

PUMP SPECIFICATION BY MODEL

MODEL	KAP4L35P	KAP6L65P	KAP12L35P	KAP17L40P
FLOW RATE	4.3L/min	6L/min	12L/min	17L/min
MAX PRESSURE	35psi	65psi	35psi	40psi
AMP DRAW (A)	3.5	6	7	9.2
VALVE MATERIAL	EPDM	EPDM	EPDM	EPDM
DIAPHRAGM MATERIAL	Santoprene	Santoprene	Santoprene	Santoprene
HOUSING	Polypropylene	Coated Iron	Coated Iron	Coated Iron
PRIMING HEAD (METRES)	1.2	1.2	2	2
DUTY CYCLE	Intermittent	Intermittent	Intermittent	Intermittent
INLET/OUTLET SIZE	3/8" (9.5mm)	3/8" (9.5mm)	3/4" (20mm)	3/4" (20mm)

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 in order for the warranty to be valid.
- Pump failures due to foreign matter entering the pump will not be covered under the limited warranty

For all enquiries and warranty matters, please contact your reseller or email: sales@kickassproducts.com.au or telephone: 1300573188

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Congratulations you have just purchased a Kickass 12 volt water pressure pump. They come in four different models and are designed to pump water to taps and outlets in your caravan, boat, 4WD or camping sink, shower etc. When installed correctly they are self-priming – which means they will start at the turn of a tap. This manual contains instructions on how to install and care for your Kickass pressure pump. We advise you to read this manual thoroughly in order to receive years of trouble free use.

ABOUT KICKASS PUMPS

- Constructed from corrosion resistant material, they can handle salt and fresh water.
- They have Thermal Overload Protection and soft noise-absorbing mounts
- They can be run dry for short periods of time, without damage
- They are not designed for continuous pumping such as filling a large water tanks or watering a lawn

MOUNTING

Select the best position for the pump

KickAss Pressure Pumps are best mounted horizontally to aid the self-priming feature. Vertical mounting can sometimes adversely affect the self-priming feature of the Pump. If you need to mount the pump in a vertical position put the motor on the top, above the pump, see the diagram of the pump to the right. It is best to mount the Pump on a solid surface to prevent the sound of the Pump noise being increased.

Mounting the Pump in an enclosed space may need the addition of a cooling or a hot air extraction fan to keep the pump cool. If you mount the Pump outdoors it needs to be thoroughly protected from rain, dust, water and sunlight.

Important provide adequate ventilation

Inadequate ventilation can cause the pump motor to overheat, burnout and fail, voiding the warranty.

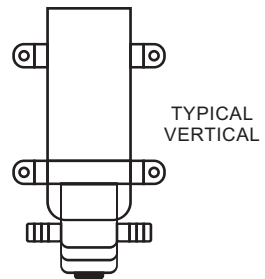
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HORIZONTAL



TYPICAL VERTICAL

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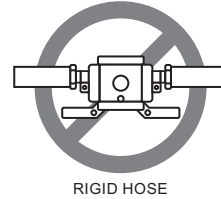
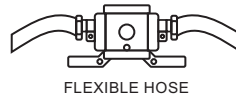
PLUMBING

Step 1. Slide flexible tubing over the barbed hose connectors of the pump and fix with hose clamps.

Step 2. Ensure the other ends of the tubing, coming from and going into the Pump are firmly fixed to their respective connectors, either to a tap or an outlet of a water tank.

Important when plumbing the Pump to the water system:

Use flexible hose only, of the correct pressure rating. The use of check valves in the plumbing system could interfere with priming ability of the pump. If a check valve is installed in the plumbing, it must have a cracking pressure of no more than 2 psi (0.14 bar).



ELECTRICAL WIRING

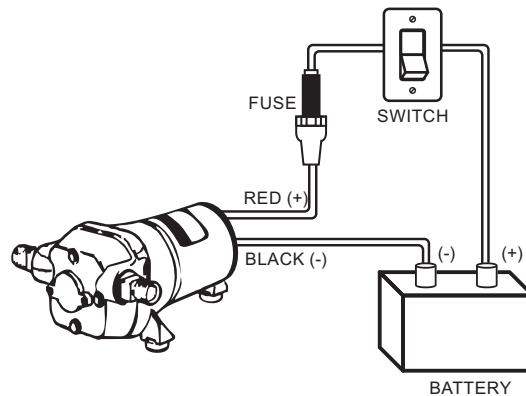
Basic information on installing your pump is below but if in doubt seek professional advice from a 12 Volt specialist.

1. Disconnect all cables you are working on from the battery and make sure any cables are not live.

2. 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.

3. The pump should be wired to a dedicated circuit, controlled by a switch rated at or above the fuse ampere rating indicated on the pump motor label.

4. To protect the system wiring and components, each pump should have a fuse installed that is relative to the individual pump's rated ampere which you will find in the specifications table included in this manual..



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PRIMING 101

You will need to prime your KickAss Pressure Pump in the following situations.

- When it is used for the first time
- When it has not been used for a while eg. Van in storage
- When the water lines need flushing
- When you have a blockage caused by trapped air (known as an Airlock)
- When maintenance occurs or any other changes to the plumbing system are undertaken
- When connecting a new outlet tap to your existing system

KickAss Pressure Pumps once installed and primed for airlocks, become self-priming

When you run the pump for the first time ensure that the outlet pipe or any taps connected to it are open which will allow any air that is in the system to escape. Once there is no air left in the system the pump is primed and ready to go.

GENERAL CARE AND MAINTENANCE

- When correctly installed, run and maintained, KickAss Pumps can give years of trouble free use
- After extended periods of disuse, follow the priming instructions
- Using the KickAss Pump continuously for extended periods will cause the pump to overheat and fail
- Overheating can result in permanent damage and voids the warranty.
- Before freezing weather conditions occur, the pump should be drained of water.

TROUBLESHOOTING

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

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.

Pulsating Flow - Pump Cycling On and Off

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

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