtar disposable reservoir liner, open	Yes	1	100
4877	Transtar disposable reservoir liner, 12-channel	Yes	1	100
4878	Transtar disposable reservoir liner, 8-channel	Yes	1	100

Costar® Reagent Reservoirs



The reagent reservoirs are manufactured from modified polystyrene, are sterile, and disposable.

Cat No.	Volume (mL)	Color	Qty/Pk	Qty/Cs
4870	50	White	5	200
4871	50	White	1	100
4872	100	White	5	200
4873	100	White	1	100

Centrifugation Equipment



Corning® LSE™ Mini Microcentrifuge

The Corning LSE mini microcentrifuge is a personal benchtop instrument designed for quick spin downs of micro-samples. Operation is simple and convenient. After loading sample tubes, close the lid and the rotor accelerates quickly to 6,000 rpm (2,000 x g). This speed range is ideal for bringing small droplets to the bottom of the tubes, micro-filtrations, or basic separations. Press the lid release button and rotor comes to a stop.

The LSE mini microcentrifuge includes an 8-place rotor that will accept standard 1.5 mL to 2.0 mL microcentrifuge tubes, and adapters are included for 0.5/0.4 mL and 0.2 mL tubes. Also included is a 4-place rotor for PCR strip tubes.

- ▶ Compact, lightweight, and easy-to-use
- ▶ Close the lid to start, press the lid release button to stop.
- ▶ 8 x 1.5/2.0 mL rotor and 4-place strip tube rotors included
- ▶ Fixed speed of 6,000 rpm generates 2,000 x g.

Cat. No.	Description	Voltage	Plug Type	Qty/Cs
6765	LSE mini microcentrifuge	120V, 50/60Hz	US	1
6766	LSE mini microcentrifuge	230V, 50/60Hz	EU	1
6767	LSE mini microcentrifuge	230V, 50/60Hz	UK	1

Corning LSE High Speed Microcentrifuge

The Corning LSE high speed microcentrifuge features an easy-to-use, digital control interface, and high-speed performance for quick nucleic acid and protein separations. Two control knobs are used to precisely set rotor speed and run time, and parameters are shown on the easy-to-read LED displays. Press the “Speed/G-force” knob to toggle the display between rpm and calculated g-force.

The LSE high speed microcentrifuge incorporates a brushless drive and unique air cooling system to both reduce noise and minimize sample heating even during prolonged runs at maximum speed.

- ▶ Fast acceleration to a maximum speed 13,300 rpm/16,300 x g
- ▶ Complete with easy access, 24 x 1.5/2.0 mL rotor
- ▶ Precise, digital control system
- ▶ Set and view rotor speed in rpm or g-force
- ▶ Quiet and cool running, even at maximum speed



Cat. No.	Description	Voltage	Plug Type	Speed (rpm)	Weight	Dimensions (H x W x D)	Qty/Cs
6765-HS	LSE high speed microcentrifuge	120V, 50/60Hz	US	500 - 13,300	18 lbs. (8.1 kg)	9.25 x 11.5 x 8.5 in. (23.5 x 29.3 x 21.6 cm)	1
6766-HS	LSE high speed microcentrifuge	230V, 50/60Hz	EU	500 - 13,300	18 lbs. (8.1 kg)	9.25 x 11.5 x 8.5 in. (23.5 x 29.3 x 21.6 cm)	1
6767-HS	LSE high speed microcentrifuge	230V, 50/60Hz	UK	500 - 13,300	18 lbs. (8.1 kg)	9.25 x 11.5 x 8.5 in. (23.5 x 29.3 x 21.6 cm)	1
6768-HS	LSE high speed microcentrifuge	100V, 50/60Hz	JP	500 - 13,300	18 lbs. (8.1 kg)	9.25 x 11.5 x 8.5 in. (23.5 x 29.3 x 21.6 cm)	1

Accessories

Cat. No.	Description	Qty/Pk
480134	Individual adaptors for 0.5/0.4 mL tubes	6
480135	Individual adaptors for 0.2 mL tubes	6

Corning® LSE™ Compact Centrifuge



The Corning LSE compact centrifuge is a space saving centrifuge ideal for use in life science and industrial research labs.

Four angle rotors are available for this centrifuge, including an innovative combination rotor designed by Corning to allow for greater versatility. This multi-purpose rotor can accommodate various tube sizes including a 5 mL microcentrifuge tube, as well as round and conical bottom 15 mL and 50 mL centrifuge tubes. Tubes are inserted at an increased fixed angle to allow for improved efficiency of cellular pelleting. An equal g-force is applied to the samples when spinning 15 mL and 50 mL tubes simultaneously. In addition, the LSE compact centrifuge can accommodate a swing-out rotor for 6 x 5 mL.

The centrifuge's control panel features a large digital display and a convenient turn knob for setting parameter values. An internal microprocessor maintains precise control over operation with ten levels of acceleration and deceleration and a speed range from 200 rpm to 6,000 rpm. For safety considerations, the centrifuge is equipped with an electronic lid lock system, over speed protection, and an automatic shut off imbalance detection system.

