vada

V2060-C

# CIRCULATOR PUMP INSTALLATION MANUAL

**A smooth day is a good day. That's why Vada is dedicated to creating pump solutions that you can count on. With a focus on easy selection, simple installation and high quality, you can hold your head high knowing your reputation is protected. It's Vada. Performance simplified.**

# THANK YOU

**Thank you for purchasing the Vada V2060-C!**
**Record your product details here and leave with the owner:**

Date purchased:

Purchased from:

Purchase invoice number:

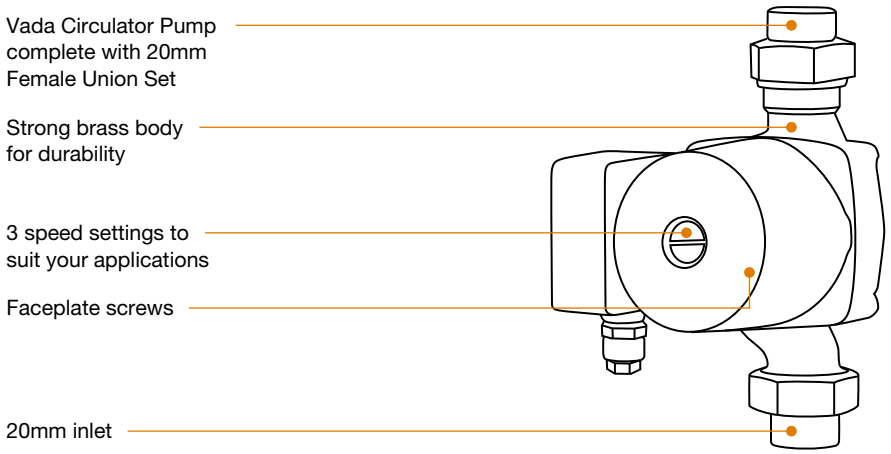
Product serial number:

Product model number:

**Scan for set up support** →

# KNOW YOUR PRODUCT

The V2060-C is a reliable circulator pump designed for the circulation of hot water in heating and domestic hot water systems.




# SPECIFICATIONS

- Type of liquid: Clean water with no suspended solids or abrasive material
- Maximum liquid temperature: 110°C @ 35°C ambient
- Maximum ambient temperature: 40°C
- Maximum flow rate: 60 l/min
- Maximum operating pressure: 1000kPa / 10 bar

# APPLICATIONS

The Vada V2060-C is suitable for hot water circulation in domestic heating and hot water systems.

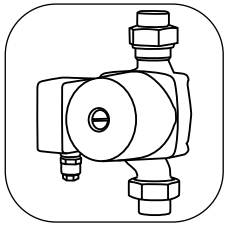


# INSTALLATION

## PREPARING FOR INSTALLATION

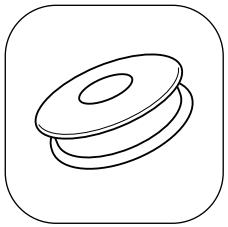
For a successful installation, ensure you have all pieces listed below.

**What we've supplied:**

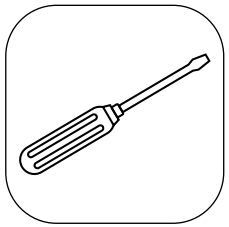


☐ Vada Circulator Pump

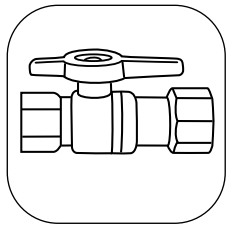
**What you'll need to supply:**



☐ Thread tape



☐ Screwdriver



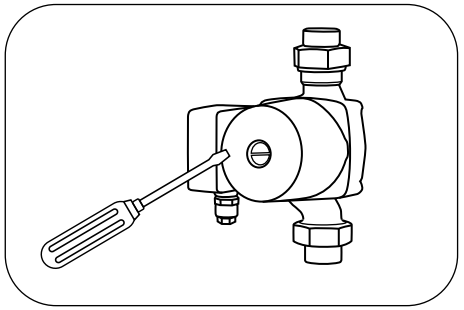
☐ x2 Isolation valves

# INSTALLATION

## PART 1: ELECTRICAL CONNECTION BLOCK SET UP

1. If the electrical connection block is not in a convenient position when the circulator is delivered, the motor head may be rotated by 90/180/270 degrees prior to fitting.

