

BIANCO[®]
PUMPZ

Bianco Pumpz

BEST IN CLASS ENGINEERING



2019

 **WHITE[®]**
INTERNATIONAL

WHAT IS BEST IN CLASS ENGINEERING?

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 todays 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.





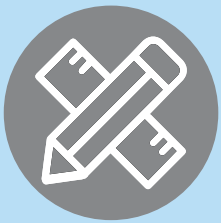
INNOVATION

- 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.



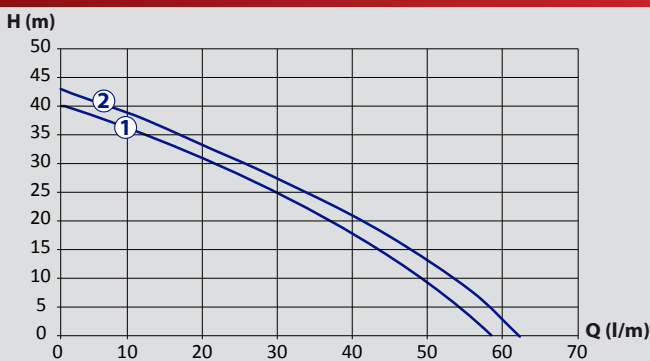
| Model / Item Code / Taps | Nominal Pressure | Total Suction Head (m) | | | | Rated Power | Pressure Range (kPa) | Max. Pump (kPa) | Max. Pump (Bar) | Connections Inlet x Outlet | Weight (kg) |
|---|------------------|------------------------|---------|---------|---------|-------------|----------------------|-----------------|-----------------|----------------------------|-------------|
| | | 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.

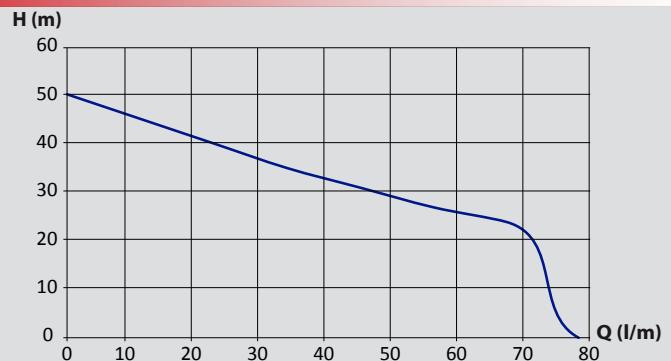


BIA-INOX60S2MPCX

Performance Curves



① BIA-INOX45S2MPCX ② BIA-INOX60S2MPCX



BIA-INOX90S2MPCX

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.



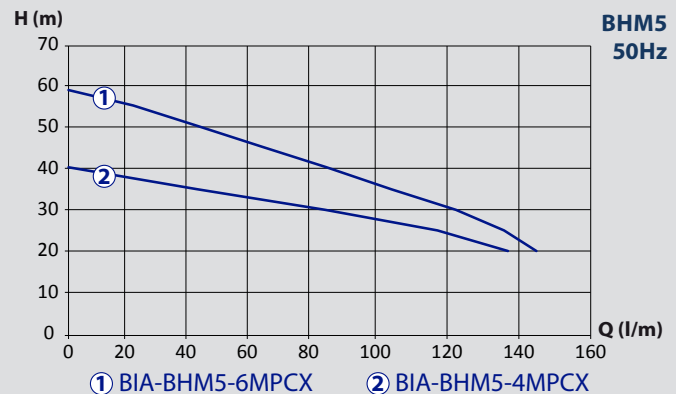
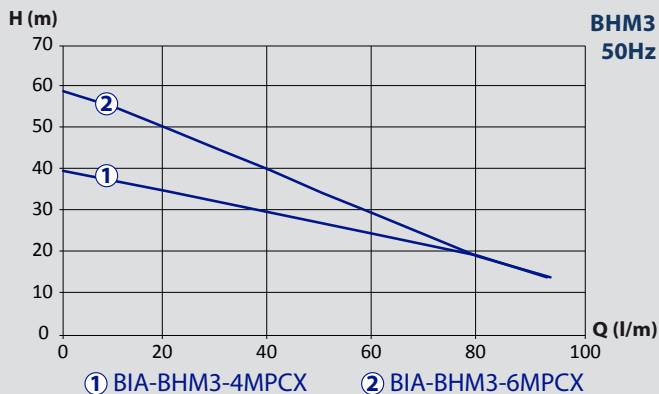
BIA-BHM5-6MPCX



| 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
- Cataphoresis¹ 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.

