



**CLAYTON**  
water pumps



## DOMESTIC PRODUCT CATALOGUE 18.01

RAINWATER • DRAINAGE • LAKE + POND • RURAL • FIRE FIGHTING • 12V

# WHO IS CLAYTON?

Clayton leads the Australian market in product development, innovation, and customer support for household brands in four key areas:

- water pumps
- water treatment
- sprayers
- outdoor power.

At a competitive price, they distribute premium products for the domestic, rural, industrial and construction markets. Clayton also maintains the highest level of technical service and support in Australia. Clayton is proud to be a privately owned Australian company supporting our customers since 1975.



Clayton is one of the largest privately owned suppliers of water pumps to the Australian market.

We supply rainwater pumps to the rainwater harvesting market and drainage pumps to the domestic and commercial packaged waste water treatment market. Clayton specialises in supplying pumps through retail outlets and provides retailers with much-needed technical expertise in operating pumps. Clayton supports sales through the best customer service, support and advice in the Industry.

The Clayton range of water pumps are supplied by DWT, a quality manufacturer based in Italy and fully owned by Grundfos. DWT brands include DAB, ClayTech, Leader, Alma, Tesla and WacS.

As a distributor for the Grundfos Group, Clayton is part of a strategy to provide water pumps across all market segments in Australia, making it a part of Australia's largest pumping distribution group.



Clayton is the Australian professional in the supply of farming, small acreage, domestic and commercial sprayers.

We provide a complete range of spraying equipment from the one litre domestic sprayer through to 200 litre spot and boom sprayers. The product is supported by over 40 years of experience, support and service.

Clayton distributes Solo, the premium brand in the world for backpack sprayers and misting machines. Solo is the number one backpack sprayer used by City Councils, contract gardeners, nursery professionals and rural farmers. Solo also manufactures a complete range of handheld sprayers for both the professional and domestic gardener.

Clayton also provides a range of Industrial and Commercial Sprayers for concrete, cleaning and disinfection, pest control, and automotive. The products are retailed through rural merchandisers, professional retail outlets, mower stores and hardware stores.



Clayton provides specialised environmental solutions for water treatment, including weed, algae and odour control for ornamental lakes and ponds, and odour, fat and grease control for sewage reticulation mains.

Clayton's fully owned professional arm BioRemedy specialises in the technical aspects of water management, and provides cost effective solutions in the form of products and equipment.

BioRemedy has specific knowledge of lake and pond management through the application of mechanical circulation and aeration, and degradable chemical addition to control weed and algae. They also specialise in the use of microbes for the degradation of fats and greases in sewage and soils. BioRemedy also specialise in the control of odours and corrosion in sewage reticulation systems by the remote addition of biodegradable, non-toxic chemicals.

Clayton believes in providing natural solutions to man-made problems. We tailor solutions specific to our customer's needs, and utilise the skills of our staff with specialist backgrounds in Applied Science, Engineering and Microbiology.



Clayton has been active in the Outdoor Power Products Industry since 1975. Clayton are constantly looking for innovation and thus support the evolution of battery powered products in the backyards of Australia. Clayton is the sole distributor of the EcoPro range of 40V battery powered hedge trimmers, chainsaws and line trimmers.

Clayton also markets quality portable generators like the Gentech and Powerlite brands, and quality inverter generators like Yamaha and Jack Hardy, throughout Australia.

Clayton has an extensive range of high-quality polyethylene storage boxes that are used in the trade, industry, rural, mining, and leisure.

Clayton continue to supply quality products through a network of specialty retailers throughout Australia who provide the highest level of service and product support. Clayton is renowned for its industry knowledge and ability to promote products that will assist retailers' profitability.



## RAINWATER PUMPS

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- 3** M Series
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- 9** ClayTech Management Systems
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- 14** Pond Circulation
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- 25** 12 V Northstar



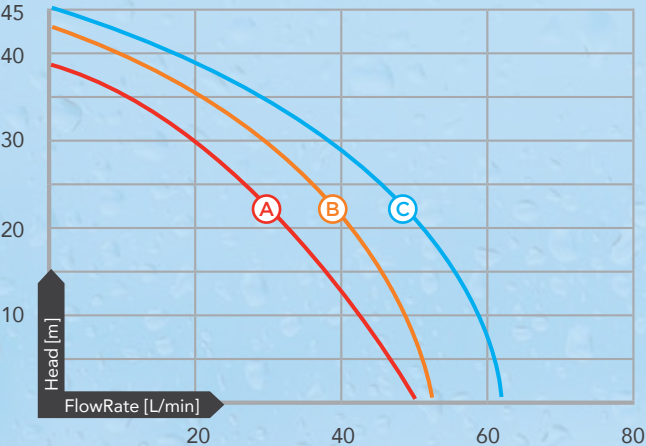
# ClayTech C Series



ClayTech new C Series integrated water pump has changed the face of domestic pumping. So many new features that other pumps just do not have. The pre-filter is integrated into the pump making it easy to clean without the use of a spanner. The non-return valve is also built into the pump body allowing for easy service without removing any pipework. The auto on/off controller is easily detached from the top of the pump for maintenance. The controller electrical cable is cleverly hidden from sight so there are no dangerous cables hanging on the ground.

The pump is powered by a revolutionary water cooled motor. This means quieter operation. Also, no air movement is required across the motor for cooling purposes meaning the pump can be located in confined spaces or completely covered, protecting it from the weather. The C Series also has a friendly LED display to view the pressure and operation mode of the pump. Now the C Series is the premium product in the Australian domestic market.

	A	B	C
MODEL	C3	C4	C5
Power Absorbed (w) P2	400	600	750
Max Head (m)	39	43	45
Max Suction Lift (m)	8	8	8
Max Flow Rate (l/min)	50	53	62
Inlet Size	1"	1"	1"
Outlet Size	1"	1"	1"
Weight (kg)	9.0	9.5	10.0





# Innovative Design Automatic On/Off



- ① Auto controller with loss of prime protection
- ② Swivel connection with quick release
- ③ Prefilter for easy maintenance
- ④ Integrated easily accessible non-return valve
- ⑤ Water cooled motor; quieter and easier to protect from weather
- ⑥ LED Display

**3**  
YEAR  
WARRANTY





# ClayTech M-Series

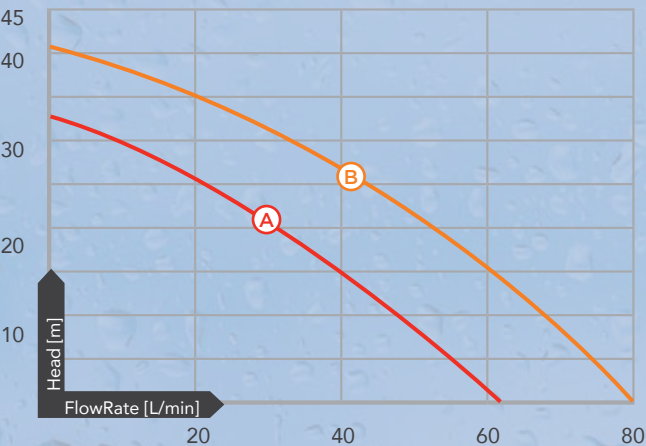


ClayTech new M-series integrated water pump has a multi-stage impeller design. Pressure is developed over multiple impellers making the operation quieter and more efficient. It is the ideal pump for your house rainwater tank.

The pre-filter is integrated into the pump making it easy to clean without the use of a spanner. The non-return valve is also built into the pump body allowing for easy service without removing any pipework. The auto on/off controller is easily detached from the top of the pump for maintenance. The controller electrical cable is cleverly hidden from sight so there are no dangerous cables hanging on the ground.

The pump is powered by a revolutionary water cooled motor. This means quieter operation. Also, no air movement is required across the motor for cooling purposes meaning the pump can be located in confined spaces or completely covered, protecting it from the weather. The M Series also has a friendly LED display to view the pressure and operation mode of the pump. Now the M Series is the premium product in the Australian domestic market.

