

The
AES AG
Range

 **AES**
Automated Environmental Systems



**A PACKAGED SOLUTION
FOR BOOSTING WATER**



The AES AG Range



Increased Water Pressure & Flow



Compact Design



Quiet & Reliable



Ease of Installation



Dry Run Protection



Marked Product

Applications Include: Domestic, Commercial, Agricultural & Industrial

› Need to boost your water pressure?

There are many reasons for experiencing low water pressure problems including high demand, location and shared supply. The AES AG range is a self-contained cold water booster set specifically designed for use in domestic, commercial, agricultural & industrial applications where existing water pressure and flow is insufficient to meet demand. The range caters for multiple space and storage capacity requirements.

› Why do I need a tank and a pump?

To increase water flow there must first be more water. If your mains supply is not meeting your requirements, then you need a break tank to store your own water supply ready for when you need it. This can then be pumped to your outlets on demand giving you a plentiful supply of water at the right pressure.

› Why can't I just fit a pump onto the mains?

Water Authority bylaws prevent a pump being directly connected to the mains supply, so when your mains water pressure needs a boost, a break tank must be incorporated into the system. There is an exemption for pumps 'up to' 12 ltr/min but this is not guaranteed and relies on your mains being capable of delivering this volume. To put this into context, a single shower typically requires between 9-15 ltr/min.

› Will it be noisy?

All pumps create noise, but by incorporating an ultra-quiet running submersible pump within a tank unit, the AES AG range is about as quiet as you can get. Typical dB of <65dB(A)

› Is it easy to install?

Our all-in-one tank and pump unit is designed to remove the headache for installers. It is a packaged unit and therefore is fast and easy to install. See our Installation Guideline for step by step instructions.

› Where am I going to put it?

The AES AG range has been designed to provide the end user with a variety of options in terms of water storage and usage requirements as well as availability of space. Typical installation areas include garages, plant rooms, utility rooms and kitchens.

› What is the difference between the fixed speed and the variable speed version?

The fixed speed version has an automatic pump controller which provides the full performance of the pump on demand.

The variable speed version has an intelligent pump controller that will supply a smooth flow of water to every outlet by maintaining constant pressure throughout your property, speeding up and slowing down the pump to suit demand. This ensures efficient operation of the pump leading to reduced energy usage and a smoother user experience.

› What size property will this supply?

The AES AG range is scalable and additional capacity can be added for large properties or those with particularly poor incoming flow rates. We have designed the range to fit in all domestic and commercial properties (incoming flow rate and required usage must be taken into consideration). If you have a weak incoming water supply yet a high demand for water, you also have the option to link a slave tank to ensure you have enough stored water to meet demand.

› What if my tank runs out of water?

The controller will turn off the pump if there is no water in the tank. It will automatically reset after a short delay allowing the water volume in the tank to recover. This pump protection feature ensures a long and happy life for the pump.

› Volumes

All stated volumes are usable water volumes.

AES AG BOOSTER SETS

Pump Options



Fixed Speed

This is the most economic option and will transform the water pressure and flow in your property. This will deliver the full pressure of the pump at the in use flow rate (see performance table).

Variable Speed (Standard)

The variable speed option allows you to choose your desired pressure and then leave the AES AG unit to control the pump to make sure it delivers this, speeding up and slowing down to suit demand. Whatever you are doing, from washing up, watering the garden, having a shower or all 3 together the pressure will continue to be the same to give you a constant pressure at every outlet.

Variable TWIN - Twin Pump Option

The twin pump option can be added to any of our larger tanks (500L+) and basically does exactly that, adds an extra pump into the tank. This gives you twice the amount of flow at the same pressure, as well as an option to have the pumps running on duty standby basis, or as 2 individual duty pumps (e.g. if you wanted to run 2 separate circuits)

Variable PLUS – More Powerful Pump Option

For non-domestic applications a bigger flow rate maybe required and the ease of a simple unit to provide a water boosting solution is the desired requirement. We now have an option of installing a more powerful pump. The PLUS can offer double the flow of the Standard Variable Speed unit.