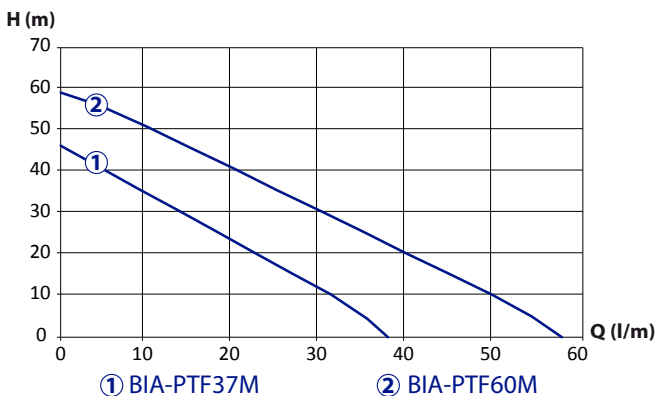
Bare Pumps (without controls)

| 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 တပ်တပ်တပ် | 802788 | 220 kPa 32 psi | 40 | 30 | 27 | 24 | 370W | 450 | 4.5 | 1" BSPF x 1" BSPF | 12 |
| BIA-PTF60M တပ်တပ်တပ် | 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.

Cataphoresis¹ treatment of pump body for rust prevention.

¹ 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.



BIA-PTF37MPCX

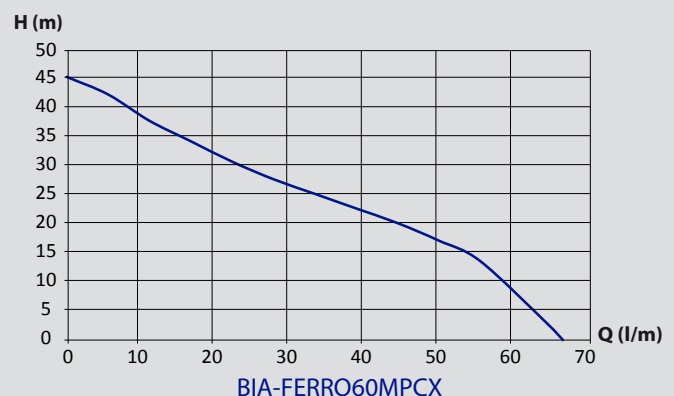
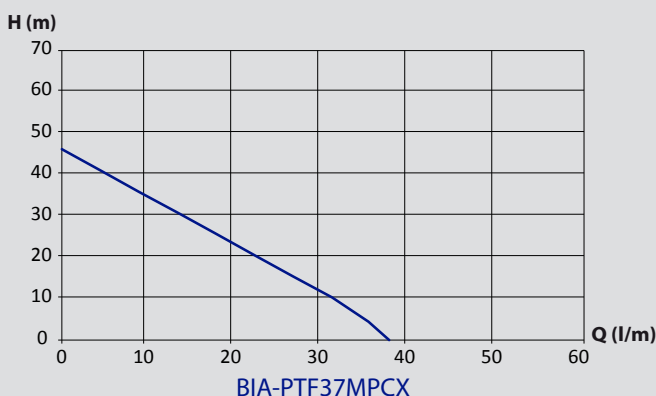
| Model / Taps | Item Code | Nominal Pressure | Total Suction Head (m) | | | | Rated Power | Pressure Range (kPa) | Max. Pump kPa | Max. Pump Bar | Connections Inlet x Outlet | Weight (kg) |
|----------------------------------|-----------|-------------------|------------------------|--------|--------|--------|-------------|----------------------|---------------|---------------|----------------------------|-------------|
| | | | 0m L/m | 3m L/m | 5m L/m | 6m L/m | | | | | | |
| BIA-PTF37MPCX တပ်မိန့်မိန့် | 802789 | 220 kPa 32 psi | 40 | 30 | 27 | 24 | 370W | 220-392 | 460 | 4.5 | 1" BSPF x 1" BSPM | 12 |
| BIA-FERRO60MPCX တပ်မိန့်မိန့် | 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-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 |
|--|--|
| BIA-RAINSAVERMK4E 805617 | 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. |
| RS4E-INOX45S2MPCX 805332 | Rainsaver MK4E & BIA-INOX45S2MPCX Stainless Steel 450W Electronic Self Priming Pump with Auto Restart, 395kPa, 58L/m |
| RS4E-INOX60S2MPCX 803793 | Rainsaver MK4E & BIA-INOX60S2MPCX Stainless Steel 600W Electronic Self Priming Pump with Auto Restart, 430kPa, 62L/m |
| RS4E-INOX90S2MPCX 803794 | Rainsaver MK4E & BIA-INOX90S2MPCX Stainless Steel 750W Electronic Self Priming Pump with Auto Restart, 500kPa, 79L/m |
| RS4E-BHMS-6MPCX 803151 | Rainsaver MK4E & BIA-BHMS-6MPCX Stainless Steel 1300W Multistage Electronic Pump with Auto Restart, 590kPa, 145L/m |
| RS4E-B42ACMPCXBPH Builder's Pack 805666 | 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 |
| 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-BHM5-6MPCX



