

**BIANCO<sup>®</sup>**  
**PUMPZ**

# Bianco Pumpz

BEST IN CLASS ENGINEERING



**2019**

 **WHITE<sup>®</sup>**  
INTERNATIONAL

# WHAT IS BEST IN CLASS ENGINEERING?

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Bianco Pumpz evolved from an industry need for a high quality pump solution products in 2004.

The range of Bianco Pumpz provides the Australian, New Zealand, Pacific and Asian market places an engineering pump solution.

We deliver dependable, innovative, quality, engineered performance pumps that are energy efficient for today's requirements.

Bianco Pumpz and iCON controls will provide a value for money water solution for your business, we call it Best in Class Engineering.

Bianco Pumpz and iCON control products service the:

- Irrigation markets (water pump and solar solutions)
- Residential markets (household pump systems and rain harvesting)
- Commercial markets (water pump and drainage solutions)
- Industrial markets (wastewater and sewer solutions)

Bianco Pumpz and iCON controls a solution for now and future water needs.





# INNOVATION

- Bianco Pumpz' innovative technology, known as iCON, spans beyond pumps and is now featured across our iCON Control range.
- iCON Drives, iCON Pumps, iCON iPRESS.
- iCON Packaged Pump Stations for your sewer and water applications.
- We have an innovative iCON water solution for your business requirements.



# QUALITY

- Bianco Pumpz and iCON controllers optimise the best in world class engineering quality standards.
- Every shipment is checked and inspected according to meet Australian & New Zealand standards.
- Partnering with manufacturing specialists in China to ensure our products arrive in Australia at the highest quality.



# ENGINEERING & DESIGN

- Engineering designs for Australian requirements.
- Tooling owned by White International.
- Quality bearings and high quality approved seals.
- Stainless steel shafts.



# PERFORMANCE & RELIABILITY

- Stringent assembly quality control process for Bianco and iCON products.
- Series 2 pumps use high quality motor designs.
- Advanced hydraulic design for maximising flow rates.





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## Introducing the Bianco iPRESSPRO...

The BIA-iPRESSPRO is a device used to control electric 240V pumps of 2.2kW or less. The controller monitors both the pressure and the flow. There is no need for a separate (expansion) pressure tank (except when used in mode 2). The unit will protect the pump should the water supply fail (due to a blockage in the pipe or tank running dry) and will automatically restart normal operation once water is restored.

The iPRESSPRO is the first electric pump controller with a fully adjustable cut in (start) pressure of between 0.5-6.0 bar and a cut out (stop) pressure of between 0.8-9.8 bar. The iPRESSPRO has the ability to operate as either a standard auto restart pressure controller (start pressure to be set – no pressure tank required, Mode 1) or an automatic restart loss of prime pressure switch (start and stop pressure to be set - pressure tank required, Mode 2). The iPRESSPRO enables the home owner full control of the pressure system.

The iPRESSPRO includes a lockout system to prevent unauthorised adjustments and is supplied with power leads.



BIA-iPRESSPRO  
802776






## Stainless Steel Jet Pump Pressure Systems



Fully electronic high performance self-priming pumps designed for domestic water supply for urban and rural water storage tanks. Designed completely from non-ferrous materials to impede the effects of corrosion.

Automatic electronic pump control provides constant pressure at low to full flows and provides dry run protection. The auto restart function will restart normal operation when water is restored. Automatic control incorporates electrical surge protection, rotatable pump connection and in-built check valve.

Model / Item Code / Taps	Nominal Pressure	Total Suction Head (m)				Rated Power	Pressure Range (kPa)	Max. Pump (kPa)	Max. Pump (Bar)	Connections Inlet x Outlet	Weight (kg)
		0 m L/m	3 m L/m	5 m L/m	6 m L/m						
BIA-INOX45S2MPCX 804913 	220 kPa, 32 psi	58	38	32	30	450W	150-343	395	3.95	1" BSPF x 1" BSPM	11
BIA-INOX60S2MPCX 802801 	220 kPa, 32 psi	62	43	36	34	600W	220-411	430	4.3	1" BSPF x 1" BSPM	11.5
BIA-INOX90S2MPCX 802802 	220 kPa, 32 psi	79	52	44	41	750W	220-450	500	5.0	1" BSPF x 1" BSPM	13

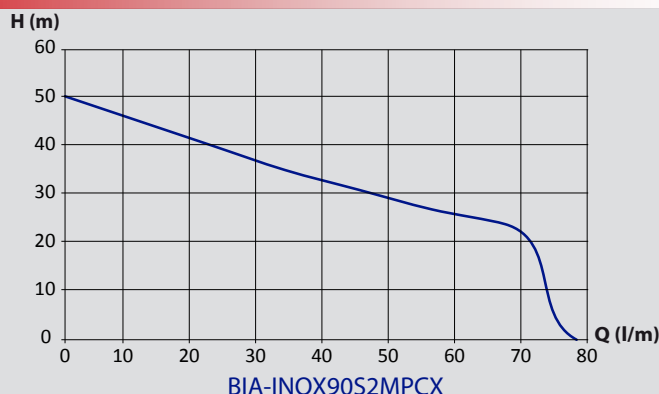
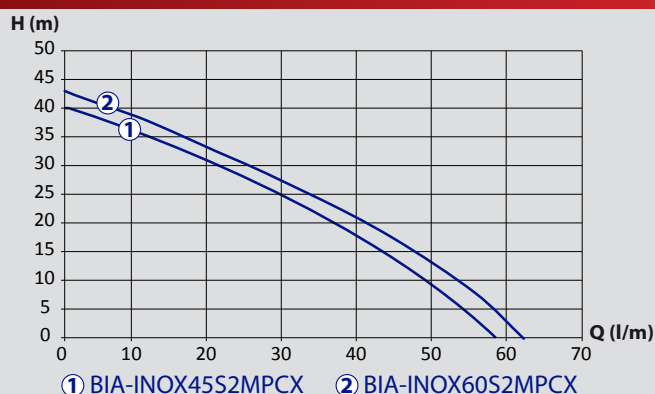
Note: The taps shown above have been calculated at 10 litres per minute.



BIA-INOX60S2MPCX



## Performance Curves



# Stainless Steel

## Horizontal Multistage Pressure Systems



Corrosion resistant stainless steel construction.

Ideal for domestic water supply for small and large homes, irrigation, car washing and general water transfer systems.

Automatic electronic pump control fitted and wired, starts and stops the pump automatically when a tap is turned on or off.





Automatic control incorporates electrical surge protection, rotatable pump connection and in-built check valve.

Horizontal multistage for quiet and efficient pumping.



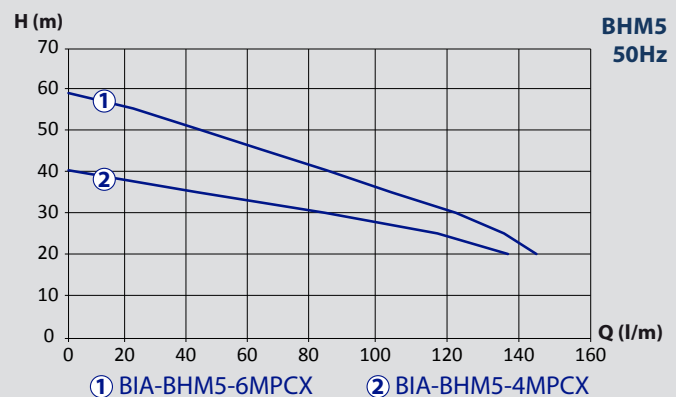
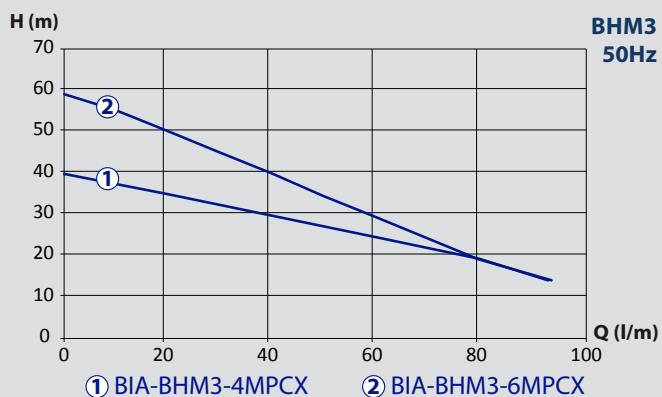
BIA-BHM5-6MPCX



