

 PENTAIR

ONGA®



HOME MASTER

DISTRIBUTOR CATALOGUE



HOMEMASTER

CONTENTS



BENEFITS - NOMENCLATURE	3, 4, 5
APPLICATIONS	6
PUMP SELECTION GUIDE	7
PERFORMANCE - JET ASSISTED PUMPS	
JMM100 / JSK RANGE	8
JSP RANGE	9
PERFORMANCE - MULTISTAGE PUMPS	
SMHP RANGE / SSHP RANGE	10
ENVIROMASTER	11
PERFORMANCE - SUBMERSIBLE PUMPS	
DOMINATOR / TANKBUDDY	12
PERFORMANCE - CONTROLLERS	
WATER SWITCH - AUTOMATIC RAINWATER CONTROLLER	13
PRESSCONTROL / MINIPRESS - PRESSURE SWITCHES	14
WATER SWITCH SYSTEMS SELECTION GUIDE	15
PERFORMANCE - DOMESTIC WATER SWITCH/PUMP KITS	
SMHW SERIES / JMM100FL / DW SERIES / OTBW450 / SMHW450PC KIT / JSW110PC KIT	16
PERFORMANCE - COMMERCIAL WATER SWITCH/PUMP KITS	
SBI 5-10 SINGLE SPEED / SBI 5-10 VARIABLE SPEED	17
DIMENSIONS - HOMEMASTER	
JM & JS / SMH / TANKBUDDY / DOMINATOR - Drawings	18
WATER SWITCH / PRESSCONTROL / MINIPRESS - Drawings	19
DIMENSIONS TABLE	19
PUMP & PRESSCONTROL - Drawings	20
DIMENSIONS TABLE	20
TECHNICAL - HOMEMASTER	
MATERIALS OF CONSTRUCTION	21
NOISE LEVELS	21
MODEL / ELECTRICAL DATA - WATER SWITCH	22
ELECTRICAL / MOTOR DATA - All models	22
MODEL DATA - SURFACE PUMPS	22
MODELS DATA - SUBMERSIBLE PUMPS	22
INSTALLATION TIPS	
FLOAT SWITCH	23
TROUBLESHOOTING	
ALL MODELS	24
WATER SWITCH	25
SPARE PARTS	
JM & JS MODELS	26
SMH MODELS	27
SSH MODELS	28
ENVIROMASTER	30, 31, 32, 33
DOMINATOR MODELS	34, 35
OTBW450 MODELS	36, 37
PRESSCONTROL	38
WATER SWITCH	39

HOMEMASTER

BENEFITS - NOMENCLATURE

Pentair offers a wide range of pumps, controls and accessories to provide the best in household water supply for urban rainwater harvesting applications.

The Homemaster pump range is available in several types:

JM jet assisted pumps :

The JMM100 is an all moulded pressure system complete with Minipress. This is an economical household pressure system incorporating all the usual performance and reliability features of Onga. Like all jet pumps, the suction inlet is high on the pump body to enhance self-priming and air handling capabilities.

JS jet assisted pumps :

The JS range of household pressure systems feature a strong stainless steel pump casings with precision moulded jet, venturi and impeller for efficiency and great performance under high suction lift applications. These Australian made pumps are mounted on a stable, moulded base for protection from corrosion, and feature totally enclosed fan cooled motors.

SMH multistage pumps :

Onga's SMH multistage pumps are perfect for providing great pressure in a compact package. The five SMH models offer low noise and efficiency in a strong and proven design.

Tankbuddy :

Based largely on the SMH range of pumps, this submersible pump offers the same reliability, efficiency and performance as the SMH range with the extra advantage of operating near silently submerged into the tank.

D.R.O.P - DRY RUN OVER

- *Temperature Protection* -

Onga's unique system comes standard with the SMH range (excluding SMH350) providing an extra level of protection against expensive pump damage.

Why it's needed

As a pump runs, it transfers the motor's energy to the water. Usually, this energy is felt as pressure and flow - e.g. a great shower. However, if a pump's control system fails, the motor's energy can only end up as heat. The water in the pump heats up until it boils or melts and deforms the pump's internal components. This will almost always require complete pump replacement.

WaterSwitch :

WaterSwitch provides the best possible solution for the urban water market. It provides automatic selection between rain water and mains water depending on availability of water within the tank. This enables the household to maximise tank usage and minimise mains water usage, ensuring a continuous, cost effective supply of water without fuss.

Dominator Submersible :

The Onga Dominator range changes the rules for household pressure. Submerged in the tank operation is near silent. It shares its pump components with the highly respected Sta-rite Signature 2000 submersible borehole range for proven high efficiency and reliability.

SSH multistage pumps:

The SSH range of high flow high head horizontal centrifugal multi-stage pumps are ideally suited to larger domestic applications. The stainless steel and cast iron construction gives them strength and durability in a compact design.

Enviromaster:

Onga's Enviromaster is a variable speed pump that easily handles the demands of an urban or rural household. Thanks to the Variable Speed Drive (VSD) the motor runs at a speed according to demand making it highly efficient, cost effective and quiet when operating.

How D.R.O.P. works

D.R.O.P. avoids this by constantly measuring the internal temperature of the pump, and shutting it down if abnormally high temperatures exist.



HOMEMASTER

BENEFITS - NOMENCLATURE

Nomenclature	RANGE	CASING	PACKAGE	POWER OUTPUT	ACCESSORIES
JET PUMPS	J - JET ASSISTED	M - MOULDED	M - MINIPRESS	100 - 300 WATT	DR - Top entry float
		S - STAINLESS STEEL	P - PRESSCONTROL	110 - 450 WATT	ER - Side entry float (grommet)
			W - WATERSWITCH	120 - 750 WATT	FR - Side entry float (threaded)
			Blank - PUMP ONLY		FL - Floatless

- FOR EXAMPLE **JSW110DR**

Nomenclature	CASING	INTERNALS	DIRECTION	PACKAGE	POWER OUTPUT	ACCESSORIES
MULTISTAGE PUMPS	S - STAINLESS STEEL	M - MOULDED	H - HORIZONTAL	W - WATERSWITCH	35 - 350 WATT	DR - Top entry float
				P - PRESSCONTROL	45 - 450 WATT	ER - Side entry float
				Blank - PUMP ONLY	55 - 550 WATT	FR - Side entry float
					75 - 750 WATT	FL - Floatless
					90 - 900 WATT	

- FOR EXAMPLE **SMHP55**

Nomenclature	RANGE	PACKAGE	NOMINAL FLOW	MAXIMUM HEAD
DOMINATOR SUB. PUMPS	D - DOMINATOR	M - MINIPRESS	115 - 115 LPM	57 - 57 METRES
		P - PRESSCONTROL	75 - 75 LPM	56 - 56 METRES
		W - WATERSWITCH		35 - 35 METRES
		Blank - PUMP ONLY		

- FOR EXAMPLE **DW7535**

Nomenclature	RANGE	PACKAGE	EQUIVALENCE TO SMH	PUMP ARRANGEMENT
TANKBUDDY SUB. PUMPS	OTB - ONGA TANK BUDDY	M - MINIPRESS	450 - EQUIVALENCE TO SMH450	A - AUTOMATIC (FLOAT SWITCH)
		W - WATERSWITCH		W - IEC PLUG
		Blank - PUMP ONLY		Blank - PACKAGED PUMP
				DR - Top entry float
				FL - Floatless

- FOR EXAMPLE **OTB450W**

HOMEMASTER

BENEFITS - NOMENCLATURE

		FEATURES	BENEFITS					
JET ASSISTED PUMP RANGE			JMM	JS	JSM	JSP	JSW	
		Stainless steel pump casing	Corrosion resistant, tough		•	•	•	•
		Moulded pump casing	Corrosion free	•				
		Self-priming	Lifts water from wells and other low sources (depths to 7.6m)	•	•	•	•	•
		Easy installation	Low installation cost, or DIY	•	•	•	•	•
		Base mounted	Pump lifted above corrosive sitting water	•	•	•	•	•
		Australian made	Quality construction for local conditions	•	•	•	•	•
		Even pressure	Constant temperature without water pressure fluctuations for a comfortable shower	•		•	•	
		Loss of prime protection	Protects pump from expensive failure	•		•	•	•
	Dual source valve	Automatically selects between tank and mains water					•	
HORIZONTAL MULTISTAGE PUMP RANGE			SMH		SMHP	SMHW		
		Stainless steel pump casing	Corrosion resistant, tough	•	•	•	•	
		Precision moulded components	High efficiency and quiet operation	•	•	•	•	
		Stainless steel pump foot	Pump lifted off wet surface, easy installation	•	•	•	•	
		Dry Run Over-temperature protection	Protects pump from expensive failure	•	•	•	•	
		Even pressure	Constant temperature without water pressure fluctuations for a comfortable shower			•		
		Loss of prime protection	Protects pump from expensive failure			•	•	
	Dual source valve	Automatically selects between tank and mains water				•		
SUBMERSIBLE (TANKBUDDY) PUMP RANGE			OTB	OTBM	OTBW			
		Submersible	Near silent operation	•	•	•	•	
		In Tank Location	Space saving, out of sight, vandal proof	•	•	•	•	
		Integrated float switch	Automatic level control (OTB450A)	•				
		IEC Plug	Easy installation with WaterSwitch		•	•	•	
		Dual source valve	Automatically selects between tank and mains water				•	
		Even pressure	Constant temperature without water pressure fluctuations for a comfortable shower			•		
	Loss of prime protection	Protects pump from expensive failure			•	•		
SUBMERSIBLE (DOMINATOR) PUMP RANGE			DOMINATOR	DM	DP	DW		
		Submersible	Near silent operation	•	•	•	•	
		High performance	Can supply large homes with excellent water pressure	•	•	•	•	
		In Tank Location	Space saving, out of sight, vandal proof					
		Stainless steel shaft and case	Corrosion resistance, strength and long life	•	•	•	•	
		Moulded Noryl discharge	High strength connection (includes safety loop)	•	•	•	•	
		Sta-Rite S2000 internals	High efficiency and ceramic wear rings for longer life	•	•	•	•	
		Compact dimensions	Fits through small tank inspection hatches	•	•	•	•	
		20m cable & IEC cord included	Ready to install DIY connection to controllers	•	•	•	•	
		Mechanical seal and oil chamber	Highest quality motor protection	•	•	•	•	
		Internally cooled motor	Can run only partially submerged	•	•	•	•	
		Dual source valve	Automatically selects between tank and mains water				•	
		Even pressure	Constant temperature without water pressure fluctuations for a comfortable shower			•	•	
		Loss of prime protection	Protects pump from expensive failure			•	•	

HOMEMASTER

APPLICATIONS

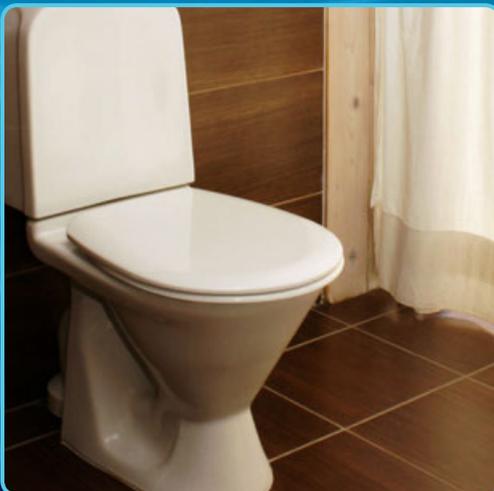
Household Pressure Systems:

Homemaster pumps lead the way in household pressure systems with a vast selection of different pumps and packages to suit any requirement.

Typical household pressure system applications include the use of rainwater for toilet flushing and washing machines. Additionally the systems can be used for showers, basins, hot water services, and general water use. However, check with your local council to see if there are any restrictions on the use of rainwater within your area.

Garden Irrigation:

Homemaster pumps are fantastic tools for garden irrigation, providing one or more of a number of features including even pressure, dual source selection, high pressure and reliability.



HOMEMASTER

SELECTION GUIDE

Pump selection guide:

This selection guide will help in finding the appropriate pumps for your customers and their needs.

Follow steps 1 through 5:

1. SELECT USAGE.

Select between use with household appliances and use for garden / irrigation.

2. SELECT DUAL or SINGLE SOURCE WATER INPUT.

Dual source water input refers to tank and mains.
Single source water input refers to mains.

3. SELECT APPLICATION SIZE.

Select "ALL" for any application size.
Select "S-M" - 4 taps or less.
Select "M-L" - 5-7 taps.

4. CONTROLLER NEEDED.

Select between, Waterswitch (Automatic rainwater controller), PressControl and Minipress.

5. PUMP LOCATION.

Select where the pump will be located in relation to point of application and if a submersible pump is required or not.

The product ranges listed are recommended for optimal performance and should be used as a guide only.