- ▶ Maximum capacity: 6 x 50 mL
- ▶ Maximum speed: 6,000 rpm/4,185 x g
- ▶ Accepts both conical and round bottom tubes
- ▶ Space saving footprint: 11" x 14.6" x 10"

Cat. No.	Description	Voltage	Plug Type	Speed (rpm)	Weight (kg)	Dimensions (L x W x D)	Qty/Cs
6755	LSE compact centrifuge	120V, 50/60Hz	US	200 - 6,000	33 lbs. (15 kg)	11 x 14.6 x 10.2 in. (28 x 37 x 26 cm)	1
6756	LSE compact centrifuge	100V, 50/60Hz	US	200 - 6,000	33 lbs. (15 kg)	11 x 14.6 x 10.2 in. (28 x 37 x 26 cm)	1
6758	LSE compact centrifuge	230V, 50/60Hz	UK	200 - 6,000	33 lbs. (15 kg)	11 x 14.6 x 10.2 in. (28 x 37 x 26 cm)	1
6759	LSE compact centrifuge	230V, 50/60Hz	EU	200 - 6,000	33 lbs. (15 kg)	11 x 14.6 x 10.2 in. (28 x 37 x 26 cm)	1

Rotors

Cat. No.	Description	Max. Speed (rpm)	Max. RCF	Qty/Cs
480136	LSE 6 x 50 mL fixed angle rotor	6,000	3,820	1
480137	LSE 12 x 15 mL fixed angle rotor	6,000	4,180	1
480138	LSE 6 x 5 mL swing-out rotor	3,500	1,450	1
480139	LSE 18 x 1.5 mL fixed angle rotor	6,000	2,930	1
480143	LSE combination rotor for 5, 15, and 50 mL tubes	6,000	3,820	1

Adapters

Cat. No.	Description	Qty/Cs
480140	LSE adapters for 10 and 15 mL tubes in 50 mL rotor	6
480141	LSE adapters for 5 and 7 mL tubes in 50 mL rotor	6
480142	LSE adapters for 5, 7, and 10 mL tubes in 15 mL rotor	6



6 x 50 mL fixed angle rotor
(Cat. No. 480136)



12 x 15 mL fixed angle rotor
(Cat. No. 480137)



6 x 5 mL swing-out rotor
(Cat. No. 480138)



18 x 1.5 mL fixed angle rotor
(Cat. No. 480139)



Combination rotor
(Cat. No. 480143)

Agitation Equipment



Corning® LSE™ Vortex Mixer

The Corning LSE variable speed vortex mixer provides fast, efficient mixing with minimal vibration. The unit features a powerful, counter-balanced motor drive, and continuous or “touch” mix modes. A range of accessories are available for all common sample tubes and containers.

- ▶ Variable speed for gentle to vigorous mixing
- ▶ Optimized counter balance for minimal vibration
- ▶ Lightweight and portable
- ▶ Includes cup head for all standard microtubes and centrifuge tubes
- ▶ Mix a variety of tubes and plates with optional accessory heads
- ▶ Touch and continuous mix modes



Accessory heads for Corning LSE vortex mixer

Cat. No.	Description	Voltage	Plug Type	Speed (rpm)	Weight	Dimensions (L x W x D)	Qty/Cs
6775	LSE vortex mixer	120V, 50/60Hz	US	0 - 3,400	4.8 lbs. (2.2 kg)	5.5 x 6.3 x 5.1 in. (14 x 16 x 13 cm)	1
6776	LSE vortex mixer	230V, 50/60Hz	EU	0 - 2,850	4.8 lbs. (2.2 kg)	5.5 x 6.3 x 5.1 in. (14 x 16 x 13 cm)	1
6777	LSE vortex mixer	230V, 50/60Hz	UK	0 - 2,850	4.8 lbs. (2.2 kg)	5.5 x 6.3 x 5.1 in. (14 x 16 x 13 cm)	1
6778	LSE vortex mixer	100V, 50/60Hz	JP	0 - 2,850	4.8 lbs. (2.2 kg)	5.5 x 6.3 x 5.1 in. (14 x 16 x 13 cm)	1

Accessories

Cat. No.	Description	Qty/Cs
480100	Optional head, 3 inch, for processing larger numbers of tubes	1
480101	Optional head for 24 x 1.5/2.0 mL tubes, 24 x 0.5 mL tubes, and 32 x 0.2 mL tubes (or 4 tube strips)	1
480102	Optional head for 1 microplate, or 64 x 0.2 mL tubes, or 8 x 0.2 mL tube strips	1
480103	Optional head for 8 x 15 mL and 8 x 12/13 mm diameter tubes	1
480104	Optional head attachment for 6 x 50 mL tubes	1
480105	Optional head for 12 x 1.5/2.0 mL tubes, held horizontally	1
480106	Optional head for 4 x 15 mL tubes, held horizontally	1
480107	Optional head for 2 x 50 mL tubes, held horizontally	1

Corning LSE Digital Microplate Shaker

The Corning LSE digital microplate shaker features digital control of shaking speed and run time. A single control knob is used to set parameters, and values are shown on a large 3-digit display. A sturdy base encloses the motor for quiet, vibration-free operation.