Performance

Pump Option	Power		20 l/min	40 l/min	60 l/min	80 l/min	100 l/min	120 l/min	140 l/min	160 l/min
	kW	HP								
Fixed Speed	0.55	0.75	3.8 Bar	3 Bar	1.8 Bar	0.5 Bar	-	-	-	-
Variable Standard	0.75	1	5.9 Bar	5.4 Bar	4.5 Bar	3.1 Bar	-	-	-	-
Variable TWIN	1.5	2	6.1 Bar	5.9 Bar	5.7 Bar	5.4 Bar	5 Bar	4.5 Bar	3.9 Bar	3.1 Bar
Variable PLUS	1.5	2	-	5.1 Bar	4.9 Bar	4.6 Bar	4.2 Bar	3.6 Bar	2.9 Bar	2.1 Bar

*These are maximum pressures. There is an option to choose your desired pressure on all variable speed units.

Air Gaps Explained

Fluid Category 5 / Type AB – Air gap with rectangular weir overflow suitable for Fluid Category 5. This means it can be used for applications where increased backflow protection is required.

Application Examples: Butchery and meat trades / WC pans, urinals and bidets / Hospital dialysis machines / Vegetable washing / Laboratories / Grey water-recycling systems / Dish washing and washing machines in healthcare premises / Water storage for agricultural purposes.

Fluid Category 4 / Type AF – Air gap with circular overflow suitable for Fluid Category 4.

Application Examples: Water in primary circuits and heating systems / Domestic wash basins, baths & showers / Domestic clothes and dish washing machines / Food preparation / Bottle washing apparatus / Irrigation outlets / Brewery and distillation plant / Commercial dish washing machines / Domestic clothes and washing machines when used in commercial premises.

AES AG BOOSTER SETS

Compact



AES AG Compact: 125ltr

The AES AG Compact has been specifically designed for smaller properties with low water pressure and flow and where space is at a premium i.e. apartments, cottages, townhouses. Fitting into the space of a standard kitchen unit, the AES AG Compact is a similar size to a washing machine so can be hidden away behind a cupboard door. The electronic controller automatically starts and stops the pump when a drop in pressure is sensed i.e. a tap is opened and closed.

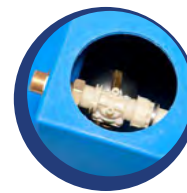


Key Features

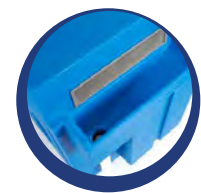
- Non-corrosive holding tank (WRAS approved material)
- Pre-fitted WRAS approved fill valve
- Integral overflow weir
- Minimal installation required
- Adjustable digital display flow controller
- Dry run protection with auto restart (time delay)
- AB Air gap
- Suitable up to Fluid Category 5