SELECT USAGE				
				
	HOUSEHOLD		GARDEN / IRRIGATION	
SELECT DUAL or SINGLE SOURCE WATER INPUT				
				
SELECT APPLICATION SIZE				
	ALL	ALL	M-L	S-M
CONTROLLER NEEDED				
				
	WATERSWITCH	WATERSWITCH	PRESSCONTROL	MINIPRESS
PUMP LOCATION				
APPROPRIATE PUMP RANGE				
NEXT TO TANK	SMHW	SMHW	SMHP SMHK	JMM JSM JSK
AWAY FROM TANK	JSW	JSW	JSP JSK	JSP JSK
INSIDE TANK CLOSE TO HOUSE	OTBW	OTBW	DP	OTBM DM
INSIDE TANK AWAY FROM HOUSE	DW	DW	DP	DM

PERFORMANCE

HOMEMASTER JET ASSISTED WATER PRESSURE PUMPS

JMM100



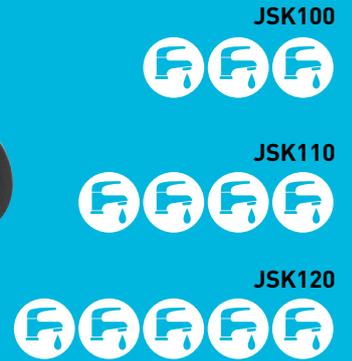
2
YEAR
WARRANTY



JSK RANGE



2
YEAR
WARRANTY



- The JMM100 is an automatic pressure pump which includes the Minipress. The casing and internal parts consist of precision moulded components for high efficiency and reliability.
- This is an economical household pressure system incorporating the high performance and reliability features typical of Onga.
- The suction inlet is high on the pump body, enhancing self priming and air handling ability, while the totally enclosed, fan-cooled motor gives years of quiet and reliable operation.

APPLICATIONS:

- Automatic domestic water pressure systems.
- High suction lift situations.

AS/NZS
4020:2005 compliant

In-built thermal
motor protection

- The JSK range of pressure systems includes three pump and tank combinations to suit almost any home.
- The JS range of pumps features a strong stainless steel pump casing, with precision-moulded internals.
- The suction inlet is set high on the pump body to enhance self priming and air handling ability.
- Pressure switch and pressure tank combination reduces pump starts.

APPLICATIONS:

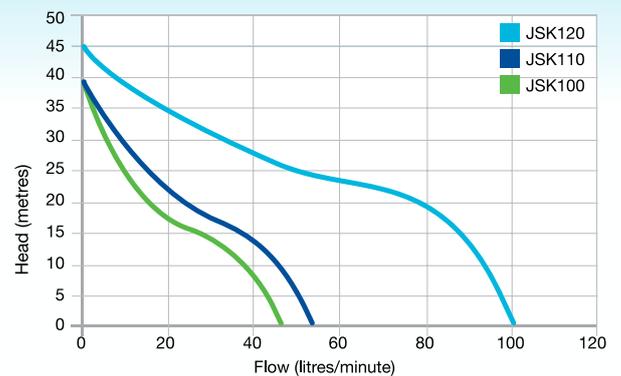
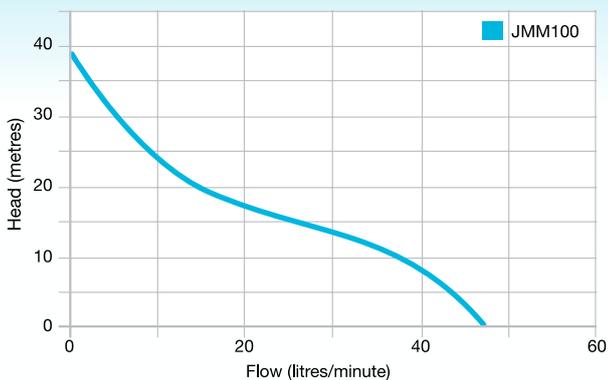
- Automatic domestic water pressure systems.
- High suction lift situations.

AS/NZS
4020:2005 compliant

In-built thermal
motor protection

MODEL	WATTS (P2)	CURRENT (AMPS)	OPERATING PRESSURE (KPA)	SUCTION DEPTH (METRES) CAPACITY (LITRES PER MIN)						PORT SIZE (BSP)	
				0	1.5	3.0	4.6	6.1	7.6	SUCTION	DISCHARGE
JMM100	300	2.65	140	30	27	24	21	17	12	1" M	1" M

MODEL	WATTS (P2)	CURRENT (AMPS)	OPERATING PRESSURE (KPA)	SUCTION DEPTH (METRES) CAPACITY (LITRES PER MIN)						PORT SIZE (BSP)	
				0	1.5	3.0	4.6	6.1	7.6	SUCTION	DISCHARGE
JSK100	300	2.65	140-275	30	27	24	21	17	12	1" F	1" F
JSK110	450	2.9	140-275	40	36	32	28	23	16	1" F	1" F
JSK120	750	4.8	210-345	76	69	61	53	43	31	1 1/4" M	1" F



HOMEMASTER JET ASSISTED WATER PRESSURE PUMPS



JSP RANGE



JSM100



JSP110



JSP120

- Equipped with electronic pressure control, the JSP range is designed for situations requiring strong, even pressure.
- The JS range of pumps feature stainless steel casing and precision-moulded internals
- Loss of prime protection to prevent dry running.

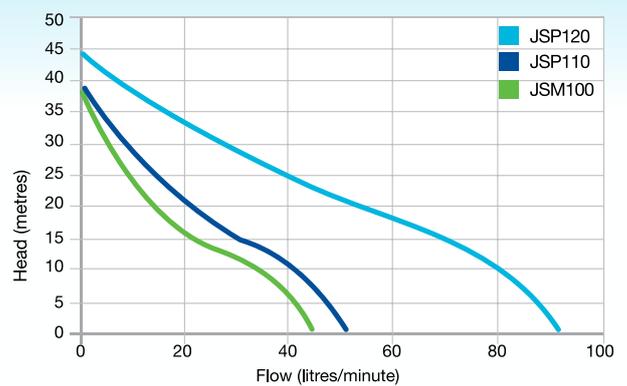
APPLICATIONS:

- Automatic, even pressure household water supply, especially with high suction lift.

AS/NZS 4020:2005 compliant

In-built thermal motor protection

MODEL	WATTS (P2)	CURRENT (AMPS)	OPERATING PRESSURE (KPA)	SUCTION DEPTH (METRES)						PORT SIZE (BSP)	
				CAPACITY (LITRES PER MIN)						SUCTION	DISCHARGE
JSP100	300	2.65	140	25	23	20	18	14	10	1" F	1" F
JSM110	450	2.9	140	35	32	28	25	20	14	1" F	1" F
JSM120	750	4.8	210	52	47	42	37	30	22	1 1/4" M	1" F



PERFORMANCE

HOMEMASTER MULTISTAGE AUTOMATIC WATER PRESSURE PUMPS

SMHP RANGE



SMH45



SMH55



SMH75



SMH90



SSHP RANGE



SSH50



SSH75



SSH110



- The SMHP range provides solutions for average sized homes right up to the largest applications.
- Stainless steel motor shaft and pump casing for corrosion resistance and longer life.
- Precision moulded components provide high efficiency and low noise.
- Stainless steel pump foot helps to prevent corrosion and provides easy installation.
- Loss of prime protection prevents dry running.
- The Dry Run Over-temperature Protection (D.R.O.P) system prevents costly pump damage.

APPLICATIONS:

- The perfect household pressure pump.

AS/NZS 4020:2005 compliant

In-built thermal motor protection

- The SSHP range offers the strongest construction available, using stainless steel and cast iron throughout for corrosion resistance and longer life.
- Compact and extremely quiet. Coupled with electronic pressure control, these pumps provide strong even pressure, eliminating temperature and pressure fluctuations.
- Cast iron suction and discharge for high strength connections.
- Compact for easy installation in small spaces.
- Loss of prime protection.

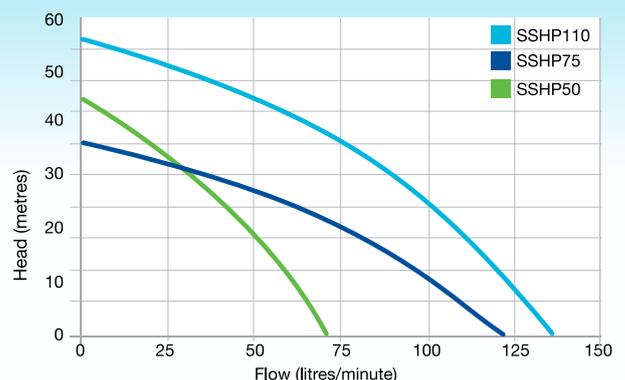
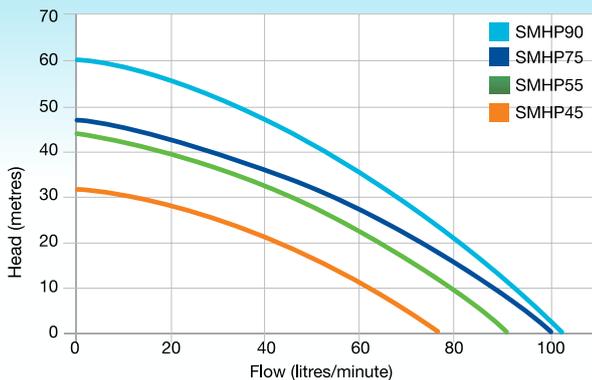
APPLICATIONS:

- The toughest household pressure pump.

In-built thermal motor protection

MODEL	WATTS (P2)	CURRENT (AMPS)	OPERATING PRESSURE (KPA)	SUCTION DEPTH CAPACITY (LITRES PER MIN)			PORT SIZE (BSP)	
				0	1.5	3.0	SUCTION	DISCHARGE
SMHP45	450	3.2	140	55	50	44	1" F	1" F
SMHP55	550	4.0	140	73	66	59	1" F	1" F
SMHP75	750	4.6	210	72	66	59	1" F	1" F
SMHP90	900	5.8	210	80	72	64	1" F	1" F

MODEL	WATTS (P2)	CURRENT (AMPS)	OPERATING PRESSURE (KPA)	SUCTION DEPTH CAPACITY (LITRES PER MIN)			PORT SIZE (BSP)	
				0	1.5	3.0	SUCTION	DISCHARGE
SSHP50	550	3.5	210	42	38	34	1" F	1" F
SSHP75	750	4.5	210	63	57	51	1 1/4" M	1" F
SSHP110	1100	7.7	210	105	94	84	1 1/4" M	1" F



PERFORMANCE

HOMEMASTER MULTISTAGE

AUTOMATIC WATER PRESSURE PUMPS



P4700000



- The Onga Enviromaster is an energy efficient, variable speed pump that easily handles the demands of a rural or urban household.
- Runs at a speed according to demand for energy efficiency and lower running costs.
- Low speed running means silent operation.
- Reduced running speed means minimised internal stress for longer life cycle.
- Loss of prime protection prevents dry running.

APPLICATIONS:

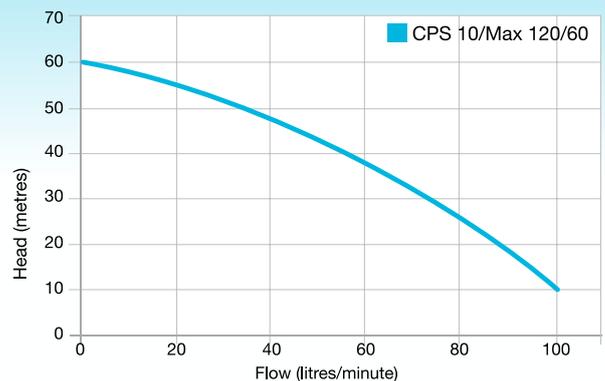
- Pressure boosting .
- Irrigation.
- Industrial water washing.
- Water distribution.
- Building appliances.



AS/NZS 4020:2005 compliant

In-built thermal motor protection

MODEL	WATTS (P2)	CURRENT (AMPS)	OPERATING PRESSURE (KPA)	SUCTION DEPTH CAPACITY (METRES) (LITRES PER MIN)			PORT SIZE (BSP)	
				0	1.5	3.0	SUCTION	DISCHARGE
P4700000	900	8.5	250	80	72	64	1" F	1" F



PERFORMANCE

HOMEMASTER SUBMERSIBLE WATER PRESSURE PUMPS



DOMINATOR

75/35



75/56



115/57



- Submerged in the tank operation is near silent.
- It shares its pump components with the highly respected Sta-Rite Signature 2000 submersible borehole pump range.
- Coupled with electronic pressure control the Dominator becomes a complete home pressure system.
- High efficiency moulded impellers means lower running costs and high performance.
- Stainless steel suction, shaft and casing makes this pump corrosion resistant and tough.
- Supplied with 20m cable and 20m drop cord.
- Mechanical seal with oil chamber for high quality motor protection.

APPLICATIONS:

- The perfect in-tank household pressure pump.

AS/NZS 4020:2005 compliant

In-built thermal motor protection



TANKBUDDY

OTB450W / OTBM450



- Specifically designed for rainwater harvesting.
- Based on the SMH range of multistage pumps, giving them the same reliability, efficiency, and high performance.
- By using existing designs in an innovative way, Onga is able to offer a great submersible pump at a low cost.
- Installed inside the tank for near silent operation.

