

ARCHERGAS[®]

Installation & Operating Instructions



Read these instructions
carefully before installation



3007255












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Equivalent Models

 Worcester Bosch Group	 Vaillant	 Vokèra	 BAXI	 Ideal	 VIEMANN	 Alpha	 Chaffoteaux	 Glow-worm	
8716120409	0010030632	20192664	7722642	177925	7826458	1.038162	65119656-01	1000-0301485	0020186159
8716120411	0020231141	(6025)	7713520	182357	7876450	1.038161	60079225		
8716120416	0010030634	20185332	7808435	182455					
8716120459	0020221617	20104311	7855245						
8716120415	0020231142	20194913	7724945						
8737710972	0010030636	20106868	7220533						
8716120472	0020213118	20199317							
8737604215	0020221616								

*This is both an integrated and a standalone circulator head -
for appliances made before 2015 refer to the GCR15®

General Information & Operating Conditions

The following instructions guide you through the installation and operation of the Archergas® GC Universal Modern 15-70 circulator head (GCM15®).

The Archergas® Modern is an intelligent pulse width modulating pump that enables the user to set it based on system demand/application parameters.

The GCM15® is suitable for the boiler OEM circulator codes in the table on the page above, and it is also suitable for replacing heads on modern standalone circulators e.g. UPS3/UPM3. It produces a maximum head of just over 7 metres which is perfect for a wide range of applications including boilers, standalone pumps and underfloor heating manifolds.

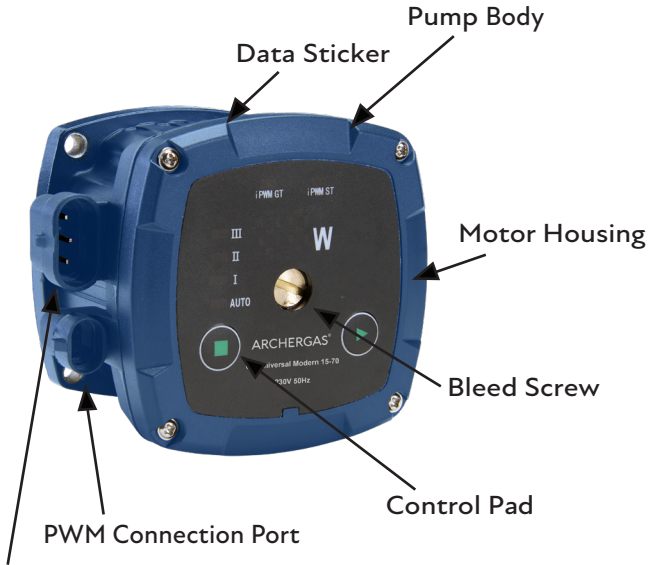
All Archergas® pumps require clean, thin, non-aggressive liquids to operate correctly and prevent damage to their internal components. The liquids used must not contain any solid particles, fibres or mineral oil.

Liquids running through pumps used on heating systems must comply with the accepted standards of quality especially in domestic applications.

Liquids that do not comply will automatically void the 3 year guarantee offered with all Archergas® circulators. Please also ensure a qualified, competent engineer carries out the installation and maintenance of all Archergas® products in all cases.

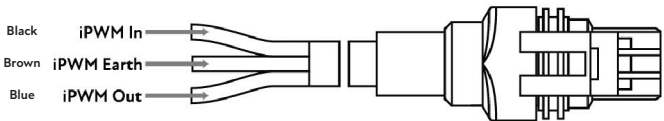
*With the cable grommet on the quick connect adaptor facing down, ensure wiring is correct from left to right in the following order: Neutral (left), Earth (middle), Live (right).

Pump Diagram



Mains Wiring Connection Port

iPWM Cable Wire



Installation instructions

Only install the pump after all soldering work has been completed and, if necessary, the pipe system has been flushed through

Install the pump in a readily accessible place for easy inspection and dismantling. The direction of flow is indicated on the pump body

Install gate valves both upstream and downstream to enable easy replacement and fit washers (supplied)

Carry out safety checks to ensure the electrical supply is on








Before connecting the appliance, make sure that the supply voltage marked on the rating plate corresponds with your mains supply voltage

Insert the wiring through the wire feed and connect to the push fit terminals Live, Neutral and Earth

Fill and vent, ensure the pump is fully vented before turning on as it must not be run dry

*With the cable grommet on the quick connect adaptor facing down, ensure wiring is correct from left to right in the following order: Neutral (left), Earth (middle), Live (right)

Operation Modes

	Normal Speed 3 (7m Head)	Maximum Fixed Speed
	Normal Speed 2 (6m Head)	Medium Fixed Speed
	Normal Speed 3 (5m Head)	Minimum Fixed Speed
	Automatic Mode (ECO)	Modulating/Variable Speed (ECO)
	Mains Power Indicator Light	Displays Electricity Usage (watts)
	iPWM GT (Heating)	iPWM GT Mode
	iPWM ST (Solar)	iPWM ST Mode