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 |
|------------------------------------|---|
| RS6-IPRESSPRO 804708 | 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. |
| RS6-B42ACMPC20 805664 | 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 |
| RS6-INOX45S2MPCX 805127 | Rainsaver MK6 & BIA-INOX45S2MPCX Stainless Steel 450W Electronic Self Priming Pump with Auto Restart, 395kPa, 58L/m. Supplied as a kit for assembly. |
| RS6-INOX60S2MPCX 804715 | Rainsaver MK6 & BIA-INOX60S2MPCX Stainless Steel 600W Electronic Self Priming Pump with Auto Restart, 430kPa, 62L/m Supplied as a kit for assembly. |
| RS6-INOX90S2MPCX 804716 | Rainsaver MK6 & BIA-INOX90S2MPCX Stainless Steel 750W Electronic Self Priming Pump with Auto Restart, 500kPa, 79L/m. Supplied as a kit for assembly. |
| RS6-BHM5-6MPCX 804718 | 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. |
| RS6-B42ACMPC20BP 805772 | 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

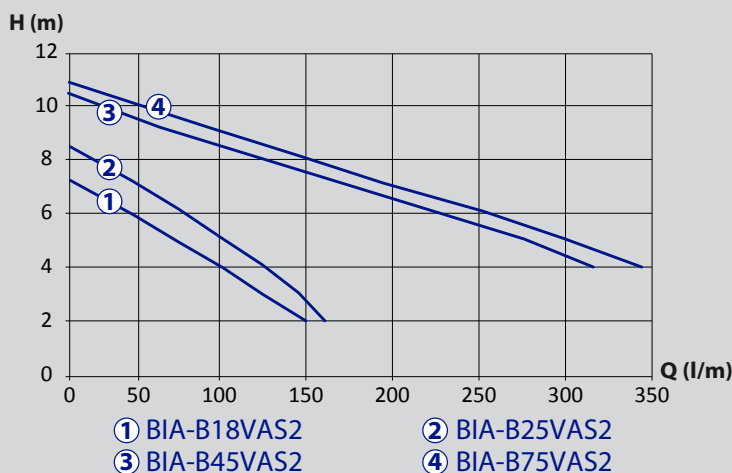


BIA-B75VAS2

| 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

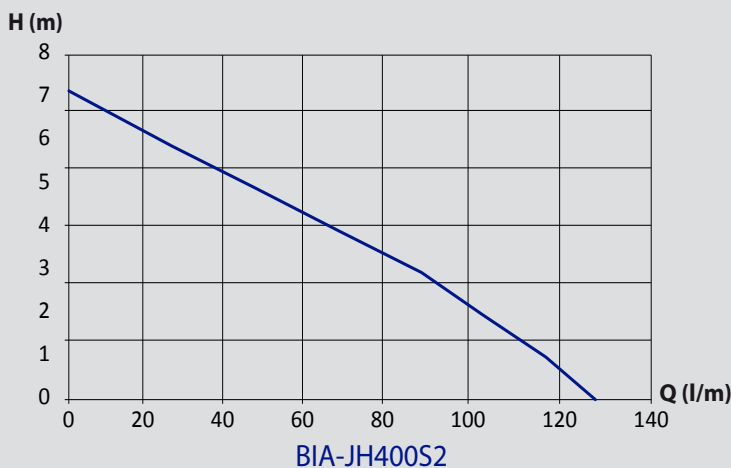


BIA-JH400S2

| 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

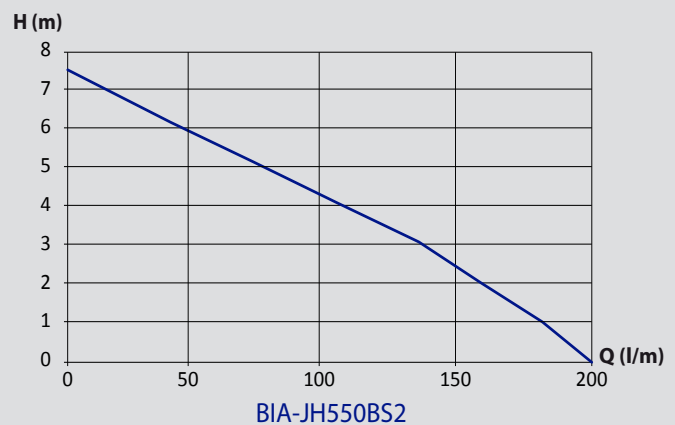
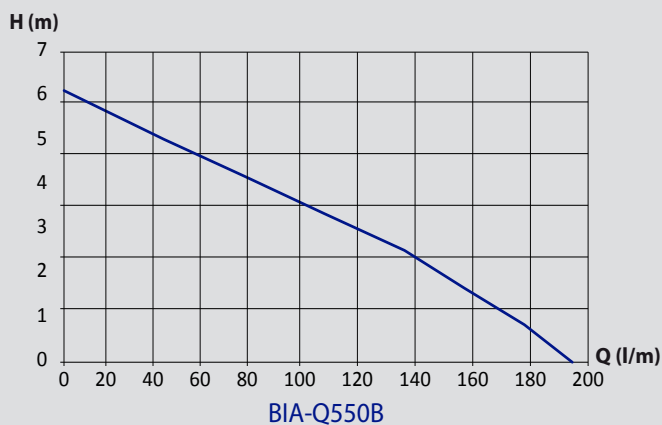


BIA-JH550BS2



| 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 |
| Materials: | | 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 |
| Installation: | | 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) |



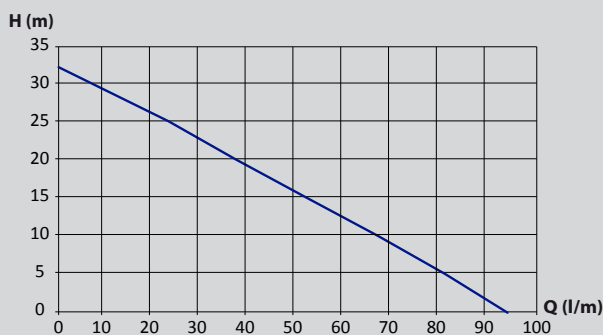
BIA-B42AC

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-B42AC



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)



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.