Model / Taps	Item Code	Nominal Pressure	Total Suction Head (m)				Rated Power	Pressure Range (kPa)	Max. Pump kPa	Max. Pump Bar	Connections Inlet x Outlet	Weight (kg)
			0 m L/m	3 m L/m	5 m L/m	6 m L/m						
BIA-BHM3-4MPCX 	802436	220 kPa 32 psi	93	55	46	43	550W	220-352	390	3.9	1" BSPF x 1" BSPM	12
BIA-BHM3-6MPCX 	802437	220 kPa 32 psi	94	55	46	43	750W	220-548	580	5.8	1" BSPF x 1" BSPM	15
BIA-BHM5-4MPCX 	802438	220 kPa 32 psi	137	80	67	63	750W	220-372	400	4.0	1-1/4" BSPF x 1" BSPM	16
BIA-BHM5-6MPCX 	802439	220 kPa 32 psi	145	80	67	63	1300W	220-548	590	5.9	1-1/4" BSPF x 1" BSPM	20

Note: The taps shown above have been calculated at 10 litres per minute.

## Performance Curves



The Bianco Series 2.0 end suction Peripheral Turbine Pump is an ideal device for low flow applications.

They are especially suited as jacking pumps, commercial and industrial washdowns as well as domestic gardening. They are also ideal for tank water transfer. Suitable for clean water and in applications where there is flooded suction.



BIA-PTF

Peripheral Turbine Pumps have the following features:

- Corrosion resistant pump body and impeller to ensure pump durability
- Cataphoresis<sup>1</sup> treatment of pump body for rust prevention to ensure no water discoloration or suspended particles
- High quality mechanical shaft seal and high quality bearings
- 240V single phase TEFC motor with in-built auto reset thermal overload to prevent overheating of the pump.

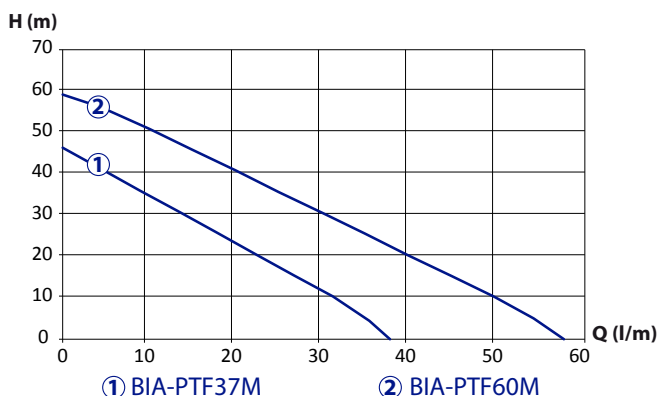
### Bare Pumps (without controls)

Model / Taps	Item Code	Nominal Pressure	Total Suction Head (m)				Rated Power	Max. Pump kPa	Max. Pump Bar	Connections Inlet x Outlet	Weight (kg)
			0 m L/m	3 m L/m	5 m L/m	6 m L/m					
BIA-PTF37M ပိတ်ပိတ်ပိတ်	802788	220 kPa 32 psi	40	30	27	24	370W	450	4.5	1" BSPF x 1" BSPF	12
BIA-PTF60M ပိတ်ပိတ်ပိတ်	802790	220 kPa 32 psi	58	38	32	30	600W	580	5.8	1" BSPF x 1" BSPF	12

Note: The taps shown above have been calculated at 10 litres per minute.



### Performance Curve





The automatic electronic pump control fitted and wired, starts and stops the pump automatically when a tap is turned on or off. Automatic electronic pump control provides constant pressure at low to full flows and provides dry run protection.

The auto restart function will restart normal operation when water is restored. Automatic control incorporates electrical surge protection, rotatable pump connection and in-built check valve. Corrosion resistant pump body and impeller. FERRO60 also features a corrosion resistant Venturi and diffuser. Mechanical shaft seal. 240V single phase TEFC motor with in-built auto-reset thermal overload.

Cataphoresis<sup>1</sup> treatment of pump body for rust prevention.

<sup>1</sup> Cataphoresis is an electrochemical coating process for metallic surfaces widely used in the industry due to its penetration and long life, either as a priming coat or finished paint for corrosion resistance.

Model / Taps	Item Code	Nominal Pressure	Total Suction Head (m)				Rated Power	Pressure Range (kPa)	Max. Pump kPa	Max. Pump Bar	Connections Inlet x Outlet	Weight (kg)
			0m L/m	3m L/m	5m L/m	6m L/m						
BIA-PTF37MPCX မြေရေပေးစနစ်	802789	220 kPa 32 psi	40	30	27	24	370W	220-392	460	4.5	1" BSPF x 1" BSPM	12
BIA-FERRO60MPCX မြေရေပေးစနစ်	802793	220 kPa 32 psi	63	44	37	35	600W	220-441	450	4.5	1" BSPF x 1" BSPM	17

Note: The taps shown above have been calculated at 10 litres per minute.

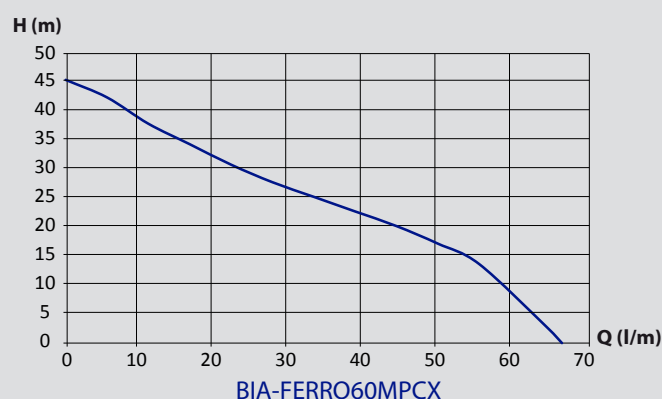
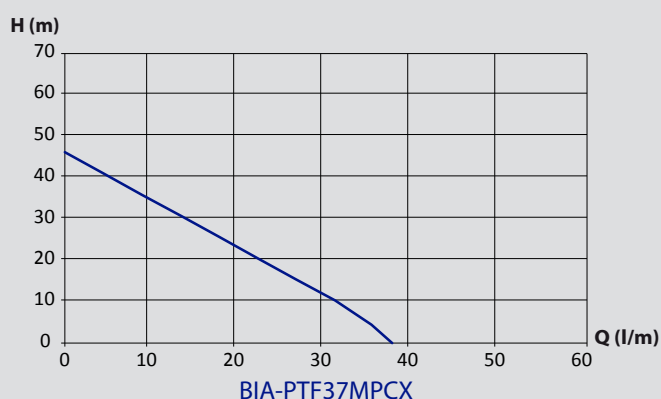


BIA-PTF37MPCX



BIA-FERRO60MPCX

## Performance Curve



# Rain Harvesting Systems

## Rainsaver MK4E Pressure Systems



### Rainsaver MK4E Changeover Device.

Designed to operate with pumps up to 800kPa. 100L/m flow. 12V Low voltage Float. WaterMark approved for connection to all town water supplies. Aesthetically designed and requires no weather proofing. IP33. For self-controlled pumps up to 1.5hp, 1.1kW, 240V.