Variable Speed Option



Fill Valve



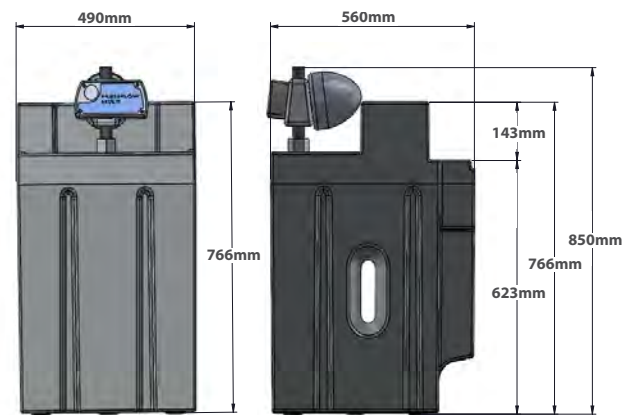
Integral Overflow Weir

Range Options

Model
125ltr Compact Fixed Speed
125ltr Compact Variable Speed

System Connections

Connection	Size
Inlet	½" BSP
Outlet	1" BSP
Overflow	1 ½"
Drain Off	1" BSP



125ltr Compact

	Fixed Speed Option	Variable Speed Option
Power supply	240 volt, 50Hz	240 volt, 50Hz
Controller	Presflo 1.5 supplied with 2ltr pressure vessel	Steadypres M/T 07 supplied with 2ltr pressure vessel
Current Input	3.4 amp	3 amp
Mains Power Cable	2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug	2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug
Tank Weight Empty	27 kg	33 kg
Tank Weight Full	1ltr = 1 kg plus weight of empty tank	1ltr = 1 kg plus weight of empty tank
Access Cover Ø	190mm	168mm

Pump Option	Power		Q l/min	0	10	20	30	40	50	60	70	80
	kW	HP										
Fixed Speed	0.55	0.75	H Metres	42	40	38	34	30	24	18	11.5	5
Variable Speed	0.55	0.75	H Metres	48	46	44.5	42.8	40.5	37.5	33.5	29	23

AES AG BOOSTER SETS

Slimline



AES AG Slimline: 200ltr & 350ltr

The AES AG Slimline range can fit through a standard doorway. This makes it very convenient for new or existing properties as it can be easily fitted under a stairs, in a garage, or in a utility room. The slimline range is ideal for 3 - 5 bedroom houses, with poor water pressure and flow and where floor space is limited. It is electronically controlled through a flow switch unit which starts and stops the pump automatically when a tap is opened and closed.

Key Features

- Non-corrosive holding tank (WRAS approved material)
- Pre-fitted WRAS approved fill valve
- Protective lid enclosure as standard
- Minimal installation requirement
- Adjustable digital display flow controller
- Dry run protection with auto restart (time delay)
- AF Air gap (AB Air gap optional)
- Suitable up to Fluid Category 4 (CAT 5 Optional)



Overflow - Inlet

Variable Speed Option

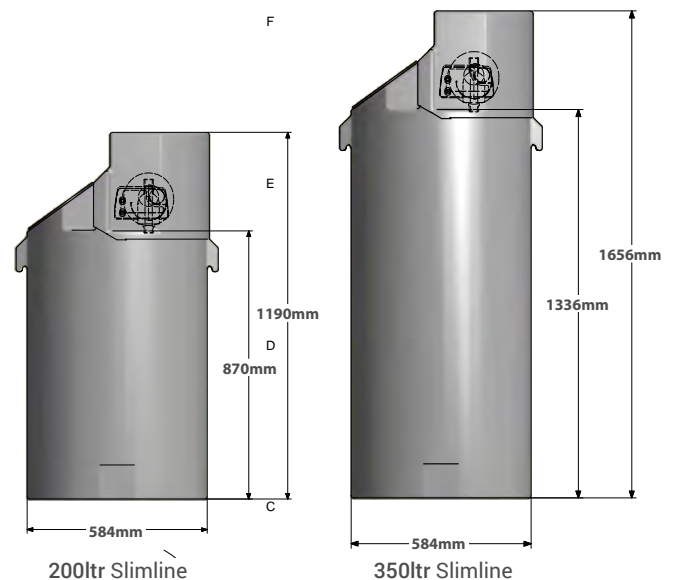
AB Air Gap Option

Range Options

Model
200ltr Slimline Fixed Speed
200ltr Slimline Variable Speed
350ltr Slimline Fixed Speed
350ltr Slimline Variable Speed

System Connections

Connection	Size
Inlet	1/2" BSP
Outlet	1" BSP
Overflow	1 1/4" BSP
Drain Off	1" BSP