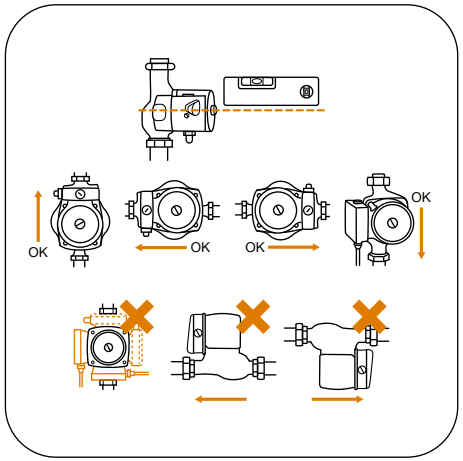

2. Release the screws on the pump casing and rotate the motor head to its new position. Please take care not to remove or damage the seal between motor head and pump casing. When reassembling, tighten the fixing screws evenly in stages using a diagonal pattern.



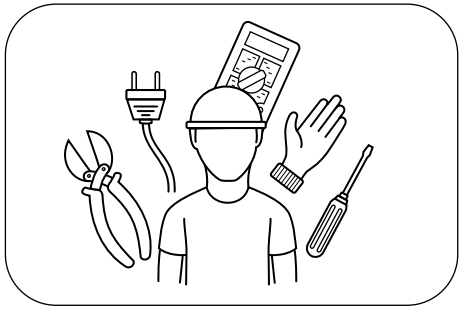
**Note:** Where possible, the electrical connection block is located so that cable entry point is facing downwards. This can add to water ingress protection.

## PART 2: SELECTING A LOCATION

1. As the pump can become quite hot when operating, it should not be installed against wood or other materials which may be affected by heat. The pump should not be installed in either a high point in the system where air could collect or a low point where sediment could build up. The pump must be installed with the rotating shaft in a horizontal plane.

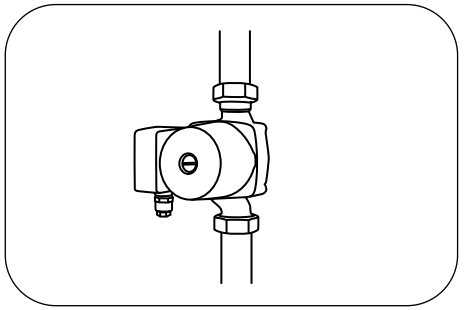



2. Arrange for an electrician to provide an approved electrical connection/switch.

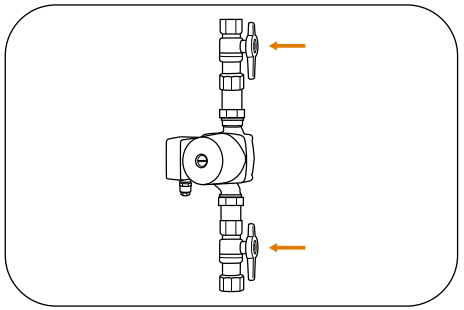


## PART 3: PIPEWORK SET UP

1. Ensure pipes on both sides of the pump are supported.



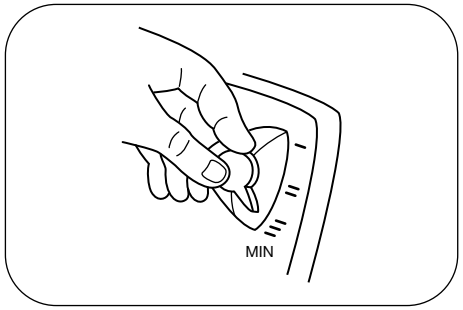
2. For ease of servicing it is advisable to fit isolating valves on both sides of the pump.