MODEL	M3	M6
Power Absorbed (w) P2	380	560
Max Head (m)	32	40
Max Flow Rate (l/min)	60	80
Inlet Size	1"	1"
Outlet Size	1"	1"
Weight (kg)	9.0	9.5







# Innovative Design Automatic On/Off



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ClayTech  
Pumps  
COMPLIES TO AUSTRALIAN  
ELECTRICAL STANDARDS



ClayTech  
Pumps  
APPROVED FOR  
DRINKING WATER  
AS/NZS 4020



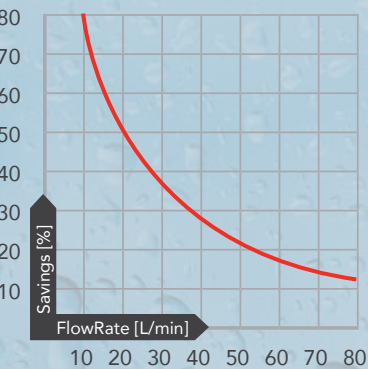
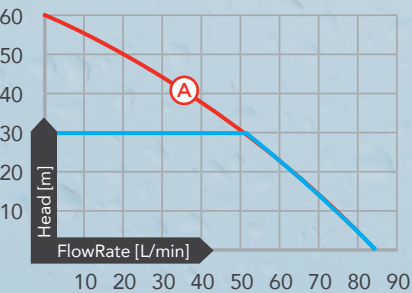
# ClayTech ePUMP



The ClayTech ePump is a revolutionary variable speed pump ideal for a quality Australian home. The ePump provides constant pressure and flow independent of how many taps are open. It is time to have that perfect shower. The ePump's state-of-the-art inverter technology ensures energy cost savings every time water is used. Save money year after year after year. And now it is at a price point that makes it economical.

The ePump also has a fully water cooled motor making it quieter. There is no need for air to flow over the motor, as in a normal air cooled motor, allowing it to be located in a confined space or even completely covered. The ePump has an easy to clean pre-filter and a unique easy connect system allowing quick disconnection from pipework for maintenance. This is the premium product in the domestic water pumps.

MODEL	ePUMP
Power Absorbed (w) P2	640
Max Head (m)	60
Max Suction Lift (m)	8
Max Flow Rate (l/min)	85
Inlet Size	1"
Outlet Size	1"
Weight (kg)	14







## Energy Saving Constant Pressure



- ① Integrated electronic control
- ② Swivel connections
- ③ Prefilter for easy maintenance
- ④ Water cooled motor produces less noise
- ⑤ Variable speed - save electricity while giving constant pressure and flow

**3**  
YEAR  
WARRANTY





# ClayTech 18 Litre Tank Kit

The ClayTech 18 Litre Tank Kit is compact and easy to connect to the C series or M series pump. The tank prevents repetitive pump starts when the system has a slow leak. When the flow rate goes above 1.5LPM the pump will start.

The GWS energy saving tank is a patented design only available to ClayTech. It has a 5 year maintenance free warranty meaning that you do not need to touch it for 5 years. There is no need to add air to the tank. The unique method to the pump removes the need for external pipes and cables. This removes any safety issue for children and pets.

The ClayTech Tank is ideal to manage slow pipework leaks on old properties.

C-Series c/w Tank

MODEL	C3	C4	C5
	C3+Tank	C4+Tank	C5+Tank



M-Series c/w Tank

MODEL	M3	M6
	M3+Tank	M6+Tank







## ClayTech Inox Series Self-Priming

The Self-Priming Inox Series multi-stage pump is well-known for its quiet, reliable service in the Australian market. Designed for a larger Australian home, it is more energy efficient than a jet pump but is self-priming to a depth of 4m. This makes it ideal for above and below ground rainwater tanks. It has automatic operation with loss of prime protection and 24 hour restart to see whether there is water in the rainwater tank. Ideal for whole of house installations.

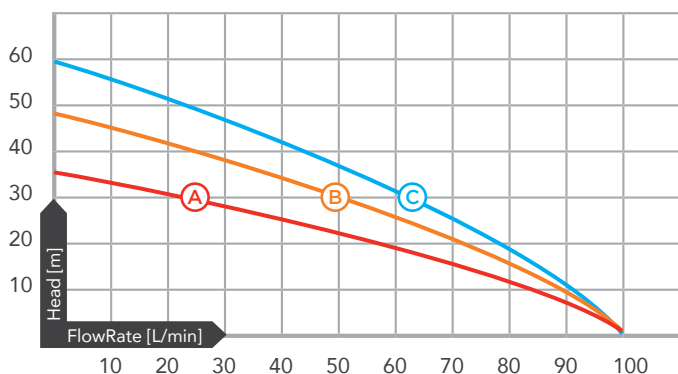
### Ⓐ Inox 230 A



### Ⓑ Inox 240 A



### Ⓒ Inox 250 A



\*performance curves at zero suction lift



	Ⓐ	Ⓑ	Ⓒ
MODEL	INOX 230 A	INOX 240 A	INOX 250 A
Power Absorbed (w) P2	550	750	985
Max Head (m)	35	48	60
Max Suction Lift (m)	8*	8*	8*
Max Flow Rate (l/min)	100	100	100
Inlet Size	1"	1"	1"
Outlet Size	1"	1"	1"
Weight (kg)	11	12	13

\*pump performance decreases as suction lift increases

# ClayTech Management Systems

## What is it?

ClayTech Management Systems (CMS) provide the convenience of automatic selection between your water tank and mains supply, with the emphasis on maximizing the use of your rain water.



Garden Watering



Loss of Prime Protection



Electronic Pump Control

## How it works.

When tank water is available the CMS will draw water from this source using the pump to deliver your water requirements.

During power outages or in the case your tank supply is depleted the CMS automatically transfers to mains water supply.

CMS will automatically select to supply from your water tank as soon as rain water is available again.



## Above Ground Rainwater Management Systems

- Ⓐ

CMS C3A1
- Ⓑ

CMS C4A1
- Ⓒ

CMS C5A1
- CMS C3A2
- CMS C4A2

MODEL	Ⓐ CMS C3A1	Ⓑ CMS C4A1	Ⓒ CMS C5A1	Ⓓ CMS M3A1	Ⓔ CMS M6A1	Ⓕ CMS I40A1	Ⓖ CMS I50A1
	CMS C3A2	CMS C4A2		CMS M3A2			
Pump	C3	C4	C5	M3	M6	Inox240	Inox250
Power Absorbed (w) P2	400	600	750	380	560	750	985
Max Head (m)	39	43	45	32	40	48	60
Max Flow Rate (l/min)	50	53	62	60	80	100	100
Inlet Size	1"	1"	1"	1"	1"	1"	1"



- Ⓓ

CMS M3A1
- Ⓔ

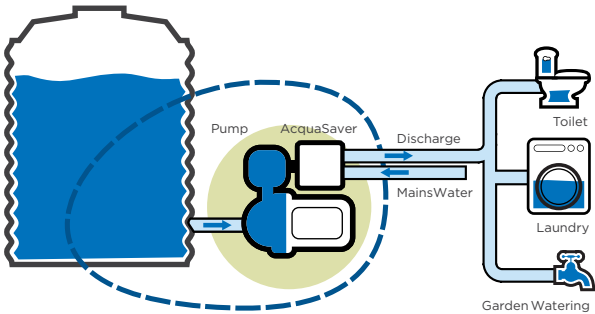
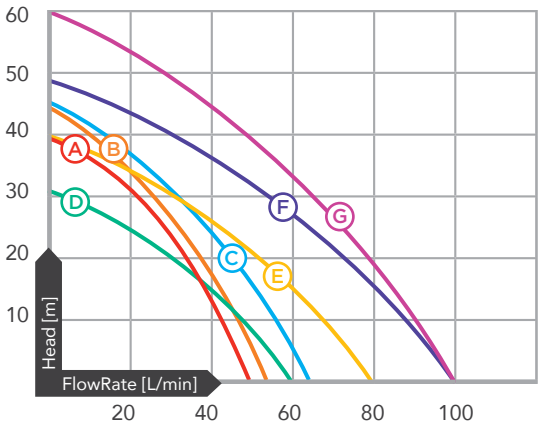
CMS M6A1
- CMS M3A2



- Ⓕ

CMS I240A1
- Ⓖ

CMS I250A1





## AcquaSaver Diversion Valve

This valve has proven to be the most reliable mains water diversion valve on the Australian market. It is fully brass construction, hydraulically operated with full port flow and pressure when it switches to mains. There are two sizes of valves; A1 - 1 inch valve, A2 - 3/4 inch valve. (Watermark to ATS5200.477)



### A1 - 1 inch valve

Max mains pressure 1050 Kpa  
Max pump pressure 1050 Kpa  
Max flow rate 200+Lpm  
Rainwater inlet 1" BSP F (25mm)  
Mains water inlet 1" BSP F (25mm)  
Outlets 1" BSP F (25mm)  
Weight 1.9 Kg



### A2 - 3/4 inch valve

Max mains pressure 500 Kpa  
Max pump pressure 600 Kpa  
Max flow rate 50 Lpm  
Rainwater inlet 1" BSP F (25mm)  
Mains water inlet 3/4" BSP F (20mm)  
Outlets 3/4" BSP F (20mm)  
Weight 0.85 Kg



