

## TECHNICAL SERVICE DEPARTMENT Technical Service Bulletin 1-800-432-8373



## **Residential Electric Troubleshooting Table**

NATURE OF TROUBLE	POSSIBLE CAUSES	SERVICE
No Hot Water	1. Manual switch turned off	Turn to ON
	2. Blown fuse of breaker	Replace or reset
	3. High limit switch tripped	Manually reset ECO button
	4. Upper Thermostat defective	Check and replace
	5. Upper Element Defective	Check and replace
	6. Grounded thermostat	Check and replace
	7. Thermostat out of calibration	Check, tighten and replace
	8. Improper wiring	Check and replace
	a. Shorted or loose wiring	-
	b. Undersized service wire	Rewire per wiring diagram
Not Enough Hot Water	1. Thermostat set too low	Increase Thermostat setting not to exceed
		120 degrees
	2. Defective lower element	Check and replace
	3. Defective lower thermostat or	Check and replace
	miswired thermostat	
	4. Improper wiring	Rewire per wiring diagram
	5. Loose wiring	Check and tighten
	6. Improper heating elements	Check wattage and replace
	7. Scale formation on heating elements	Check elements; clean or replace
	8. Thermostat not flush with tank	
		Position thermostat so back touches the
	9. Poor grounding of tank	tank
	10. Heater is undersized	Check grounding and tighten
	11. Damaged dip tube	Resize residence and compare
		Check and replace
Water too hot	1. Thermostat setting too high	Lower thermostat setting
	2. Thermostat out of calibration	Check and replace
	3. Thermostat not flush with tank	Position thermostat so back touches the
	4. Grounded element	tank
		Check and replace
Slow hot water recovery	1. Heating elements too small	Check wattage and replace
	2. Lower thermostats is defective	Check lower thermostats and replace
Noisy heating element	1. Scale build-up on elements	Remove, clean or replace
	2. High watt density elements in the	Install low watt density elements
	heater	
Excessive relief valve	1 Evogenius water processo	Install proper pressure reducing value or
	1. Excessive water pressure	Install proper pressure reducing valve on cold side
operation		
		Check for open or closed system. Install expansion tank
		CAPAIISION LAIK
	2. Excessive temperature	Check thermostat; lower setting or
		replace
Rusty or black water	1. Scale formation on elements	Clean or replace elements
	2. Anode rod dissolved	Check anode rod and replace
	3. Excessive sediment build-up	Try to drain tank; replace tank if sediment
	The second se	build up is excessive



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Water heater is leaking	1. Cold in or hot out joints	Check joint and repair
	2. T&P valve	Check valve and replace
	3. Heating elements and gaskets	Check, tighten and replace
	4. Inner tank has a pin hole	Replace water heater
Smelly water (rotten egg	Bacteria formation inside water tank	Clean tank using chlorine bleach
odor)		Replace anode rod if deteriorated
		Add automatic chlorine feeder to cold
		water inlet side of tank
Milky water	Aerated water	Allow a glass of hot water to set for a few
		minutes. If the water turns clear, the
		condition is a natural occurrence.