**Note:** Before installing the circulator ensure all soldering / welding adjacent to the pump is complete, the system has been thoroughly flushed out to remove any foreign matter. It is advisable to ensure the impeller is free by rotating manually through the outlet.

## PART 4: SPEED SETTING

1. The speed of the pump is adjusted using the switch on the face of the terminal block. The speed setting should be selected so that the pump is not loud due to cavitation (this can occur if inlet pressure is low) and also that it provides sufficient circulation for the application.




**Note:** Running the pump at a lower speed will reduce power consumption.

# INSTALLATION

## PART 5: ELECTRICAL CONNECTION

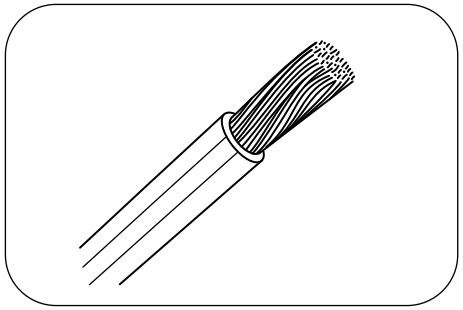
A means for disconnection must be incorporated in the fixed wiring having a contact separation in all poles in accordance with the wiring rules.

This pump must be connected by a licensed electrician. We recommend the use of a 3 amp fuse for motor protection.

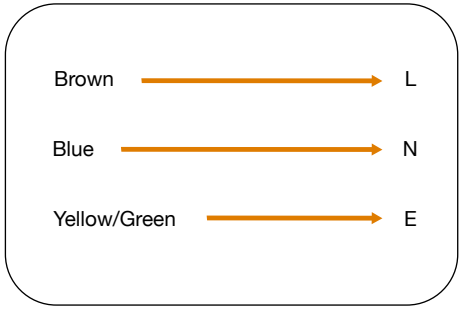
In accordance with AS/NZS 60335.2.51, we are obliged to inform you that this pump is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance.

The pump must be supplied by an outlet protected by a residual current device or earth leakage circuit breaker with a maximum rated residual current of 30mA.

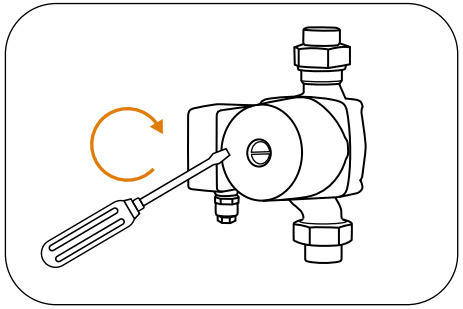
1. Ensure the pump is isolated from the mains power before removing any covers that may be exposed to live electrical parts. Use an earthed electrical cable as required by AS/NZS 3000:2007.



2. Thread cable through grommet. Depress levers to open cable clamps. Connect cable – Brown to L, Blue to N, Yellow/Green to E.

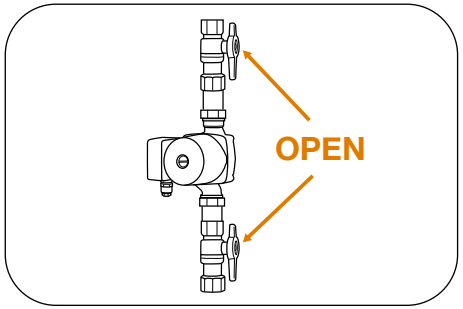



3. Adjust cable position and press outer sheath into clamp. Refit terminal cover, locating cover onto motor and tighten screw.

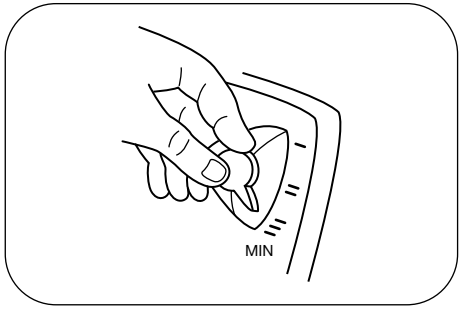


# OPERATION

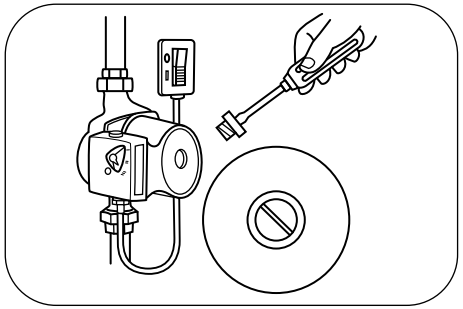
1. Open all valves in the suction and discharge lines.