BIA-RAINSAVERMK4E

Model/Item Code	Description
<b>BIA-RAINSAVERMK4E 805617</b>	Designed to operate with pumps up to 800kPa. 100L/m flow. 12V Low voltage Float. IP33 For self controlled pumps up to 1.5hp, 1.3kW, 240V.
<b>RS4E-INOX45S2MPCX 805332</b>	Rainsaver MK4E & BIA-INOX45S2MPCX Stainless Steel 450W Electronic Self Priming Pump with Auto Restart, 395kPa, 58L/m တံခွန်တံခွန်တံခွန်တံခွန်
<b>RS4E-INOX60S2MPCX 803793</b>	Rainsaver MK4E & BIA-INOX60S2MPCX Stainless Steel 600W Electronic Self Priming Pump with Auto Restart, 430kPa, 62L/m တံခွန်တံခွန်တံခွန်တံခွန်
<b>RS4E-INOX90S2MPCX 803794</b>	Rainsaver MK4E & BIA-INOX90S2MPCX Stainless Steel 750W Electronic Self Priming Pump with Auto Restart, 500kPa, 79L/m တံခွန်တံခွန်တံခွန်တံခွန်
<b>RS4E-BHMS-6MPCX 803151</b>	Rainsaver MK4E & BIA-BHMS-6MPCX Stainless Steel 1300W Multistage Electronic Pump with Auto Restart, 590kPa, 145L/m တံခွန်တံခွန်တံခွန်တံခွန်တံခွန်တံခွန်
<b>RS4E-B42ACMPCXBPH Builder's Pack 805666</b>	Rainsaver MK4E, WHI-SK10AXHS2 adjustable electronic controller and BIA-B42ACMPCX. High Head Multistage Submersible 550W Clean Water Pump with built-in riser. Automatic Rainwater/Mains Water Changeover Device with auto restart pump controller are mounted in galvanised enclosure with easy access cover. 320 kPa, 94 L/m, 10m power cable တံခွန်တံခွန်တံခွန်တံခွန်တံခွန်တံခွန်
Note: Taps shown above have been calculated at 10 litres per minute. Supplied with 10m power cable Includes 2 Year Rainsaver MK4E Infield Warranty	



RS4E-INOX60S2MPCX



RS4E-BHMS-6MPCX



RS4E-B42ACMPCXBPH



# Rain Harvesting Systems

## Rainsaver MK6 Pressure Systems




### Rainsaver MK6 Features:

- Requires no power supply and consumes no electrical energy
- Designed to further save water resources by reducing incoming mains to 200 kPa
- Requires no weather proofing
- Can be mounted any distance from the pump underground or inside a tank
- UV stabilised technopolymer for long life and aesthetics
- All Rainsaver MK6 pumps are independently controlled to regulate flows and pressures whilst protecting the pump against voltage fluctuations, loss of water and incorporate a 24 hour automatic pump restart



BIA-RAINSAVERMK6

Model/Part No	Description
<b>RS6-IPRESSPRO 804708</b>	The BIA-IPRESSPRO is a pump controller and rainwater/mains changeover kit suitable for a range of pumps.  The IPRESSPRO combines a 300 kPa high pressure BIA-RAINSAVERMK6-300 and a BIA-IPRESS preset to 320 kPa start for high performance RAINSAVER systems.  The BIA-IPRESSPRO can be fitted to pumps up to 2.2 kW, pressures to 9.8 bar and flows to 120 l/m.
<b>RS6-B42ACMPC20 805664</b>	Rainsaver MK6 & BIA-B42AMPC20 High Head Multistage Submersible 550W Clean Water. Automatic. Built in riser. Rainwater/Mains changeover device with separate adjustable auto restart pump controller mounted in stainless steel enclosure. 320 kPa, 94 L/m, 10m power cable 
<b>RS6-INOX45S2MPCX 805127</b>	Rainsaver MK6 & BIA-INOX45S2MPCX Stainless Steel 450W Electronic Self Priming Pump with Auto Restart, 395kPa, 58L/m. Supplied as a kit for assembly. 
<b>RS6-INOX60S2MPCX 804715</b>	Rainsaver MK6 & BIA-INOX60S2MPCX Stainless Steel 600W Electronic Self Priming Pump with Auto Restart, 430kPa, 62L/m Supplied as a kit for assembly. 
<b>RS6-INOX90S2MPCX 804716</b>	Rainsaver MK6 & BIA-INOX90S2MPCX Stainless Steel 750W Electronic Self Priming Pump with Auto Restart, 500kPa, 79L/m. Supplied as a kit for assembly. 
<b>RS6-BHM5-6MPCX 804718</b>	Rainsaver MK6 & BIA-BHM5-6MPCX Stainless Steel 1300W Multistage Electronic Pump with Auto Restart, 590 kPa, 145 L/m. Supplied as a kit for assembly. 
<b>RS6-B42ACMPC20BP 805772</b>	Rainsaver MK6 & BIA-B42AMPC20 High Head Multistage Submersible 550W Clean Water. Automatic. Built in riser. Rainwater/Mains changeover device with separate adjustable auto restart pump controller mounted in galvanised enclosure with easy access cover. 320 kPa, 94 L/m, 10m power cable 

Note: Taps calculated at 10 L/m  
Rainsaver MK6 - not for sale separately  
Warranty Service is provided at the nearest authorised service agent



RS6-IPRESSPRO



RS6-INOX60S2MPCX



RS6-BHM5-6MPCX

RS6-B42ACMPC20





# Submersible Pumps

## Vortex Drainage Pumps



**The B Series Vortex Pumps are characterised by:**

- Cast iron pump body for durability
- Automatic float switch
- Triple seal system: Dual Mechanical Seal (carbon/ceramic) and oil seal
- Handy carry handle
- Includes universal hose tail adapter
- 240V single phase motor with in-built thermal protection
- 10m H07RNF neoprene chemical and oil resistant cable

**For use in:**

- Dewatering of cellars, ditches, pits, ponds and drains
- Pumping stormwater and waters with non-abrasive soft solids, hair and stringy materials in suspension
- Ideal for greywater pump out and flooded irrigation, sump emptying, septic transfer and pumping of light slurries.
- Particle sizes up to 15mm (B18VAS2, B25VAS2), up to 25mm (B45VAS2, B75VAS2)



BIA-B18VAS2

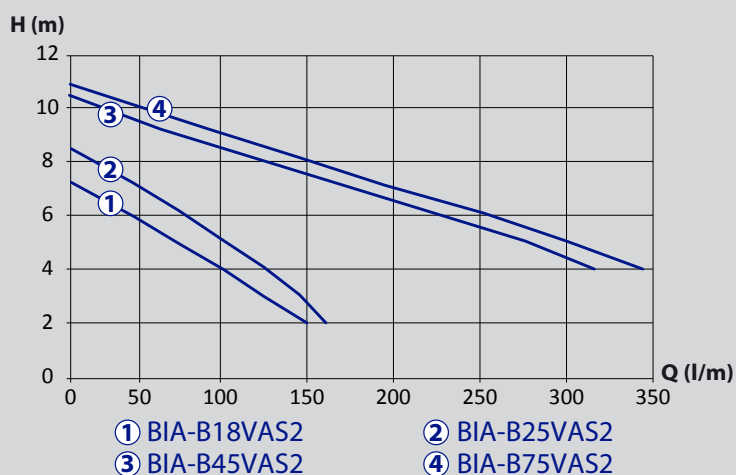


BIA-B75VAS2

Model	Item Code	Mains Frequency	Rated Output	Current	Net Weight	Max Head	Max Flow	Discharge Outlet Size	Capacitor
BIA-B18VAS2*	802766	50 Hz	180W	1.6amp	9.3kg	7.3m	149 L/m	1¼"	8 µF
BIA-B25VAS2	802767	50 Hz	250W	1.8amp	10kg	8.2m	156 L/m	1¼"	9 µF
BIA-B45VAS2	802768	50 Hz	450W	3.7amp	18kg	10.2m	317 L/m	2"	18 µF
BIA-B75VAS2	802769	50 Hz	750W	4.5amp	20kg	10.6m	346 L/m	2"	20 µF

\*Pump not sold in nz

### Performance Curve



# Submersible Pumps

## Plastic Drainage Pump



Drainage pumps for de-watering, including pumping out sumps, flooded areas and pumping water from pits. Not suitable for construction sites, ponds, fountains or biotreatment.