	Fixed Speed Option		Variable Speed Option	
Power supply	240 volt, 50Hz		240 volt, 50Hz	
Controller	Presflo Multi with integral 3 litre pressure vessel		Steadypres supplied with 8ltr pressure vessel	
Current Input	3.4 amp		6.3 amp	
Mains Power Cable	2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug		2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug	
Tank Weight Empty	200ltr = 26kg	350ltr = 29kg	200ltr = 32kg	350ltr = 35kg
Tank Weight Full	1ltr = 1 kg plus weight of empty tank		1ltr = 1 kg plus weight of empty tank	
Access Cover Ø	190mm		190mm	

Pump Option	Power		Q l/min	0	10	20	30	40	50	60	70	80
	kW	HP										
Fixed Speed	0.55	0.75	H Metres	42	40	38	34	30	24	18	11.5	5
Variable Speed	0.75	1	H Metres	63	61	59	57	54	50	45	39	31

AES AG BOOSTER SETS

Utility



AES AG Utility: 500ltr, 750ltr

The AES AG Utility pumping range is designed for domestic and light commercial use where there is low mains water pressure and where pressure fluctuates. It is electronically controlled through a flow switch unit which starts and stops the pump automatically when a tap is opened and closed. The Utility range is designed for areas where the floor space is not restricted. This range caters for a wider variation of tank options to suit a wider range of applications.

Key Features

- Non-corrosive holding tank (WRAS approved material)
- Pre-fitted WRAS approved fill valve
- Protective lid enclosure as standard
- Minimal installation requirement
- Adjustable digital display flow controller
- Dry run protection with auto restart (time delay)
- AF Air gap
- Suitable up to Fluid Category 4



Overflow - Inlet



Variable Speed Option

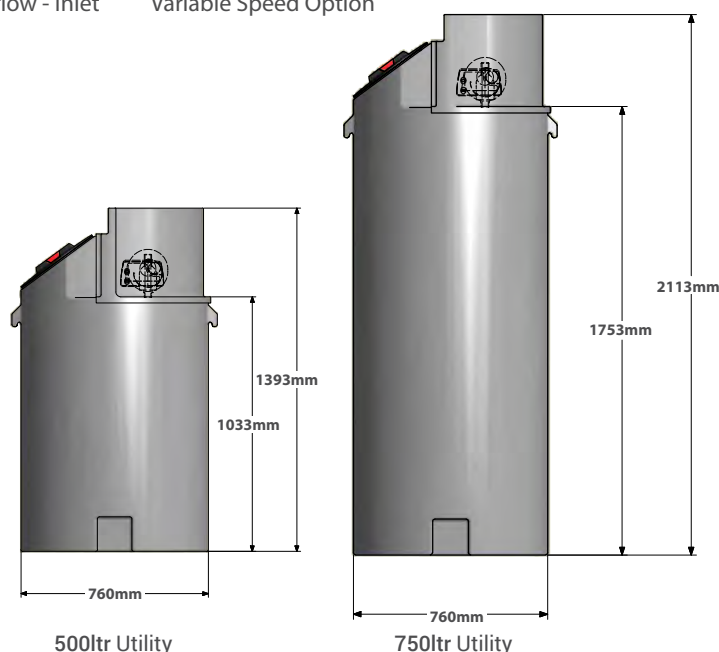


Range Options

Model
500ltr Utility Fixed Speed
500ltr Utility Variable Speed
500ltr Utility Variable Speed Twin Pump
750ltr Utility Fixed Speed
750ltr Utility Variable Speed
750ltr Utility Variable Speed Twin Pump

System Connections

Connection	Size
Inlet	½" BSP
Outlet	1" BSP
Overflow	1 ¼" BSP
Drain Off	1" BSP



	Fixed Speed Option	Variable Speed Option
Power supply	240 volt, 50Hz	240 volt, 50Hz
Controller	Presflo Multi with integral 3 litre pressure vessel	Steadyres M/T 07 supplied with 8ltr pressure vessel
Current Input	3.4 amp	4 amp
Mains Power Cable	2 mtr x 1mm ² 3 core fitted with 13 amp fuse main plug	2 mtr x 1mm ² 3 core fitted with 13 amp fuse main plug
Tank Weight Empty	500ltr = 34kg 750ltr = 49kg	500ltr = 40kg 750ltr = 55kg
Tank Weight Full	1ltr = 1 kg plus weight of empty tank	
Access Cover Ø	285mm	285mm

