

Pulsating Flow - Pump Cycling On and Off

- Restricted pump delivery. Check discharge lines, fittings, valves, and spray nozzles for clogging or under sizing.

Motor Fails to Turn On

- Pump or equipment not plugged in electrically.
- Loose wiring connection.
- Pressure switch failure.
- Defective motor or rectifier.
- Frozen cam/bearing.

Pump Fails to Turn Off after Discharge Valves are Closed

- Depletion of available liquid supply.
- Punctured pump diaphragm.
- Discharge line leak.
- Defective pressure switch.
- Insufficient voltage to pump.
- Debris in check valves.

Low Flow and Pressure

- Air leak at pump intake.
- Accumulation of debris inside pump and plumbing
- Worn pump bearing (excessive noise).
- Punctured pump diaphragm.
- Defective rectifier or motor.
- Insufficient voltage to pump.

PRODUCT WARRANTY

We warrant this product to be free of defects in material and/or workmanship for a period of one year after purchase by the customer. During this one-year warranty period, we will at our option, at no charge to the customer, repair or replace this product if found defective, with a new or reconditioned product, but not to include costs of removal or installation. All return goods must be shipped with transportation charges prepaid.

WARRANTY CONDITIONS

- Overuse or continuous use or incorrect use will cause the pump to overheat, damaging the pump and voiding the warranty.
- Inadequate ventilation caused by incorrect installation can cause the pump motor to overheat, burnout and fail, voiding the warranty.
- A filter/strainer must be installed on the inlet pipe for the warranty to be valid. Pump failures due to foreign matter entering the pump will not be covered under the limited warranty.

MODEL	CCFL-2202	CCFL3206	CCFL-35
FLOW RATE	4.3lpm	6lpm	12.5lpm
MAX PRESSURE	35psi	35psi	40psi
AMP DRAW (A)	3.5	6	8
DUTY CYCLE	Intermittent	Intermittent	Intermittent
INLET/OUTLET SIZE	3/8" (9.5mm)	3/4"(19mm)	3/4"(19mm)



COUNTRY COMFORT 12volt Water Pressure Pumps



IMPORTANT: These instructions are applicable to the following models:

- 4.3lpm35psi CCFL-2202 – (No fittings, suitable for water or farm chemicals)
- 6lpm35psi CCFL-3206 – (Includes 2 screw on fittings, suitable for water or farm chemicals)
- 12.5lpm40psi CCFL-35 – (Includes three fittings and a screen filter. For fresh or salt water)

Congratulations on your recent purchase of the Country Comfort 12volt water pressure pump. We have three models that are designed for a wide range of applications, whether it is to transfer or pump water to taps and outlets in your camper trailer, caravan, boat etc. or to your Country Comfort portable LPG water heater. All pumps are pressure activated which means they will commence pumping when the pressure is released from either the tap or shower head being turned on.

For Customer Service Contact:

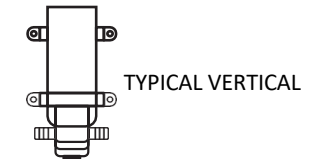
Email: support@ccwaterheater.com.au or Phone: 0438 242 873 or 0412 111 656

FEATURES OF THE COUNTRY COMFORT 12VOLT WATER PRESSURE PUMPS:

- Durable rubber feet for reduced vibration
- Soft, Noise Absorbing Mounts
- Runs dry for short periods of time without damage
- Self-Priming, pressure activated
- Corrosion resistant materials with thermal overload protection
- Suitable for fresh and salt water
- Easy Installation

MOUNTING

The Country Comfort Series pumps are self-priming and best mounted horizontally. Vertical prime may vary depending on the fluid viscosity, suction tube size, foot valve and pump configuration. If you need to mount the pump in a vertical position with pump head down, as shown in the diagram below.

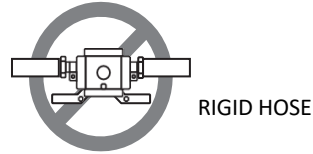
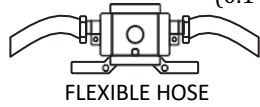


NOTE: The pump should be mounted in a dry and adequately ventilated area. If mounted within an enclosure, provisions to cool the motor may be necessary. Inadequate ventilation may cause the pump motor to overheat, burnout and fail, voiding the warranty.

PLUMBING

NOTE: Use flexible hose of the correct pressure rating that is compatible with the fluid to be pumped. Hosing should be a minimum of 3/8" ID and at least 50cm in length for 4.3lpm and 3/4" for the 6lpm and 12.5lpm to avoid excess stress on the pump ports. Do not crimp or kink the tubing.