### Special features:

- Simple installation
- Light and compact
- Fully automatic operation, float controlled
- Great value for money
- Supplied complete with 10 metres of electric cable
- Mechanical Seal - carbon/ceramic/nitrile

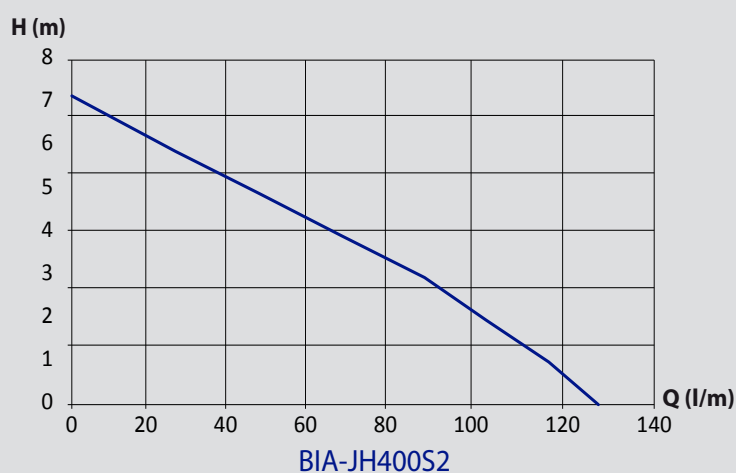


BIA-JH400S2

Model	Item Code	Body Material	Max Granule Size	Max Flow (L/m)	Flow at 2m (L/m)	Flow at 4m (L/m)	Flow at 6m (L/m)	Max Head	Rated Power	Cable Length	Discharge Outlet Size (Multiple)	Capacitor
BIA-JH400S2	803067	Plastic	5mm	127	100	75	45	7.3m	400W	10m	1" 1¼" 1½"	8µF



### Performance Curve





# Submersible Pumps

## Stainless and Plastic Vortex Pump



Designed to pump water with some organic content. Capable of pumping non-abrasive solids in suspension up to 35mm particle size.

### Special features:

- Pumps soft solids up to 35mm
- 10m electrical cord
- Light weight
- Easy to use
- No bucketing required (for calf milking applications)
- Stainless Steel shaft



BIA-Q550B

Model	Item Code	Body Material	Max Granule Size	Max Flow (L/m)	Flow at 2m (L/m)	Flow at 4m (L/m)	Flow at 6m (L/m)	Max Head	Rated Power	Cable Length	Discharge Outlet Size (Multiple)	Carton Dimensions (L x W x H)mm
BIA-Q550B	700835	Stainless Steel	35mm	193	150	105	40	6.1m	550W	10m	1" 1¼" 1½"	220x180x420

## Plastic Vortex Pump (non-abrasive liquids with soft solids in suspension ie: leaves and stringy materials)

Vortex drainage pumps are designed to pump water with some organic content. Capable of pumping non-abrasive solids in suspension up to 35mm particle size. Not suitable for construction sites, ponds, fountains or biotreatment

### Special features:

- Simple installation
- Light and compact
- Fully automatic operation, float controlled
- Great value for money
- Handle particles up to 35mm in size
- Supplied complete with 10 metres of electric cable

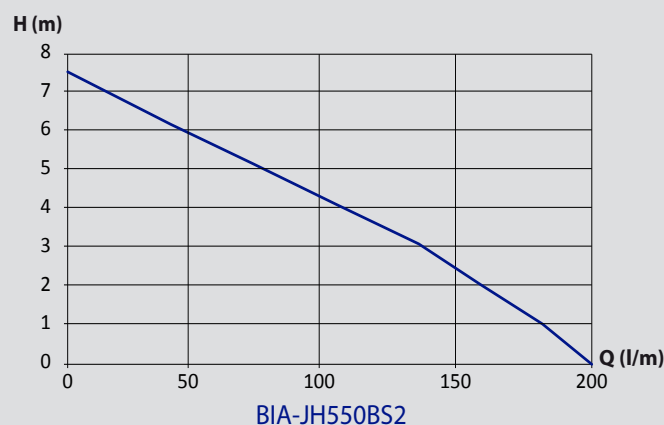
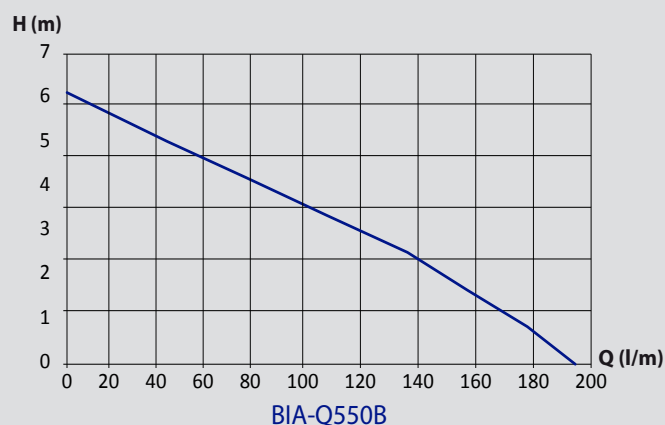


BIA-JH550BS2



Model	Item Code	Body Material	Max Granule Size	Max Flow (L/m)	Flow at 2m (L/m)	Flow at 4m (L/m)	Flow at 6m (L/m)	Max Head	Rated Power	Cable Length	Discharge Outlet Size (Multiple)	Capacitor	Carton Dimensions (L x W x H)mm
BIA-JH550BS2	803070	Plastic	35mm	200	150	105	40	7.5m	550W	10m	1" 1¼" 1½"	8 µF	220x180x420

## Performance Curve





Submersible high head pump designed for AWTS and rainwater tanks. Fitted with Noryl impellers and stainless steel strainer.

### Applications:

- Domestic pressure systems (with optional Press Control)
- Pumping Clean and pre-treated water.
- AWTS – Automated Water Treatment Systems pump out to dripper beds.
- De-watering of cellars, basements and garages.

### Special features:

- Glass Filled Nylon pump body and Stainless Steel cover for strength and lightness.
- Easy grip, nylon carry handle.
- Triple seal system: Dual mechanical seal (Carbon ceramic) in oil bath and Oil Seal
- 3 Stage High Head pump with durable Noryl impellers.
- Elevated (88mm) suction intake with Algae-proof slotted strainer.

- 10m Power lead and automatic Float Switch.
- All cables to H07RNF standard.
- 240V Single Phase , 0.55kW
- Built in auto-resetting thermal overloads

### Benefits:

- Strainer design improves water flow and prevents blockage from algae growth.
- Elevated intake draws oxygenated water from higher in tank and avoids sludge layer.
- Leads to improved water quality with lower algae and anaerobic matter for better smelling water and cleaner clothes washing.
- Quality pump materials assist with longer pump life while still being light to lift and lower.
- High Head pump with low energy usage

Designed for AWTS

Liquid:		Electrical data:	
Clean water temperature range	2 – 35 °C	Rated voltage	240V
<b>Materials:</b>		Mains frequency	50 Hz
Pump body	Glass filled nylon	Rated output	550W
Strainer	304 SS	Current	3.4 amps
Impeller	Glass filled nylon	Capacitor	18 µF
Shaft	Stainless Steel 410	Motor duty	Continuous
Shaft seal	Triple seal system: Dual mechanical seal (Carbon ceramic) in oil bath and Oil Seal	Motor type	Asynchronous
<b>Installation:</b>		Motor protection	Built-in thermal overload
Maximum ambient temperature	40 °C	Ingress protection	IP 68
Pipe connections discharge	1" BSPF	Insulation class	B
		Power cable length	10 m H07RNF
		Net weight	12 kg
		Dimensions (Pump)	225L x 163W x 490H (mm)



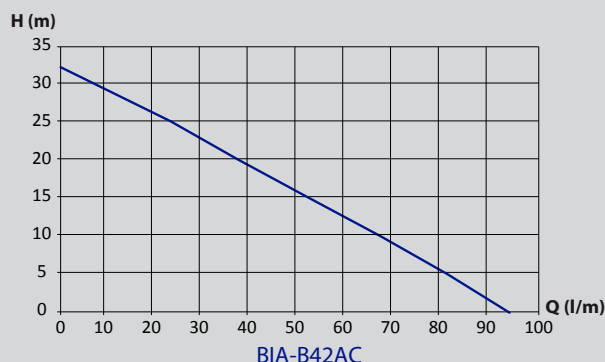
BIA-B42AC

## Submersible Pressure System

Ideal for domestic water supply

MPCX model includes SK13BA prewired and mounted on a stainless steel wall bracket. Complete with cover.

