



# Trouble Shooting Guide

## EWA, 1-phase (D2518)



## Trouble Shooting Guide

Problem	Possible Cause	Possible Remedy
Unit does not start	No power to unit, breaker tripped  Low voltage  Loose wire  Defective contactor or coil	Check power source, close breaker after correcting fault  Check electrical service to unit  Disconnect power to unit, then check wiring  Repair or replace contactor or coil
Unit does not cool	Insufficient flow of Facility Water  Facility Water too warm  Microprocessor programmed incorrectly  Cooling load exceeds capacity of unit  Microprocessor failure	Increase flow of Facility Water  Provide cooler Facility Water  Reprogram microprocessor - Call Lydall  Reduce cooling load  Replace microprocessor
Pump leaks	Faulty pump casing  Shaft seal damaged  Pump housing O-Ring damaged	Replace pump assembly  Replace shaft seal  Remove pump and rebuild
Excessive noise on Start-Up	Low voltage  Wrong voltage taps used on transformer  Contactor or coil failure	Check electrical service to unit  Connect to proper transformer taps  Replace contactor or coil
Level light remains on	Low coolant level  Reservoir level switch float stuck	Check for leaks, then fill reservoir  Clean reservoir and level switch

<b>Problem</b>	<b>Possible Cause</b>	<b>Possible Remedy</b>
Level light remains on (continued)	Time delay relay malfunction (when used) Level switch failure	Replace time delay relay Replace level switch
Level light does not work	Time delay relay has not timed out (when used) Lamp burned out Level switch failure	Wait for time delay relay to time out Replace lamp Replace level switch
Fault light remains on	Low coolant flow No coolant flow Flow switch sticking	See Problem; Low coolant flow See Problem; No coolant flow Disassemble flow switch, clean and reinstall, or replace
Pump motor overheats	Pump overload protection set too high Improper voltage supplied	Reset pump thermal overload relay, or replace if faulty Correct voltage
Low coolant flow	Pump suction strainer clogged Flow control valve not fully open Restriction in coolant lines external to unit Flow switch clogged Pressure relief valve set too low (unless not adjustable)	Remove strainer, clean and reinstall Open flow control valve Eliminate restriction in coolant lines external to unit Disassemble flow switch, clean and reinstall, or replace flow switch Adjust pressure relief valve to specifications
No coolant flow	Pump not primed Pump suction strainer clogged	Prime pump Remove strainer, clean and reinstall

<b>Problem</b>	<b>Possible Cause</b>	<b>Possible Remedy</b>
No coolant flow (continued)	No coolant in reservoir Pump overload tripped Pump motor shaft bound to seal Pump housing improperly torqued Damaged pump Clogged line or closed valve in external piping Leak(s) in external piping	Check for leaks, then fill reservoir Wait 5 minutes for overload to reset Replace pump or renew seal Remove pump, torque to specifications, test, and reinstall Replace pump Check external piping for dirt or closed valve Repair any leaks
Unit shuts down during operation	Pump overload setting too low Facility Water too warm Pump overload tripped Low voltage	Adjust and reset pump thermal overload relay to specifications, or replace if faulty Provide cooler Facility Water Determine cause for trip, if pump is damaged, repair and reinstall or replace Check electrical service to unit
Temperature display reads incorrectly	Loose wire Broken RTD Microprocessor failure	Disconnect power to unit, then check wiring Replace RTD Replace microprocessor
Unit cools well below Set-Point	Microprocessor programmed incorrectly Solid State Relay failure Microprocessor failure	Reprogram microprocessor - Call Lydall Replace Solid State Relay Replace microprocessor

Problem	Possible Cause	Possible Remedy
Too much recirculating pressure to process	Flow control valve set too high  Pressure relief valve set too high (unless not adjustable)	Throttle flow control valve  Adjust pressure relief valve
Microprocessor does not work	5 second delay has not timed out  Microprocessor programmed incorrectly  Microprocessor failure	Wait at least 5 seconds after turning on  Reprogram microprocessor - Call Lydall  Replace microprocessor