## If you have problems

If you have problems using the unit, follow these general procedures to track down the cause from the symptoms you are experiencing. If an error message appears on the display, refer to the specific error in this chart.

If the problem is not resolved using the table below, Contact technical support at 1-800-926-0505.

If you are having this	This might be the cause	
No power indication	Unit not plugged in; no power at the outlet; incorrect power (make sure outlet matches label on back of unit); defective power cord; defective power switch or fuse (s). (call Technical Support).	
No heating	Setpoint or backup not set properly; defective heater or controller (call Technical Support).	
Always heating; temperature greater than	Defective controller (call Technical Support).	
Very slow heating of samples	Empty tank or extremely low liquid level in tank (add liquid to the tank to improve heating).	
Unit heating up slower than normal	Defective controller (call Technical Support).	
Alarm light on constantly	Setpoint or backup not set properly; defective primary controller (call Technical Support).	
Display not correct	Temperature F or C set in error; temperature not calibrated (perform calibration procedure with thermometer); defective controller (call Technical Support).	
Erratic operation	Broken internal electrical connection; defective heater or controller (call Technical Support).	
Error message: E1	Failure of temperature sensor or controller (call Technical Support).	
Error message: E2	Failure of controller (call Technical Support).	
Display shows LLLL at power-up.	Wrong voltage, Controller not set up properly (call Technical Sup- port).	

## **Specifications**

These are nominal specifications. Fisher reserves the right to change specifications or designs at any time without incurring obligation.

Power requirements 120 VAC or 230 VAC  $\pm$  10%,

50 or 60 Hz

Ambient conditions +4°C to +35°C,

up to 75% relative humidity

Temperature range Cover open: Ambient to 60 °C Cover closed: Ambient

to 100°C

Control ±0.1°C between ambient

and 100°C

Uniformity  $\pm 0.24$ °C at 37°C

Stability  $\pm 0.5$ °C at 37°C

\*Max. Altitude 2000m

\*Over Voltage II (IEC 664)

Category

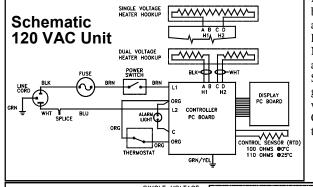
\*Pollution Degree 2 (IEC 664)

\*CE Products meet the relevant EC harmonized standards for safety (IEC1010-1/EN61010 and EMC (EN55014, EN55104, EN61000-4-2, -4-4, -4-6, -4-11and ENV50140)

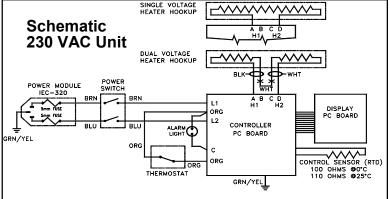
## Replacement Parts

**WARNING:** To avoid electrical shock, always disconnect from power supply before maintenance and servicing. Refer servicing to qualified personnel.

Item		Part No.
Cover, 2 liter	Plastic Lid	SPN102304
,	Stainless Steel Lid	15-462-32
Cover, 2 liter shallow and 5 liter		
Plastic Lid		SPN102305
	Stainless Steel Lid	15-462-33
Cover, 10 liter	Plastic Lid	SPN102306
~	Stainless Steel Lid	15-462-34
Cover, 20 and 28 liter Plastic Lid Stainless Steel Lid		SPN102307 15-462-35
Hinge, lid (for 2 liter)		SPN102383
Hinge, rim (for 2 liter)		SPN102384
Hinge, lid (for all except 2 liter)		SPN102386
Hinge, rim 28L and Dual Models)		SPN102387
Hinge, rim (for 2S, 5, 10 & 20 liter)		SPN102459
Clip, thermometer (for 2L shallow)		SPN102423
Clip, thermometer (all except 2LS)		SPN102424
Microbicide, 8 oz. Bottle		13-641-337
Pump, Siphon		SPN102391
Controller PC board (120V)		SPN102419
Controller PC Board (230V)		SPN104068
Display PC board		SPN102420
Controller, safety		SPN102499
Sensor, RTD		SPN102331
Diffuser Tray, 2 liter		SPN102352
Diffuser Tray, 2L shallow or 5 liter		SPN102353
Diffuser Tray, 10 liter		SPN102354
Diffuser Tray, 20 or 28 liter		SPN102355
Fuse, Type 3AG 1.25x.25, 10 Amp		SPN45920
Fuse, 5x20mm, F5 4 250V		SPN102487



Note: The Stainless steel water bath cover was designed as an alternate to the see through Plastic (polycarbonate) cover. No material is impervious to attack by all chemicals. The Stainless lids are made of a good quality 304 stainless steel which is the same as the tank. Clean with mild soap and water. Rinse with clear tap water.



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<sup>\*</sup>Applies to 230V units only