2. The pump features 3 speed settings. If pump requirements are unknown, it is always preferable to use the lowest speed which provides sufficient circulation.

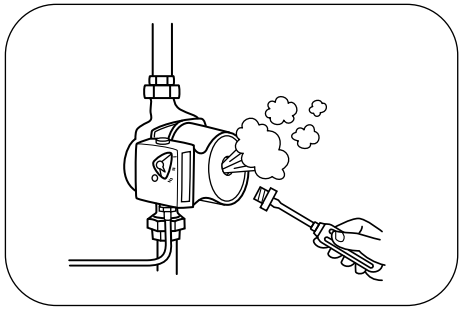



3. When the power is turned on, the pump will start to pump water. Manually vent the pump by opening screw on motor face plate.



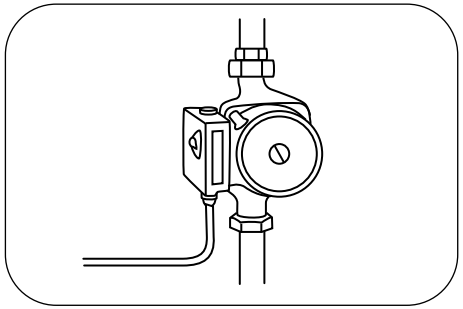
**Note:** Additional venting may be required from any high points within the system above the pump location to ensure all air is removed.

4. Allow the unit to vent.



Be careful of the hot water and steam during the venting process.

5. Retighten the screw. The system is now ready for use.



6. If no water is delivered, check the troubleshooting section.

# SERVICE & MAINTENANCE

Pump should only be serviced by qualified personnel. For best results. use only genuine service parts. Be sure to prime pump before starting.

To avoid dangerous or fatal electrical shock hazard, turn OFF power to motor and isolate pump from power supply.

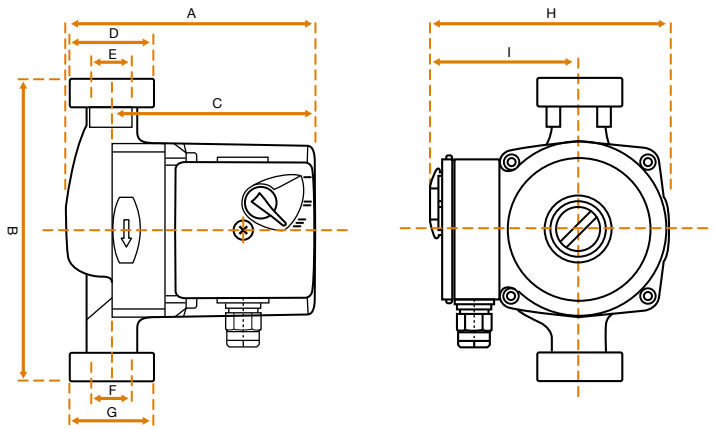
Liquid may be HOT, release pressure with care before servicing.

Under normal conditions VADA pumps do not need any type of maintenance. During prolonged shutdown of a system, it is advisable to run the pump for 2 minutes every few weeks.