The use of check valves in the plumbing system could interfere with the priming ability of the pump. If a check valve is installed in the plumbing it must have a cracking pressure of no more than 2PSI (0.14bar).



1. Slide flexible hosing over the barbed hose inlet and outlet of the pump and fix with hose clamps.
2. Ensure the other end of the flexible hosing from the inlet and outlets are firmly fixed to their correct connectors from a water tank or tap.

ELECTRICAL WIRING

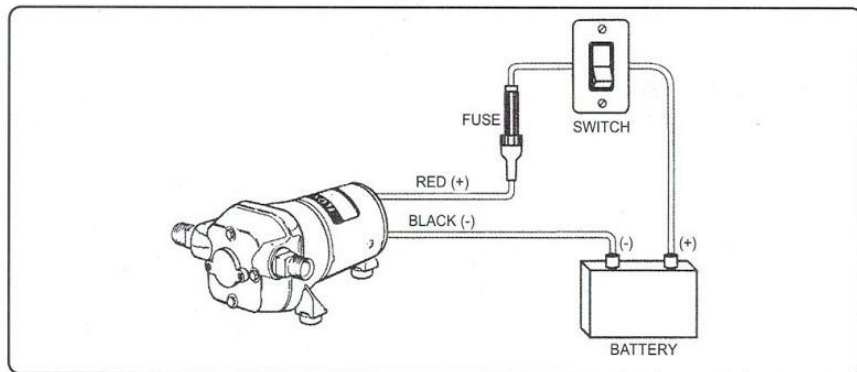
When wiring electrically driven pumps, follow all electrical and safety instructions. If in doubt seek advice from a 12volt professional.

1. Make certain the power source conforms to the pump voltage.
2. Ensure all power is disconnected before installation.
3. Install an on-off switch plus a fuse or a circuit breaker between the positive + terminal of the battery and the positive wire on the Pump.

The pump should be wired to an individual (dedicated) circuit, controlled with a switch rated at or above the fuse ampere indicated on the pump motor label. To protect the system wiring and components, each pump should have a fuse installed that is relative to the individual pump's rated ampere as shown on the specs table.

NOTE: On 12 volt pumps the red lead is positive and should be connected to the battery plus (+) terminal. The black lead is ground and should be connected to the battery minus (-) terminal.)

Improper duty cycle and/or rapid start stop conditions caused by undersized spray nozzles will cause the internal thermal breaker (if equipped) to trip, or can cause premature motor failure due to excessive heat.



WIRING

OPERATION

To start and prime the pump, the discharge line must be open allowing trapped air to escape thus avoiding a potential airlock.

The pressure switch will shut off the pump automatically when the discharge valve is closed and the pressure has risen to the switch OFF set point.

The pressure switch will restart the pump when a valve is opened, and the discharge line pressure drops to the ON set point of the pressure switch.

You will need to prime your Country Comfort pressure pump if

- It hasn't been used for a long period of time.
- When you have a blockage caused by an airlock
- When the water lines need flushing
- When connecting to a new outlet tap to your existing system.

PREVENTATIVE MAINTENANCE & GENERAL CARE TIPS!

- If mounting the Country Comfort pump in an outdoor environment the pump should be protected from rain, dust, water & sunlight.
- Use of a minimum 40-mesh strainer or filter in the pump inlet line will prevent foreign debris from entering the system. Failures due to foreign debris entering the pump will not be covered under the limited warranty.
- If pumping a liquid other than water the pump should be flushed with water (if applicable) after each use.
- Demand operation is considered an "intermittent duty" application. The maximum intermittent duty cycle is that which will cause the motor to reach its maximum thermal limits. Once the maximum thermal limit is reached, the motor must be allowed to settle to a lower temperature ideally being ambient before resuming operation. Running the pump at or near the maximum thermal limit for extended period will shorten the life of the pump and may result in immediate pump failure.
- Before freezing conditions occur, the pump must be liquid free.
- To prevent the pump noise from being increased, it is best to mount the pump on a solid surface.



DO NOT PUMP GASOLINE OR FLAMMABLE FLUIDS OR USE WHERE FLAMMABLE VAPORS ARE PRESENT

TROUBLE SHOOTING GUIDE

Failure to Prime – Motor operates, but pump not pumping

- Blockage in intake or outlet line. Open all line valves, check for "jammed" check valves, and clean clogged lines.
- Air leak in intake line.
- Punctured pump diaphragm.
- Defective pump check valve.
- Crack in pump housing.
- Debris in check valves