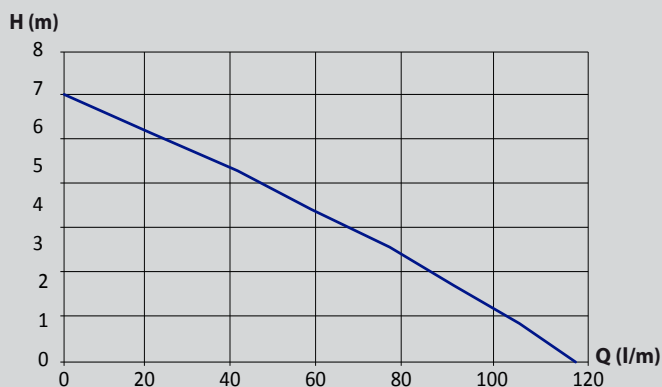
Not suitable for construction sites, ponds, fountains or biotreatment. Pump Dimensions: 203 x 321 mm

BIA-JH40011 S2

| 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



BIA-JH40011S2



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



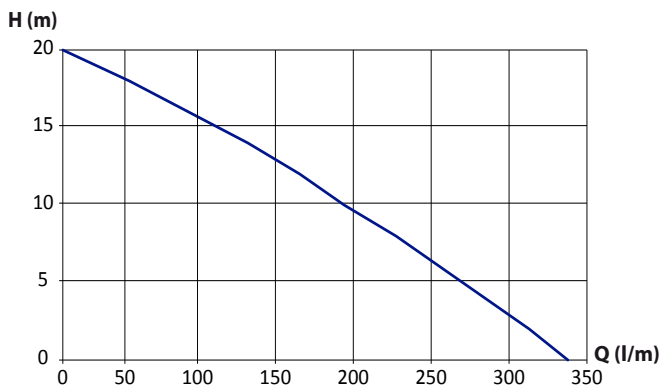
304 Stainless Steel Shaft
7CR17 High Carbon Stainless Steel Cutting Device



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 µF |
| BIA-B120GMS2 | 803150 | Without Float | 50Hz | 1500W | 9.5amp | 27kg | 20m | 341 L/min | 2" | 10m | 30 µF |

Performance Curve



BIA-B120GS2 & BIA-B120GMS2



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



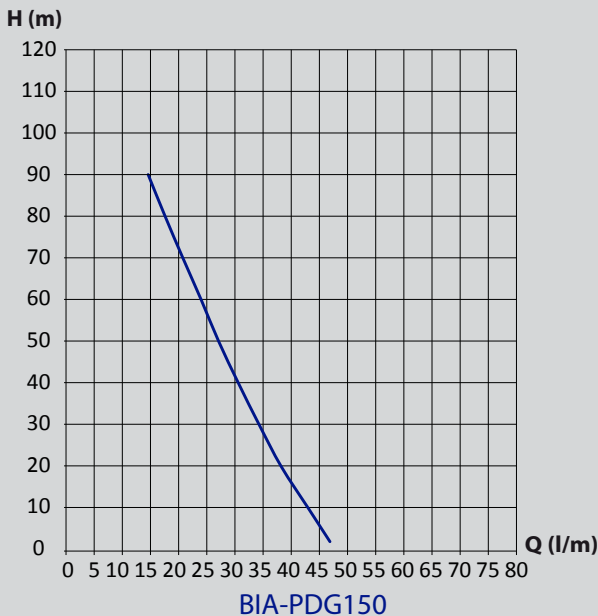
Cutter Impeller



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 | |

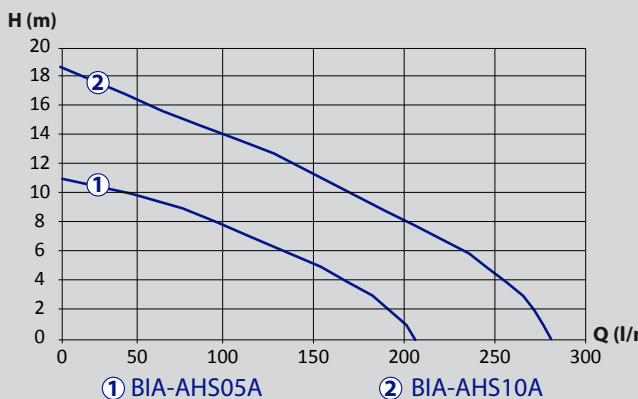
| Liquid: | |
|--------------------------|-----------|
| Water temperature range: | 2 – 35 °C |

| 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 |

Performance Curve





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 cataphoresis¹ treatment, and 304 stainless steel impeller and shaft.
- Mechanical shaft seal.
- TEFC motors.
- Motor support foot.