### Performance Curve



BIA-B42ACMPCX

MPCX Bracket

Model	Item Code	Description
BIA-B42AC	805140	0.55kW, 0.75hp, 240V, max head 32m, max flow 94L/m, discharge outlet size 1", solids up to 3mm, 10 taps
BIA-B42ACMPCX	805663	

# Drainage Pump

with Internal Float Switch  
(clean water use)



BIA-JH40011 S2

Light and compact submersible clean water pump.

Supplied wired and ready to install. Ideal for pits or confined spaces where floats do not work. Incorporates float on/off switch for manual and automatic level control.

The pump has an internal float switch which will not foul and allows for installation in small sumps.

(min size 260mm x 160mm x 330mm deep).

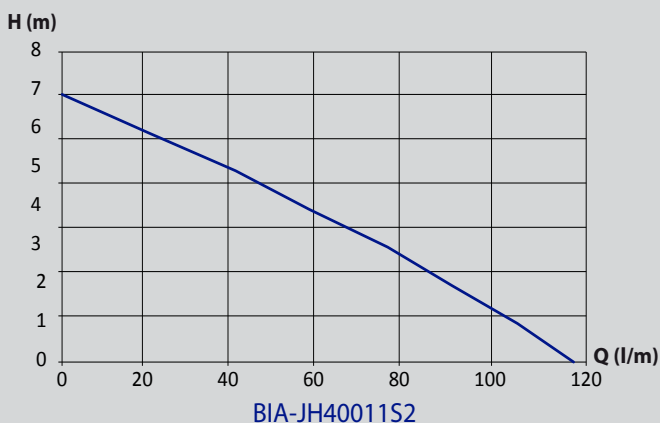
When switched to manual mode, the scavenger type base allows pumping down to 5mm.

Not suitable for construction sites, ponds, fountains or biotreatment. Pump Dimensions: 203 x 321mm

Model	Item Code	Body Material	Max Granule Size	Max Flow (L/m)	Flow at 2m (L/m)	Flow at 4m (L/m)	Flow at 6m (L/m)	Max Head	Rated Power	Cable Length	Discharge Outlet Size (Multiple)	Capacitor
BIA-JH40011S2	803068	Plastic	5mm	118	100	72	32	7m	400W	10m	1" 1¼" 1½"	6 µF



## Performance Curve



# Waste Water / Sewage Pumps

## Grinder Pumps



The B120GS2 & B120GMS2 is a new generation grinder pump for use in waste water applications containing soft solids. The pump is designed to grind various materials for pumping to sewer mains or treatment facility. It has a dual ceramic/graphite mechanical seal and H07RNF neoprene chemical and oil resistant power cable. The grade of stainless steel for the Shaft: 304 cutting device Stainless steel 7CR17. The grinding device is replaceable and manufactured from high chromium hardened stainless steel for reliability and long life. Coupling device available for rail mounting:

### Applications:

- Grey & Black Water Pumping
- Sump Emptying
- Septic effluent and sewage disposal
- Pumping of waste water with soft solid in suspension



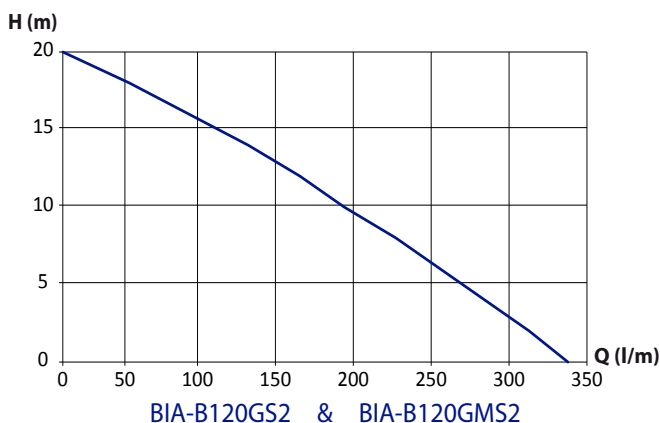
304 Stainless  
Steel Shaft  
7CR17 High Carbon  
Stainless Steel  
Cutting Device



BIA-B120GS2

Model	Item Code	Description	Mains Frequency	Rated Output	Current	Net Weight	Max Head	Max Flow	Discharge Outlet Size	Cable Length	Capacitor
BIA-B120GS2	802770	With Float	50Hz	1500W	9.5amp	27kg	20m	341 L/min	2"	10m	30 $\mu$ F
BIA-B120GMS2	803150	Without Float	50Hz	1500W	9.5amp	27kg	20m	341 L/min	2"	10m	30 $\mu$ F

### Performance Curve





# Waste Water / Sewage Pumps

## Positive Displacement Grinder Pumps



Positive Displacement Grinder Pump with a heavy duty cutter and cutter ring used to treat unstrained waste waters in "low" flow, high head applications.

### Special features:

- Cast iron pump body for durability under harsh conditions
- Available in single phase and three phase, with and without a float
- Heavy duty silicon carbide mechanical seal
- Cutter with cutter rings cuts solids to smallest possible size to reduce clogging
- Used for unstrained wastewaters
- Perfect for low pressure sewer applications
- Packaged Pump Stations also available



PDG Series



Stator & Rotor



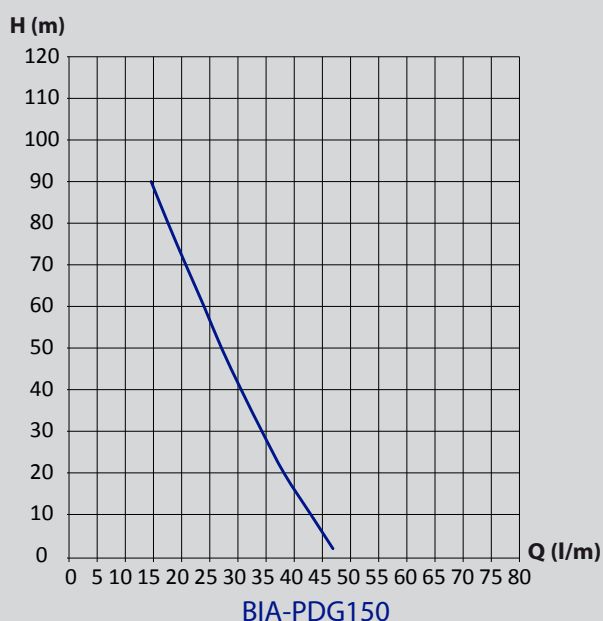
Cutter Impeller



Grinding Ring

Model	Item Code	Rated Power	Mains Frequency	Rated Output	Current	Net Weight	Max Head	Max Flow	Float	Operation	Cable Length	Discharge Outlet Size	Pump Dimensions (mm)
BIA-PDG150M	800587	240V	50 Hz	1100W	8.8amp	40kg	90m	50 l/m	No	Manual	10m	1 - 1/4"	407Lx316Hx720W
BIA-PDG150MA	800252	240V	50 Hz	1100W	8.8amp	40kg	90m	50 l/m	Yes	Automatic	10m	1 - 1/4"	407Lx316Hx720W
BIA-PDG150T	800589	415V	50 Hz	1100W	2.8amp	40kg	90m	50 l/m	No	Manual	10m	1 - 1/4"	407Lx316Hx720W
BIA-PDG150TA	800588	415V	50 Hz	1100W	2.8amp	40kg	90m	50 l/m	Yes	Automatic	10m	1 - 1/4"	407Lx316Hx720W

### Performance Curve



Submersible drainage pump fitted with semi-vortex, urethane coated impeller plus agitator, supplied wired and ready to install. The pump has a dual mechanical seal in oil chamber and can handle particles to 25 mm x 10mm.

