



Model 630D / 631D / 632D



## Features & Benefits

- CFC free refrigeration
- Microprocessor-PID controller which makes it easy to achieve and maintain the exact temperature desired.
- Set temperature easily and accurately with push-buttons.
- LED dual-display screen displays both the set and actual temperatures.
- Back-up system memory protects the set point value in case of power failure.
- With individually built-in circuit breakers for both heater and refrigerator ensure long lasting operations.
- Compressor with overload protection.
- Immersed parts are made of long-life stainless steel
- With inlet/outlet nozzles for external circulation
- Auto diagnostic system integrated in the controller ensures rapid identification and correction in the event of any error.
- Off-set function for calibration use. Important for ISO/Calibration requirement.
- Supplied with two meter power cord and grounded plug.
- 631D/632D/633D/634D models are supplied with ELCB as standard.

## General Features

- Five models
- Circulating bath with built-in refrigeration
- Temperature range  $-20^{\circ}\text{C}$  to  $100^{\circ}\text{C}$
- 7 to 50 litres capacities
- For open or closed applications
- High capacity with wide lid opening (up to 345mm x 320mm) for sample incubation

## Applications

- General laboratory cooling
- Spectrophotometer
- Densitometer
- Electrophoresis
- Calibration
- Distillation
- Fermentors
- Refractometers
- Evaporator
- Polarimeters
- Chromatography
- Iso electric focusing

## Specifications

MODEL	630D	631D	632D	633D	634D
Temp. working range	-20 to $100^{\circ}\text{C}$	-20 to $100^{\circ}\text{C}$	-20 to $100^{\circ}\text{C}$	-20 to $100^{\circ}\text{C}$	0 to $100^{\circ}\text{C}$
Controller	PID controller				
Accuracy	$\pm 0.1^{\circ}\text{C}$				
Setting and display	Digital, read out to $0.1^{\circ}\text{C}$				
Thermo sensor	PT-100				
Heater	960 watt	960 watt	1500 watt	1500 watt	2000 watt
Safety devices	Built-in circuit breakers for heater and refrigerator, built-in overload protection for compressor				
Compressor	1/5 Hp	1/5 Hp	1/4 Hp	1/2 Hp	0.75Hp
Refrigerant	CFC Free R-134A				
Stirring	By built-in circulating pump				
External circulation	By liquid transfer pump				N.A.
Flow rate	8 litres/min				
Outlet and inlet	8 mm dia.				
Bath dimensions (mm)	160Wx290Dx150H	160Wx290Dx150H	273 Wx400Dx155H	320Wx500Dx200H	450Wx325Dx335H
Bath capacity	7 litres	7 litres	16 litres	33 litres	50 litres
Lid opening area (mm)	140W x 150D	150W x 100D	200W x 200D	300W x 300D	345W x 320D
Overall dimensions (mm)	570Wx490Dx440H	365Wx500Dx660H	415 Wx620Dx745H	420Wx680Dx745H	780Wx430Dx1020H
Power source	240VAC, 50Hz, 5.7A	240 VAC, 50Hz, 5.9A	240VAC, 50Hz, 9.4A	240VAC, 50Hz, 9.8A	240VAC 50Hz, 12.3A
Weight	42kg	38kg	55kg	56kg	77.5kg