The included stainless steel platform accommodates up to 4 microplates (standard or deep well), and the shaker is safe for use in temperature controlled environments from 4°C to 65°C.

- ▶ Large capacity – process up to 4 microplates
- ▶ 3 mm orbit for resuspending, homogenizing, or vortexing
- ▶ Large digital display with single-knob control of speed time
- ▶ Suitable for cold room or incubator use



Cat. No.	Description	Voltage	Plug Type	Speed (rpm)	Weight	Dimensions (L x W x D)	Qty/Cs
6780-4	LSE digital microplate shaker	120V, 50/60Hz	US	100 - 1,400	9.5 lbs. (4.3 kg)	6.6 x 10.98 x 6 in. (16.8 x 27.9 x 15.3 cm)	1
6781-4	LSE digital microplate shaker	230V, 50/60Hz	EU	100 - 1,200	9.5 lbs. (4.3 kg)	6.6 x 10.98 x 6 in. (16.8 x 27.9 x 15.3 cm)	1
6782-4	LSE digital microplate shaker	230V, 50/60Hz	UK	100 - 1,200	9.5 lbs. (4.3 kg)	6.6 x 10.98 x 6 in. (16.8 x 27.9 x 15.3 cm)	1

Corning® LSE™ Low Speed Orbital Shaker



The Corning LSE low speed orbital shaker includes a 30 x 30 cm platform and is ideal for staining and destaining gels, washing blots and general mixing applications. Speed can be set from 3 to 60 rpm and the timer can be set for up to 2 hours or for continuous operation.

- ▶ Ideal for staining and washing of fragile gels
- ▶ Gentle motion prevents foaming of liquids
- ▶ Simple analog control with easy-turn knobs
- ▶ 19 mm orbit for blotting, gel staining, and general mixing
- ▶ Safe for cold room and incubator use

Cat. No.	Description	Voltage	Plug Type	Speed (rpm)	Weight	Dimensions (L x W x D)	Qty/Cs
6780-FP	LSE low speed orbital shaker	120V, 50/60Hz	US	3 - 60	11 lbs. (5 kg)	10 x 12.6 x 6.3 in. (25.5 x 32 x 16 cm)	1
6781-FP	LSE low speed orbital shaker	230V, 50/60Hz	EU	3 - 60	11 lbs. (5 kg)	10 x 12.6 x 6.3 in. (25.5 x 32 x 16 cm)	1
6782-FP	LSE low speed orbital shaker	230V, 50/60Hz	UK	3 - 60	11 lbs. (5 kg)	10 x 12.6 x 6.3 in. (25.5 x 32 x 16 cm)	1

Corning LSE Orbital Shaker



Orbital shaker with optional clamps and flasks

The Corning LSE orbital shaker meets a variety of shaking and mixing applications. A powerful brush-less motor and counter-balanced shaker mechanism provides smooth operation for years of trouble-free use. Different platforms (order separately) are available and are easily interchangeable.

- ▶ Two stainless steel platform options
- ▶ 19 mm orbit for aeration of cultures and staining gels
- ▶ Large digital display with single-knob control
- ▶ Digital control of shaking speed and time
- ▶ Safe for cold room or incubator use
- ▶ Maximum capacity: 4 x 1L, 5 x 500 mL, 9 x 250 mL, or 16 x 125 mL

Cat. No.	Description	Voltage	Plug Type	Speed (rpm)	Weight	Dimensions (L x W x D)	Qty/Cs
6780-NP	LSE orbital shaker	120V, 50/60Hz	US	20 - 300	16 lbs. (7.3 kg)	10.1 x 12.5 x 5 in. (25.6 x 31.8 x 12.7 cm)	1
6781-NP	LSE orbital shaker	230V, 50/60Hz	EU	20 - 300	16 lbs. (7.3 kg)	10.1 x 12.5 x 5 in. (25.6 x 31.8 x 12.7 cm)	1
6782-NP	LSE orbital shaker	230V, 50/60Hz	UK	20 - 300	16 lbs. (7.3 kg)	10.1 x 12.5 x 5 in. (25.6 x 31.8 x 12.7 cm)	1

Accessories

Cat. No.	Description	Qty/Cs
480108	Flat platform with rubber mat	1
480109	Flask clamp platform (without clamps)	1
480110*	Clamp for 25 mL flask	1
480111*	Clamp for 50 mL flask	1
480112*	Clamp for 125 mL flask	1
480113*	Clamp for 250 mL flask	1
480114*	Clamp for 500 mL flask	1
480115*	Clamp for 1L flask	1
480167	Clamp for 2,000 mL flask (for use with 71L shaking incubator only)	1

* Also fits the 49L and 71L shaking incubators, see pages D16 and D17.

For a full listing of polycarbonate Erlenmeyer baffled flasks, see the **Bioprocess Product Selection Guide** (CLS-BP-028).

Constant Temperature Equipment

Corning® LSE™ Benchtop Shaking Incubator



Truly a benchtop style, the lid on the Corning benchtop shaking incubator has a low pivot point which provides a space-saving size sure to fit on the lab bench and under shelves. Each unit includes a software package, which provides the option of saving data to an external computer or monitoring rpm and temperature throughout runs. The maximum capacity is 4 x 1L flasks.