Control Panel



iPWM Switch Button

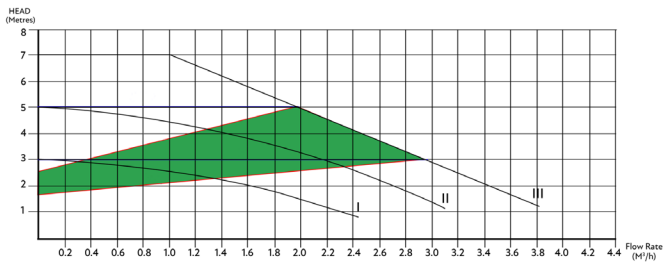


Normal Mode Switch Button

Short press to switch between
iPWM GT and IPWM ST

Short press to switch the
normal modes in turn

Pressure Loss Curve



Fault Finding



Before starting any work on the pump please ensure the electricity is turned off and cannot be accidentally switched back on at any time

Fault

Pump doesn't run

Cause

Remedy

A) Blown fuse

Replace fuse

B) Inadequately connected power supply

Check electrical connection

C) Pump is defective

Replace pump

D) Impurity in the system

Disconnect and clean

E) Bearing has blocked pump from running

Run at high speed for a for a short period or loosen the rotor at the end of the shaft with a screwdriver

Fault

Pump doesn't run (continued)

Cause

- A) Air in the system
- B) Pump speed too high

Remedy

- Vent the system
- Reduce the speed

Fault

Noise in the pump

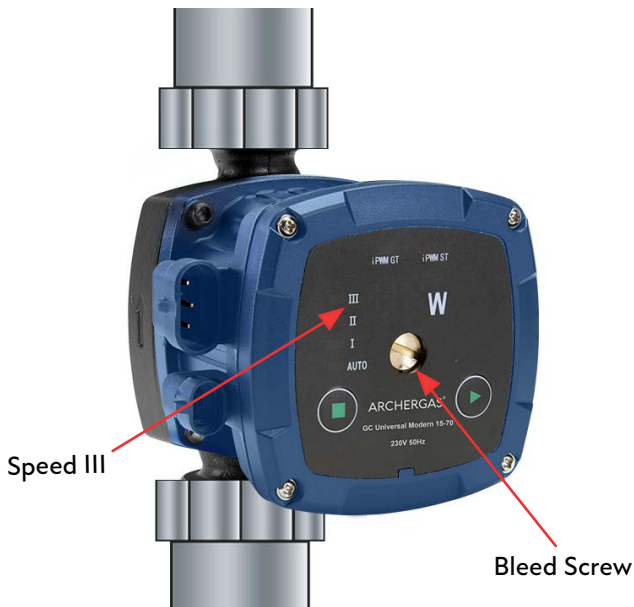
Cause

- A) Air in the pump
- B) Inlet pressure too low

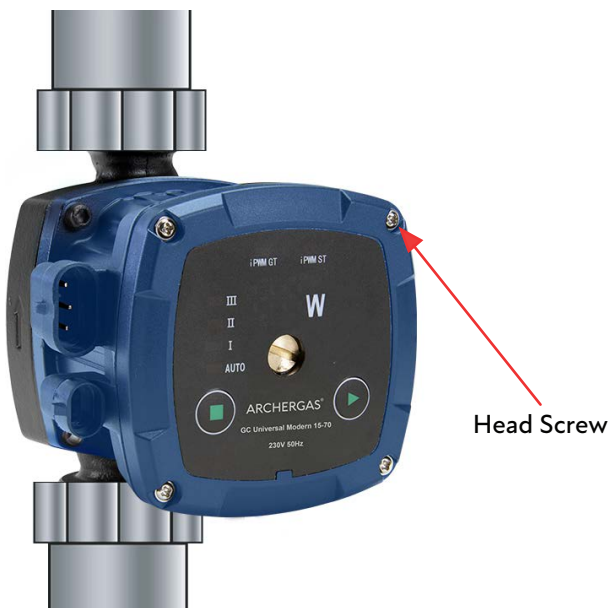
Remedy

- Let the pump run, it vents itself over time
- Increase the inlet pressure

Maintenance & Repair



Attention: Ensure the pump is fully vented before first time operation



Attention: The pump liquid may be scalding hot under high pressure. Before removing head screws the system either requires draining, or the pump needs to be isolated

Guarantees

These Archergas® circulators no longer require the registration of guarantees and are covered against manufacturing malfunction by a 3 year replacement guarantee. Validity is dependent on correct installation and maintenance, adequate system maintenance and the use of sediment free liquid.

To submit a guarantee claim please email the details of the fault with an image, contact details and installation address to sales@archergas.com and our technical sales team will respond.

Although we reserve the right to request further information such as liquid samples we will always endeavour to provide a solution as quickly as possible. Once a guarantee claim is accepted we offer a free of charge replacement unit. Archergas Limited is not liable and will not accept liability for installation costs.

Thank you for choosing an Archergas® Circulator.



*Instructions apply to GCM15®

*The benchmark for the most efficient circulators is $EEL \leq 0.20$