# PRODUCT DIMENSIONS

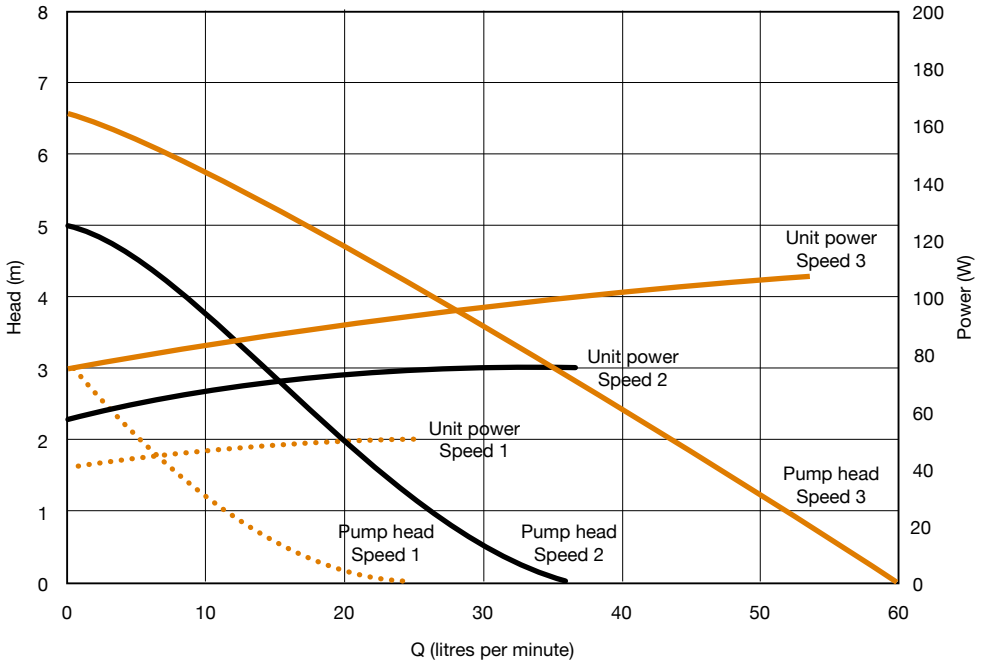
A. 130mm
B. 150mm
C. 105mm
D. 1 1/4" M
E. 20mm
F. 20mm
G. 1 1/4" M
H. 130mm
I. 75mm

Weight 2.9kg




# PERFORMANCE

**Table Of Hydraulic Performance & Power Consumption**




**Note:** This chart is valid for 50Hz, 2 pole speed and positive suction pressure

| PUMP PERFORMANCE | | | | |
|---|---|---|---|---|
| **Voltage** | **µF** | **Speed** | **Power** | **Amp** |
| | | | **W** | |
| 1~230/240V | 2.0 | 3 | 100 | 0.45 |
| | | 2 | 70 | 0.35 |
| | | 1 | 55 | 0.25 |

# TECHNICAL INFORMATION

| CONSTRUCTION | |
|---|---|
| **Pump body** | DR Brass |
| **Impeller** | Polyethersulfone (PES) plastic |
| **Underside bearing base** | Stainless steel & graphite |
| **Gasket** | EPDM |
| **Thrust bearing** | Impregnated graphite |
| **Rotor** | Stainless steel |
| **Shield cover** | Stainless steel |
| **Stator** | Copper & stainless steel |
| **Housing** | Aluminium |
| **Junction box seat** | Polycarbonate & ABS plastic |
| **Electric box cover** | Polycarbonate & ABS plastic |

| OPERATING TEMPERATURE | |
|---|---|
| **Liquid °C (max. 110°C)** | **Ambient °C (min. 0°C)** |
| 2 | 0 |
| 40 | 40 |
| 60 | 40 |
| 80 | 40 |
| 90 | 40 |
| 100 | 40 |
| 105 | 40 |
| 110 | 35 |

| USAGE LIMITATIONS | |
|---|---|
| **Type of liquid** | Clean water with no suspended solids or abrasive material |
| **Maximum liquid temperature** | 110°C @ 35°C ambient |
| **Maximum ambient temperature** | 40°C |
| **Maximum flow rate** | 60 l/min |
| **Maximum operating pressure** | 1000kPa / 10 bar |

| MOTOR | |
|---|---|
| **Insulation** | Class H |
| **Level protection** | IP44 |
| **Power supply voltage** | Single phase 1 x 230 V – 50 Hz |
| **Direction of rotation** | Anti-clockwise (motor end view) |
| Wet runner with internal separator sleeve | |
| 3 speed operation | |
| Provided with built in capacitor and thermal protection | |