## Special features:

- Corrosion resistant pump components
- Fully automatic operation
- Dual Mechanical Seal in oil bath, SIC/SIC, Carbon Ceramic
- Urethane coated semi-vortex impeller allows pumping of suspended solids, sandy and stringy material
- Agitator on the end of the pump shaft helps prevent air locking and clogging
- Carry handle
- Versatile outlet connection.
- 240V single phase motor with in-built auto reset thermal overload.
- 10m of power cable.
- 12 months warranty.
- Suitable for construction sites, stormwater, basements.
- Urethane strainer resists damage



BIA-AHS05A



BIA-LAYFLATKIT



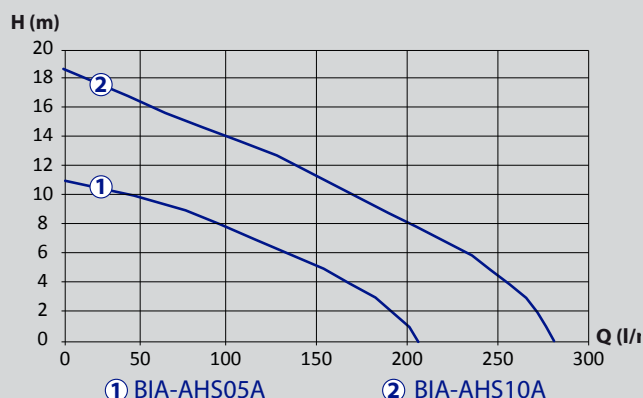
Abrasive Resistant Impeller



Agitator

Model	Item Code	Flows to	Max Head
BIA-AHS05A	700282	205 L/m	11m
BIA-AHS10A	700301	264 L/m	18.7m
BIA-LAYFLATKIT	700755	20m Layflat Hose	

## Performance Curve



### Liquid:

Water temperature range: 2 – 35 °C

### Materials:

Pump body	Cast Iron
Strainer	Urethane
Impeller	Urethane coated semi-vortex
Shaft	Stainless Steel 403
Shaft seal	Dual Mechanical in oil bath, Silicon Carbide/Silicon Carbide + Carbon/Ceramic

### Installation:

Maximum ambient temperature: 40 °C  
Maximum submergence: 8m.  
Pipe connections discharge: 2"

Electrical data:	AHS05A	AHS10A
Rated voltage:	240V, 50Hz	240V, 50Hz
Rated output	400 W	750 W
Current:	2.8 amps	5.6 amps
Capacitor:	15 µF	25 µF
Motor duty:	Continuous	Continuous
Motor protection:	In-built thermal overload	In-built thermal overload
Ingress protection:	IP 68	IP 68
Insulation class:	B	B
Power cable length:	10 m H07RNF	10m H07RNF
Net weight:	13.0 kg	19.2 kg
Maximum particle size:	25 x 10 mm	25 x 10 mm
Warranty:	12 Months	12 Months

# Centrifugal Pumps

## Cast Iron Centrifugal Pumps



Horizontal single stage\* cast iron centrifugal pumps supplied ready to install. Used especially for water transfer. (\*FCT is twin stage)

### The pumps are characterised by:

- Corrosion resistant cast iron pump body and bracket cover with cataphoresis<sup>1</sup> treatment, and 304 stainless steel impeller and shaft.
- Mechanical shaft seal.
- TEFC motors.
- Motor support foot.

### Applications:

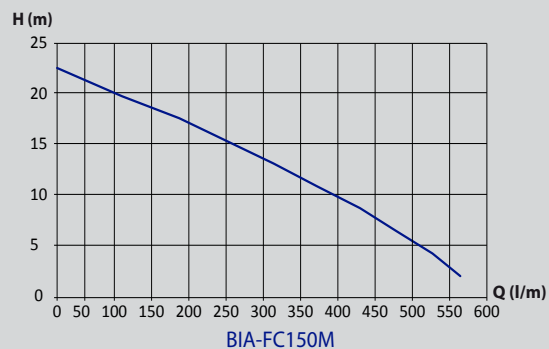
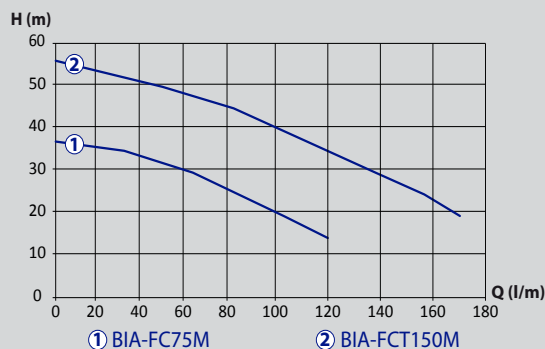
Suitable for industrial washdown, water transfer and tank filling.  
Suitable for fire fighting, HVAC, circulation and pressure boosting.

<sup>1</sup> Cataphoresis is an electrochemical coating process for metallic surfaces widely used in the industry due to its penetration and long life, either as a priming coat or finished paint for corrosion resistance.



Model	Item Code	Features
BIA-FC75M	802805	0.75kW, 1.0hp, 240V, max head 37m, max flow 119L/m. Ports 1" BSPF In, 1" BSPF Out.
BIA-FCT150M	802816	1.5kW, 2.0hp, 240V, max head 56m, max flow 170L/m. Ports 1-1/2" BSPF In, 1" BSPF Out.
BIA-FC150M	802806	1.5kW, 2.0hp, 240V, max head 22.5m, max flow 559L/m. Ports 2" BSPF In, 2" BSPF Out.

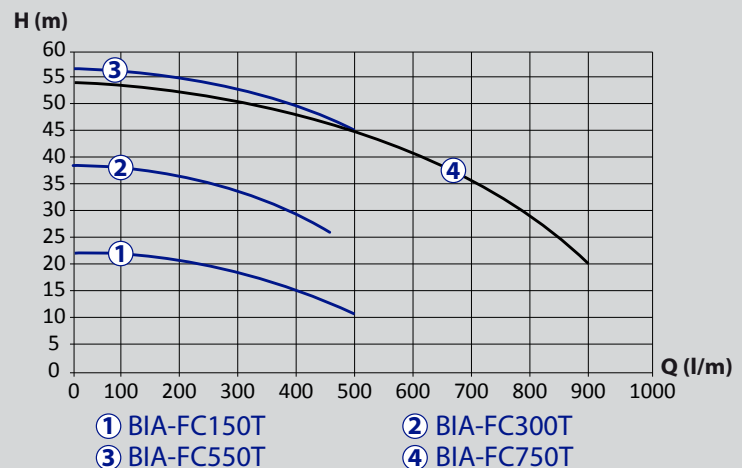
### Performance Curve



Pumps sold in New Zealand only

Model	Item Code	Features
BIA-FC150T	802807	1.5kW, 2.0hp, 415V, max hd 22m, max flow 500L/m. Ports 2" BSPF In, 2" BSPF Out.
BIA-FC300T	802808	3.0kW, 4.0hp, 415V, max hd 38m, max flow 450L/m. Ports 2" BSPF In, 2" BSPF Out.
BIA-FC550T	802809	5.5kW, 7.5hp, 415V, max hd 54m, max flow 500L/m. Ports 2" BSPF In, 2" BSPF Out.
BIA-FC750T	802810	7.5kW, 10hp, 415V, max hd 56m, max flow 900L/m. Ports 2" BSPF In, 2" BSPF Out.

### Performance Curve





# Centrifugal Pumps

Close Coupled, Stainless Steel,  
Single Stage Centrifugal Pumps



Suitable for water circulation, car washing, tank emptying, gardening, fountains, irrigation and vat washing.