APPLICATIONS:

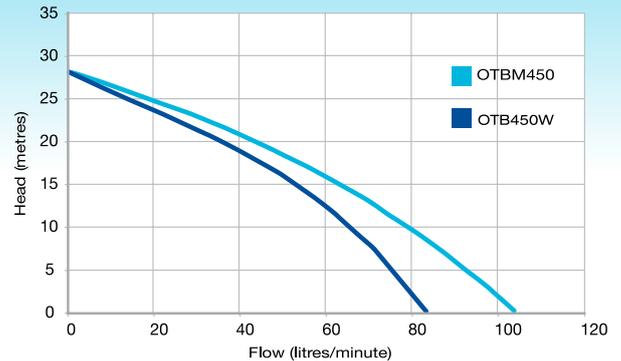
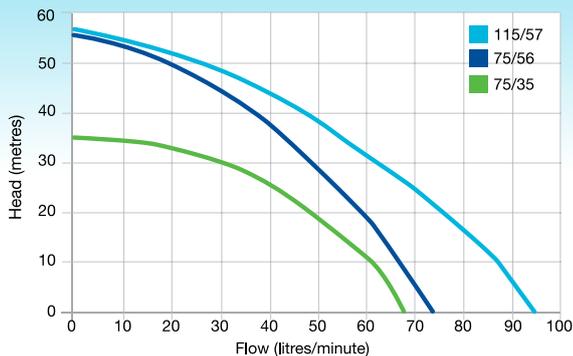
- Treated water pump-out chambers.

AS/NZS 4020:2005 compliant

In-built thermal motor protection

MODEL	WATTS (P2)	CURRENT (AMPS)	OPERATING PRESSURE (KPA)	DISCHARGE HEAD CAPACITY (LITRES PER MIN) (kPa)					PORT SIZE (BSP)
				140	210	280	350	420	
75/35	350	2.7	140	55	45	35	0	0	1 1/4" F
75/56	600	3.8	140	64	56	51	43	33	1 1/4" F
115/57	800	5.0	140	83	75	66	55	43	1 1/4" F

MODEL	WATTS (P2)	CURRENT (AMPS)	DISCHARGE HEAD CAPACITY (LITRES PER MIN) (kPa)				PORT SIZE (BSP)
			140	170	210	280	
OTB450W	650	4	70	56	47	16	1 1/4" F
OTBM450	650	4	52	46	31	0	1" M



HOMEMASTER CONTROLLERS

AUTOMATIC RAINWATER CONTROLLER

WATERSWITCH

Water is a valuable resource, and saving water is a priority for every Australian household. To make water saving easy Onga has developed WaterSwitch. WaterSwitch is a dual source valve that utilises water captured within a rainwater tank to supply water requirements around the home. Not all domestic water applications and appliances require water that has been treated for drinking by a local water authority. Uses for rainwater include, washing machines, toilets flushing, and garden watering. With WaterSwitch your customers will save water automatically.

HOW DOES WATERSWITCH WORK?

WaterSwitch is a fully automatic device that has the ability to detect the availability of water inside the tank (via a float sensor) so that it can ensure a seamless supply of water to the home without any interruption. When the tank contains water the float sensor relays this to the WaterSwitch and the WaterSwitch will automatically divert the demand to be supplied with the available rainwater. In the event that the rainwater falls below the set level of the float sensor the WaterSwitch seamlessly switches all demand on the system over to the mains water to ensure that supply of water is never interrupted and that your customer is maximising their use of rainwater and therefore maximising their savings.

WHY IS WATERSWITCH THE BEST SOLUTION FOR URBAN RAINWATER?

WaterSwitch is a unique system that was designed to avoid high losses in pressure, which means WaterSwitch can be used in a broader range of applications like garden irrigation including pop up sprinklers. The high flow design of the WaterSwitch enables Onga to provide the most effective pump package, providing optimum energy efficiency and lower running costs. On top of the sophisticated design of the unit Onga has also thought of a range of additional features that make WaterSwitch so much easier to use.

These extras include:

- Easy mount wall bracket for submersible pump packages.
- Complete union kits to make sure the systems fits together perfectly.
- Smart display allowing the user to see what source is being used and override the system if the need occurs.
- In-built backflow protection.
- Upon activation, solenoid valve prevents mixing of main and tank water so genuine water savings are achieved.



For illustrative purposes only. H2O informer not standard.



H₂O INFORMER SPECIAL FEATURE:

New state of the art, wireless interface module records water usage for both mains and tank water so the user can see actual water savings from up to a 20 metre range.



H2O Informer display features:

- Tank savings (in ltr)
- Mains savings (in ltr)
- Percentage savings
- Days of savings

FEATURES	BENEFITS
Energy savings	The pump only operates when rain water is being used.
Low pressure drop design	More water, more pressure from either pump or mains supply.
Display panel	See which water source is being used at any given time.
Override control	Allows the homeowner to use tank water if mains shut off.
Backflow protection	A dual check valve provides backflow prevention to keep rain water and the mains supply separated.
Pump check valve	This prevents precious mains supply water from escaping through the rain water tank.
Solenoid valve operation	Does not mix water - allows either mains or tank water to be used. If power is unavailable, Waterswitch lets main water pass to appliances.

PERFORMANCE

HOMEMASTER CONTROLLERS

ELECTRONICALLY CONTROLLED PRESSURE SWITCHES

The Presscontrol and MiniPress are devices that guarantee perfect control of household pressure pumps. Incorporating both hydraulic and electronic components, they are capable of simultaneously detecting both pressure and flow. Using this information it controls the pump and also protects the pump against abnormal running situations. It replaces the traditional expansion tank system, it is totally reliable, and easy to install.

FEATURES	BENEFITS
Replaces the traditional expansion tank system	Far more compact than a tank, with reduced maintenance.
Operates the pump in accordance with demand	Completely automatic operation.
Maintains even pressure during delivery	Keeps pressure and temperature even for great showers.
Stops the pump on loss-of-prime	Protects the pump, reducing service costs.
Attenuates the effects of water hammering	Protects household plumbing.
Pre-Wired Plug and Play	No need for Electrician to install.

PRESSCONTROL

Presscontrol is the industry standard for automatic control for household pressure systems. No other controller has its track record of reliable operation. It is a versatile controller that can be matched with a wide range of pumps to suit virtually any household pressure situation.

PC1100X-2.2 (Cut-in: 220kPa) also available:
Suitable for high discharge head applications.

MODEL	SUPPLY VOLTAGE	FREQUENCY	MAX. CURRENT	MAX. POWER	PROTECTION	MAX. OPERATING TEMP.	MAX. OPERATING PRESSURE	INLET PORT SIZE	OUTLET PORT SIZE	CUT-IN
PC1100	230V	50-60Hz	8A	1.5kW	IP65	65°C	1MPa	1" M	1" M	150kPa
PC1100X	230V	50-60Hz	8A	1.5kW	IP65	65°C	1MPa	1" M	1" M	220kPa



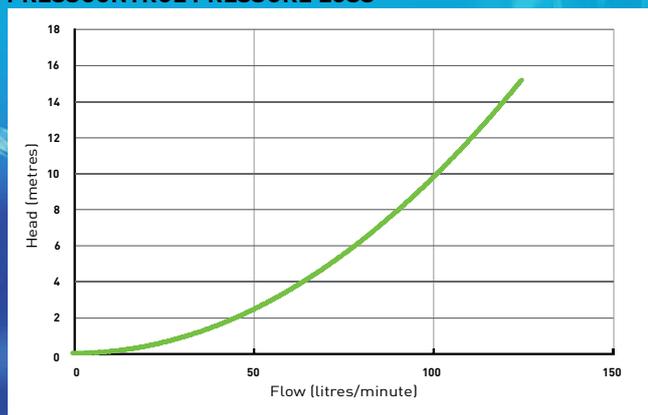
MINIPRESS

MiniPress offers the same reliability and quality as the PressControl in a smaller package. Matched up with the lower end of the pump range, MiniPress offers reliable automatic pressure control for small domestic applications.

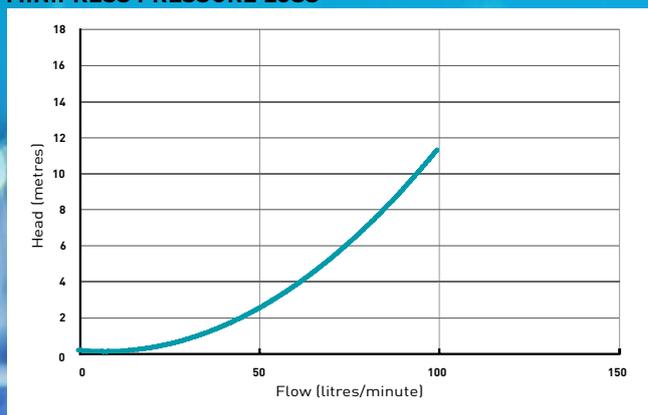
MODEL	SUPPLY VOLTAGE	FREQUENCY	MAX. CURRENT	MAX. POWER	PROTECTION	MAX. OPERATING TEMP.	MAX. OPERATING PRESSURE	INLET PORT SIZE	OUTLET PORT SIZE	CUT-IN
MP1100	230V	50-60Hz	6A	1.1kW	IP65	60°C	1MPa	1" M	1" M	150kPa



PRESSCONTROL PRESSURE LOSS



MINIPRESS PRESSURE LOSS



HOMEMASTER

WATER SWITCH SYSTEMS SELECTION GUIDE

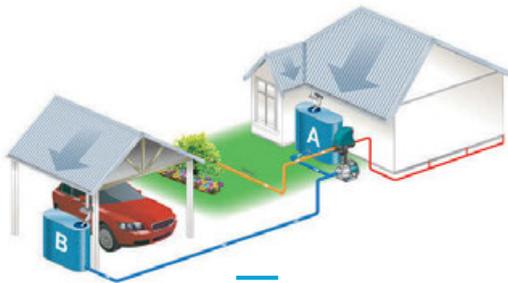
This quick selection guide can help you to find the most suitable WaterSwitch product for your customers and their needs. The products listed are recommended for optimal performance and should be used as a guide only.

• STEP 1

– SELECT SINGLE OR DOUBLE STOREY HOUSE

Typical set-up for in-ground and above-ground tanks.

SINGLE STOREY HOME



DOUBLE STOREY HOME



• STEP 2

– SELECT POSITION OF TANK

Position A
(next to home)

Position B
(away from the home)



Position A
(next to home)

Position B
(away from the home)

• STEP 3

– SELECT NUMBER OF APPLICATIONS YOU WISH TO RUN

Pump model best suited		Applications	Pump model best suited	
SMHW350	OTBW450 ^(sub.) JSW110			JSW110
SMHW350	OTBW450 ^(sub.) JSW110		JSW110	DW7535 ^(sub.) JSW110
SMHW450	OTBW450 ^(sub.) SMHW450		SMHW450	DW7535 ^(sub.) SMHW450
SMHW450	DW7535 ^(sub.) SMHW550		SMHW450	DW7535 ^(sub.) SMHW550
SMHW450	DW7535 ^(sub.) SMHW550		SMHW450	DW7556 ^(sub.) SMHW550
SMHW550	DW7556 ^(sub.) SMHW550		SMHW550	DW7556 ^(sub.) SMHW550
SMHW750	DW11557D ^(sub.) SMHW750	Larger Applications	SMHW750	DW11557D ^(sub.) SMHW900

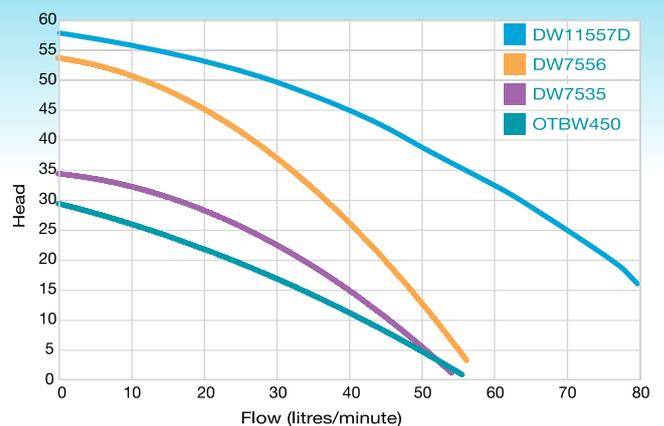
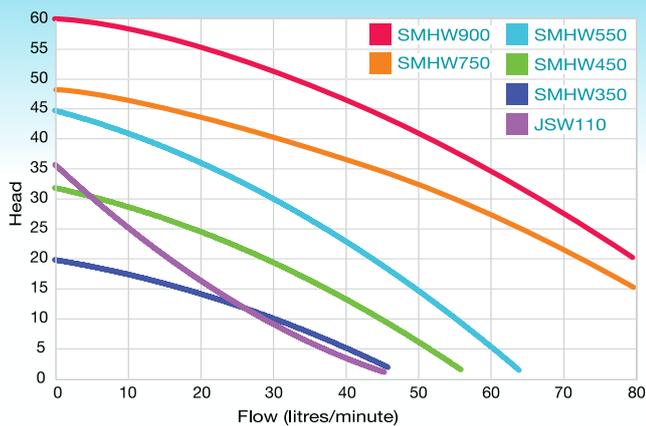
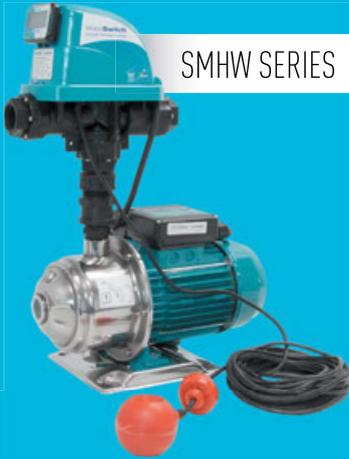


– For long pipework lengths, upsize to next model.
(sub.): Denotes submersible pumps, also suitable for below ground tanks.