Applications:

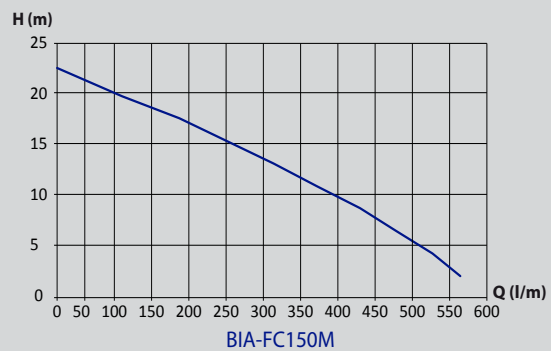
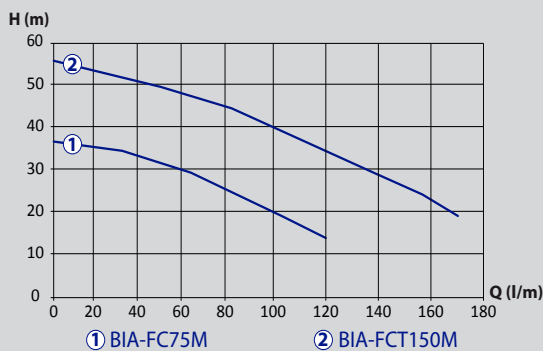
Suitable for industrial washdown, water transfer and tank filling. Suitable for fire fighting, HVAC, circulation and pressure boosting.