## In-tank Rainwater Management Systems

### A CMS C6A1

### CMS C6A2

### B CMS C7A1

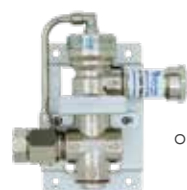


or



### C CMS C30A1

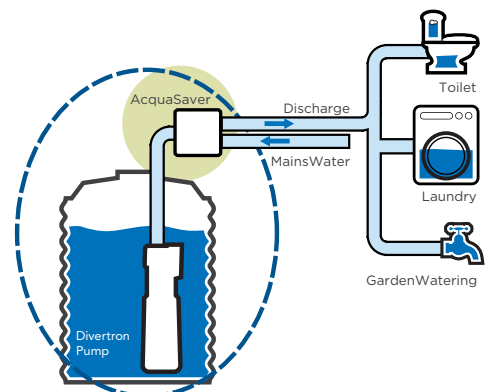
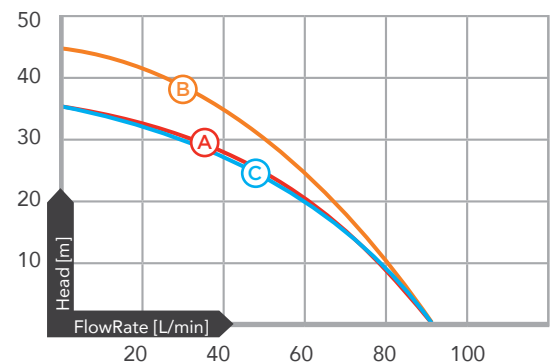
### CMS C30A2




or




MODEL	A	B	C
	CMS C6A1 CMS C6A2	CMS C7A1	CMS C30A1 CMS C30A2
Pump	DiverTron C6	DiverTron C7	DiverTron C30
Power Absorbed (w) P2	650	750	650
Max Head (m)	36	46	36
Max Flow Rate (l/min)	95	95	95
Outlet Size	1"	1"	1"






**3**  
YEAR  
WARRANTY



ClayTech  
PUMPS  
COMPLIES TO AUSTRALIAN  
ELECTRICAL STANDARDS



ClayTech  
PUMPS  
APPROVED FOR DRINKING WATER  
AS/NZS 4020

The future in pumping is full integration of electronics with mechanical components.

This results in low noise, superior performance, quality solution to your household water supply needs. Can be used for watering gardens or plumbed into the house as pressure system.

## In-tank Pump

### A DiverTron C6 & C7 Fully Automatic



Revolutionary design has allowed the electronic on and off control to be incorporated into this submersible pump. The ClayTech Divertron is installed inside your above ground or below ground rain water tank and will start and stop when you need water. Superior performance allows for house pressure and garden watering.

Loss of prime protection will turn the pump off when the rainwater tank is empty and 24 hour restart will test for rain daily.



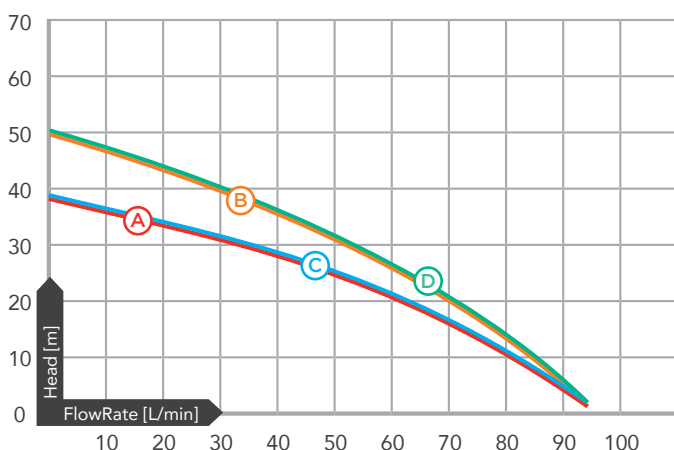
### B BlueDiver C30A & C40A



The BlueDiver30 and 40 are multi-purpose pumps. As a water transfer pump the BlueDivers come with a float to control the starting and stopping of the pump by the water level, for tank emptying.

BlueDiver 30 and 40 can also be teamed with our Aquatron pressure controller to turn it into an automatic pressure system thus making them suitable for use with normal household tap operation.

OPTIONAL: Add AquaTron to create an automatic pressure system. (C30A & C40A)



	A	B	C	D
MODEL	DIVERTRON C6	DIVERTRON C7	BLUEDIVER C30A	BLUEDIVER C40A
Power Absorbed (w) P2	650	750	650	750
Max Head (m)	36	46	36	46
Max Flow Rate (l/min)	95	95	95	95
Inlet Size	n/a	n/a	n/a	n/a
Outlet Size	1"	1"	1"	1"
Weight (kg)	10	11	8	9



## Rainwater Tank Products

### Pump Controller

Electronic Pump Controllers allow the pump to start automatically when a tap is opened on the discharge of the pump and stop when the tap is closed. They also provide run-dry protection for the pump.

MODEL	AQUATRON
Max Motor Size P2	1.5 HP
Max Current	10A
Max Flow Rate	80 L/min
Min Flow Rate	1.5 L/min
Max Pressure	10 bar
Cut In Pressure	1.5 - 3.5 adj
Connections	1" male

### Pump Inverters

A Pump Inverter will change the speed of the motor dependent on the demand of the pump. This is the most energy efficient way of operating a pump.

MODEL	D/4.7	D/10.5	PWM400/13.3
Power Supply	1-phase	1-phase	3-phase
Pump Motor	3-phase	3-phase	3-phase
Max Motor Size (P2)	1 KW	2.2 KW	5.5 KW
Max Current	4.7 A	10.5 A	13.5 A
Max Pressure	16 bar	16 bar	16 bar
Max Flow Rate	300 L/min	300 L/min	300 L/min
Connections	1¼" M x 1½" F	1¼" M x 1½" F	1¼" M x 1½" F

### Rainwater Tank Treatment

#### WaterPure 1 Litre and 5 Litre

A tasteless, odourless, chlorine-free liquid formulation for control of bacteria and pathogens in water storage tanks. Added to your rainwater tank it will improve the quality of the water.

### Float Switches

MODEL	P5	N10	FSW-12517	FSW-12519
Length	5m	10m	10m	10m
Material	PVC	Neoprene	Neoprene	Neoprene

### Hoses and Strainers

MODEL	DESCRIPTION
Y-Strainer Brass	1" F x 1" F brass
Suction Hose	1" Suction hose Kit & Y-Strainer

### Grundfos Pressure Tanks

MODEL	TANK CAPACITY	MAX. PRESSURE	CONNECTION SIZE
GT-H-2 PN10	2L	1000 kPa	1" M
GT-H-8 PN10	8L	1000 kPa	1" M
GT-H-18 PN10	18L	1000 kPa	1" M
GT-H-18 PN16	18L	1600 kPa	1" M
GT-H-60 PN10	60L	1000 kPa	1" F
GT-H-80 PN10	80L	1000 kPa	1" F
GT-H-80 PN16	80L	1600 kPa	1" F
GT-H-100 PN10	100L	1000 kPa	1" F
GT-H-130 PN10	130L	1000 kPa	1" F
GT-H-200 PN10	200L	1000 kPa	1¼" F
GT-H-200 PN16	200L	1600 kPa	1¼" F
GT-H-240 PN10	240L	1000 kPa	1¼" F
GT-H-300 PN10	300L	1000 kPa	1¼" F
GT-H-450 PN10	450L	1000 kPa	1¼" F

### Grundfos Composite Tanks

MODEL	TANK CAPACITY	MAX. PRESSURE	CONNECTION SIZE
GT-C-60 PN8.6	60L	860 kPa	1" M
GT-C-80 PN8.6	80L	860 kPa	1" M
GT-C-130 PN8.6	130L	860 kPa	1" M
GT-C-250 PN8.6	250L	860 kPa	1" M

### Pressure System Accessories

MODEL	DESCRIPTION
Pressure Gauge	Pressure Gauge 0-6bar, with psi graduations
3 Way	3 Way Brass Fitting, 1" MxF

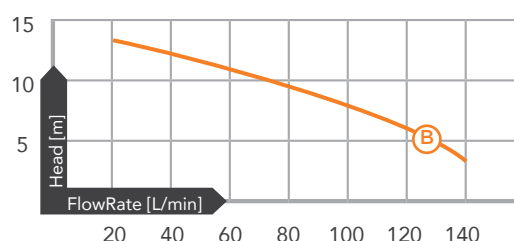
## High Head – Waste Water Treatment System

### **B** Pitbull 15

The ClayTech PitBull 15 possesses a unique design, conceived specifically for the Australian waste water treatment system. It was designed for above surface irrigation applications where it operates at its 'best efficiency point' during normal operation. Most comparable pumps have a maximum head capacity of 11m. This means that they operate towards the top of their curve under normal operating conditions causing a reduction in the pumps service life. The Pitbull, at 10m head is at the centre of its curve, and still produces 80 LPM.



