# 6 SPECIFICATIONS

This chapter provides technical details of interest, but not necessarily essential for operation of the instrument.

SHAKING			
Speed	25-500 RPM		
Motion	1 inch (25.4 mm) diameter circular orbit		
Indication	LED digital electric display, 1 RPM increments		
Setpoint & Control	Digital adjustment with PI microprocessor control and instantaneous		
	visual feedback		
Accuracy	± 1 RPM		
DRIVE			
Triple eccentric counterbalanced ball bearing drive.			
TEMPERATURE			
Range	5.0°C above ambient to 60°C		
Control Stability	± 0.1°C by use of PI microprocessor controller and pulse width		
	modulation of heater		
Setpoint	Digital adjustment increments within 0.1°C instantaneous visual feedback		
Accuracy	± 0.1° @ 30-40°C range		
	± 0.25°C for remaining range		
Uniformity	Better than ± 0.25°C over entire range		
Safety	Heater shuts off if temperature exceeds operating range		
Heater	Low watt density resistance heater with high temperature safety		
	thermostat		
TIMED (Shakar)			

# TIMER (Shaker)

- Programmable shaking periods from 0.1 hour to 99.9 hours by a digital timer that shuts off at the end of period and energizes status light.
- Timer counts down and digital display indicates remaining time. Can be deactivated for continuous operation.
- Additionally, unit will display total accumulated running time for service information.

#### AMBIENT OPERATING ENVIRONMENT

0° - 40°C, 90% humidity, non-condensing

#### **SELF-DIAGNOSTIC STATUS**

Warning signal (audible and visible) indicates when shaking speed deviates more than 5 RPM or the temperature deviates more than 1.0°C from setpoint and when timer operation has expired. The audible alarm can be deactivated/activated by the operator.

#### **REMOTE MONITORING**

- Chart recorder outputs for speed and temperature (0-5V).
- 1V per 100 RPM; 1V per 20°C, accuracy ± 25mV.

#### **AUTOMATIC RESTART**

- Unit will automatically restart after undesired power interruption.
- Setpoints are maintained by non-volatile memory.
- Interruption is indicated by a flashing display.

#### **AUTOMATIC DRIVE**

Interrupt when lid is opened.

## **MOTOR**

1/8 HP, 3-phase brushless ball bearing DC motor.

#### **ELECTRICAL SERVICE**

- 100V, 120V, 220V, 240V
- 50 or 60 Hz
- 700 VA Universal power entry system adapts to U.S. or International requirements.

DIMENSIONS				
Width	43 inches	109 cm		
Depth	28 inches	71 cm		
Height	37 inches	94 cm		
PLATFORM DIMENSIONS				
	18 inches x 30 inches	46 cm x 74.6 cm		
CHAMBER DIMENSIONS (Interior)				
Width	34¾ inches	88.3 cm		
Depth	221/4 inches	56.6 cm		
Clearance (above	191/4 inches	48.9 cm		
platform)				
CONSTRUCTION				

### **CONSTRUCTION**

- Heavy gauge steel, phosphate-coated and texture-painted cabinet.
- 17-inch hermetically sealed double-pane viewing window for complete chamber visibility.
- Stainless steel chamber (interior).

WEIGHT				
Net	398 lbs	181 kg		
Gross	490 lbs	223 kg		