¹ 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. |

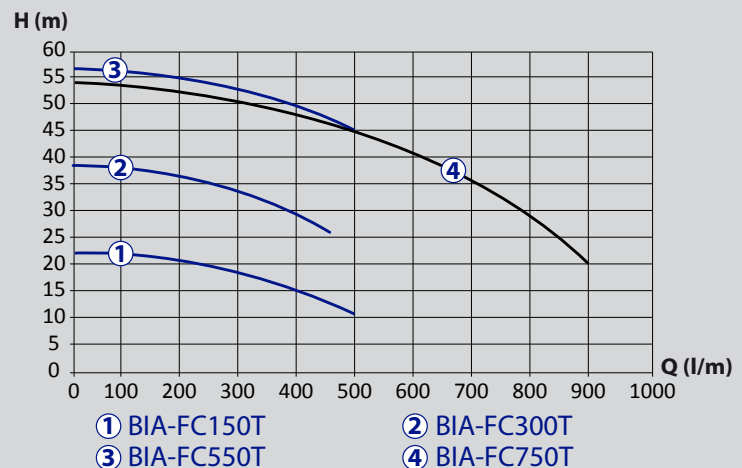
Performance Curve



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

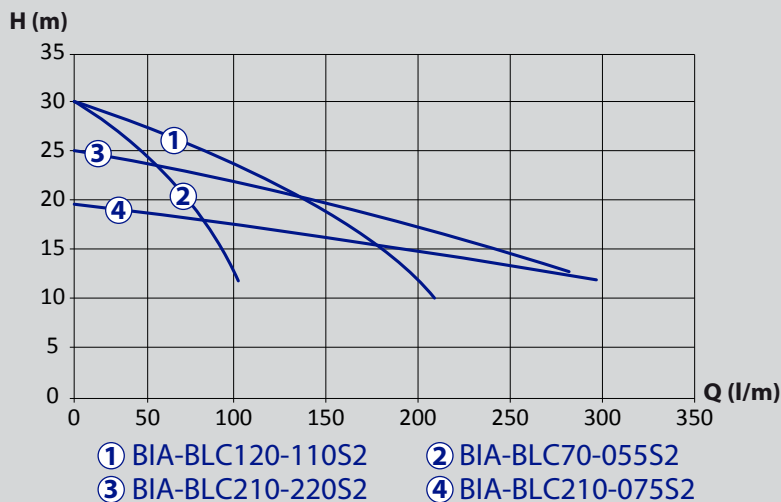


BIA-BLC70-055S2

| 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

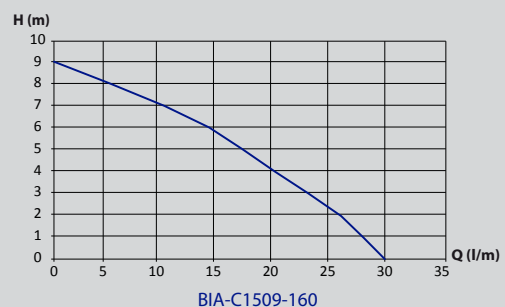
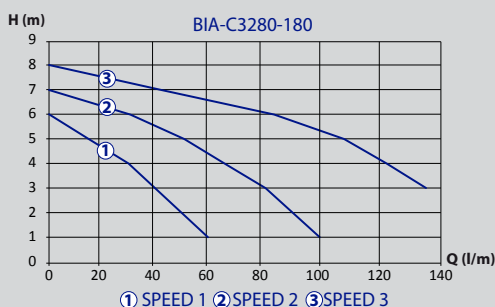
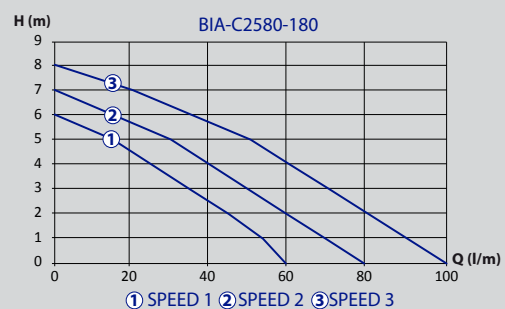
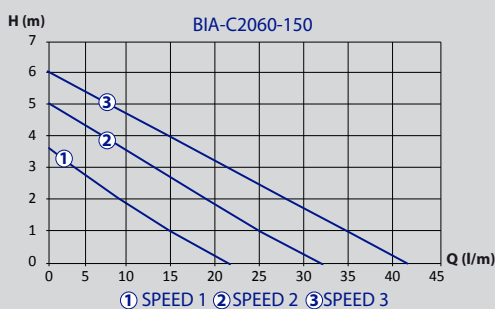