MODEL	PITBULL 15
Power Absorbed (w) P2	550
Max Head (m)	15
Max Flow Rate (l/min)	170
Outlet Size	1¼"
Pump Diameter (mm)	150
Pump Height (mm)	325
Cable Length (m)	8
Weight (kg)	5



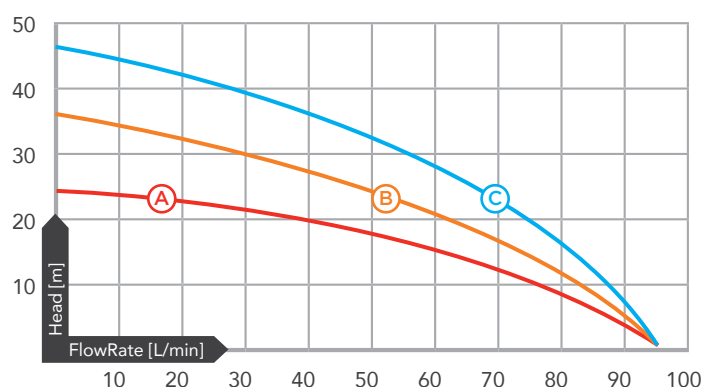
### **A B & C** BlueDiver

The ClayTech BlueDiver has been specifically designed for the Australian aerated waste-water treatment system. They have been designed for high head applications and are particularly suited for applications using sub-surface irrigation.

These pumps have been designed to ClayTech specifications with high head and relatively low flow, allowing the pumping system to operate at the 'best efficiency point' of the pump.



MODEL	<b>A</b> BLUEDIVER C20	<b>B</b> BLUEDIVER C30	<b>C</b> BLUEDIVER C40
Power Absorbed (w) P2	550	650	750
Max Head (m)	24	36	46
Max Flow Rate (l/min)	95	95	95
Outlet Size	1"	1"	1"
Pump Diameter (mm)	149	149	149
Pump Height (mm)	350	375	400
Cable Length (m)	8	8	8
Weight (kg)	7	8	9





Filtered Grey Water

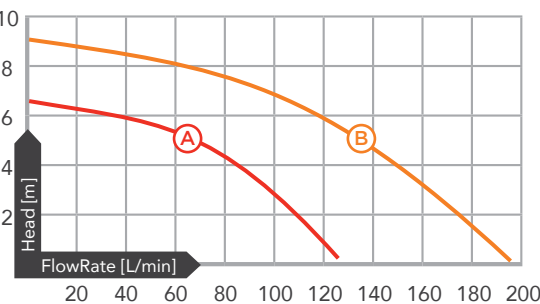
ProSub C6/C9

Used for screened grey water applications, like domestic washing machine water. The float switch is integrated into the pump body allowing it to operate in small tanks or pits. Switching from automatic to manual is as simple as flipping a switch allowing water to be removed down to a depth of 3mm.

Normal operation switch on at 115mm and off at 50mm.



MODEL	(A)	(B)
	PROSUB C6	PROSUB C9
Power Absorbed (w) P2	170	250
Max Head (m)	6.5	9
Max Flow Rate (l/min)	125	195
Max Solids Handling (mm)	5	5
Outlet Size	1¼"	1¼"
Pump Diameter (mm)	215	215
Height (mm)	320	320
Cable Length (m)	10	10
Weight (kg)	4	5



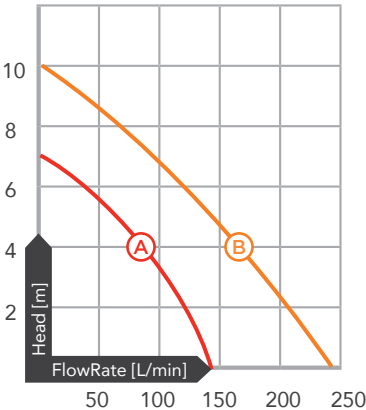
Pond Circulation

SubPond

An ideal pump for running waterfalls or ornamental fountains. Designed for continuous operation in either vertical or horizontal positions.



MODEL	(A)	(B)
	SUBPOND 300	SUBPOND 700
Power Absorbed (w) P2	200	550
Max Head (m)	7	10
Max Flow Rate (l/min)	140	240
Outlet Size	1¼"	1¼"
Cable Length (m)	8	8
Weight (kg)	5	6



# SUBMERSIBLE DRAINAGE PUMPS



## Dirty Water – Vortex Pumps

Dirty water is classified as water that has suspended solids larger than 1mm in diameter or long stringy matter (such as hair) suspended in it.

A normal drainage pump with a standard closed impeller will not be able to handle this. That is why heavy duty, rugged, drainage pumps from ClayTech have been designed to meet almost any need. Made for our harsh Australian conditions.

### Ⓐ BlueVort 7

Recognised for their reliability and performance BlueVort 7 has an open vortex design and can handle pumping soft solids up to 15mm. It has been designed as a multi-purpose submersible pump also suited for drainage and water transfer applications.



### Ⓑ BlueVort 9

BlueVort 9 has an open vortex design and can handle pumping soft solids up to 25mm min size making it suitable for grey water tank and final pumping from domestic water treatment systems. It has been designed as a multi-purpose submersible pump also suited for drainage and water transfer applications.

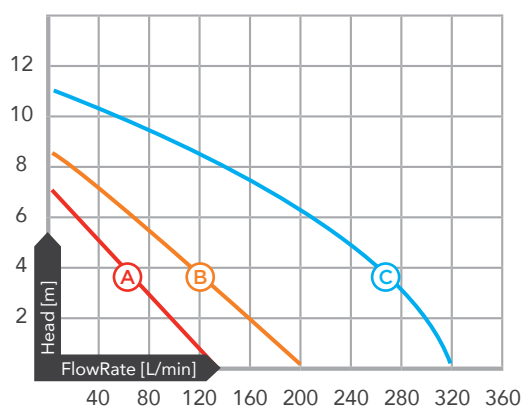


### Ⓒ BVP C11

The BVP is a heavy duty all-purpose, reinforced polypropylene vortex pump. This pump is tough! It has been trialled, and survived, the pumping of debris from construction pits.







	<span style="color: red;">Ⓐ</span>	<span style="color: orange;">Ⓑ</span>	<span style="color: blue;">Ⓒ</span>
MODEL	BLUEVORT 7	BLUEVORT 9	BVP C11
Power Absorbed (w) P2	180	450	600
Max Head (m)	7	8.5	11
Max Flow Rate (l/min)	135	200	320
Max Solids Handling (mm)	15	25	38
Outlet Size	1¼"	2"	1½"
Cable Length	10m	10m	8m
Weight (kg)	9	18	8





## Brio & Rio

### Water Circulators

Submersible motor that drives a propeller, circulating water horizontally, throughout and at depth, around the water body.

BRIO is a high-speed, low momentum propulsion.

RIO operates a low-speed, high-momentum propulsion.

### Construction & Operational Characteristics

#### Motor Housing

- BRIO
  - Marine Brass
- RIO
  - Cast iron and Stainless Steel

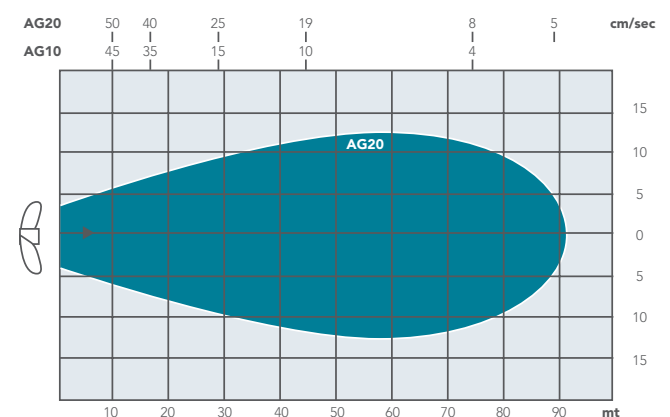
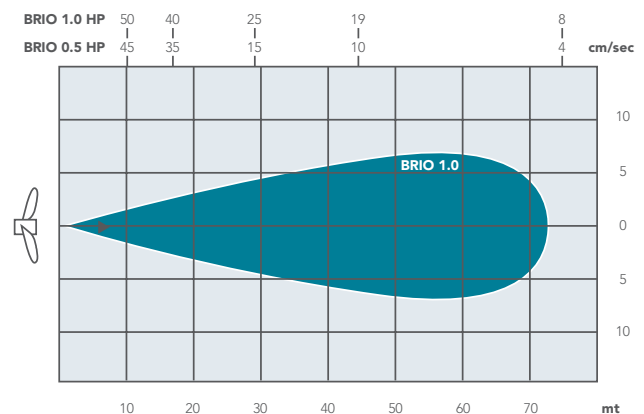
#### Propeller

Reinforced Plastic

#### Propeller Diameter

- BRIO (mm)
  - 185
- RIO (mm)
  - 900

MODEL	BRIO 1.0	RIO AG20
Voltage	230V/1ph & 415V/3ph	415V/3ph
Performance Curve	A	B
Rated Power (KW) P1	0.75	1.5
Rated Current (A) – 230V	4.5	-
Rated Current (A) – 400V	2.0	4.5
RPM	1400	115







Force 7 & Stormix

Submersible  
Aspiration Aeration

Submersible motor that drives a propeller. This rotation draws air from the surface and produces and disperses micro-bubbles underwater.