PERFORMANCE

HOMEMASTER WATERSWITCH

AUTOMATIC RAINWATER CONTROLLER / PUMP DOMESTIC KITS



HOMEMASTER WATERSWITCH

AUTOMATIC RAINWATER CONTROLLER / PUMP COMMERCIAL KITS

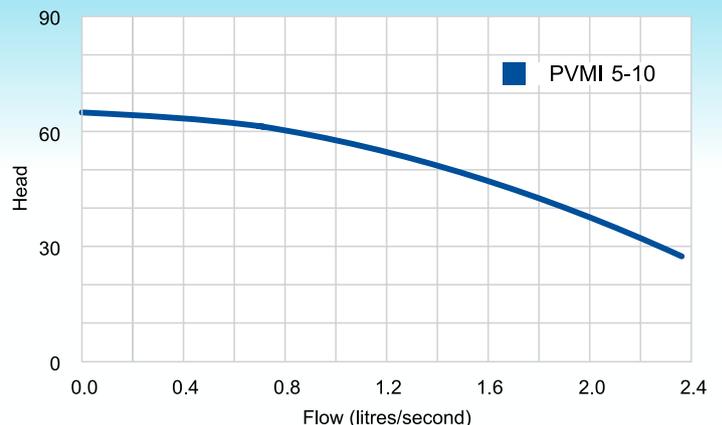
SBI

The Commercial Onga WaterSwitch systems incorporate the market leading WaterSwitch coupled with the reliable PVM15-10 pump, in single speed and variable speed versions, 24L and 80L pressure tanks, ensuring the systems are both economical to run and take advantage of using rain water harvesting to the fullest, for both non-potable building services facilities and irrigation where required.

The benefit of the variable speed (VSD) system means it will slow the pump speed down to allow for low flow rates and then ramp the pump up to cater for higher demands when required. On a commercial site these features along with soft start and soft stop eliminate large flow rates and pressures causing water hammer on pipework and systems. VSD control also reduces the running cost of the pump by reducing the power consumption of the pump when lower flows are being supplied.

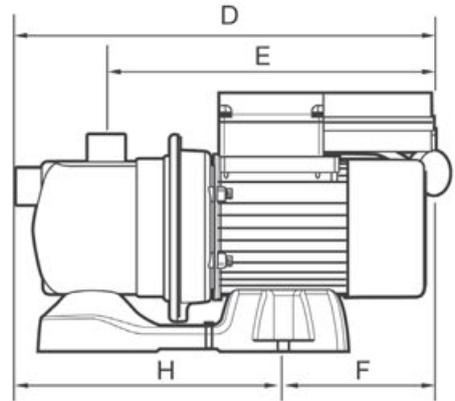
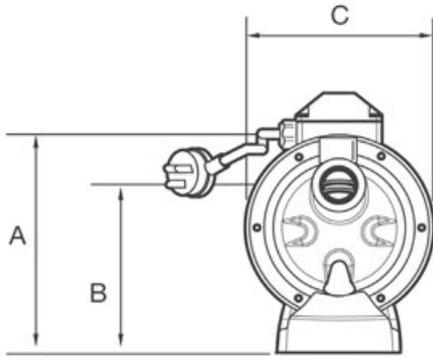
Features:

- Onga WaterSwitch (25mm inlet/outlet).
- PVM1 5-10 single speed or variable speed pumps (Single phase 1.5kW).
- WEG CFW08 Wash on motor Variable Frequency Drive (VSD unit only).
- APP80 80lt (Single speed system) or APP24 24lt (VSD system) pressure tanks.
- 32mm 316 SS manifold.
- 32mm Brass Y Strainer.
- 25mm 316SS Fittings from Y Strainer to R2M.
- WaterSwitch offset to allow for easy connection mains supply.
- WaterSwitch can be directed/rotated via the barrel union to allow for plumbing direction.
- 25mm 316SS discharge from WaterSwitch including lockable ball valve.
- Top entry float switch with 10m cable.



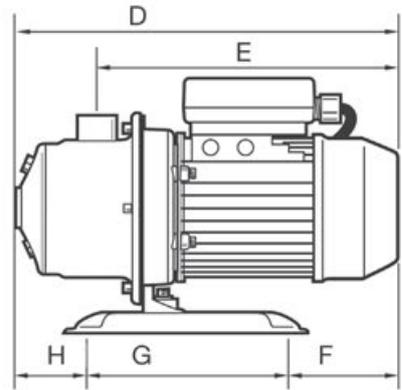
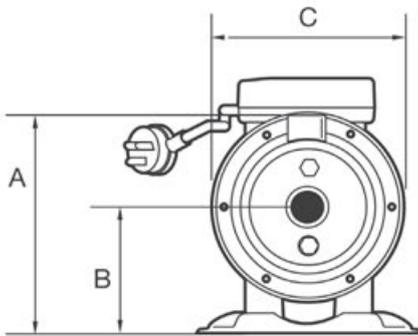
JM & JS

Jet assisted pumps

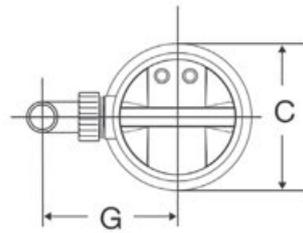
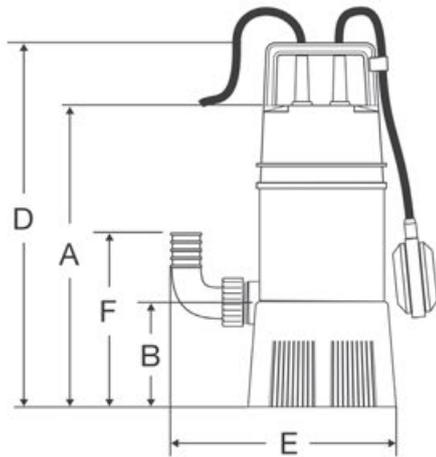


SMH

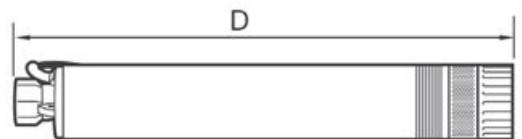
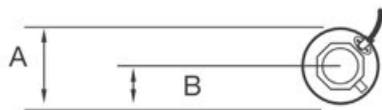
Multistage pumps



TANKBUDDY



DOMINATOR

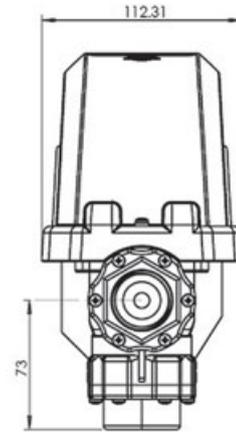
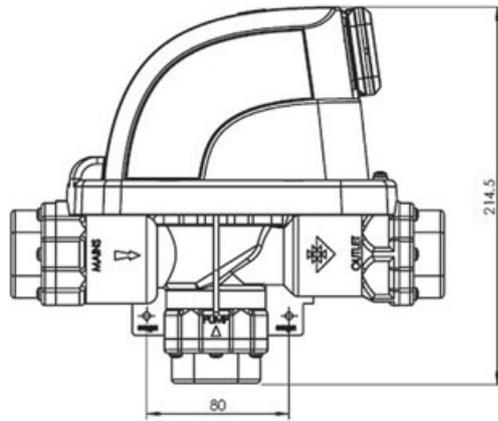


DIMENSIONS

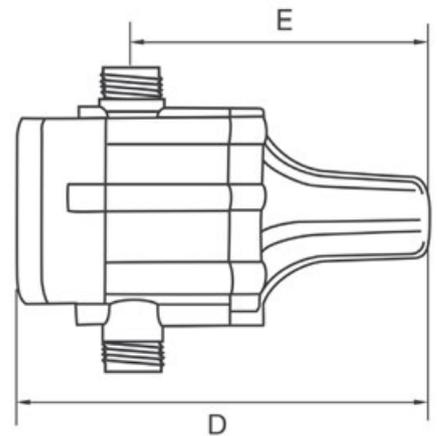
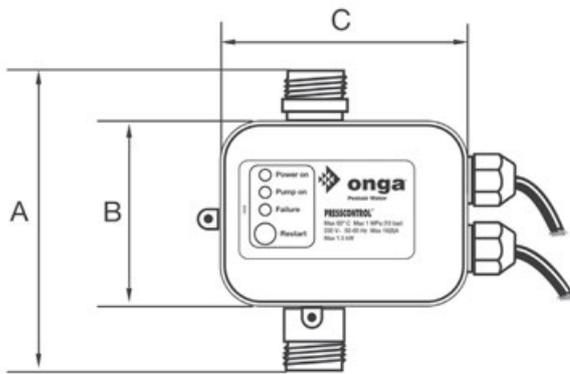
HOMEMASTER WATER PRESSURE PUMPS

WATERSWITCH

Automatic Rainwater controller



PRESSCONTROL MINIPRESS



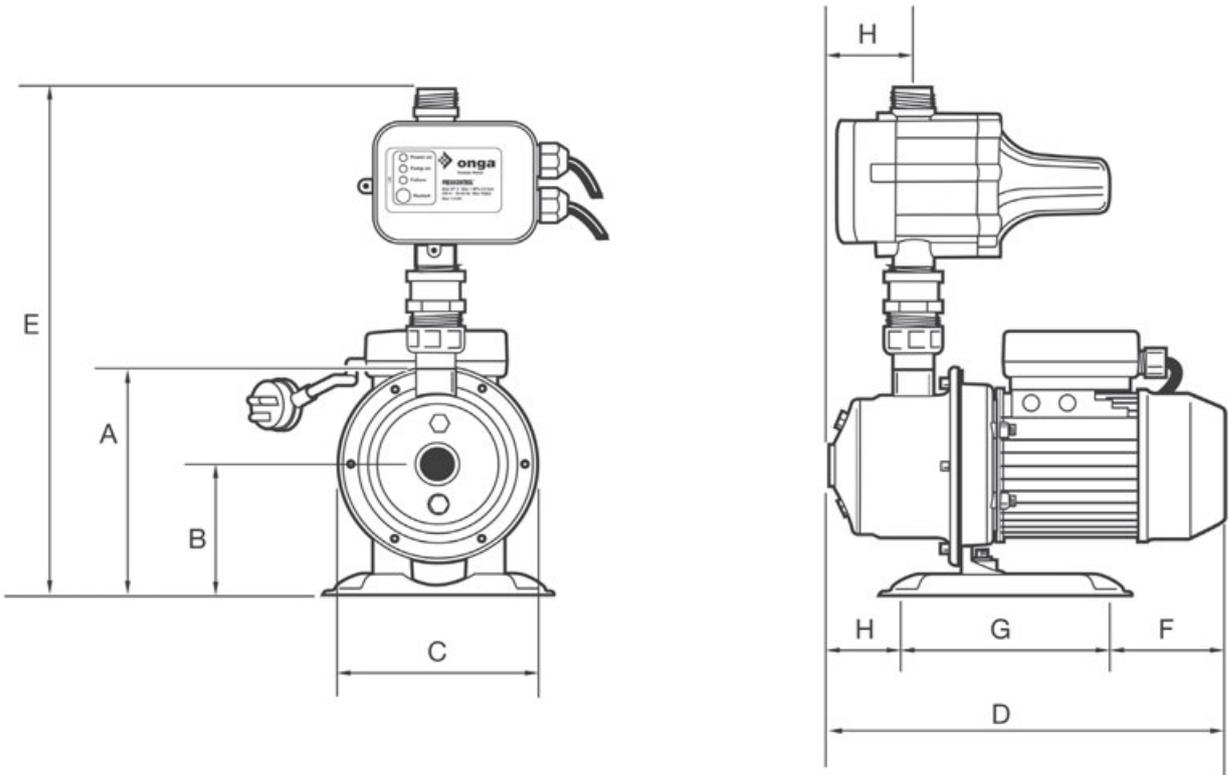
DIMENSIONS TABLE

Model	A	B	C	D	E	D-E	F	G	H	Suction (BSP)	Discharge (BSP)	Net Weight (kg)
JM100	215	160	178	395	312	83	135	N/A	260	1" M	1" M	6.7
JS100	215	160	178	395	312	83	135	N/A	260	1" F	1" F	7
JS110	215	160	178	395	312	83	135	N/A	260	1" F	1" F	7
JS120	245	190	208	415	320	95	140	N/A	275	1 1/4" M	1" F	9.4
SMH350	192	100	178	295	230	65	85	160	50	1" F	1" F	6.3
SMH450	192	100	178	320	230	90	85	160	75	1" F	1" F	7.5
SMH550	192	100	178	340	250	90	105	160	75	1" F	1" F	9.5
SMH750	192	100	178	340	250	90	105	160	75	1" F	1" F	9.5
D7535	98	49	N/A	560	N/A	N/A	N/A	N/A	N/A	N/A	1 1/4" F	8.1
D7556	98	49	N/A	643	N/A	N/A	N/A	N/A	N/A	N/A	1 1/4" F	9.6
OTB450A	282	86	148	327	222	N/A	157	133	N/A	N/A	1 1/4" M	6
WS1500200	240	127	80	347	160	N/A	N/A	N/A	1" F	1" F	1" F	3.3
MP1100	150	98	128	195	135	N/A	N/A	N/A	N/A	1 1/4" M	1 1/4" M	0.9
PC1100	165	95	130	225	165	N/A	N/A	N/A	N/A	1" M	1" M	1.4
PC1100X-2.2	165	95	130	225	165	N/A	N/A	N/A	N/A	1" M	1" M	1.4