This is a pump used for domestic hot water boosting. The booster is suitable for boosting pressure for gravity-fed hot water systems. It is maintenance free and is low in noise. Supplied complete with unions.

| 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.

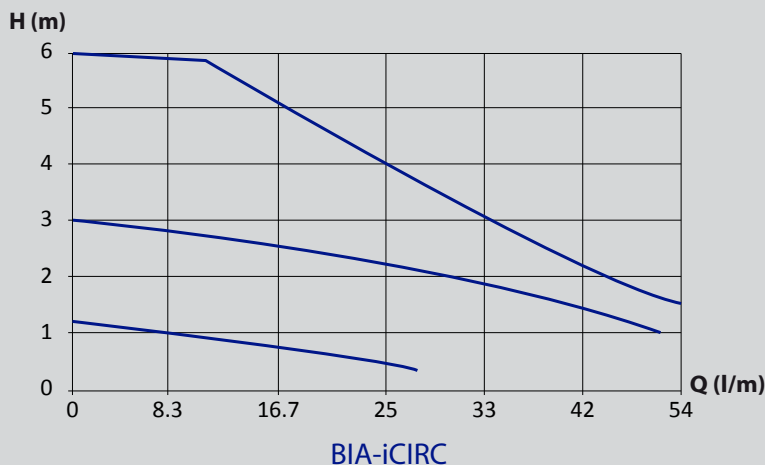
The integrated variable speed drive automatically adapts the circulator to each system's demand, only operating the pump at the necessary speed to run the system. This energy efficient circulator also has the highest efficiency rating 'A' in the industry, saving customers money all day every day.