Efficient oxygen transfer due to small size of air bubble and propulsion distribution under water.

Construction & Operational  
Characteristics

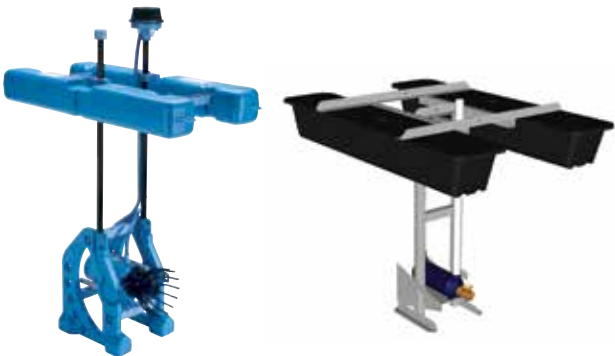
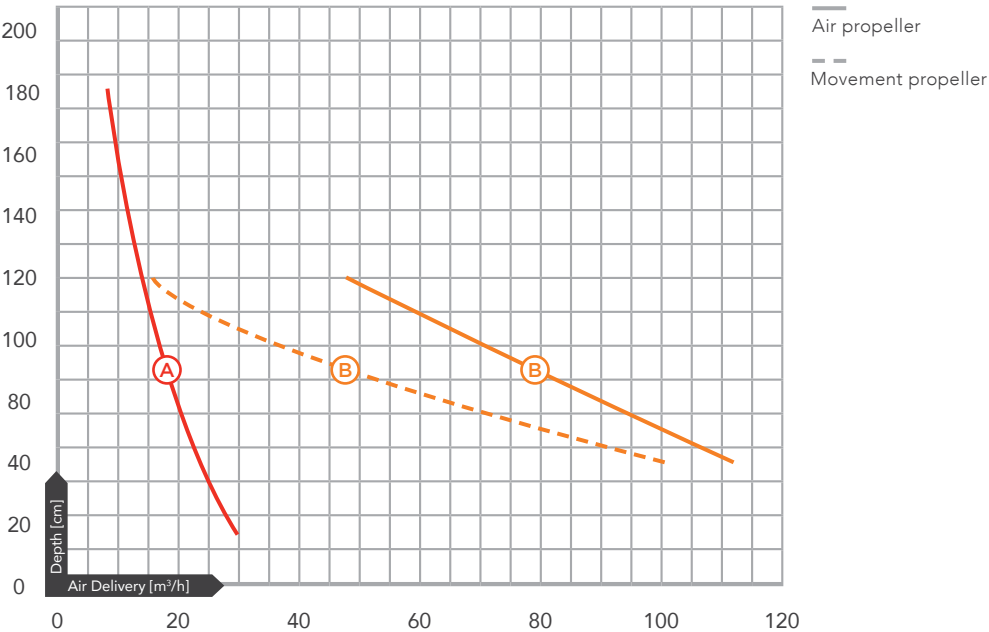
Motor Housing

- Force 7  
Marine Brass
- Stormix  
Stainless/Cast Iron or Stainless  
Steel / Marine Brass

Propeller

- Force 7  
Reinforced Plastic
- Stormix  
Marine Brass

MODEL	(A)	(B)
	FORCE 7	STORMIX 5
Voltage	240V/1ph & 400V/3ph	400V/3ph
Rated Power (KW) P1	1.1	3.5
Rated Current (A) – 230V	7.5	-
Rated Current (A) – 400V	3.2	7.4
RPM	2800	2800





Solar Powered Circulators and Aerators

This is a natural solution – use the sun to treat the water. This is the first system in Australia to employ solar power to horizontally circulate and aerate water bodies. The system has been fully engineered in Australia using 6 x 190W floating panels to produce power for a 3ph submersible motor.

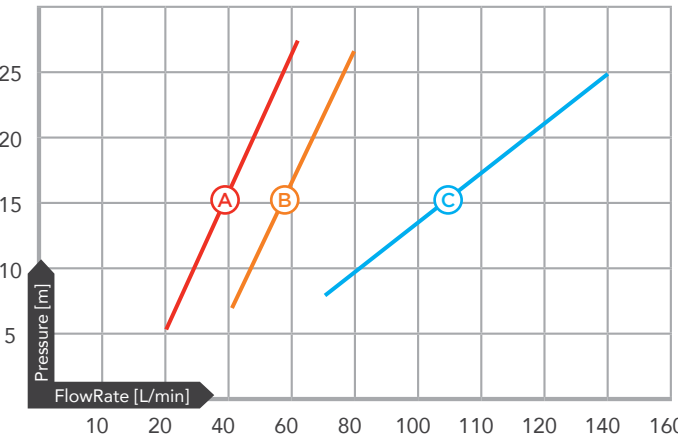
	A	B	C
MODEL	BRIO 1.0	RIO 1.0	FORCE 7.1
Voltage	Solar	Solar	Solar
Rated Power (KW)	0.75	0.75	0.75
RPM	1400	123	2800
Flow Rate (ML/h)	1.2	2.0	-
Air Delivery @0.6m (m3/h)	-	-	20

Note : Motor will operate at greater than 88% rpm for more than 6 hours per day while panels are in direct sun.



Eco Static Aerator

The ECO is a static aeration device which operates by delivering air into the water flow via a venturi. Water is delivered to the rear of the unit, with the delivery flow rate determining the amount of air drawn into the ECO for diffusing. The ECO efficiently mixes the air and water and delivers this pressurised mixture into the water body. The ECO can be used in applications for addition of oxygen or chemical. It is supplied with 3 different size nozzles.





## Algal & Aquatic Weed Control

### Cupricide & Kupramine

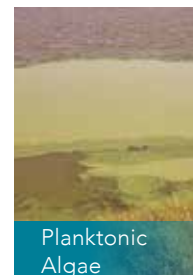
Cupricide is an effective solution for the control of planktonic and filamentous algae. Kupramine also controls the fresh water herbs Hydrilla & Elodea. A solution of chelated-copper, Cupricide and Kupramine are absorbed into the algae rapidly and, in this form, provides maximum efficiency as an algicide, with low toxicity to aquatic fauna.



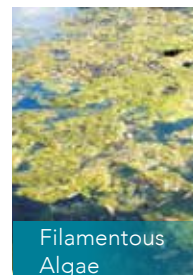
Before Treatment with Cupricide



After Treatment with Cupricide



Planktonic Algae



Filamentous Algae



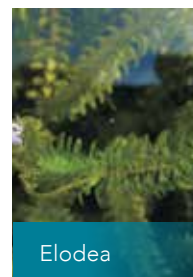
Before Treatment with Kupramine



After Treatment with Kupramine



Hydrilla



Elodea

### WaterClear

WaterClear is an effective solution for control of Salvinia Molesta, Red Azolla and Lemna (Duckweed) spp. in water bodies. WaterClear is specially formulated using orange oil and organic surfactants to ensure maximum effectiveness and minimal environmental impact.

Control is achieved by altering the surface tension of the water, causing the weed to sink and subsequently drown.



Before Treatment with WaterClear



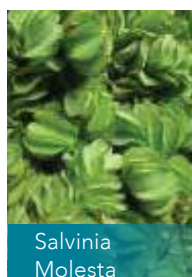
Lemna (Duckweed)



Red Azolla



After Treatment with WaterClear



Salvinia Molesta



## Splash & Sprint

### Surface Mounted Fountains

Submersible motor that drives a propeller. This propels water into the air creating a fountain effect.

Efficient oxygen transfer due to the volume and dispersion of the water above the surface.

