

## Lab-Line Incubators

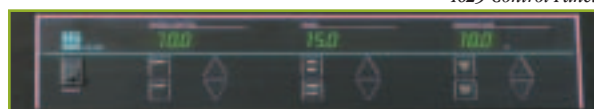


# The Force Refrigerated Benchtop Incubator Shakers



Model 4629

4629 Control Panel



**Includes Two FREE  
Stainless Steel Shelves**

### Product Description

- Three easy-to-read LED displays indicate speed, temperature and shaking time (accumulated time when in continuous mode; time remaining in timed cycle model).
- Corrosion-resistant stainless steel chamber accommodates a variety of available 18" x 18" (46 x 46 cm) universal and dedicated platforms for greater versatility.
- Durable powder coated cold rolled steel exterior construction.
- Supplied with two perforated stainless steel shelves.

## Large Chamber Will Accommodate Flasks Up to 6 Liters!

- Excellent  $\pm 0.1^\circ\text{C}$  temperature control with PID control
- Overspeed safety stops shaker if rpm set point is exceeded
- View temperature, speed and time simultaneously on three separate LED displays
- ☆ 5 year warranty on parts, 1 on labor and LIFETIME on drive mechanism

### Digital Operating Systems

- Triple eccentric drive handles heavy workloads, provides uniform agitation and enables continuous 24-hour operation, even at high speeds.
- Solid state DC motor, variable speed control from 15 to 500 rpm with a 0.75" (1.91 cm) circular orbit.
- PID microprocessor temperature controller precisely controls temperature from  $5^\circ\text{C}$  to  $60^\circ\text{C}$  with  $\pm 0.1^\circ\text{C}$  accuracy over entire temperature range.
- Operate shaker in continuous mode or set timer from 0.1 hour up to 99.9 hours or 0.1 minute to 99.9 minutes.
- Set point retention retains parameters during power failure and restarts unit automatically after power is restored.
- Unit shuts down and audible/visual signal if unit exceeds rpm set point.
- Visual/audible signals alert you if temperature deviates from set points.

### Safety

- Temperature safety feature with independent thermostat provides high and low limit backups by controlling temperature if main temperature controller fails.
- Safety interlock stops shaking motion when the door is open.

### Applications

- Cell culture
- Genetic research
- Increasing solubility rates
- Bacterial aeration
- Hybridizations
- Metabolism studies

For a complete system order:

1. Shaker
  2. Platform
  3. Clamps
- See pages 246-249 for platforms and clamps.

### PRODUCT SPECIFICATIONS

Orbit Diameter Inches (cm)	Temperature Control at $37^\circ\text{C}$ (in flask)	Temperature Uniformity at $37^\circ\text{C}$ (in flask)	Chamber Dimensions Inches (cm)			Overall Dimensions Inches (cm)			Maximum Load Lb. (kg)	Speed Range (rpm)	Shipping Weight Lb. (kg)
			W	H	D	W	H	D			
0.75" (1.91)	$\pm 0.1^\circ\text{C}$	$\pm 0.2^\circ\text{C}$	22 (56)	19.5 (50)	22 (56)	24.75 (63)	44.3 (1131)	26.4 (67)	75 (34)	15-500	420 (191)

### ORDERING INFORMATION

Model #	Electrical				Operating Temp Range $^\circ\text{C}$	US List Price
	Volts	Amps	Hz	Watts		
4629	120	9.0	60	1080	$5^\circ$ to $60^\circ\text{C}$	\$9,112.00
4629-1	240	4.5	50	1080	$5^\circ$ to $60^\circ\text{C}$	\$9,112.00
4639	120	6.4	50/60	780	Ambient $+5^\circ$ to $60^\circ\text{C}$	\$6,750.00
4639-1	240	3.2	50/60	780	Ambient $+5^\circ$ to $60^\circ\text{C}$	\$6,750.00