Specifications

Temperature Range	Ambient +5°C to +70°C
Operation Temperature Range	4°C to 65°C
Shaker Speed	20 to 300 rpm
Shaker Timer	1 minute to 99 hours or continuous
Temperature Increments	0.1°C
Speed Increments	1 rpm
Platform Dimensions	11.8 x 11.8 in. (30 x 30 cm)
Dimensions (W x D x H)	14.6 x 20.9 x 15.7 in. (37 x 53 x 40 cm)
Weight	43 lbs. (19.5 kg)
Height Lid Open	21.7 in. (55 cm)
Communication Port	USB to monitor temperature and rpm

Ordering Information

Cat. No.	Description	Qty/Cs
6790	LSE Benchtop shaking incubator with platform, 120V	1
6791	LSE Benchtop shaking incubator with platform, 230V (EU plug)	1
480144	Universal platform, 30 x 30 cm	1
480145	Petri dish shelf	1
480146	Sticky mat, 150 x 150 x 30 mm	1
480147	Microtiter hotel, holds maximum 4 microplates	1
480148	Combination tube holder, 6 x 15/50 mL tubes	1
480149	Plastic clamp, 125 mL	1
480150	Plastic clamp, 250 mL	1
480151	Plastic clamp, 500 mL	1
480152	Plastic clamp, 1000 mL	1

Corning LSE 49L Shaking Incubator



This cabinet-style incubator has a compact footprint and can also be stacked to maximize space efficiency. The built in orbital shaker accepts a large assortment of platforms and clamps that can accommodate flasks, Petri dishes, and test tube racks. The maximum capacity is 4 x 1L flasks. For accessories, see page D8.

Specifications

Chamber Volume	49L/1.7 cu. ft.
Temperature Range/Display	Ambient +5° to 80°C in 0.1°C increments/digital
Temperature Uniformity/Accuracy	±0.25°C/±0.1°C
Shaker Speed	20 to 400 rpm (maximum 300 rpm when stacked)
Shaker Timer	0 to 99 minutes or continuous
Shaker Orbit	19 mm
Flask Capacity	4 x 1L, 5 x 500 mL, 9 x 250 mL, 16 x 125 mL
Construction	Interior: Mirrored stainless steel Exterior: Cold rolled steel
Chamber (W x D x H)	13.5 x 14.75 x 15 in. (34.3 x 37.5 x 38.1 cm)
Exterior (W x D x H)	23 x 19.25 x 22.25 in. (42.5 x 55 x 58 cm)
Weight	83 lbs. (37.7 kg)

Ordering Information

Cat. No.	Description	Qty/Cs
6750	LSE Shaking incubator, 49 Liters, 120V	1
6752	LSE Shaking incubator, 49 Liters, 230V (EU and UK plug)	1
480153	Flask clamp platform, pre-drilled	1
480154	Flat platform with nonslip rubber mat (300 x 300 mm)	1
480155	Double flat platform with non-slip rubber mat (300 x 300 mm)	1
480156	Universal spring-loaded clamp platform for Cat. Nos. 6750 and 6752 only	1
480157	Shelf, full, for Cat. Nos. 6750 and 6752	1
480158	Stacking adapter for Cat. Nos. 6750 and 6752	1

Corning® LSE™ 71L Shaking Incubator

This high performance shaking incubator has a full size glass door and internal light that allows easy viewing of samples without disturbing the chamber contents. Mechanical convection provides a safe, stable temperature environment and fast chamber temperature recovery after opening the door. The maximum capacity is 4 x 2L/6 x 1L flasks. For accessories, see page D8.

Specifications

Chamber Volume	71L/2.5 cu. ft.
Temperature Range/Display	Ambient +5° to 80°C
Temperature Uniformity/Accuracy	±0.2°C at 37°C
Temperature Display	0.1°C
Shaker Speed	20 to 300 rpm
Shaker Orbit	19 mm
Shaker Timer	0 to 99 minutes or continuous
Dimensions (W x D x H)	Chamber: 17.4 x 15.6 x 16 in. (44.2 x 39.6 x 40.6 cm) Exterior: 22.6 x 21.4 x 25 in. (57.4 x 54.4 x 63.5 cm)
Weight	140 lbs. (63.6 kg)

Ordering Information

Cat. No.	Description	Qty/Cs
6753	LSE Shaking incubator, 71L, 120V	1
6754	LSE Shaking incubator, 71L, 230V (EU and UK plug)	1
480159	Shaking platform pre-drilled for flask clamps	1
480160	Flat shaker platform with non-slip rubber mat (390 x 330 mm)	1
480161	Platform with 4 x 2L flask clamps	1
480162	Platform with 6 x 1L flask clamps	1
480163	Platform with 8 x 500 mL flask clamps	1
480164	Platform with 12 x 250 mL flask clamps	1
480165	Platform with 20 x 125 mL flask clamps	1
480166	Platform with 30 x 50 mL flask clamps	1
480168	Rack holder for 15 mL test tubes	1
480169	Rack holder for 50 mL test tubes	1
480170	Shelf, full, for Cat. Nos. 6753 and 6754	1



Corning® LSE™ 6 Liter Digital Water Bath

The Corning LSE Digital Water Bath is constructed from corrosion-resistant stainless steel and can accommodate up to 6 liters of water or can serve as a dry bath when using thermal beads.