### Construction & Operational Characteristics

**Motor Housing**

Marine Brass

**Propeller**

Reinforced Plastic

**Motor Cable Length (m)**

20



MODEL	SPLASH 1/2001	SPLASH 1/2008	SPRINT 1.5
Voltage	230V/1ph & 415V/3ph	230V/1ph & 415V/3ph	230V/1ph & 400V/3ph
Rated Power (KW) P1	0.75	1.2	1.1
Rated Current (A) – 230V	4.5	5.0	5.0
Rated Current (A) – 400V	2.0	2.5	2.0
RPM	1400	2850	2800
Capacity (l/min)	3200	3100	1250
Height of Plume (m)	0.5	1.1	1.7
Diameter of Plume (m)	1.0	5.0	6.5



Splash 1/2001



Splash 1/2008



Sprint 1.5



## Air-O-Lator

MODEL	DIANA	GALAXY	NORTHSTAR	NOVA	SOLACE
Voltage	230V/1ph & 415V/3ph	230V/1ph & 415V/3ph	230V/1ph & 415V/3ph	230V/1ph & 415V/3ph	230V/1ph & 415V/3ph
Rated Power (KW) P1	2.2	2.2	2.2	2.2	2.2
Rated Current (A) – 230V	15.3	15.3	15.3	15.3	15.3
Rated Current (A) – 415V	5.8	5.8	5.8	5.8	5.8
RPM 230V / 415V	2885 / 2855	2885 / 2855	2885 / 2855	2800	2885 / 2855
Capacity (l/min)	400	400	425	425	425
Height of Plume (m)	7.5	9.5	7.5	9.5	5.5
Diameter of Plume (m)	7.5	15	11.5	N/A	7.5

### Surface Mounted Fountains

A Franklin electric powered centrifugal pump develops a high-pressure discharge of water.

The unique fountain characteristics are achieved via interchangeable nozzle heads.

#### Construction & Operational Characteristics

**Motor Housing**  
Stainless Steel

**Motor Cable Length (m)**  
50





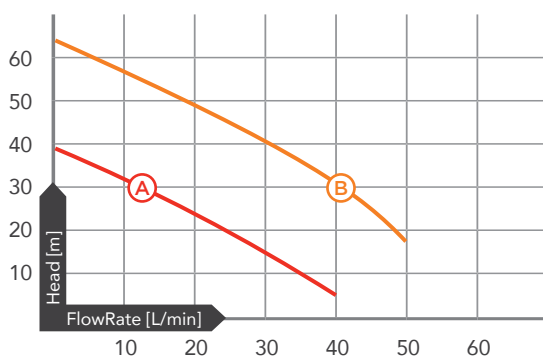
## Peripheral Turbine Pumps

- Ⓐ PM 45
- Ⓑ PM 80

Peripheral turbine pumps have been used extensively for hundreds of years where clean water is required to be moved at good pressure. They consist of a turbine style brass impeller operating with a close tolerance between the two cast iron pump faces. Peripheral turbine pumps are used for water transfer, booster pumps in a fire fighting system and cooling tower applications.



MODEL	Ⓐ PM45	Ⓑ PM80
Power Absorbed (w) P1	500	1100
Max Head (m)	40	65
Max Flow Rate (l/min)	40	50
Inlet Size	1"	1"
Outlet Size	1"	1"
Weight (kg)	6	10



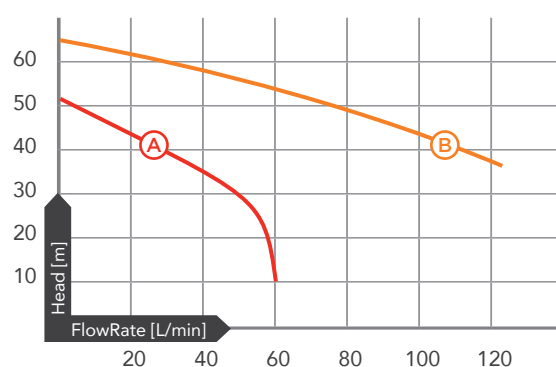
## Spear Pumps

- Ⓐ CAM 100
- Ⓑ CAB 200

Cast iron, self priming, jet pumps manufactured for tough applications. Used extensively for spear pumps in coastal areas and heavy duty pumps in rural applications. Reinforced noryl impellers and diffusers.



MODEL	Ⓐ CAM100	Ⓑ CAB 200
Power Absorbed (w) P1	1000	2200
Max Head (m)	52	65
Max Flow Rate (l/min)	60	120
Inlet Size	1"	1½"
Outlet Size	1"	1"
Weight (kg)	17	29



## Deep Well Injection

These are superior quality deep well injection pumps that are popular on the Australian market. Pumps of this type are used in applications where the underground water is below nine metres deep and a bore hole pump cannot be used.

They can also be used in an offset situation to draw water from the source to the needed supply. Each pump is supplied with two different injectors, sizes P20 and P30 (as shown in the table).

MODEL	AP100	AP150	AP200
Power Absorbed (w) P1	1000	1650	2200
Inlet Size	1¼"	1¼"	1¼"
Outlet Size	1"	1"	1"
Recirculator Size	1"	1"	1"
Weight (kg)	16	25	27

### AP 100



### AP 200



	EJECTOR	SUCTION DEPTH (M)	CAPACITY (L/MIN)									
			3	6	10	15	20	25	30	35	50	60
AP 100	P20	15	40	37	34	30	27	24	21	18		
		20	47	34	30	25	21	17				
	P30	25	30	25	20	14	11					
		30	14	8								
		35	12	4								
AP 150	P20	15							42	35	25	21
		20						50	37	30	21	
		25						45	34	27		
	P30	35				49	41	20				
		40			48	40						
		50		49	43	20						
AP 200	P20	15								46	35	30
		20							48	43	32	27
		25						50	44	40	28	23
	P30	35							28	20		
		40				46	30					
		50			49	40						

Discharge Head (m)



## Fire Fighting Kits

### FHK1

- 5mtrs – 40mm PVC suction hose
- 1x20mtrs – 19mm PVC delivery hose (1Mpa pressure)
- Complete with red nozzles brass and poly fittings

### FHK2

- 5mtrs – 40mm PVC suction hose
- 1x25mtrs – 25mm PVC Layflat delivery hose (0.8Mpa pressure)
- Complete with red nozzles brass and poly fittings

## Engine Drive Pumps

### Fire Fighting Pumps

Gentech range of fire fighting pumps contain an aluminium casing, cast iron diffuser, cast aluminium impeller, replaceable cast iron suction and discharge fittings, and original Honda petrol and Lister diesel engines.

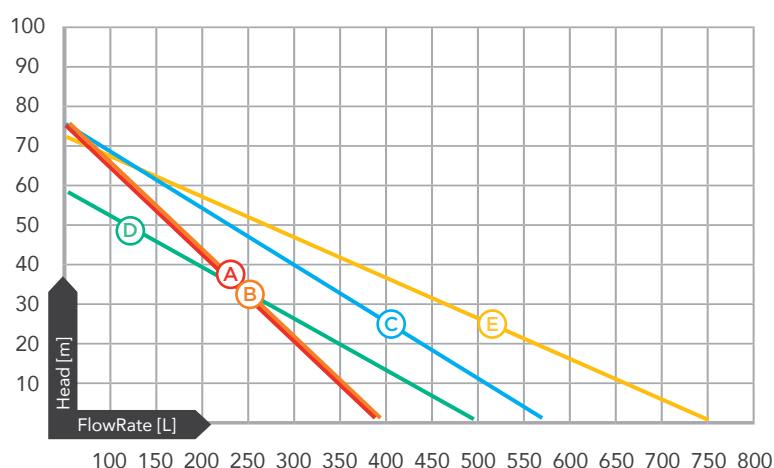
#### MH15SHP



#### MLD15HP



	A	B	C	D	E
MODEL	MH15SHP	MHGP15SHP	MH215SHP	MLD15HP	MH30HP
Motor	Honda Petrol GX160 5.5HP	Honda Petrol GP160 5.5HP	Honda Petrol GX200 6.5HP	Lister Diesel K164	Honda Petrol GX390 12HP
Fuel Tank Capacity (L)	3.6	3.6	3.1	3.5	6.1
Suction Size	1½"	1½"	1½"	1½"	3"
Discharge Size	1½"x1, 1"x2	1½"x1, 1"x2	1½"x1, 1"x2	1½"x1, 1"x2	2½"x1, 1½"x2
Max Head (m)	75	75	75	59	72
Max Flow Rate (L/minute)	390	390	570	490	750
Weight (kg)	24	24	27	64	58







Engine Driven Pumps

Transfer and Trash Pumps

Ideal for transferring high volumes of water at relatively low pressures and can be used for flood irrigation, construction site dewatering and fast fill tanker applications. Powered by original GX series Honda and Yamaha MZ petrol and Lister diesel motors.