Pump Option	Power		Q l/min	0	10	20	30	40	50	60	70	80
	kW	HP										
Fixed Speed	0.55	0.75	H Metres	42	40	38	34	30	24	18	11.5	5
Variable Speed	0.75	1	H Metres	63	61	59	57	54	50	45	39	31

AES AG BOOSTER SETS

Utility



AES AG Utility: 650ltr & 1000ltr

The AES AG Utility pumping range is designed for commercial use on a larger scale where there is low mains water pressure and where pressure fluctuates. It is electronically controlled through a flow switch unit which starts and stops the pump automatically when a tap is opened and closed. The Utility range is designed for areas where the floor space is not restricted. This range caters for a wider variation of tank options to suit a wider range of applications.

Key Features

- Non-corrosive holding tank (WRAS approved material)
- Pre-fitted WRAS approved fill valve
- Minimal installation requirement
- Adjustable digital display flow controller
- Dry run protection with auto restart (time delay)
- AF Air gap
- Suitable up to Fluid Category 4



Inlet - Overflow



Variable Speed Option



Range Options

Model
650ltr Utility Fixed Speed
650ltr Utility Variable Speed
1000ltr Utility Fixed Speed
1000ltr Utility Variable Speed
1000ltr Utility Variable Speed Twin Pump

System Connections

Connection	Size
Inlet	½" BSP
Outlet	1" BSP
Overflow	1 ¼" BSP
Drain Off	1" BSP



	Fixed Speed Option	Variable Speed Option
Power supply	240 volt, 50Hz	240 volt, 50Hz
Controller	Presflo Multi with integral 3 litre pressure vessel	Steadypres M/T 07 supplied with 8ltr pressure vessel
Current Input	3.4 amp	4 amp
Mains Power Cable	2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug	2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug
Tank Weight Empty	650ltr = 54kg 1000ltr = 74kg	650ltr = 60kg 1000ltr = 80kg
Tank Weight Full	1ltr = 1 kg plus weight of empty tank	
Access Cover Ø	285mm	285mm

Pump Option	Power		Q l/min	0	10	20	30	40	50	60	70	80
	kW	HP										
Fixed Speed	0.55	0.75	H Metres	42	40	38	34	30	24	18	11.5	5
Variable Speed	0.75	1	H Metres	63	61	59	57	54	50	45	39	31

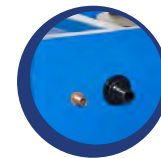
AES AG BOOSTER SETS

Rectangular



AES AG Rectangular: 200ltr & 270ltr

The AES AG Rectangular pumping range is designed for domestic and light commercial use where there is low mains water pressure and where pressure fluctuates. It is electronically controlled through a flow switch unit which starts and stops the pump automatically when a tap is opened and closed. The AES AG Rectangular 200ltr & 270ltr tanks are designed for areas where height restrictions and access are an issue.



Inlet - Overflow



Variable Speed Option

Key Features

- Non-corrosive holding tank (WRAS approved material)
- Pre-fitted WRAS approved fill valve
- Minimal installation requirement
- Adjustable digital display flow controller
- Dry run protection with auto restart (time delay)
- AF Air gap
- Suitable up to Fluid Category 4

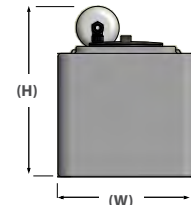
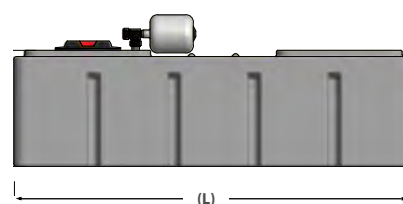
Range Options