## Special Features:

- Light weight
- Noiseless and reliable operation
- High Performance
- Water temperature up to 85°C
- Constructed from AISI 304 Stainless Steel
- Corrosion resistant

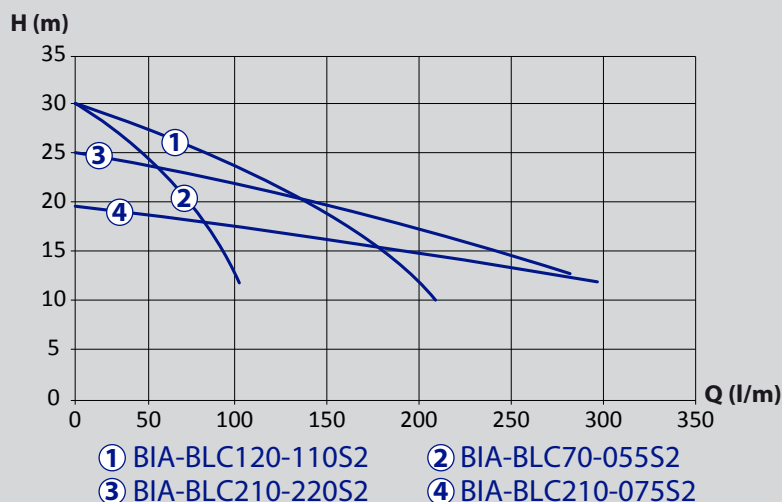


BIA-BLC70-055S2

Model	Item Code	Features
BIA-BLC70-55S2	802812	0.55kW, 0.75hp, 240V, max head 30m, max flow 101L/m, Ports 1 1/4" BSPF In, 1" BSPF Out
BIA-BLC120-110S2	802813	1.1kW, 1.5hp, 240V, max head 30m, max flow 204L/m, Ports 1 1/4" BSPF In, 1" BSPF Out
BIA-BLC210-220S2	802814	2.2kW, 3.0hp, 415V, max head 25m, max flow 279L/m, Ports 1 1/2" BSPF In, 1 1/4" BSPF Out
BIA-BLC210-75S2	802815	0.75kW, 1.0hp, 415V, max head 19m, max flow 296L/m, Ports 1 1/2" BSPF In, 1 1/4" BSPF Out



## Performance Curve



## BIA-C2060-150, BIA-C280-180 and BIA-C3280-180

These pumps are used for domestic hot water circulating. The stainless steel housing makes them suitable for drinking water use and underfloor heating. They are maintenance free and are low in noise. Supplied complete with unions.

Model	Item Code	Max Op Pressure	Port Spacing	Port Size	Max Hd	Rated Power	Max Flow	Mains Frequency	Speeds	Power Cable
BIA-C2060-150	802778	10 bar	150mm	1 1/4" BSPM with 1 1/4" BSPF - 3/4" BSPF unions	6m	100W	42L/min	50Hz	1,2,3 55W,70W, 100W	1m
BIA-C2580-180	802779	10 bar	180mm	1 1/2" BSPM with 1 1/2" BSPF - 1" BSPF unions	8m	245W	100L/min	50Hz	1,2,3 135W,190W, 245W	1m
BIA-C3280-180	805645	10 bar	180mm	2" BSPM with 2" BSPF - 1 1/4" BSPF unions	8m	245W	134L/min	50Hz	1,2,3 132W,140W, 245W	1m



## BIA-C1509-160 Booster

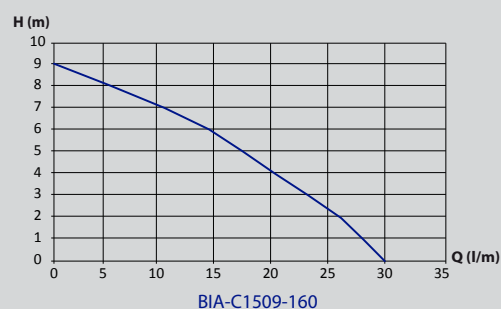
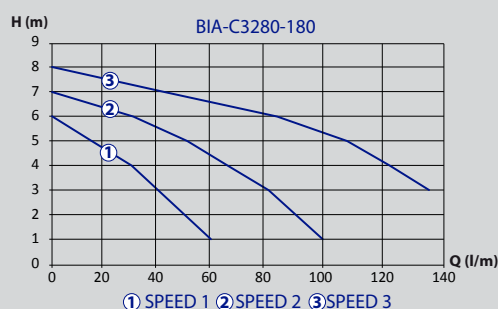
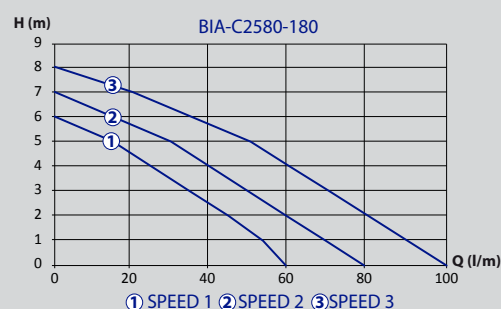
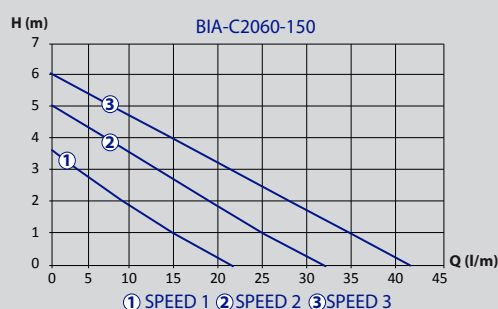
This is a pump used for domestic hot water boosting. The booster is suitable for boosting pressure for gravity-fed hot water systems. It is maintenance free and is low in noise. Supplied complete with unions.

Model	Item Code	Max Operating Pressure	Port Spacing	Port Size	Max Hd	Rated Power	Max Flow	Mains Frequency	Power Cable
BIA-C1509-160	803064	10 bar	160mm	3/4" BSPM with 3/4" BSPF - 1/2" BSPM unions	9m	120W	30L/min	50Hz	1m



BIA-C1509-160

## Performance Curve





## iCIRC Circulator

This is a pump used for domestic hot water circulating. The stainless steel housing makes it suitable for underfloor heating. It is maintenance free and is low in noise. Supplied complete with unions.

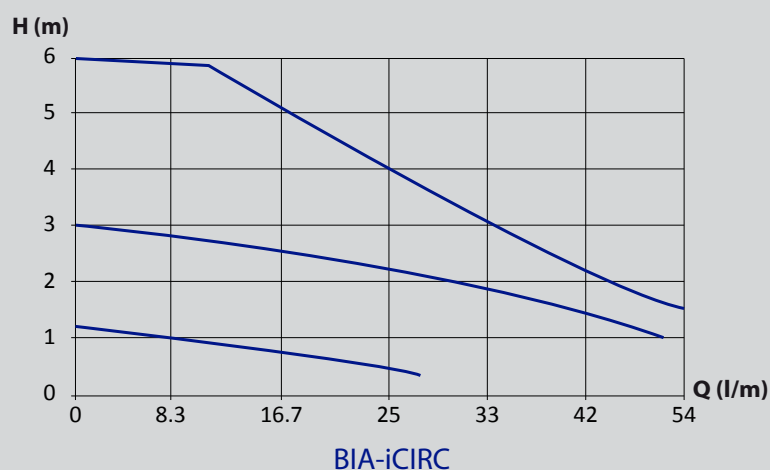
The integrated variable speed drive automatically adapts the circulator to each system's demand, only operating the pump at the necessary speed to run the system. This energy efficient circulator also has the highest efficiency rating 'A' in the industry, saving customers money all day every day.