MH10

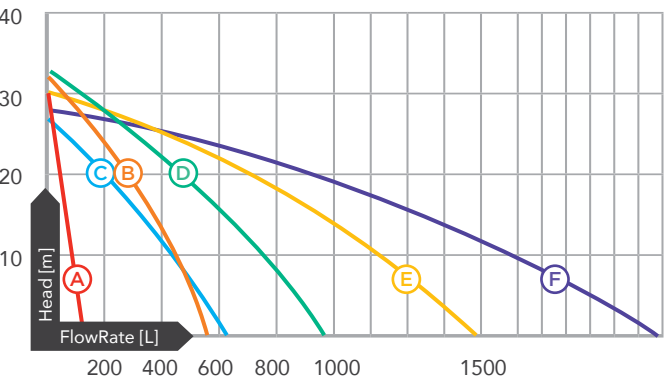


MH30



	A	B	C	D	E	F
MODEL	MH10	MH20	MLD20	MH30	MH30T	MH40T
Motor	Honda GX25, 1.1hp	Honda GX120, 4.0hp	Lister K164	Honda GX160, 4.8hp	Honda GX240, 11.0hp	Honda GX340, 11.0hp
Fuel Tank Capacity (L)	0.65	2.0	3.5	3.6	5.3	6.5
Suction Size	1"	2"	2"	3"	3"	4"
Discharge Size	1"	2"	2"	3"	3"	4"
Max Head (m)	33	32	27	32	30	28
Max Flow Rate (L/minute)	130	580	620	1000	1400	2200
Weight (kg)	6	23	56	27	52	68

\*MLD20 & MY40 also available in electric start





12 V Diaphragm Pumps

- ①

Honeywell MICRO SWITCH™ with silver contacts enhance durability and efficiency
- ②

19mm Quick-connect ports offer the ultimate in convenience and reliability
- ③

Fiberglass-reinforced pump manifold provides superior durability
- ④

Viton™ valves improve performance, priming and durability
- ⑤

Santoprene™ diaphragm is chemical resistant
- ⑥

100% duty cycle. Motors are oversized for continuous duty operation. High-grade copper windings eliminate the need for additional cooling
- Standard mounting pattern
- One pump for all applications (water & chemicals)
- Approved for use with Roundup™ agricultural herbicide
- Self-priming up to 4 feet above liquid level
- Innovative smooth valve design for faster priming and longer life
- Rated to 1000 hours
- Includes 12.7 mm hose barb and 12.7 mm male NPT fitting
- Suitable for water, chemicals and Adblu®



MODEL	1042Q	2272Q	3062Q	4062Q	5562Q	7062Q	15152Q	2022Q
Flow rate (max) L/min	3.8	8.3	11.3	15.1	20.8	26.5	5.7	4.9
Pressure (max) KPa (psi)	276 (40) psi	483 (70) psi	414 (60) psi	414 (60) psi	414 (60) psi	414 (60) psi	1030 (150)psi	414 (60) psi
Max Amps	4.0	8.0	10.0	13.0	17.0	23.0	11.0	23.0

Pipe Friction Loss Chart

Polyethylene Rural Poly (Cl. B) Based on AS 2698.2-2000										Flow Rate		Polyethylene (PE) Pipe - Metric Pn 12.5 (SDR13.6) Based on AS 4130-2003													
¾"		1"		1¼"		1½"		2"				25mm		32mm		40mm		50mm		63mm		75mm		90mm	
19.05mm ID		25.35mm ID		31.65mm ID		38.1mm ID		50.9mm ID				21.05mm ID		26.95mm ID		33.80mm ID		42.4mm ID		53.5mm ID		63.7mm ID		76.5mm ID	
Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	L/s	L/Min	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m
0.14	0.15									0.04	2.4	0.11	0.10												
0.21	0.49									0.06	3.6	0.17	0.31												
0.28	0.80	0.16	0.21	0.13	0.11			0.08	4.8	0.23	0.50	0.14	0.16												
0.35	1.18	0.20	0.31	0.25	0.35			0.10	6.0	0.29	0.74	0.18	0.23												
0.70	3.92	0.40	1.01	0.38	0.71	0.18 0.15		0.20	12.0	0.57	2.44	0.35	0.76	0.22	0.26	0.14 0.09									
1.05	7.97	0.59	2.05	0.51	1.18	0.26	0.30	0.15 0.08	0.30	18.0	0.86	4.96	0.53	1.53	0.33	0.52	0.21							0.18	0.13
1.40	13.23	0.79	3.39	0.64	1.74	0.35	0.49	0.20	0.12	0.40	24.0	1.15	8.21	0.70	2.53	0.45	0.86	0.28	0.30	0.18	0.10	0.13 0.04			
1.75	19.62	0.99	5.02	0.76	2.40	0.44	0.72	0.25	0.18	0.50	30.0	1.44	12.18	0.88	3.75	0.56	1.28	0.35	0.44	0.22	0.15	0.16	0.06		
2.11	27.12	1.19	6.92	0.89	3.15	0.53	0.99	0.30	0.25	0.60	36.0	1.72	16.82	1.05	5.17	0.67	1.76	0.43	0.60	0.27	0.20	0.19	0.09	0.13	0.04
2.46	35.67	1.39	9.09	1.02	3.99	0.61	1.30	0.34	0.33	0.70	42.0	2.01	22.11	1.23	6.79	0.78	2.30	0.50	0.79	0.31	0.26	0.22	0.11	0.15	0.05
2.81	45.26	1.59	11.52	1.14	4.91	0.70	1.65	0.39	0.42	0.80	48.0	2.30	28.04	1.40	8.60	0.89	2.92	0.57	1.00	0.36	0.33	0.25	0.14	0.17	0.06
3.16	55.87	1.78	14.20	1.27	5.92	0.79	2.03	0.44	0.51	0.90	54.0	2.59	34.60	1.58	10.59	1.00	3.59	0.64	1.22	0.40	0.41	0.28	0.18	0.20	0.07
3.51	67.47	1.98	17.13	1.53	8.19	0.88	2.44	0.49	0.62	1.00	60.0	2.87	41.77	1.75	12.78	1.11	4.33	0.71	1.47	0.45	0.49	0.31	0.21	0.22	0.09
4.21	93.59	2.38	23.71	1.78	10.77	1.05	3.37	0.59	0.85	1.20	72.0	3.45	57.89	2.10	17.68	1.34	5.98	0.85	2.03	0.54	0.68	0.38	0.29	0.26	0.12
4.91	123.52	2.77	31.24	1.91	12.18	1.23	4.43	0.69	1.12	1.40	84.0	4.02	76.36	2.45	23.29	1.56	7.86	0.99	2.67	0.63	0.89	0.44	0.38	0.30	0.16
5.26	139.89	2.97	35.35	2.03	13.67	1.32	5.01	0.74	1.26	1.50	90.0	4.31	86.45	2.63	26.35	1.67	8.89	1.06	3.02	0.67	1.01	0.47	0.43	0.33	0.18
5.61	157.18	3.17	39.69	2.29	16.88	1.40	5.62	0.79	1.41	1.60	96.0	4.60	97.10	2.80	29.57	1.78	9.98	1.14	3.39	0.72	1.13	0.50	0.48	0.35	0.20
6.32	194.50	3.57	49.04	2.54	20.38	1.58	6.94	0.89	1.74	1.80	108.0	5.17	120.90	3.16	36.53	2.01	12.31	1.28	4.18	0.81	1.39	0.57	0.60	0.39	0.25
		3.96	59.28	3.18	30.43	1.75	8.37	0.98	2.10	2.00	120.0	5.75	145.29	3.51	44.15	2.23	14.87	1.42	5.04	0.90	1.68	0.63	0.72	0.44	0.30
		4.95	88.66	3.81	42.26	2.19	12.48	1.23	3.13	2.50	150.0	7.18	217.73	4.38	66.00	2.79	22.18	1.77	7.51	1.12	2.50	0.79	1.07	0.54	0.44
		5.94	123.34	4.45	55.83	2.63	17.31	1.48	4.33	3.00	180.0			5.26	91.77	3.34	30.79	2.13	10.41	1.34	3.46	0.94	1.48	0.65	0.61
		6.93	163.18	5.08	71.09	3.07	22.84	1.72	5.71	3.50	210.0			6.14	121.35	3.90	40.66	2.48	13.73	1.57	4.55	1.10	1.94	0.76	0.81
				5.72	88.02	3.51	29.06	1.97	7.25	4.00	240.0					4.46	51.76	2.84	17.46	1.79	5.78	1.26	2.47	0.87	1.03
				6.36	106.60	3.95	35.95	2.22	8.96	4.50	270.0					5.02	64.07	3.19	21.59	2.02	7.14	1.41	3.05	0.98	1.27
				6.99	126.79	4.39	43.50	2.46	10.83	5.00	300.0					5.57	77.57	3.55	26.12	2.24	8.63	1.57	3.68	1.09	1.53
				4.82	51.70	2.71	12.86	5.50	330.0							6.13	92.24	3.90	31.03	2.47	10.25	1.73	4.37	1.20	1.81
				5.26	60.54	2.95	15.04	6.00	360.0							6.69	108.06	4.26	36.33	2.69	11.99	1.89	5.11	1.31	2.12
				5.70	70.02	3.20	17.38	6.50	390.0								4.61	42.00	2.91	13.85	2.04	5.90	1.42	2.45	
LITRES PER SECOND	LITRES PER MINUTE	US GALLONS PER MINUTE	CUBIC METRES PER HOUR			6.14	80.13	3.45	19.87	7.00	420.0			4.97	48.05	3.14	15.84	2.20	6.74	1.52	2.79				
0.076	4.546	1.2	0.2728			6.58	90.86	3.69	22.51	7.50	450.0			5.32	54.46	3.36	17.94	2.36	7.63	1.63	3.16				
0.00127	0.07578	0.02	0.004547			3.94	25.31	8.00	480.0					5.68	61.25	3.59	20.17	2.51	8.58	1.74	3.55				
						4.19	28.25	8.50	510.0					6.03	68.39	3.81	22.51	2.67	9.57	1.85	3.96				
						4.43	31.34	9.00	540.0					6.39	75.90	4.03	24.97	2.83	10.61	1.96	4.39				
						4.68	34.57	9.50	570.0					6.74	83.77	4.26	27.54	2.99	11.70	2.07	4.84				
1	60	15.84	3.6			4.92	37.95	10.00	600.0									4.48	30.23	3.14	12.84	2.18	5.31		