Model
200ltr Rectangular Fixed Speed
200ltr Rectangular Variable Speed
270ltr Rectangular Fixed Speed
270ltr Rectangular Variable Speed

Model	Length(L)	Width(W)	Height(H)
200ltr Rectangular	1106mm	475mm	770mm
270ltr Rectangular	1571mm	475mm	751mm

System Connections

Connection	Size
Inlet	½" BSP
Outlet	1" BSP
Overflow	1 ¼" BSP
Drain Off	1" BSP



200ltr & 270ltr Rectangular

	Fixed Speed Option	Variable Speed Option
Power supply	240 volt, 50Hz	240 volt, 50Hz
Controller	Presflo Multi with integral 3 litre pressure vessel	Steadypres M/T 07 supplied with 8ltr pressure vessel
Current Input	3.4 amp	4 amp
Mains Power Cable	2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug	2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug
Tank Weight Empty	200ltr = 30kg 270ltr = 32kg	200ltr = 37kg 270ltr = 39kg
Tank Weight Full	1ltr = 1 kg plus weight of empty tank	
Access Cover Ø	190mm	285mm

Pump Option	Power		Ql/min	0	10	20	30	40	50	60	70	80
	kW	HP										
Fixed Speed	0.55	0.75	H Metres	42	40	38	34	30	24	18	11.5	5
Variable Speed	0.75	1	H Metres	63	61	59	57	54	50	45	39	31

AES AG BOOSTER SETS

Rectangular



AES AG Rectangular: 300ltr & 500ltr

The AES AG Rectangular pumping range is designed for domestic and light commercial use where there is low mains water pressure and where pressure fluctuates. It is electronically controlled through a flow switch unit which starts and stops the pump automatically when a tap is opened and closed. The 300ltr, 500ltr tanks are designed for areas where the floor space is not restricted but where height restrictions are an issue.

Key Features

- Non-corrosive holding tank (WRAS approved material)
- Pre-fitted WRAS approved fill valve
- Minimal installation requirement
- Adjustable digital display flow controller
- Dry run protection with auto restart (time delay)
- AF Air gap
- Suitable up to Fluid Category 4



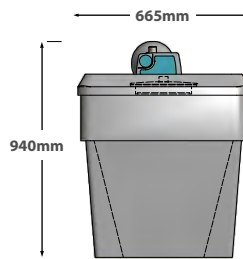
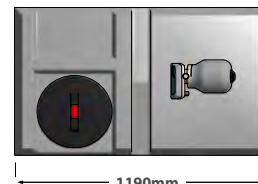
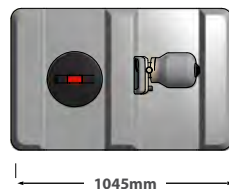
Inlet - Overflow



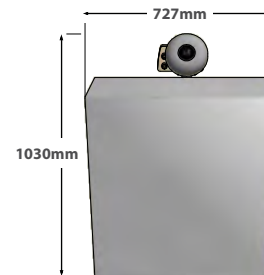
Variable Speed Option

Range Options

Model
300ltr Rectangular Fixed Speed
300ltr Rectangular Variable Speed
500ltr Rectangular Fixed Speed
500ltr Rectangular Variable Speed
500ltr Rectangular Variable Speed Twin Pump



300ltr Rectangular



500ltr Rectangular

System Connections

Connection	Size
Inlet	1/2" BSP
Outlet	1" BSP
Overflow	1 1/4" BSP
Drain Off	1" BSP