HOMEMASTER

WATER PRESSURE PUMPS

PUMP & PRESSCONTROL



DIMENSIONS TABLE

Model	A	B	C	D	E	D-E	F	G	H	Suction (BSP)	Discharge (BSP)	Net Weight (kg)
JMM100	215	160	178	395	350	135	N/A	260	83	1" M	1" M	9.0
JSM100	215	160	178	395	350	135	N/A	260	83	1" F	1" M	4.7
JSP100	215	160	178	395	365	135	N/A	260	83	1" F	1" M	4.7
JSP110	215	160	178	395	365	135	N/A	260	83	1" F	1" M	5.4
JSP120	245	190	208	415	395	140	N/A	275	95	1 1/4" F	1" M	11
SMHP450	192	100	178	320	420	85	160	75	90	1" F	1" M	7.8
SMHP550	192	100	178	340	420	105	160	75	90	1" F	1" M	9.6
SMHP750	192	100	178	340	420	105	160	75	90	1" F	1" M	9.6

HOMEMASTER

WATER PRESSURE PUMPS

MATERIALS of CONSTRUCTION

COMPONENT	SURFACE PUMPS - MODEL			
	JM	JS	SMH	SSH
IMPELLER(S)	TECHNOPOLYMER	TECHNOPOLYMER	TECHNOPOLYMER	SS 304
DIFFUSER	NORYL	NORYL	TECHNOPOLYMER	SS 304
DIFFUSER INSERT	SS 304	SS 304	SS 304	N/A
JET/VENTURI	NORYL	NORYL	N/A	N/A
PUMP CASING	POLYPROPYLENE	SS 304	SS 304	SS 304
MOTOR CASE	ALUMINIUM CA313	ALUMINIUM CA313	ALUMINIUM CA313	ALUMINIUM CA313
ENDSHIELD	ALUMINIUM CA313	ALUMINIUM CA313	ALUMINIUM CA313	N/A
SUCTION FLANGE	N/A	N/A	N/A	CAST IRON GG20
MOTOR FLANGE	N/A	N/A	N/A	CAST IRON GG20
FAN COWL	POLYPROPYLENE	POLYPROPYLENE	POLYPROPYLENE	POLYPROPYLENE
MECHANICAL SEAL	CARBON/CERAMIC	CARBON/CERAMIC	CARBON/CERAMIC	CARBON/CERAMIC
MOTOR SHAFT	SS 416	SS 416	SS 416	SS 316
DISCHARGE	POLYPROPYLENE	SS 304	SS 304	CAST IRON GG20
TIE RODS	N/A	N/A	N/A	MILD STEEL ZINC PLATED
BASE	POLYPROPYLENE	POLYPROPYLENE	SS304	SS304
POWER CABLE	PVC	PVC	PVC	PVC
COMPONENT	SUBMERSIBLE PUMPS - MODEL			
	DOMINATOR	TANKBUDDY		
IMPELLER(S)	ACETAL	TECHNOPOLYMER		
DIFFUSER	POLYCARBONATE	TECHNOPOLYMER		
DIFFUSER INSERT	SS 304	SS 304		
PUMP CASING	SS 304	POWDER COATED ALLOY		
MOTOR CASE	SS 304	SS 304		
SUCTION FLANGE	NORYL	TECHNOPOLYMER		
MECHANICAL SEAL	CARBON/CERAMIC	N/A		
DISCHARGE	NORYL	POWDER COATED ALLOY		
DISCHARGE INSERT	SS 304	N/A		
OIL SEAL	N/A	NITRILE		
POWER CABLE	H07RN-F	H07RN-F		
FLOAT CABLE	N/A	H07RN-F		

NOISE LEVELS

MODEL		SHUT VALVE	OPEN VALVE
		dB(A)	dB(A)
JS100	REAR	66	68
	SIDE	68	71
JS110	REAR	66	70
	SIDE	69	74
JS120	REAR	68	74
	SIDE	71	77
SMH45	REAR	60	60
	SIDE	62	64
SMH55	REAR	61	61
	SIDE	64	65
SMH75	REAR	62	66
	SIDE	66	70
JM100	REAR	73	73
	SIDE	69	71

HOMEMASTER

WATER PRESSURE PUMPS

MODEL DATA	MODEL		ELECTRICAL DATA	MODEL	
	WATERSWITCH			WATERSWITCH	
MAINS WATER SUPPLY INLET	1" BSP F		RATED SUPPLY VOLTAGE	230-240V A.C.	
PUMP CONNECTION	1" BSP F		MAXIMUM ELECTRICAL LOAD	10A	
WATER OUTLET CONNECTION	1" BSP F		POWER CONSUMPTION (MAINS)	1W	
MAXIMUM PRESSURE	1000 kPa		POWER CONSUMPTION (TANK)	18W	
MAXIMUM ELECTRICAL LEAD	10A (240V A.C.)		V-Ø-HZ	230-1-50	
WATER TEMPERATURE RANGE	1°C to 40°C		LEVER SENSOR JACK TYPE	LOCKABLE 6.3MM DC PLUG	
MAXIMUM AMBIENT TEMPERATURE	1°C to 40°C				

ELECTRICAL / MOTOR DATA	MODEL	POWER (P1)		POWER (P2)		ELECTRIC SUPPLY			NOMINAL SPEED RPM	IP RATING	INSULATION CLASS	RATED FLA	STARTING PSC	CAPACITOR MF	CORD CONNECTION	PLUG TYPE	PROTECTION
		HP	KW	HP	KW	V	PH	HZ									
	JM100	0.6	0.45	0.4	0.3	230	1	50	2850	IP44	CLASS F	2.1	PSC	10	O-RING IEC	3 PIN AUS. PLUG	THERMAL
	JS100	0.6	0.45	0.4	0.3	230	1	50	2850	IP44	CLASS F	2.1	PSC	10	O-RING IEC	3 PIN AUS. PLUG	THERMAL
	JS110	0.75	0.55	0.6	0.45	230	1	50	2850	IP44	CLASS F	2.6	PSC	10	O-RING IEC	3 PIN AUS. PLUG	THERMAL
	JS120	1.5	1.1	1	0.75	230	1	50	2850	IP44	CLASS F	4.9	PSC	20	O-RING IEC	3 PIN AUS. PLUG	THERMAL
	SMH35	0.67	0.5	0.47	0.35	230	1	50	2850	IP44	CLASS F	2	PSC	8	O-RING IEC	3 PIN AUS. PLUG	THERMAL
	SMH45	0.8	0.6	0.6	0.45	230	1	50	2850	IP44	CLASS F	2.9	PSC	12.5	O-RING IEC	3 PIN AUS. PLUG	THERMAL/DROP
	SMH55	1.1	0.8	0.75	0.55	230	1	50	2850	IP44	CLASS F	4	PSC	16	O-RING IEC	3 PIN AUS. PLUG	THERMAL/DROP
	SMH75	1.5	1.1	1	0.75	230	1	50	2850	IP44	CLASS F	4.6	PSC	16	O-RING IEC	3 PIN AUS. PLUG	THERMAL/DROP
	D7535	0.8	0.6	0.5	0.35	230	1	50	2850	IP68	CLASS F	3	PSC	12.5	N/A	3 PIN AUS. PLUG	THERMAL
	D7556	1	0.75	0.8	0.6	230	1	50	2850	IP68	CLASS F	3.3	PSC	16	N/A	3 PIN AUS. PLUG	THERMAL
	D11557	1.5	1.1	1	0.8	230	1	50	2850	IP68	CLASS F	5	PSC	16	N/A	3 PIN AUS. PLUG	THERMAL
	OTB450A	1.1	0.82	0.87	0.65	230	1	50	2850	IP68	CLASS F	4	PSC	8	N/A	3 PIN AUS. PLUG	THERMAL
	OTB450W	1.1	0.82	0.87	0.65	230	1	50	2850	IP68	CLASS F	4	PSC	8	O-RING IEC	3 PIN AUS. PLUG	THERMAL

MODEL DATA - SURFACE PUMPS	MODEL	CARTON DIMENSIONS (MM)			PUMP WEIGHT (KG)	PACKAGED WEIGHT (KG)	SUCTION INLET	DISCHARGE OUTLET	MAX. OPERATING PRESSURE (kPa)	MIN. OPERATING PRESSURE (kPa)	MAX TEMP. OF PUMPED FLUID (°C)	AMBIENT TEMPERATURE (°C)	No OF STAGES
		L	W	H									
	JM100	670	230	300	7.9	10.5	1" BSPF	1" BSPF	600	140	40	1-50	1
	JS100	430	190	275	7	8	1" BSPF	1" BSPF	600	140	50	1-50	1
	JS110	430	190	275	7	8	1" BSPF	1" BSPF	600	140	50	1-50	1
	JS120	445	220	290	9.4	10.4	1 1/4" BSPM	1" BSPF	600	140	50	1-50	1
	SMH35	370	200	270	6.3	7.3	1" BSPF	1" BSPF	700	140	50	1-50	2
	SMH45	370	200	250	7.5	8	1" BSPF	1" BSPF	700	140	50	1-50	3
	SMH55	370	200	250	9.5	10	1" BSPF	1" BSPF	700	140	50	1-50	4
	SMH75	370	200	250	9.5	10	1" BSPF	1" BSPF	700	140	50	1-50	4

MODEL DATA - SUBMERSIBLE PUMPS	MODEL	CARTON DIMENSIONS (MM)			PUMP WEIGHT (KG)	PACKAGED WEIGHT (KG)	SUCTION INLET	MAX. OPERATING PRESSURE (kPa)	MIN. OPERATING PRESSURE (kPa)	MAX TEMP. OF PUMPED FLUID (°C)	ELECTRICAL CABLE LENGTH (M)	PUMP ON HEIGHT (MM)	PUMP OFF HEIGHT (MM)	MAXIMUM SUBMERGENCE (M)	MINIMUM PRIMING LEVEL (MM)	No OF STAGES
		L	W	H												
	D7535	620	240	125	8.1	9.1	1 1/4" BSPF	800	140	40	20	N/A	N/A	20	120	5
	D7556	720	240	125	9.6	10.7	1 1/4" BSPF	800	140	40	20	N/A	N/A	20	120	8
	D11557	720	240	125	9.9	11	1 1/4" BSPF	800	140	40	20	N/A	N/A	20	120	8
	OTB450A	280	245	415	6	8	1 1/4" BSPM	360	N/A	40	10	400	150	7	80	3
	OTB450W	280	245	415	6	8	1 1/4" BSPM	360	N/A	40	10	N/A	N/A	7	80	3

INSTALLATION TIPS

HOMEMASTER WATER PRESSURE PUMPS

FLOAT SWITCH

Part No. 707170

Should the installer be unfamiliar with the correct installation or operation of this type of equipment you should contact the distributor/manufacturer for the correct advice before proceeding with the installation or operation of this product.

Onga highly recommend the use of this float switch with all WaterSwitch installations. In-ground tank installations not fitted with this float switch may void WaterSwitch warranty.

INSTALLATION

1. Determine a suitable position in the tank roof within reach of the man-hole, to drill a 16mm hole for switch cable penetration. (Note: Hole saw available from Onga dealer).
2. Install the supplied cable gland, with the Locknut positioned inside the tank.

3. Surface Tank Installations

Drape the level sensor up against the side of the tank, lifting the cable until the float is 70mm above the suction. At this point mark the position of the cable that is level with the roof of the tank using the marking tape (supplied).