Flow

GALLONS PER MINUTE	GALLONS PER HOUR	LITRES PER SECOND	LITRES PER MINUTE	US GALLONS PER MINUTE	CUBIC METRES PER HOUR
1	60	0.076	4.546	1.2	0.2728
0.01667	1	0.00127	0.07578	0.02	0.004547
13.2	792	1	60	15.84	3.6
0.22	13.2	0.0167	1	0.264	0.06
0.833	50	0.063	3.787	1	0.227
3.666	220	0.278	16.667	4.4	1

Volume

IMPERIAL GALLONS	LITRES	US GALLONS	CUBIC FEET	LBS WATER	CUBIC METRE
1	4.546	1.2	0.1605	10	0.00455
0.22	1	0.264	0.0353	2.2	0.001
0.833	3.785	1	0.1337	8.333	0.00379
6.23	28.32	7.48	1	62.3	0.02832
0.1	0.4546	0.12	0.0161	1	0.00046
220	1000	264	35.32	2200	1

Length

INCH	FOOT	YARD	CMS	METRE	MILE	KILOMETRE
1	0.0833	0.02778	2.54	0.0254		
12	1	0.3333	30.48	0.3048	0.000189	0.0003048
36	3	1	91.44	0.9144	0.0005681	0.0009144
0.3936	0.0328	0.010931	1	0.01		
39.37	3.2808	1.0936	100	1	0.00052	0.001
63,360	5,280	1760	160,934	1609.4	1	1.6093
39,371	3280.9	1093.6	100,000	1000	0.6214	1

Pressure

PSI	FOOT OF WATER	KPA	BAR	METRE OF WATER
1	2.31	6.895	0.68	0.704
0.433	1	2.986	0.03	0.305
0.145	0.335	1	0.01	0.102
14.5	33.5	100	1	10.21
1.42	3.281	9.797	0.098	1

Power

WATTS	KILOWATTS KW	HORSEPOWER HP
1	0.001	0.00134
1000	1	1.34
746	0.746	1

Friction Loss Chart

Flow Rate		PVC Pipe - Pn 12 Series Based on 1477-2006													
		20mm		25mm		32mm		40mm		50mm		80mm		100mm	
		23.7mm ID		29.8mm ID		37.5mm ID		42.8mm ID		53.7mm ID		79mm ID		101.7mm ID	
L/s	L/Min	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m	Velocity	Head Loss m/100m
0.06	3.6	0.14	0.12												
0.08	4.8	0.18	0.29	0.12	0.10										
0.10	6.0	0.23	0.43	0.14	0.14										
0.20	12.0	0.46	1.41	0.29	0.47	0.18	0.16								
0.30	18.0	0.68	2.85	0.43	0.96	0.27	0.32	0.14	0.09						
0.40	24.0	0.91	4.72	0.58	1.58	0.36	0.53	0.21	0.17	0.13	0.06				
0.50	30.0	1.14	6.99	0.72	2.34	0.45	0.78	0.28	0.28	0.18	0.10				
0.60	36.0	1.37	9.64	0.86	3.23	0.54	1.08	0.35	0.42	0.22	0.14	0.10	0.02		
0.70	42.0	1.59	12.67	1.01	4.23	0.64	1.41	0.42	0.57	0.27	0.20	0.12	0.03		
0.80	48.0	1.82	16.06	1.15	5.36	0.73	1.79	0.49	0.75	0.31	0.26	0.14	0.04		
0.90	54.0	2.05	19.80	1.29	6.60	0.82	2.20	0.56	0.95	0.35	0.32	0.16	0.05		
1.00	60.0	2.28	23.89	1.44	7.96	0.91	2.65	0.63	1.17	0.40	0.40	0.18	0.06	0.11	0.02
1.20	72.0	2.73	33.08	1.73	11.01	1.09	3.66	0.70	1.41	0.44	0.48	0.20	0.08	0.12	0.02
1.40	84.0	3.19	43.61	2.01	14.49	1.27	4.81	0.84	1.95	0.53	0.66	0.24	0.10	0.15	0.03
1.60	96.0	3.64	55.42	2.30	18.40	1.45	6.10	0.98	2.56	0.62	0.86	0.29	0.14	0.17	0.04
1.80	108.0	4.10	68.50	2.59	22.72	1.63	7.53	1.11	3.24	0.71	1.09	0.33	0.17	0.20	0.05
2.00	120.0	4.55	82.82	2.88	27.44	1.82	9.09	1.25	4.00	0.80	1.35	0.37	0.21	0.22	0.06
2.50	150.0	5.69	123.97	3.60	40.99	2.27	13.55	1.39	4.82	0.88	1.63	0.41	0.26	0.25	0.08
3.00	180.0	6.83	172.56	4.32	56.95	2.72	18.80	1.74	7.18	1.11	2.42	0.51	0.38	0.31	0.11
3.50	210.0			5.04	75.27	3.18	24.81	2.09	9.95	1.33	3.35	0.61	0.53	0.37	0.16
4.00	240.0			5.75	95.88	3.63	31.57	2.44	13.13	1.55	4.41	0.71	0.69	0.43	0.21
4.50	270.0			6.47	118.76	4.09	39.06	2.79	16.69	1.77	5.60	0.82	0.88	0.49	0.26
5.00	300.0					4.54	47.26	3.14	20.64	1.99	6.92	0.92	1.08	0.55	0.32
5.50	330.0					4.99	56.18	3.48	24.96	2.21	8.37	1.02	1.31	0.62	0.39
6.00	360.0					5.45	65.79	3.83	29.66	2.43	9.93	1.12	1.55	0.68	0.46
6.50	390.0					5.90	76.10	4.18	34.71	2.65	11.62	1.22	1.81	0.74	0.54
7.00	420.0					6.35	87.09	4.53	40.14	2.88	13.42	1.33	2.09	0.80	0.62
7.50	450.0					6.81	98.75	4.88	45.91	3.10	15.35	1.43	2.39	0.86	0.71
8.00	480.0							5.23	52.04	3.32	17.39	1.53	2.70	0.92	0.80
8.50	510.0							5.57	58.52	3.54	19.54	1.63	3.03	0.98	0.90
9.00	540.0							5.92	65.35	3.76	21.81	1.73	3.38	1.05	1.01
9.50	570.0							6.27	72.52	3.98	24.19	1.84	3.75	1.11	1.11
10.00	600.0							6.62	80.04	4.20	26.68	1.94	4.13	1.17	1.23
								6.97	87.89	4.42	29.29	2.04	4.54	1.23	1.35



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