- ▶ Compact design
- ▶ Stainless steel cover to retain heat and minimize evaporation
- ▶ Powerful 500W heater programmed by LED digital controller
- ▶ Precise temperature control by hydraulic thermostat

Specifications

Chamber capacity	6L
Chamber construction	Stainless steel
Chamber maximum load	20 lbs. (9.09 kg)
Temperature range	Ambient +5°C to 99°C
Exterior dimensions (W x D x H)	14.9 x 11.4 x 9.0 in. (12.9 in. with cover) 38 x 29 x 23 cm (33 cm with cover)
Chamber dimensions	12.6 x 6.7 x 6.9 in. (32 x 17 x 18 cm)
Weight	19 lbs. (8.6 kg)

Ordering Information

Cat. No.	Description
6783	Digital water bath, 6L, 120V
6784	Digital water bath, 6L, 230V (EU and UK plug)

Corning LSE Digital Dry Bath Heater

A broad temperature range to 150°C makes Corning LSE digital dry bath heaters useful for a variety of applications in molecular biology, histology, clinical, environmental, and industrial laboratories. Models are available for one or two sample blocks, and a variety of blocks are available for different sample containers. Temperature and time accurately controlled by a microprocessor and shown on a large 4-digit LED display.

- ▶ Microprocessor control with large digital display for temperature and time
- ▶ Temperature accuracy of $\pm 0.3^\circ\text{C}$ and uniformity of $\pm 0.2^\circ\text{C}$
- ▶ Wide temperature set range from ambient +5°C to 150°C
- ▶ Corrosion-resistant block cavity



Single block digital dry bath heater



Double block digital dry bath heater

Cat. No.	Description	Block Capacity	Voltage	Plug	Weight	Dimensions (L x W x D)	Qty/Cs
6785-SB	LSE digital dry bath	Single	120V, 50/60Hz	US	4.8 lbs. (2.2 kg)	7.9 x 10.4 x 3.3 in. (20 x 26.5 x 8.3 cm)	1
6786-SB	LSE digital dry bath	Single	230V, 50/60Hz	EU	4.8 lbs. (2.2 kg)	7.9 x 10.4 x 3.3 in. (20 x 26.5 x 8.3 cm)	1
6787-SB	LSE digital dry bath	Single	230V, 50/60Hz	UK	4.8 lbs. (2.2 kg)	7.9 x 10.4 x 3.3 in. (20 x 26.5 x 8.3 cm)	1
6788-SB	LSE digital dry bath	Single	100V, 50/60Hz	JP	4.8 lbs. (2.2 kg)	7.9 x 10.4 x 3.3 in. (20 x 26.5 x 8.3 cm)	1
6785-DB	LSE digital dry bath	Dual	120V, 50/60Hz	US	4.8 lbs. (2.2 kg)	7.9 x 10.4 x 3.3 in. (20 x 26.5 x 8.3 cm)	1
6786-DB	LSE digital dry bath	Dual	230V, 50/60Hz	EU	4.8 lbs. (2.2 kg)	7.9 x 10.4 x 3.3 in. (20 x 26.5 x 8.3 cm)	1
6787-DB	LSE digital dry bath	Dual	230V, 50/60Hz	UK	4.8 lbs. (2.2 kg)	7.9 x 10.4 x 3.3 in. (20 x 26.5 x 8.3 cm)	1
6788-DB	LSE digital dry bath	Dual	100V, 50/60Hz	JP	4.8 lbs. (2.2 kg)	7.9 x 10.4 x 3.3 in. (20 x 26.5 x 8.3 cm)	1



Digital dry bath heater accessories

Accessories

Cat. No.	Description	Qty/Cs
480116	Single block, 48 x 0.2 mL PCR tubes or 6 x 0.2 mL strips	1
480117	Single block, 20 x 2.0 mL tubes	1
480118	Single block, 24 x 0.5 mL tubes	1
480119	Single block, 24 x 1.5 mL tubes	1
480120	Single block, 35 x 6 mm tubes	1
480121	Single block, 20 x 10 mm tubes	1
480122	Single block, 20 x 12 mm tubes	1
480123	Single block, 20 x 13 mm tubes	1
480124	Single block, 12 x 15 mL centrifuge tubes	1
480125	Single block, 12 x 16 mm tubes	1
480126	Single block, 12 x 17 mm tubes	1
480127	Single block, 6 x 20 mm tubes	1
480128	Single block, 6 x 25 mm tubes	1
480129	Single block, 5 x 50 mL centrifuge tubes (for single block unit only)	1
480130	Single block, 96-well PCR microplate, skirted or nonskirted	1
480131	Dual block, 96-well microplate or 4 slides (for dual block unit only)	1
480132	Dual block, 96-well PCR microplate, skirted, or nonskirted (for dual block unit only)	1
480133	Dual block, 384-well PCR microplate (for dual block unit only)	1

Corning® Digital Hot Plates, Stirrers, and Stirring Hot Plates

Corning digital hot plates, stirrers, and stirring hot plates are made with the same durability and quality Corning has been putting into Pyroceram® top products since 1964. All models include a Pyroceram top and a two-year warranty.