| 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"> Pressure switch setting: 1 - 6 Bar Factory setting: 1.4 - 2.8 Bar 240V, 1ph, IP44 Connection: 6mm (1/4") BSP |
| BIA-SK9A | 700969 | Adjustable Pressure Switch 6 Bar <ul style="list-style-type: none"> Stainless steel back plate Pressure switch setting: 1 - 6 Bar Factory setting: 1.4 - 2.8 Bar 240V, 1ph, IP44 Connection: 6mm (1/4") BSP |
| BIA-SK12(5M) | 700965 | 5 Metre Float Switch with H05 Neoprene Cable <ul style="list-style-type: none"> 240V, 1ph, 10 A max, "3 wire", IP68 Max 50 °C |
| BIA-SK12(10M) | 700962 | 10 Metre Float Switch with H05 Neoprene Cable <ul style="list-style-type: none"> 240V, 1ph, 10 A max, "3 wire", IP68 Max 50 °C |
| BIA-FSK1 | 700610 | 10 Metre Float Switch with H07 Neoprene Cable <ul style="list-style-type: none"> 240V, 1ph, 16 A max, "3 wire", IP68 Max 50 °C |
| BIA-SK12CWB | 700967 | Float Switch Counterweight <ul style="list-style-type: none"> 200g - float switch counterweight featuring cable gland fixing |
| BIA-iPRESSPRO | 802776 | Pressure Controller <ul style="list-style-type: none"> 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. 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. |
| WHI-SK10PPHS2 | 711941 | Auto Restart Automatic Pump Controller Plug & Play (IEC) <ul style="list-style-type: none"> 240V, 1ph, 10A max, 1.5kW, 2.0hp, IP65, Ports 1" BSPM Cut in pressure setting 1.5 Bar AS/NZS4020 Approved for Drinking Water |
| WHI-SK20PPHS2 | 711942 | Auto Restart Automatic Pump Controller Plug & Play (IEC) <ul style="list-style-type: none"> 240V, 1ph, 10A max, 1.5kW, 2.0hp, IP65, Ports 1" BSPM Cut in pressure setting 2.2 Bar AS/NZS4020 Approved for Drinking Water |
| WHI-SK10AXHS2 | 711943 | Auto Restart Automatic Pump Controller Plug & Play (3 pin socket) <ul style="list-style-type: none"> 240V, 1ph, 10A max, 1.5kW, 2.0hp, IP65, Ports 1" BSPM Cut in pressure setting 1.5 Bar AS/NZS4020 Approved for Drinking Water |
| WHI-SK13BA | 710845 | Adjustable Auto Restart Controller Plug & Play (3 pin socket) <ul style="list-style-type: none"> 240V, 1ph, 10 A max, 1.1kW, 1.5hp, IP65, Ports 1" BSPM Adjustable cut in pressure setting 1.5 -3.0 Bar AS/NZS4020 Approved for Drinking Water |
| WHI-PIGGYBACKFLOAT | 802669 | Installation of float switch without an electrician <ul style="list-style-type: none"> 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

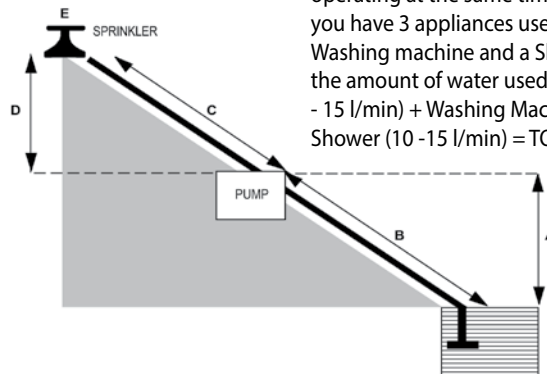


BIA-IPROTECT



BIA-IALARM

*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"/> | Speare 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 pumpmtrs | Type | |
| B) Pipe Lengthmtrs | Type | |
| Diameter of Pipe.....mm | Class of Pipe | |
| - Delivery Pipe | | |
| C) Pipe Lengthmtrs | Type | |
| Diameter of Pipe.....mm | Class of Pipe | |
| D) Height from Pump to Dischargemtrs | E) Demand PressurekPa | |
| Total Output Requiredl/m Number of outlets to be used at once: | | |
| Flow Requiredl/m | Delivery Headmtrs | Total Delivery Headmtrs |
| Demand PressurekPa | Friction Headmtrs | Add Demand Pressuremtrs (if required) |
| Suction Headmtrs | Total Suction Headmtrs | |

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

Available from your local Bianco distributor:

P_AUS/NZ_BIANCO_BR_2019

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www.whiteint.co.nz



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