# TROUBLESHOOTING

## Having trouble? Sort it out here, quick smart.

If these solutions do not solve the problem, please visit your local Reece branch.

| SYMPTOM | CAUSE | SOLUTION |
|---|---|---|
| **The pump will not start, no water is pumped.** | No electricity. | Ensure that the pump has power to it and that fuse is not tripped. |
| | Pump blocked. | Check that rotor is free to rotate. |
| | Electric capacitor is damaged. | Contact your electrician for replacement. |
| **The pump starts but provides incorrect circulation.** | Pump valves closed. | Open pump valves. |
| | Incorrect speed setting. | Adjust speed. |
| **The pump is making a loud noise.** | Pump is louder due to incorrect speed setting. | Adjust speed. |
| | Pump is loud due to cavitation. | Vent pump by unscrewing vent screw. |
| | There is air in the pump lines. | Release any air in the pumping lines. Increase inlet pressure within permissible limits. Ensure correct speed is selected. |
| **The pump is overheating.** | There is air in the pump lines. | Release any air in the pumping lines. Increase inlet pressure within permissible limits. Ensure correct speed is selected. |

# WARRANTY

You have purchased a quality product from Reece Australia. This product is covered by a 2 year product warranty, 1 year parts and labour. This warranty covers faults in the product construction, material, and assembly.

The first 12 months are covered by an onsite visit from service agent after assessed by Reece After Sales and deemed a possible product fault. Infield service may also be conducted digitally in circumstances where an agent cannot physically attend the site. Warranty is subject to an evaluation by the agent based on installation instructions set out in the product manual.

A service fee may be charged to the customer if an aftersales service call is attended, and the fault is deemed to be a result of incorrect installation, or the points outlined below. Please note the site environment and associated product must be accessible and safe workplace for the service agent.

If a product is suspected of being faulty, please return to the Reece store it was purchased from and the product will be inspected by an authorised Reece representative. Products which are found upon inspection to be defective in construction, material, or assembly, will be repaired or exchanged with an equivalent product free of charge within the warranty period outlined above. Replaced items become Reece's property. Charges may apply if installation terms have not been met. All replacement products will be available for collection without charge to the customer at the nearest Reece branch to the customer's location, or elsewhere as agreed between the customer and Reece. Please note, warranty repairs may only be performed by our service representatives or an authorised customer service workshop, and any attempt to repair the device by the customer or unauthorised third parties shall terminate the warranty.

## WARRANTY CONDITIONS

The warranty will apply only under all the following conditions:

- The pump has been installed by a qualified, licensed personnel.
- The pump is returned in good condition and has not arrived damaged.
- The pump is located so that it will NOT be prone to freezing.
- The pump is being used with clean water only and is NOT being used with alternative fluids specifically abrasive, corrosive, or explosive fluids.
- The pump is isolated from electrical supply during installation and any subsequent service work.
- The electrical installation is in accordance with the national wiring rules (AS/NZS 3000).
- The pump has NOT been lifted/moved/ carried by the electrical or float switch cables.
- The steps outlined in this manual and all accompanying quick start guides have been adhered to.
- The pump has been installed for and subjected to domestic residential use only subject to local building a municipality guideline.
- Failure is due to a fault in the manufacture of the project. In this case, proof of purchase, date of purchase and serial number is required.

This warranty does not include faults caused by:

- Failure to adhere to the conditions above.
- Normal wear and tear.
- Inadequate or complete lack of maintenance.
- Chemical, electrochemical, or electrical influences.
- Harsh detergents or abrasive cleaners used on product finishes.
- Unsuitable or improper use.
- Incorrect installation or installation not in accordance with the instructions provided.
- Inadequate protection of the pump.

## EXCLUSIONS

To the fullest extent permitted by law, Reece excludes all liability for damage or injury to any person, damage to any property and any indirect consequential or other loss or damage. To the maximum extent permitted by law, Reece excludes all warranties other than those set out above.