- ▶ Twin display stirring hot plate shows both temperature and stirring speed on separate digital displays to ensure accuracy
- ▶ Temperature accuracy within $\pm 2^{\circ}\text{C}$ and stirring speeds at $\pm 5\%$ of the speed setting you choose
- ▶ Digital displays indicate when set temperature and stirring speeds are reached
- ▶ Safety indicators – power button and hot top indicators warn if unit is plugged in or is too hot to touch
- ▶ Angled front panel and large knobs minimize damage from spills
- ▶ PC-400D/410D/420D top plate size: 5 x 7 in. (12.7 x 17.8 cm)
- ▶ PC-600D/610D/620D top plate size: 10 x 10 in. (25.4 x 25.4 cm)



Model PC-400D



Model PC-410D

Digital Hot Plates

Cat. No.	Model	Voltage	Temperature Range	Dimensions (L x W x D)
6795-400D	PC-400D	120V/60Hz	5°C - 550°C	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6795-600D	PC-600D	120V/60Hz	5°C - 550°C	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)
6796-400D*	PC-400D	230V/50Hz	5°C - 550°C	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6796-600D*	PC-600D	230V/50Hz	5°C - 550°C	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)
6797-400D	PC-400D	100V/60Hz	5°C - 550°C	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6797-600D	PC-600D	100V/60Hz	5°C - 550°C	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)
6798-400D	PC-400D	230V/50Hz	5°C - 550°C	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6798-600D	PC-600D	230V/50Hz	5°C - 550°C	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)

Digital Stirrers

Cat. No.	Model	Voltage	Stir Range (rpm)	Dimensions (L x W x D)
6795-410D	PC-410D	120V/60Hz	60 - 1,150	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6795-610D	PC-610D	120V/60Hz	60 - 1,150	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)
6796-410D*	PC-410D	230V/50Hz	60 - 1,150	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6796-610D*	PC-610D	230V/50Hz	60 - 1,150	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)
6797-410D	PC-410D	100V/60Hz	60 - 1,150	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6797-610D	PC-610D	100V/60Hz	60 - 1,150	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)
6798-410D	PC-410D	230V/50Hz	60 - 1,150	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6798-610D	PC-610D	230V/50Hz	60 - 1,150	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)

Digital Stirring Hot Plates

Cat. No.	Model	Voltage*	Temperature/ Stir Range (rpm)	Dimensions (L x W x D)
6795-420D	PC-420D	120V/60Hz	5°C - 550°C/60 - 1,150	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6795-420KIT [†]	PC-420D	120V/60Hz	5°C - 550°C/60 - 1,150	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6795-620D	PC-620D	120V/60Hz	5°C - 550°C/60 - 1,150	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)
6795-620KIT [†]	PC-620D	120V/60Hz	5°C - 550°C/60 - 1,150	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)
6796-420D*	PC-420D	230V/50Hz	5°C - 550°C/60 - 1,150	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6796-620D*	PC-620D	230V/50Hz	5°C - 550°C/60 - 1,150	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)
6797-420D	PC-420D	100V/60Hz	5°C - 550°C/60 - 1,150	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6797-620D	PC-620D	100V/60Hz	5°C - 550°C/60 - 1,150	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)
6798-420D	PC-420D	230V/50Hz	5°C - 550°C/60 - 1,150	4.3 x 7.7 x 11 in. (10.8 x 19.7 x 28 cm)
6798-620D	PC-620D	230V/50Hz	5°C - 550°C/60 - 1,150	4.6 x 7.7 x 15.4 in. (11.75 x 19.7 x 39.1 cm)

*6795-420KIT and 6795-620KIT include the 120V stirring hot plate plus temperature controller, support rod, and stir bar retriever.

°C €



Model PC-420D

Corning® Analog Hot Plates, Stirring Hot Plates, and Stirrers

PC-200 Hot Plates

Corning's exclusive glass-ceramic Pyroceram® top is standard.

- ▶ Micro-chemistry size
- ▶ Hot top indicator light
- ▶ 2-year warranty



Cat. No.	Model	Power	Top Size	Temperature	Weight	Dimensions (H x W x D)
6795-200	PC-200	120V/60Hz/ 253W/2.1A	4" x 5"	77°F - 896°F (25°C - 480°C)	4 lbs. (1.8 kg)	4.4 x 5.8 x 7.3 in. (11.2 x 14.7 x 18.5 cm)
6796-200*	PC-200	230V/50Hz/ 253W/1.1A	4" x 5"	77°F - 896°F (25°C - 480°C)	4 lbs. (1.8 kg)	4.4 x 5.8 x 7.3 in. (11.2 x 14.7 x 18.5 cm)
6797-200	PC-200	100V/60Hz/ 253W/2.1A	4" x 5"	77°F - 896°F (25°C - 480°C)	4 lbs. (1.8 kg)	4.4 x 5.8 x 7.3 in. (11.2 x 14.7 x 18.5 cm)

*230 volt 6796 hot plate comes with UK plug.