Model	Item Code	Max Operating Pressure	Port Spacing	Port Size	Max Hd	Rated Power	Max Flow	Mains Frequency	Power Cable
BIA-iCIRC	802777	10 bar	150mm	1 1/2" BSPM with 1 1/2" BSPF - 1" BSPF unions	6m	45W	54L/min	50Hz	1m



## Performance Curve





Model	Item Code	Description
BIA-SK6	700968	Loss of Prime Pressure Switch <ul style="list-style-type: none"> <li>Pressure switch setting: 1 - 6 Bar</li> <li>Factory setting: 1.4 - 2.8 Bar</li> <li>240V, 1ph, IP44</li> <li>Connection: 6mm (1/4") BSP</li> </ul>
BIA-SK9A	700969	Adjustable Pressure Switch 6 Bar <ul style="list-style-type: none"> <li>Stainless steel back plate</li> <li>Pressure switch setting: 1 - 6 Bar</li> <li>Factory setting: 1.4 - 2.8 Bar</li> <li>240V, 1ph, IP44</li> <li>Connection: 6mm (1/4") BSP</li> </ul>
BIA-SK12(5M)	700965	5 Metre Float Switch with H05 Neoprene Cable <ul style="list-style-type: none"> <li>240V, 1ph, 10 A max, "3 wire", IP68</li> <li>Max 50 °C</li> </ul>
BIA-SK12(10M)	700962	10 Metre Float Switch with H05 Neoprene Cable <ul style="list-style-type: none"> <li>240V, 1ph, 10 A max, "3 wire", IP68</li> <li>Max 50 °C</li> </ul>
BIA-FSK1	700610	10 Metre Float Switch with H07 Neoprene Cable <ul style="list-style-type: none"> <li>240V, 1ph, 16 A max, "3 wire", IP68</li> <li>Max 50 °C</li> </ul>
BIA-SK12CWB	700967	Float Switch Counterweight <ul style="list-style-type: none"> <li>200g - float switch counterweight featuring cable gland fixing</li> </ul>
BIA-iPRESSPRO	802776	Pressure Controller <ul style="list-style-type: none"> <li>The BIA-iPRESSPRO is a device used to control electric 240V pumps of 2.2kW or less.</li> <li>The controller monitors both the pressure and the flow.</li> <li>First electric pump controller with a fully adjustable cut in (start) pressure of between 0.5-6.0 bar and a cut out (stop) pressure of between 0.8-9.8 bar.</li> </ul>
WHI-SK10PPHS2	711941	Auto Restart Automatic Pump Controller Plug & Play (IEC) <ul style="list-style-type: none"> <li>240V, 1ph, 10A max, 1.5kW, 2.0hp, IP65, Ports 1" BSPM</li> <li>Cut in pressure setting 1.5 Bar</li> <li>AS/NZS4020 Approved for Drinking Water</li> </ul>
WHI-SK20PPHS2	711942	Auto Restart Automatic Pump Controller Plug & Play (IEC) <ul style="list-style-type: none"> <li>240V, 1ph, 10A max, 1.5kW, 2.0hp, IP65, Ports 1" BSPM</li> <li>Cut in pressure setting 2.2 Bar</li> <li>AS/NZS4020 Approved for Drinking Water</li> </ul>
WHI-SK10AXHS2	711943	Auto Restart Automatic Pump Controller Plug & Play (3 pin socket) <ul style="list-style-type: none"> <li>240V, 1ph, 10A max, 1.5kW, 2.0hp, IP65, Ports 1" BSPM</li> <li>Cut in pressure setting 1.5 Bar</li> <li>AS/NZS4020 Approved for Drinking Water</li> </ul>
WHI-SK13BA	710845	Adjustable Auto Restart Controller Plug & Play (3 pin socket) <ul style="list-style-type: none"> <li>240V, 1ph, 10 A max, 1.1kW, 1.5hp, IP65, Ports 1" BSPM</li> <li>Adjustable cut in pressure setting 1.5 -3.0 Bar</li> <li>AS/NZS4020 Approved for Drinking Water</li> </ul>
WHI-PIGGYBACKFLOAT	802669	Installation of float switch without an electrician 240V, 15m cable, 10A. Cable clamp included.
BIA-TSHKITA	701034	Rainwater tank suction hose & float kit
BIA-IPROTECT	802697	Pump Protection Control 240V, 0.37-2.2kW
BIA-IALARM	802695	Level Alarm 240V, single phase power supply



BIA-SK6



BIA-SK12(5M)  
BIA-SK12(10M)  
BIA-FSK1



BIA-SK12CWB



BIA-iPRESSPRO



WHI-SK10PPHS2



WHI-SK13BA



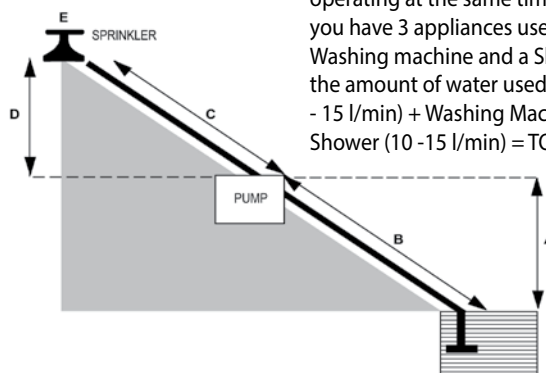
BIA-IPROTECT



BIA-IALARM

# Pump Selection Guide

\*Add up the amount of water used by all appliances in your home that are likely to be operating at the same time, i.e. Suppose that you have 3 appliances used at once = Tap, Washing machine and a Shower. Adding up the amount of water used by these 3 is: Tap (10 - 15 l/min) + Washing Machine (10 - 15 l/min) + Shower (10 - 15 l/min) = TOTAL of 30 - 45 l/min.



Appliances likely to operate at once*		✓
Toilet	9 l/min	<input type="checkbox"/>
Shower	10 - 15 l/min	<input type="checkbox"/>
Water Saving Shower Head	6 - 7 l/min	<input type="checkbox"/>
Household Tap	10 - 15 l/min	<input type="checkbox"/>
Dishwasher	15 l/min	<input type="checkbox"/>
Washing Machine	10 - 15 l/min	<input type="checkbox"/>
Garden Hose	20 l/min	<input type="checkbox"/>
Lawn Sprinkler	10 - 15 l/min	<input type="checkbox"/>

Water Pressure Systems	✓		✓
Cottage 10 - 20 l/min	<input type="checkbox"/>	Small House 20 - 30 l/min	<input type="checkbox"/>
Medium House 30 - 50 l/min	<input type="checkbox"/>	Large House 50 - 90 l/min	<input type="checkbox"/>

Requirements	✓		✓		✓		✓
Household Pressure	<input type="checkbox"/>	Garden Sprinkler/s	<input type="checkbox"/>	Washdown	<input type="checkbox"/>	Drainage	<input type="checkbox"/>
Tank Filling	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>	Sewage	<input type="checkbox"/>		

Water Source	✓		✓		✓		✓
Dam	<input type="checkbox"/>	Bore	<input type="checkbox"/>	Spear point	<input type="checkbox"/>	Tank	<input type="checkbox"/>
Aboveground	<input type="checkbox"/>	Inground	<input type="checkbox"/>	River	<input type="checkbox"/>	Town Mains**	<input type="checkbox"/>

\*\*If mains are different times of the day, require 3 separate pressures.

Application (see diagram)	
- Suction Pipe	
A) Height from water to pump .....mtrs	Type .....
B) Pipe Length .....mtrs	Type .....
Diameter of Pipe.....mm	Class of Pipe .....
- Delivery Pipe	
C) Pipe Length .....mtrs	Type .....
Diameter of Pipe.....mm	Class of Pipe .....
D) Height from Pump to Discharge .....mtrs	E) Demand Pressure .....kPa

Total Output Required .....l/m    Number of outlets to be used at once: .....		
Flow Required .....l/m	Delivery Head .....mtrs	Total Delivery Head .....mtrs
Demand Pressure .....kPa	Friction Head .....mtrs	Add Demand Pressure .....mtrs (if required)
Suction Head .....mtrs	Total Suction Head .....mtrs	

Power Supply	
240V    1 Phase	<input type="checkbox"/>
415V    3 Phase	<input type="checkbox"/>
Solar	<input type="checkbox"/>

# Notes

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal blue lines across its entire width. The paper is otherwise completely empty, with no margins, text, or other markings.



# Notes

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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