	Fixed Speed Option	Variable Speed Option
Power supply	240 volt, 50Hz	240 volt, 50Hz
Controller	Presflo Multi with integral 3 litre pressure vessel	Steadyres M/T 07 supplied with 8ltr pressure vessel
Current Input	3.4 amp	4 amp
Mains Power Cable	2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug	2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug
Tank Weight Empty	300ltr = 34kg 500ltr = 39kg	300ltr = 40kg 500ltr = 45kg
Tank Weight Full	1ltr = 1 kg plus weight of empty tank	1ltr = 1 kg plus weight of empty tank
Access Cover Ø	285mm	285mm

Pump Option	Power		Q l/min	0	10	20	30	40	50	60	70	80
	kW	HP										
Fixed Speed	0.55	0.75	H Metres	42	40	38	34	30	24	18	11.5	5
Variable Speed	0.75	1	H Metres	63	61	59	57	54	50	45	39	31

AES AG BOOSTER SETS

Bunded



AES AG Bunded: 250ltr & 650ltr

The AES AG Bunded pumping range is designed for commercial use where there is low mains water pressure and where pressure fluctuates. Every AES AG Bunded tank benefits from a 'tank within a tank' construction, with the outer tank able to maintain a minimum of 110% of the volume of the inner tank. The inner tank acts as the primary storage container, whilst the outer tank acts as a fail safe in the event of a spill.

It is electronically controlled through a flow switch unit which starts and stops the pump automatically when a tap is opened and closed. The Bunded range is designed for areas where the floor space is not restricted.

Key Features

- Non-corrosive holding tank (WRAS approved material)
- Pre-fitted WRAS approved fill valve
- Protective lid enclosure as standard
- Minimal installation requirement
- Built-in electronic start/stop
- Dry run protection with auto restart (time delay)
- AF Air gap
- Suitable up to Fluid Category 4



Overflow Inlet



Variable Speed Option

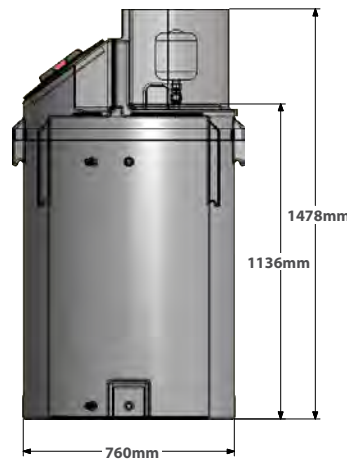


Range Options

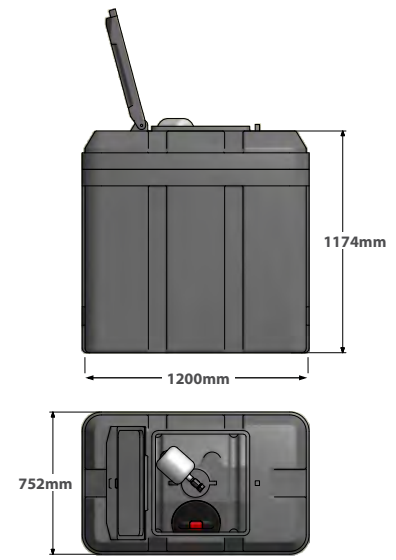
Model
250ltr Bunded Fixed Speed
250ltr Bunded Variable Speed
650ltr Bunded Fixed Speed
650ltr Bunded Variable Speed

System Connections

Connection	Size
Inlet	1/2" BSP
Outlet	1" BSP
Overflow	1 1/4" BSP
Drain Off	1" BSP



250ltr Bunded



650ltr Bunded

	Fixed Speed Option		Variable Speed Option	
Power supply	240 volt, 50Hz		240 volt, 50Hz	
Controller	Presflo Multi with integral 3 litre pressure vessel		Steadypres M/T 07 supplied with 8ltr pressure vessel	
Current Input	3.4 amp		4 amp	
Mains Power Cable	2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug		2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug	
Tank Weight Empty	250ltr = 49kg	650ltr = 94kg	250ltr = 55kg	650ltr = 100kg
Tank Weight Full	1ltr = 1 kg plus weight of empty tank		1ltr = 1 kg plus weight of empty tank	
Access Cover Ø	Internal 190mm, External 285mm		Internal 190mm, External 285mm	