Corning Scholar® PC-170 Hot Plates



An economically priced hot plate that has a white enameled steel top plate that provides heat transfer up to 360°C. Dual heat shields dissipate heat and keep the case cool to the touch.

- ▶ Compact, saves on bench space
- ▶ UL/CUL approved
- ▶ 1-year warranty

Cat. No.	Model	Power	Top Size	Temperature	Weight	Dimensions (H x W x D)
6795-170	PC-170	120V/60Hz/ 250W/2.1A	5" x 5"	140°F - 680°F (60°C - 360°C)	3 lbs. (1.3 kg)	4 x 5 x 5 in. (10.2 x 12.7 x 12.7 cm)
6796-170	PC-170	230V/50Hz/ 250W/1.1A	5" x 5"	140°F - 680°F (60°C - 360°C)	3 lbs. (1.3 kg)	4 x 5 x 5 in. (10.2 x 12.7 x 12.7 cm)
6797-170	PC-170	100V/60Hz/ 250W/2.5A	5" x 5"	140°F - 680°F (60°C - 360°C)	3 lbs. (1.3 kg)	4 x 5 x 5 in. (10.2 x 12.7 x 12.7 cm)

*230 volt 6796 hot plate comes with UK plug.

PC-220 Hot Plate/Stirrers



Hot plate/stirrer units come with Corning's exclusive Pyroceram top.

- ▶ Micro-chemistry size
- ▶ Hot top indicator light
- ▶ Glass ceramic top
- ▶ 2-year warranty

Cat. No.	Model	Power	Top Size	Stir Range (rpm)	Temperature	Weight	Dimensions (L x W x D)
6795-220	PC-220	120V/60Hz/ 283W/2.4A	4" x 5"	60 - 1,100	77°F - 896°F (25°C - 480°C)	5.0 lbs. (2.3 kg)	4.4 x 5.8 x 7.3 in. (11.2 x 14.7 x 18.5 cm)
6796-220*	PC-220	230V/50Hz/ 288W/1.3A	4" x 5"	60 - 1,100	77°F - 896°F (25°C - 480°C)	5.0 lbs. (2.3 kg)	4.4 x 5.8 x 7.3 in. (11.2 x 14.7 x 18.5 cm)
6797-220	PC-220	100V/60Hz/ 280W/2.8A	4" x 5"	60 - 1,100	77°F - 896°F (25°C - 480°C)	5.0 lbs. (2.3 kg)	4.4 x 5.8 x 7.3 in. (11.2 x 14.7 x 18.5 cm)

*230 volt 6796 hot plate/stirrer comes with UK plug.

PC-210 Stirrers



PC-210 stirrers come with Corning's Pyroceram® top.

- ▶ Micro-chemistry size
- ▶ 2-year warranty

Cat. No.	Model	Power	Top Size	Stir Range (rpm)	Weight	Dimensions (L x W x D)
6795-210	PC-210	120V/60Hz/ 33W/0.3A	4" x 5"	60 - 1,100	4.5 lbs. (2 kg)	4.4 x 5.8 x 7.3 in. (11.2 x 14.7 x 18.5 cm)
6796-210*	PC-210	230V/50Hz/ 38W/0.17A	4" x 5"	60 - 1,100	4.5 lbs. (2 kg)	4.4 x 5.8 x 7.3 in. (11.2 x 14.7 x 18.5 cm)
6797-210	PC-210	100V/60Hz/ 30W/0.3A	4" x 5"	60 - 1,100	4.5 lbs. (2 kg)	4.4 x 5.8 x 7.3 in. (11.2 x 14.7 x 18.5 cm)

*230 volt 6796 stirrer comes with UK plug.

PC-611 Stirrer

The PC-611 is designed to stir large volumes of liquid with ease. The stirrer is designed for 5 gallon vessels (19L) but can stir up to 10 gallons. This powerful stirring is achieved with a very compact design that conserves bench space. The stirrer uses a magnet that is constructed out of rare earth metals for exceptional coupling strength. The magnet's strength also centers the stir bar quickly inside the vessel. Heavy duty motor and rugged plastic (ABS) top will provide years of reliable service. UL/CUL approved, one year warranty. Special features: The PC-611 achieves vigorous stirring with a more compact unit at a lower cost than competitive units. This high volume stirrer can handle many applications that previously required an overhead stirrer.

Cat. No.	Model	Power	Top Size	Stir Range (rpm)	Weight	Dimensions (L x W x D)
6795-611	PC-611	120V/50-60Hz/ 144W/1.2A	11" x 11"	100 - 1,500	11.0 lbs. (5 kg)	4.8 x 12.0 x 14.4 in. (1.9 x 4.7 x 5.7 cm)

Corning® Scholar® PC-171 Stirrer

The Corning Scholar PC-171 stirrer provides compact design, vigorous stirring with alternating current motor for longer life and rugged construction. UL/CUL approved, 1-year warranty.