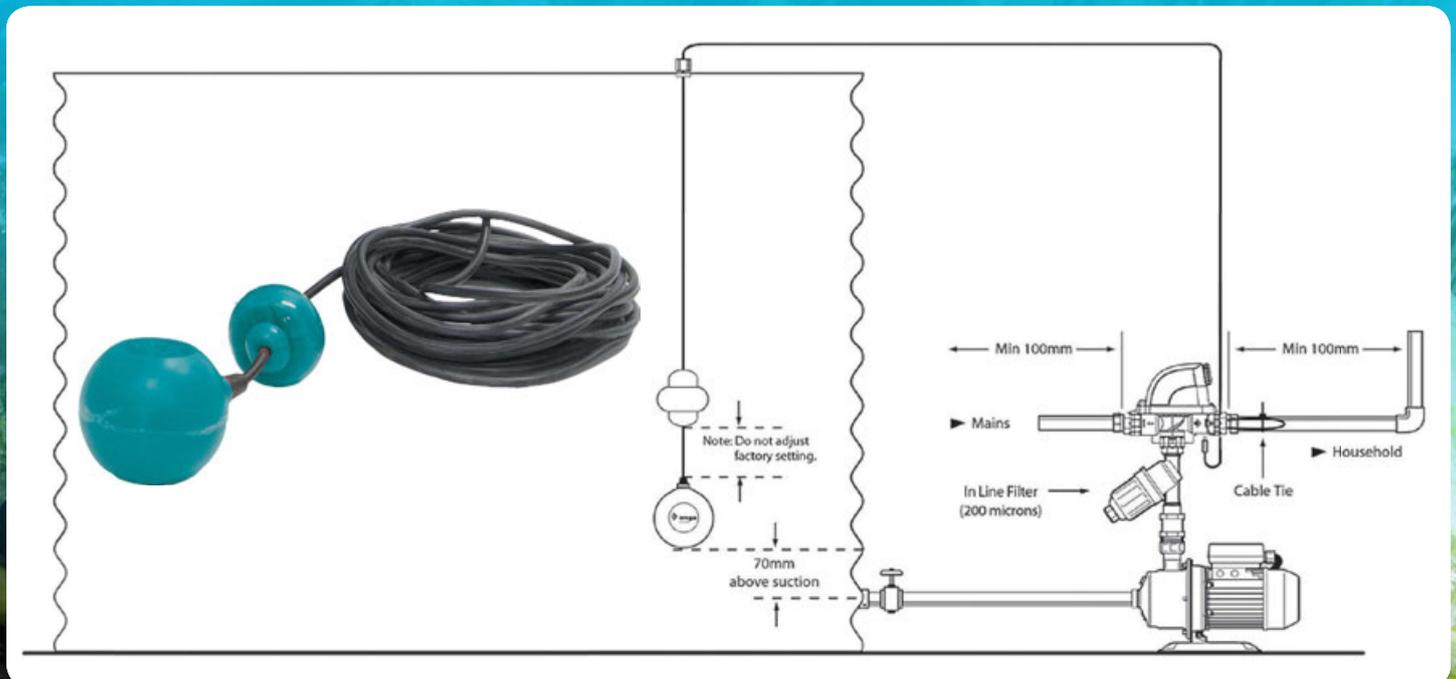
In-Ground installations

Lower the float into the tank. Position the float 70mm above the suction fitting or pump inlet. Use the marking tape (supplied) on the cable to indicate top of tank position.

4. Feed the D.C Connector plug, on the end of the float switch cable, through the cable gland from the inside of the tank.
5. Pull the cable through the gland until the tape marker appears and is level with the top of the tank.
6. Tighten the gland's external 'dome nut' to fix the cable position.
7. Once in position, route the cable to the Onga WaterSwitch and plug the connector to the matching receptor on the underside of the panel.
8. Using the cable ties, fix the cable to the pipework near the Onga WaterSwitch to avoid the cable accidentally being pulled free.

To suit installations where the Onga WaterSwitch is located away from the tank, use:

- **Extension Lead Float Switch (10m)** - Part No. 707171



HOMEMASTER

WATER PRESSURE PUMPS

ALL MODELS	SYMPTOM	CAUSE	REMEDY
	THE MOTOR IS NOT RUNNING, AND THE PUMP DOES NOT PUMP WATER.	No power to the motor	
The motor protection has tripped			Wait for the pump to cool down. Check the circuit breaker and reset if necessary.
Pump humming and won't start			Contact service agent (capacitor issue).
The pump is clogged			Disconnect the pump from the power source. Unblock the pump. Remove cause of blockage.
The DROP system has tripped			Fill the pump with cool water. Find and fix the cause of the trip.
THE MOTOR RUNS BUT NO WATER IS PUMPED	The pump is entraining air		1. Make sure that joints are air tight. 2. Check that the water level has not fallen below the suction inlet.
	The suction strainer is blocked		Clean the suction strainer. Remove the source of blockage (e.g. trees dropping leaves or sap over roof).
	Check valve is blocked or shut		Clean or replace the valve.
THE PUMP STOPS AFTER A SHORT RUN TIME - THERMAL OVERLOAD TRIP	The power supply is not correct for the motor		Check the power supply, and rectify.
	The impellers are blocked with foreign material		Disconnect the pump from the power source. Unblock the pump. Remove cause of blockage.
	The fluid being pumped is too dense or too viscous		Change pump type depending on the application.
PUMP PERFORMANCE IS LOWER THAN EXPECTED	High suction friction loss		Install new suction line as short and straight as possible. Ensure suction line pipe diameter is at least as large as inlet diameter.
	High discharge friction loss		Check discharge piping, minimise fittings and bends, while maximising pipe diameter.
	Pump incorrectly selected, or installation has changed since original design		Check all application data as installed, and reselect pump.
	Pump performance not recalculated for suction lift		Calculate pump performance with actual suction lift.

Before carrying out any kind of maintenance or work in the water or out of the water, disconnect the pump from the mains. If the connection plug or power outlet are wet, isolate that circuit at the meter board.

The pump must be protected by an earth leakage circuit breaker with a breaking current of 30milliamps (I Δ n<30mA)

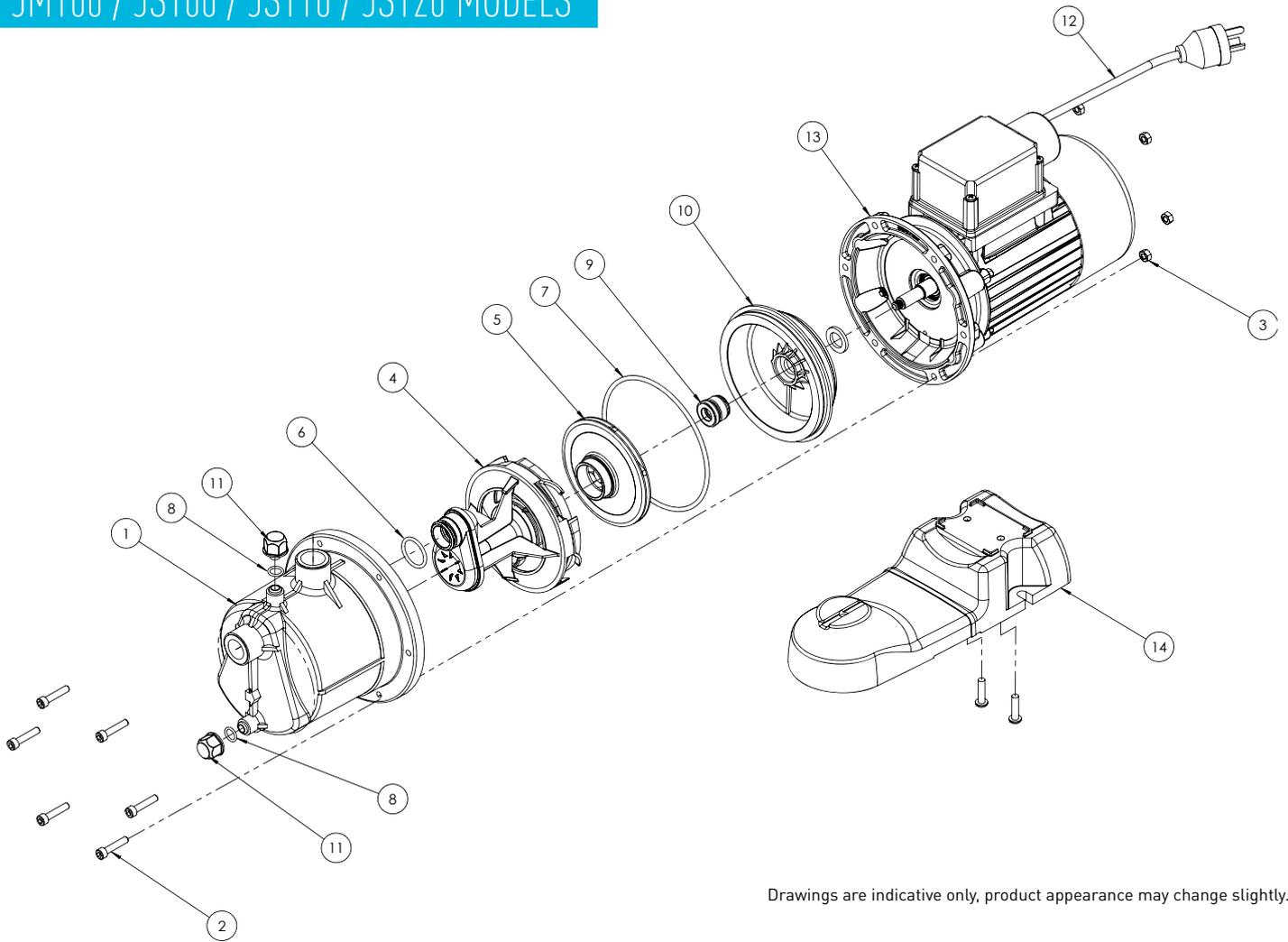
- Isolate pump electrically before performing and maintenance.
- Ensure power supply is locked out while you are working on that circuit.
- Check power is disconnected using a meter
- Check capacitors for stored charge
- Release system pressure before disconnecting fittings
- Use appropriate lifting equipment when moving these pumps.

HOMEMASTER

WATER PRESSURE PUMPS

WATERSWITCH	SYMPTOM	CAUSE	REMEDY
	NO WATER IS BEING DELIVERED FROM PUMP		Water tank is empty
		No power at outlet	Check power supply, circuit breakers and plug.
		Bad signal from level sensor	Check installation and operation of the level sensor
		Pump has overheated	Allow pump to cool.
		Pump is worn by abrasive or chemically aggressive materials	Have pump serviced by professional. Check rain water system for source of materials.
NO WATER IS BEING DELIVERED FROM PUMP: [WATERSWITCH HAS GONE INTO 'LOST PRIME' MODE (MAINS LED ON, TANK LED FLASHING)]		Gate valve at tank outlet is closed, or other tap is closed	Open gate valve. Check other taps (e.g. Toilet water cistern tap) to make sure they fully open.
		Pump is not primed	See Pump owner's manual for details on priming pump. Prime the pump before connecting WaterSwitch.
		Filter cartridge is at end of life	Replace filter cartridge.
NO WATER SUPPLY AT ALL		Valves are closed	Open all valves.
		Blockage in system	Clean tank interior, unblock all pipes.
		Incoming mains water pressure is greater than 500kPa	Fit a pressure reduction valve to reduce incoming mains pressure.
POOR WATER PRESSURE		Filter cartridge at end of life	Replace filter cartridge.
		Too much flow through WaterSwitch	Have a pump professional look at flow rate.
		Pump is too small for application	Have a pump professional recommend a larger pump.
PUMP CONTINUALLY RUNS		Mains water leaking through dual check valve	Install suitable strainer to mains water inlet or clean/replace dual check valve.
		Internal flow switch stuck open	Fit in-line strainer (200 microns) between pump and waterswitch and/or install pressure reducing valve (500 kPa) at mains water inlet to waterswitch.

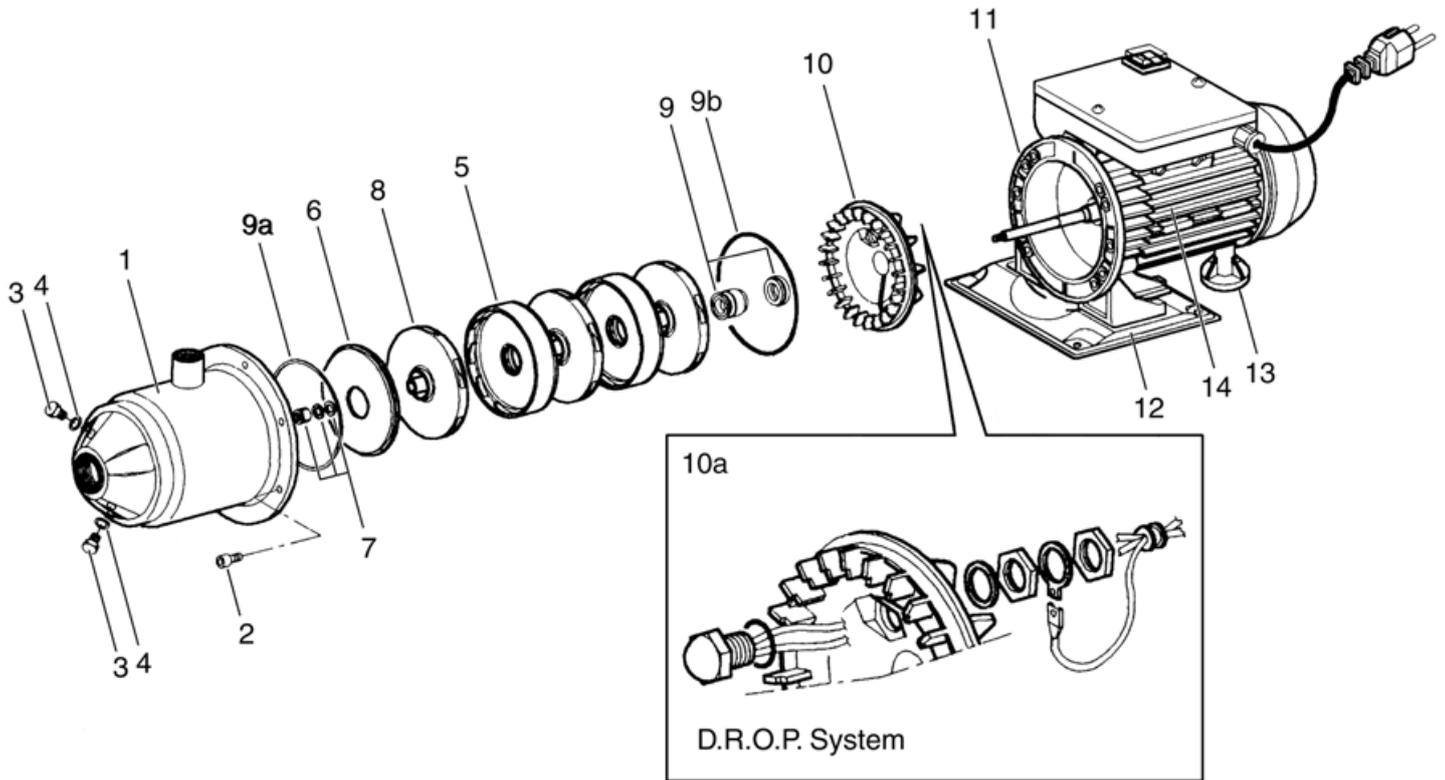
JM100 / JS100 / JS110 / JS120 MODELS



Drawings are indicative only, product appearance may change slightly.

