

COMMON PROBLEMS FOR GAS MODELS

CONDITION	CAUSE	REMEDY	CONDITION	CAUSE	REMEDY
Burner will not ignite. Burner flame floats - lifts	No gas. Dirt in gas line. Pilot line clogged. Main burner line clogged. Defective thermocouple. Defective thermostat. Thermostat set too low. Heater installed in confined area. High gas pressure.	Check with utility. Notify utility - install dirt trap in gas lines. Clean - check for source of trouble and correct. Clean - check for source of trouble and correct. Replace with new thermocouple. Replace with new thermostat. Turn temperature knob to desired temperature. Provide ventilation by use of louvers in wall or duct. Check with utility.	Insufficient hot water.	Low gas pressure. Orifice too small. Improper calibration. Thermostat set too low. Heater too small for job. Sediment or lime in tank. Leaking faucets. Wasted hot water. Long runs of exposed piping.	Check with utility. Replace with correct valve. Replace control valve. Turn temperature knob to desired temperature. Install adequate heater. Drain - check to see if water treatment is necessary. Repair faucets. Advise customer. Insulate.
off ports.	Orifice too large. Flue clogged. Heater installed in confined area. Cold drafts.	Replace with correct orifice. Clean - check for source of trouble and correct. Provide ventilation by use of louvers in wall or duct. Check source and correct.	Slow hot water recovery.	Hot water piping in outside wall. Insufficient secondary air. Low gas pressure. Orifice too small.	Insulate. Provide ventilation to heater. Check with utility. Replace with correct orifice.
Burner flame yellow, lazy.	Insufficient secondary air. Flue clogged. Main burner line clogged. Heater installed in confined area.	Provide ventilation to heater. Clean - check for source of trouble and correct. Clean - check for source of trouble and correct. Provide ventilation by use of louvers in wall or duct.		Thermostat set too low. Sediment or lime in tank. Heater too small for job. Wrong piping connection. Wasted hot water.	Turn temperature knob to desired temperature. Drain - check to see if water treatment is necessary. Install adequate heater. Correct piping - dip tube must be in cold inlet. Advise customer.
Burner flame too high.	Insufficient secondary air. Orifice too large. Defective thermostat.	Provide ventilation to heater. Replace with correct orifice. Replace with new thermostat.	Drip from relief valve.	Heater stacking. Excessive water pressure.	Lower thermostat setting. Use pressure reducing valve and pressure relief valve.
Flame burns at orifice.	Low gas pressure. Defective thermostat.	Check with utility. Replace with new thermostat.	Thermostat fails to close.	Defective thermostat. Improper calibration.	Replace with new thermostat. Replace control valve.
Pilot will not remain lit.	No gas. Dirt in gas lines.	Check with utility. Notify utility - install dirt trap in gas lines.	Condensation.	Heater installed in. confined area	See page 12.
	Pilot line clogged. Thermocouple connection loose. Defective thermocouple.	Clean - check for source of trouble and correct. Tighten with fingers - then take ¹ / ₄ turn with wrench. Replace with new thermocouple.	Combustion odours.	Insufficient secondary air. Heater installed in confined area. Flue clogged.	Provide ventilation to heater. Provide ventilation by use of louvers in wall or duct. Clean - check for source of trouble and correct.
High operating costs.	Cold drafts. Improper calibration. Thermostat set too high.	Check source and correct. Replace control valve. Turn temperature knob to desired temperature.	Smoking and carbon formation.	Insufficient secondary air. Low gas pressure. Burner clogged with lint.	Provide ventilation to heater. Check with utility. Remove - clean.
	Sediment or lime in tank. Heater too small for job. Wrong piping connections.	Drain - check to see if water treatment is necessary. Install adequate heater. Correct piping - dip tube must be in cold inlet	Sooting.	Flue clogged. Defective thermostat. Heater installed in confined area.	Clean - check for source of trouble and correct. Replace with new thermostat. Provide ventilation by use of louvers in wall or duct.
	Leaking faucets. Gas leaks. Wasted hot water. Long runs or exposed	Repair faucets. Check with utility - repair at once. Advise customer. Insulate.	Pilot flame too small.	Low gas pressure. Pilot line or orifice clogged. Wrong pilot burner.	Check with utility. Clean - check for source of trouble and correct. Replace.
	piping. Hot water piping on outside wall.	Insulate.	Pilot flame too large. Smelly water.	Wrong pilot burner. Sulphides in the water.	Replace. Replace the anode with a McRay anode.