Cat. No.	Model	Power	Top Size	Stir Range (rpm)	Weight	Dimensions (L x W x D)
6795-171	PC-171	120V/60Hz/ 30W/0.25A	5" x 5"	100 - 1,600	4 lbs. (1.8 kg)	3.2 x 5.0 x 5.0 in. (1.3 x 2 x 2 cm)

SS2I Stirrer

One-position slow speed stirrer with integral control to accommodate up to a 2L vessel. One-position model allows the user to spend less and save valuable bench space compared to multiple-position units. Integral speed control and glass-filled resin platform material.

Cat. No.	Model	Power	Speed Range (rpm)	No. Pos.	Nom. Stir Vol. per Pos.	Max. Vessel Diam. (mm)	Dimensions (mm) (L x W x D)	Weight (kg)	Motor Type
440811	SS2I	120V/ 60Hz	10 - 150	1	2L	150	150 x 150 x 70	0.9	DC, stepper

SS10I Stirrer

One-position slow speed stirrer with integral control to accommodate up to a 10L vessel. Smooth reliable stirring at slow speeds helps promote healthy cell growth. Integral speed control and glass-filled resin platform material.

Cat. No.	Model	Power	Speed Range (rpm)	No. Pos.	Nom. Stir Vol. per Pos.	Max. Vessel Diam. (mm)	Dimensions (mm) (L x W x D)	Weight (kg)	Motor Type
440812	SS10I	120V/ 60Hz	10 - 150	1	10L	280	260 x 260 x 70	2.6	DC, stepper

SS4I Stirrer

Four-position slow speed stirrer with integral control to accommodate up to four 1L vessels. Multiple positions allow the user to duplicate stirring conditions in up to four vessels. Integral speed control and glass-filled resin platform material.

Cat. No.	Model	Power	Speed Range (rpm)	No. Pos.	Nom. Stir Vol. per Pos.	Max. Vessel Diam. (mm)	Dimensions (mm) (L x W x D)	Weight (kg)	Motor Type
440814	SS4I	120V/ 60Hz	10 - 150	4	1L	130	260 x 260 x 70	3	DC, stepper

MP4I, MP5I, and MP9I Multiple Position Stirrers with Integral Control



Corning now offers stirrers that stir up to nine vessels at the same time. These stirring platforms come in 4-, 5-, and 9-position models. The unit's magnets and DC motor provide smooth, well-coupled stirring up to 2,000 rpm. The speed of all positions on the units is set simultaneously with the integral knob. Integral speed control and glass-filled resin platform material.

Cat. No.	Model	Power	Speed Range (rpm)	No. Pos.	Nom. Stir Vol. per Pos.	Max. Vessel Diam. (mm)	Dimensions (mm) (L x W x D)	Weight (kg)	Motor Type
440824	MP4I	120V/60Hz	350 - 2,000	4	1L	130	260 x 260 x 70	3.1	DC
440825	MP5I	120V/60Hz	350 - 2,000	5	400 mL	95	260 x 260 x 70	3.2	DC
440826	MP9I	120V/60Hz	350 - 2,000	9	250 mL	75	260 x 260 x 70	3.8	DC

Stir Bars and Stir Bar Retriever



Corning® magnetic stir bars are polytetrafluoroethylene (PTFE)-coated for increased chemical resistance. The Corning stir bar retriever contains a strong magnet to remove a stir bar from all glass and plastic containers used in the laboratory. The container must be taken off the magnetic stirrer before using the retriever as the high powered magnet in the stirrer cancels out the one in the retriever. The handle is designed for ergonomic and easy retrieval.

Cat. No.	Description	Use with Model	Qty/Pk	Qty/Cs
400430	Stir bar, 3/8" x 2"	PC-610D/620D	1	1
401435	Stir bar, 3/8" x 1"	PC-210/220/410D/420D	1	1
6970SR	Magnetic stir bar retriever	All Corning stirrers and hot plate/stirrers	1	1

Temperature Controller and Accessories

When used with the digital hot plate or stirring hot plate, the external temperature controller ensures precision temperature accuracy of the liquid inside the vessel as opposed to the temperature of the hot plate top.



Digital hot plate accessories

Cat. No.	Description	Use with Model
6795-PR*	Temperature controller for digital hot plates and stirring hot plates	PC-400D/420D/600D/620D
6795KIT	Accessory kit Includes: External temperature controller (Cat. No. 6795PR), 18" support rods (Cat. No. 440129), and stir bar retriever (Cat. No. 6970SR)	PC-400D/420D/600D/620D
440129	Stainless steel support rod, two 9" (45.7 cm) rods, 5/16" diameter. Rods can be screwed together to 18"	All digital and PC-200/210/220
409831	Stainless steel support rod, 24" (61.0 cm), 7/16" diameter	PC-600D/610D/620D
400084	Stainless steel support rod, 12" (30.5 cm), 5/16" diameter	All digital and PC-200/210/220
440140†	Boss head clamp for use with 5/16" support rod and holding rod	All hot plates with 5/16" or smaller support rod
440141	Holding rod, thermocouple, stainless steel	All hot plates

*Temperature controllers are not available for use with stirrer only units.

†Bosshead clamps to support rod; holding rod connects to bosshead. Temperature controller slides into holding rod.

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