JM100 JM1000			JS100 JS1000			JS110 JS1100			JS120 JM1200		
REF NO.	COMPONENT DESCRIPTION	PART NO.	REF NO.	COMPONENT DESCRIPTION	PART NO.	REF NO.	COMPONENT DESCRIPTION	PART NO.	REF NO.	COMPONENT DESCRIPTION	PART NO.
1	CASING	101P2740	1PC	1	CASING	723S0710-C	1PC	723S0010-C	1PC		
2	SCREWS (CASING)	800906K	8PC	2	SCREWS (CASING)	800907K	8PC	800907K	8PC		
3			8PC	3			8PC				
4	DIFFUSER	101P3430	1PC	4	DIFFUSER & VENTURI	101P3430	1PC	101P2910	1PC		
5	IMPELLER	731S2220	1PC	5	IMPELLER	731S2230	1PC	509310K	1PC		
6	MECHANICAL SEAL KIT	800877K	1PC	6	MECHANICAL SEAL KIT	800878K	1PC	800879K	1PC		
7			1PC	7			1PC				
8			1PC	8			1PC				
9			1PC	9			1PC				
10	BAFFLE	101P1290	1PC	10	BAFFLE	101P1290	1PC	784S0070	1PC		
11	FILL & DRAIN KIT	102P1030	2PC	11	FILL/DRAIN PLUG	121P0690	2PC	121P0690	2PC		
12	LEAD AND PLUG	608160	1PC	12	LEAD & IEC PLUG (10AMP)	608160	1PC	608160	1PC		
13	MOTOR	800647	1PC	13	MOTOR	800647	1PC	800648	1PC		
14	BASE	304590	1PC	14	BASE (MOULDED)	304590	1PC	304600	1PC		

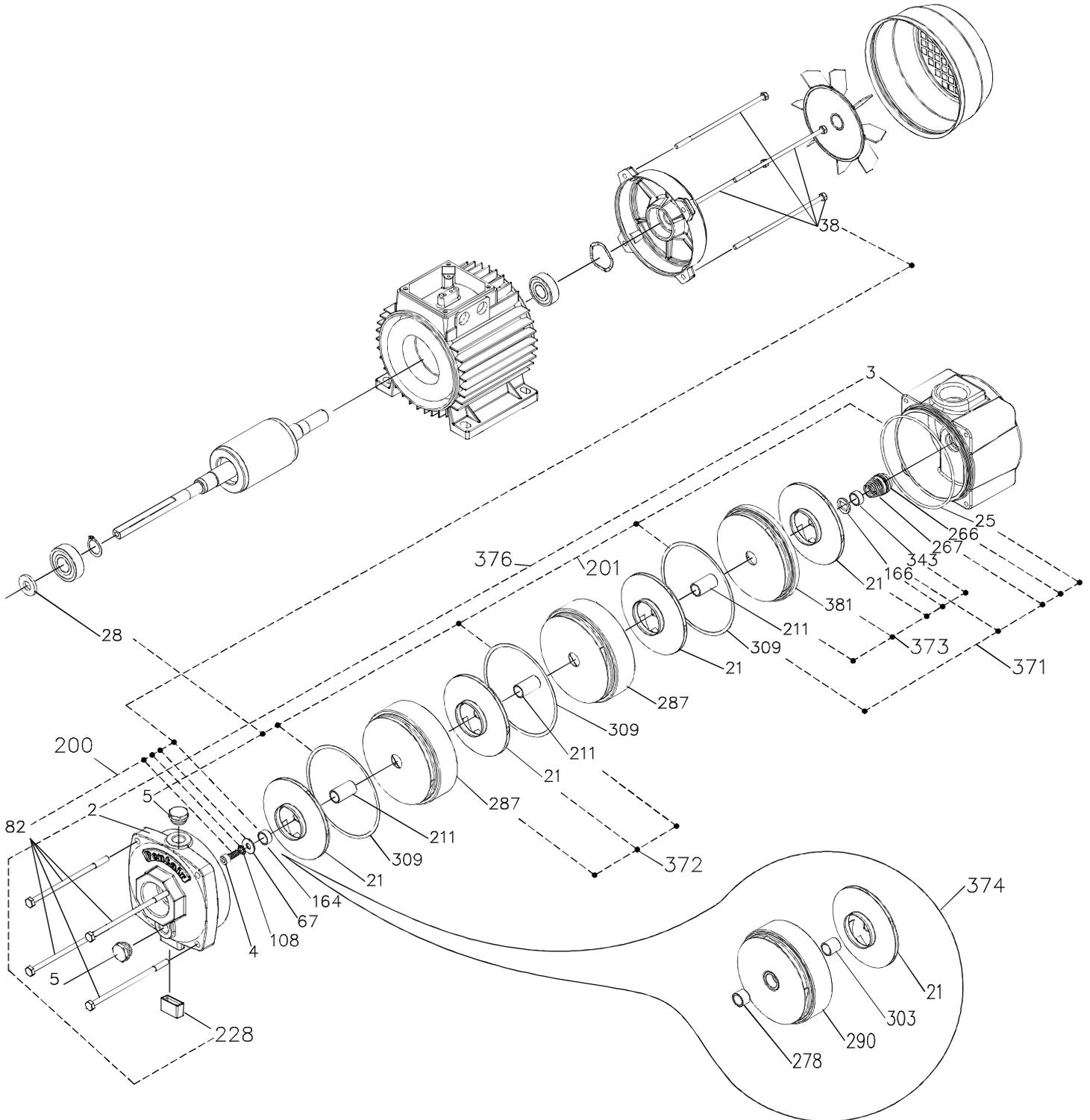
SMH RANGE MODELS



Drawings are indicative only, product appearance may change slightly.

REF NO.	COMPONENT DESCRIPTION	SMH35 SMH350		SMH45 SMH450		SMH55 SMH550		SMH75 SMH750		SMH900 SMH900	
		PART NO.		PART NO.		PART NO.		PART NO.		PART NO.	
1	PUMP CASING	723S0530	1PC	723S3200	1PC	723S3200	1PC	723S3200	1PC	723S3190	1PC
2	SCREWS (PK 8)	800907K	1PC	800907K	1PC	800907K	1PC	800907K	1PC	800907K	1PC
3	DRAIN PLUG	121P6090	2PC	121P6090	1PC	121P6090	1PC	121P6090	1PC	121P6090	1PC
4	DRAIN WASHER	121P0090	2PC								
5	DIFFUSER	101P4810	NO. STAGES	101P4810	NO. STAGES						
6	DIFFUSER KIT	801385K	1PC	801385K	1PC	801386K	1PC	801386K	1PC	801386K	1PC
7	LOCKNUT & WASHER KIT	800902K	1PC	800902K	1PC	800902K	1PC	800902K	1PC	800902K	1PC
8	IMPELLER	101P2040	NO. STAGES	101P2040	NO. STAGES	101P2040	NO. STAGES	101P2050	NO. STAGES	101P2050	NO. STAGES
9	SEAL KIT	800880K	1PC	800880K	1PC	800880K	1PC	800880K	1PC	800880K	1PC
10	BAFFLE ONLY	101P2980	1PC	-	1PC	-	1PC	-	1PC	-	1PC
10a	BAFFLE WITH DROP SYSTEM	-	1PC	751S2270	1PC	751S2270	1PC	751S2270	1PC	751S2270	1PC
11	BASE	ZB401770	1PC	ZB401770	1PC	ZB401770	1PC	ZB401770	1PC	ZB401770	1PC
12	LEAD & IEC PLUG (NS)	608160	1PC	608160	1PC	608160	1PC	608160	1PC	608160	1PC
13	MOTOR - COMPLETE 0.35kW 1PH	791S1330	1PC	-	1PC	-	1PC	-	1PC	-	1PC
	MOTOR - COMPLETE 0.45kW 1PH		1PC	ZBR04910	1PC	-	1PC	-	1PC	-	1PC
	MOTOR - COMPLETE 0.55kW 1PH		1PC	-	1PC	ZBR04920	1PC	-	1PC	-	1PC
	MOTOR - COMPLETE 0.75kW 1PH		1PC	-	1PC	-	1PC	ZBR04930	1PC	-	1PC
	MOTOR - COMPLETE 0.90kW 1PH		1PC	-	1PC	-	1PC	-	1PC	ZBR04940	1PC

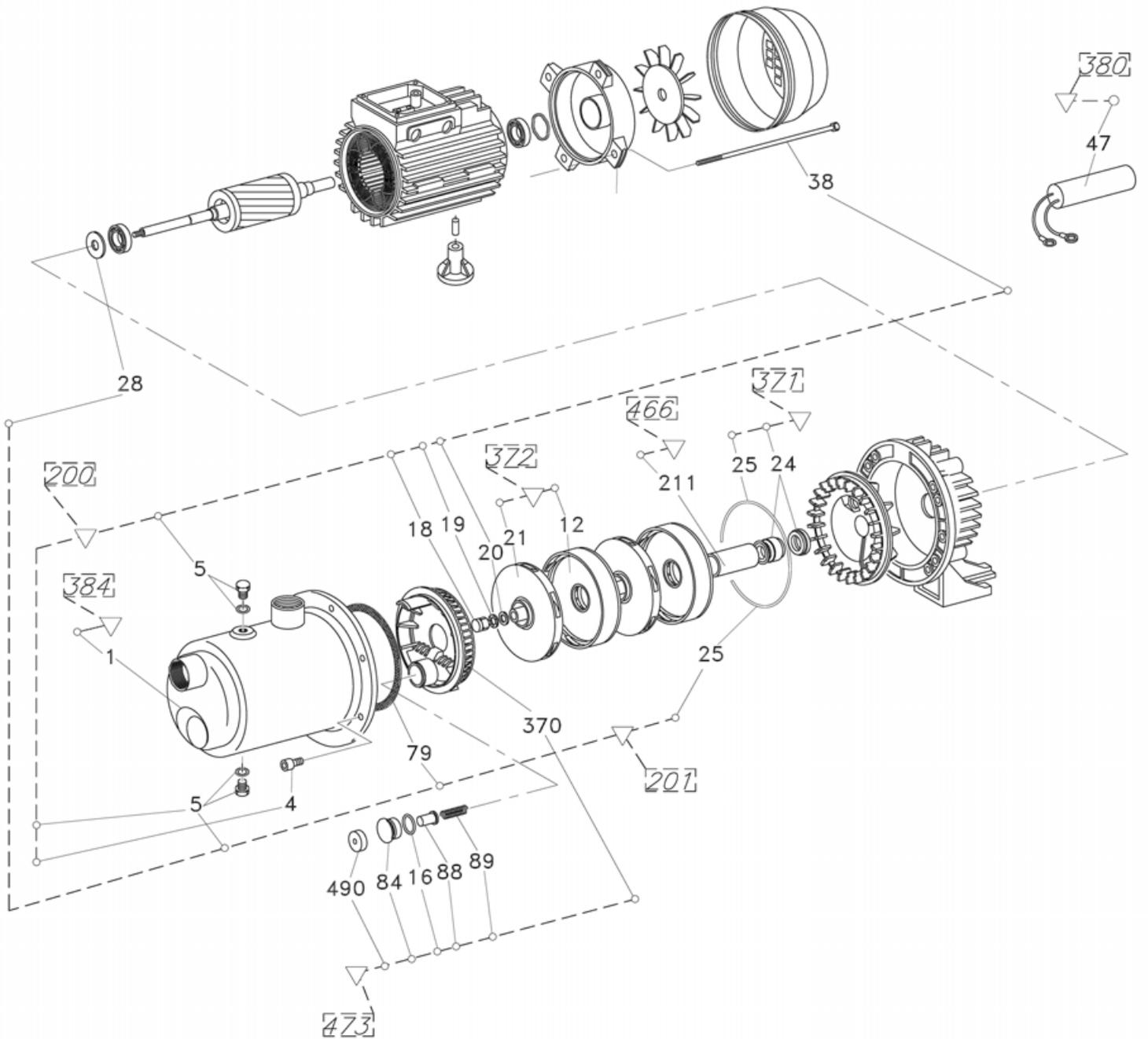
SSH RANGE MODELS



SSH RANGE MODELS (CONT'D)