Pump Option	Power		Ql/min	0	10	20	30	40	50	60	70	80
	kW	HP										
Fixed Speed	0.55	0.75	H Metres	42	40	38	34	30	24	18	11.5	5
Variable Speed	0.75	1	H Metres	63	61	59	57	54	50	45	39	31

AES AG BOOSTER SETS

CAT 5



AES AG CAT 5: 10ltr

The AES AG CAT 5 provides backflow protection for fluid category 5 risks. Our system includes a type AB air-gap and has a water volume of 10 ltrs. We supply this tank with a self priming jet pump to ensure smooth operation. The electronic controller automatically starts and stops the pump when a drop in pressure is sensed i.e. a tap is opened and closed.

Key Features

- Non-corrosive holding tank
- Pre-fitted WRAS approved fill valve
- Integral screened overflow weir
- Minimal installation requirement
- Adjustable digital display flow controller
- Dry run protection with auto restart (time delay)
- Self Priming Jet Pump
- AB Air gap
- Suitable up to Fluid Category 5

* AES AG Compact also suitable for Fluid Category 5

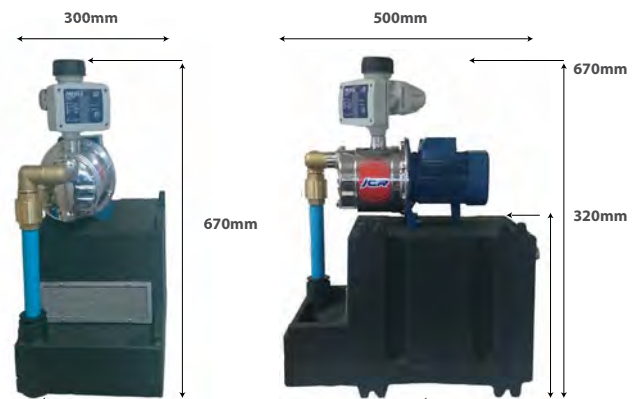


Range Options

Model
10ltr CAT 5 Fixed Speed

System Connections

Connection	Size
Inlet	¾" BSP
Outlet	1" BSP
Overflow	40mm Wastepipe



10ltr CAT5

	Fixed Speed Option
Power supply	240 volt, 50Hz
Pump	JCRm1C-N
Controller	Presflo
Current Input	3.4 amp
Mains Power Cable	2 mtr x 1mm2 3 core fitted with 13 amp fuse main plug
Tank Weight Empty	14 kg
Tank Weight Full	1ltr = 1 kg plus weight of empty tank
Access Cover Ø	N/A

Pump Option	Power		Q l/min	0	5	10	20	25	30	40	45	50	60
	kW	HP											
JCRm1C-N	0.37	0.5	H Metres	35	32	28.5	23.5	21	18.5	15	13.5	12	10

AES AG BOOSTER SETS

Slave Tanks

The AES AG is a single pump booster set for cold water storage with capacity options ranging from 125ltr to 1000ltr. By simply adding an additional 'slave' tank, water storage capacity can be increased.

Compact

Model	Height	Length	Width
125ltr tank only	767mm	560mm	490mm



Slimline

Model	Height	Length	Width
200ltr tank only	1190mm	N/A	584mm
350ltr tank only	1656mm	N/A	584mm



Utility

Model	Height	Length	Width
500ltr tank only	1393mm	N/A	760mm
650ltr tank only	1083mm	1083mm	669mm
750ltr tank only	2113mm	N/A	760mm
1000ltr tank only	1444mm	1688mm	563mm



Rectangular

Model	Height	Length	Width
200ltr tank only	540mm	1106mm	457mm
270ltr tank only	521mm	1571mm	457mm
300ltr tank only	710mm	1045mm	665mm
500ltr tank only	800mm	1190mm	727mm