KIT NO.	KIT REFERENCE	REF NO.	COMPONENT DESCRIPTION	SSH500 SSH500		SSH750 E9402104NG		SSH1100 E9402106NG	
				PART NO.		PART NO.		PART NO.	
200	BOLTS & SCREW KITS	82	TIE RODS (PUMP BODY)	ZBR20410	4PC	ZBR20070	4PC	ZBR20080	4PC
		4	SCREW		1PC		1PC		1PC
		67	WASHER		1PC		1PC		1PC
		164	SPACER (UPPER)		1PC		1PC		1PC
		108	WASHER (TOOTHED)		1PC		1PC		1PC
		38	TIE RODS (MOTOR)		4PC		4PC		4PC
201	PLUG & GASKET KIT	28	SHIELD	ZBR20010	1PC	ZBR20010	1PC	ZBR20010	1PC
		25	O-RING (PUMP BODY)		1PC		1PC		1PC
		309	GASKET (CHAMBER)		5PC		5PC		5PC
		5	PLUG (DRAIN/FILL)		2PC		2PC		2PC
371	MECHANICAL SEAL KIT	25	O-RING (PUMP BODY)	ZBR20000	1PC	ZBR20000	1PC	ZBR20000	1PC
		266	SEAL (STATIONARY)		1PC		1PC		1PC
		267	SEAL (ROTATING)		1PC		1PC		1PC
		309	GASKET (CHAMBER)		5PC		5PC		5PC
		166	WASHER (SEAL COMPRESSION)		1PC		1PC		1PC
372	HYDRAULIC KIT	287	DIFFUSER (INTERMEDIATE CHAMBER)	ZBR20420	1PC	ZBR20020	1PC	ZBR20020	1PC
		21	IMPELLER		1PC		1PC		1PC
		211	SPACER (IMPELLER)		1PC		1PC		1PC
373	HYDRAULIC KIT (LAST STAGE)	381	DIFFUSER (FLAT CHAMBER)	ZBR20430	1PC	ZBR20030	1PC	ZBR20030	1PC
		21	IMPELLER		1PC		1PC		1PC
		211	SPACER (IMPELLER)		1PC		1PC		1PC
		166	WASHER (SEAL COMPRESSION)		1PC		1PC		1PC
		343	WASHER (FLAT)		1PC		N/A		N/A
374	HYDRAULIC KIT (WITH BEARING)	290	DIFFUSER (BEARING RING)	-	-	-	-	ZBR20040	1PC
		278	RING (BEARING)	-	-	-	-	ZBR20040	1PC
		21	IMPELLER	-	-	-	-	ZBR20040	1PC
		301	SPACER H	-	-	-	-	ZBR20040	1PC
376	PUMP CASING	3	DISCHARGE CHAMBER	ZBR20210	1PC	ZBR20220	1PC	ZBR20230	1PC
		2	SUCTION CHAMBER		1PC		1PC		1PC
		228	GASKET (ANTI-VIBRATION)		N/A		N/A		1PC

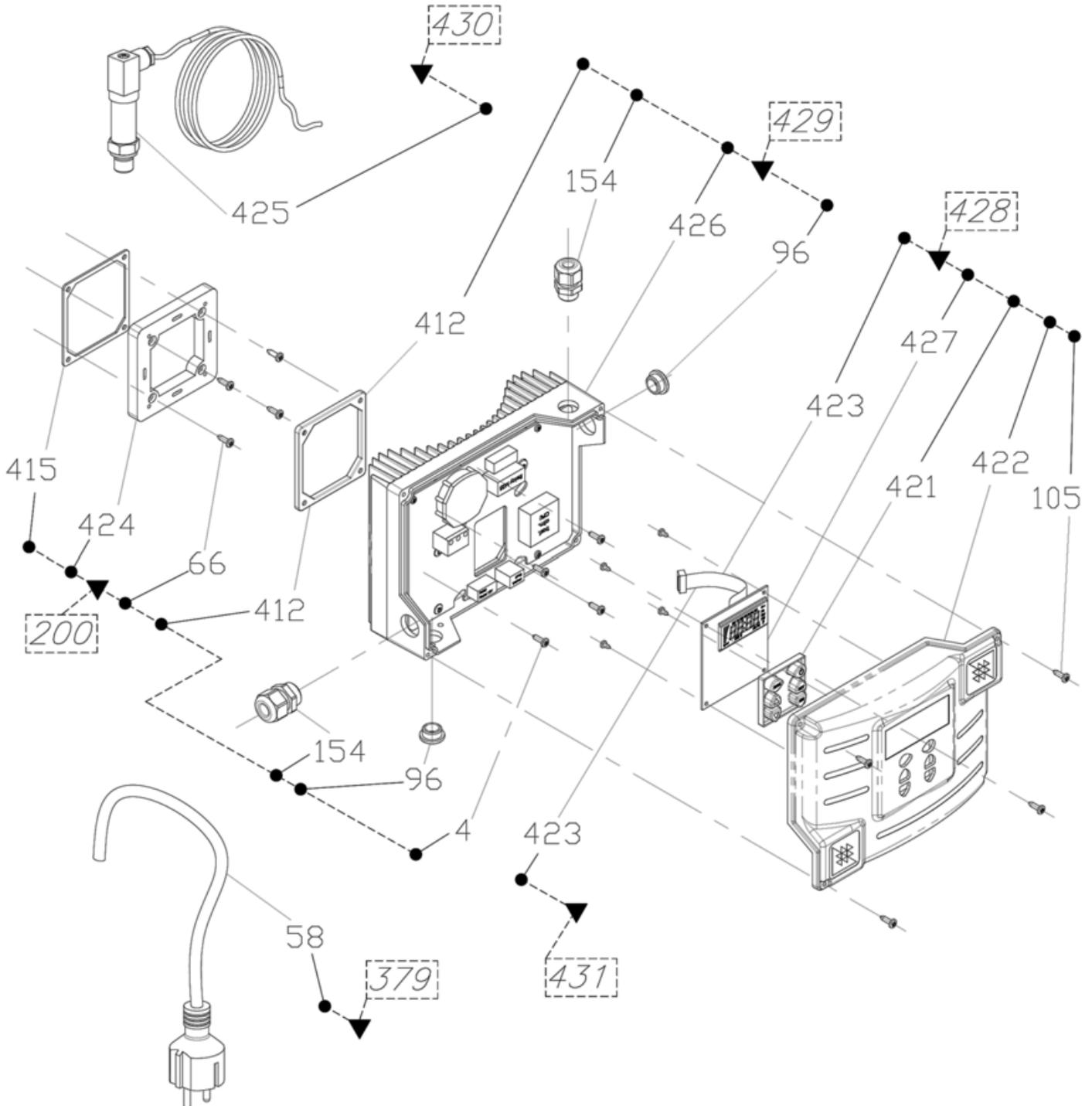
ENVIROMASTER



ENVIROMASTER (CONT`D)

				ENVIROMASTER P4700000	
KIT NO.	KIT REFERENCE	REF NO.	COMPONENT DESCRIPTION	PART NO.	
200	BOLTS & SCREW KIT (PUMP)	4	SCREW	ZBR36290	6PC
		5	PLUG (FILL)		2PC
		18	NUT (SELF-LOCKING)		1PC
		19	WASHER (IMPELLER TOOTHED)		1PC
		20	WASHER (IMPELLER)		1PC
		38	THE ROD KIT (MOTOR)		4PC
201	GASKET KIT	5	PLUG (FILL)	ZBR26825	2PC
		25	O-RING (PUMP BODY)		1PC
		79	GASKET (PUMP BODY)		1PC
371	MECHANICAL SEAL KIT	24	SEAL (COMPLETE MECHANICAL)	ZBR25620	1PC
		25	O-RING (PUMP BODY)		1PC
372	HYDRAULIC KIT	12	DIFFUSER (WELDED)	ZBR24180	1PC
		21	IMPELLER		1PC
384	PUMP BODY KIT	1	PUMP BODY	ZBR28130	1PC
466	SPACER KIT	211	SPACER (IMPELLER)	ZBR28150	1PC
473	SELF PRIMING SUCTION FLANGE KIT	16	O-RING (NOZZLE)	ZBR28140	1PC
		84	PLUG (FRONT)		1PC
		88	SHUTTER		1PC
		89	SPRING (SHUTTER)		1PC
		370	SELF PRIMING SUCTION FLANGE		1PC
		490	RUBBER SPACER		1PC

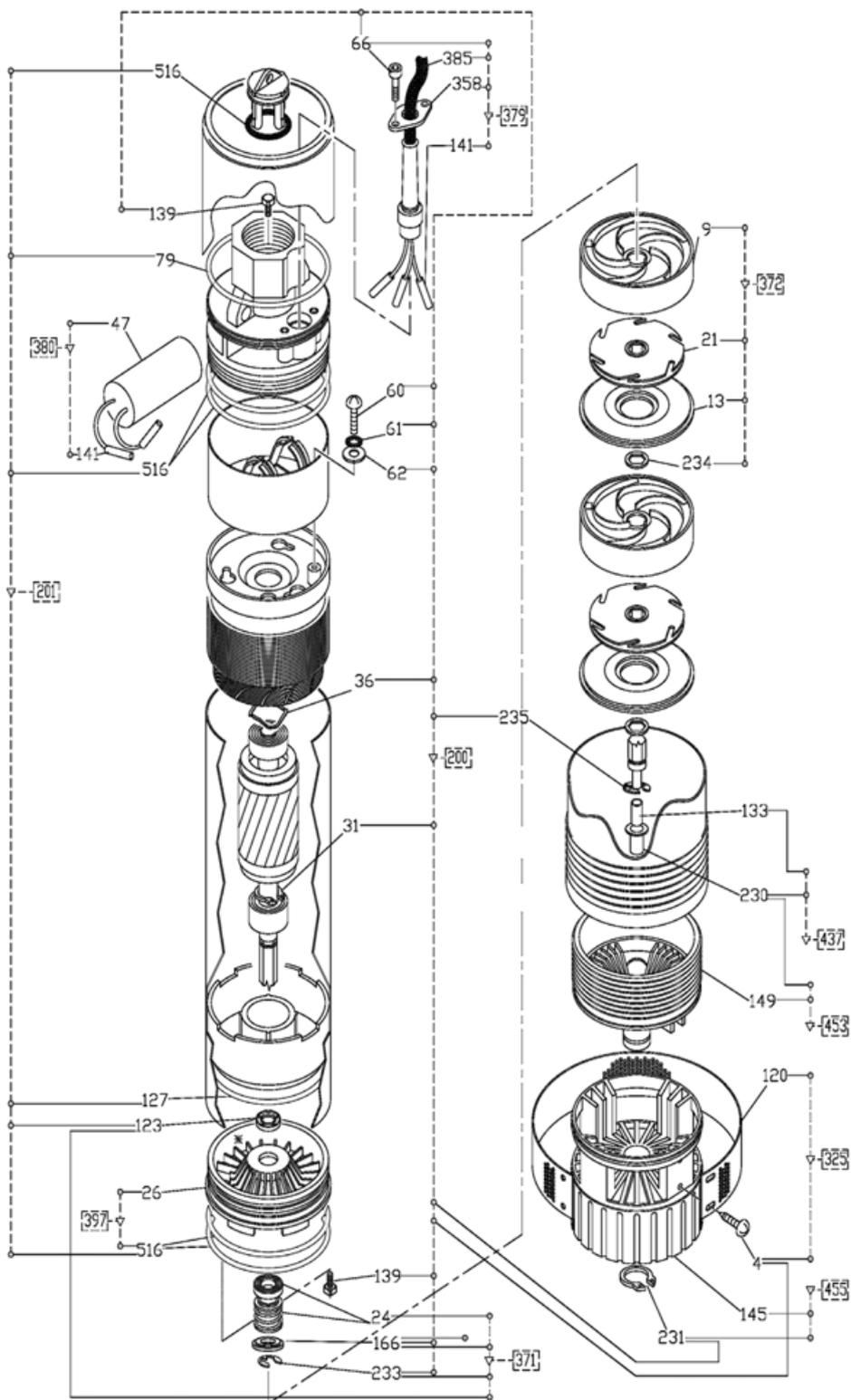
ENVIROMASTER DRIVE CONTROL MODULE



ENVIROMASTER DRIVE CONTROL MODULE (CONT`D)

				ENVIROMASTER P4700000	
KIT NO.	KIT REFERENCE	REF NO.	COMPONENT DESCRIPTION	PART NO.	
200	FLANGE, GASKET & O-RING KIT	96	PLUG	ZBR22360	2PC
		154	CORDING CLAMP		2PC
		412	GASKET		1PC
		415	O-RING		1PC
		424	UNIVERSAL FLANGE		1PC
428	KIT DISPLAY	105	SCREW	ZBR22320	4PC
		421	KEYBOARD		1PC
		422	COVER		1PC
		423	FLAT CABLE		1PC
		427	LCD CARD		1PC
429	KIT POWER	96	PLUG	ZBR22400	2PC
		154	CORDING CLAMP		2PC
		412	GASKET		1PC
		426	INVERTER		1PC
430	KIT SENSOR	425	SENSOR	ZBR22350	1PC
431	KIT CAVO FLAT	423	FLAT CABLE	ZBR22380	1PC

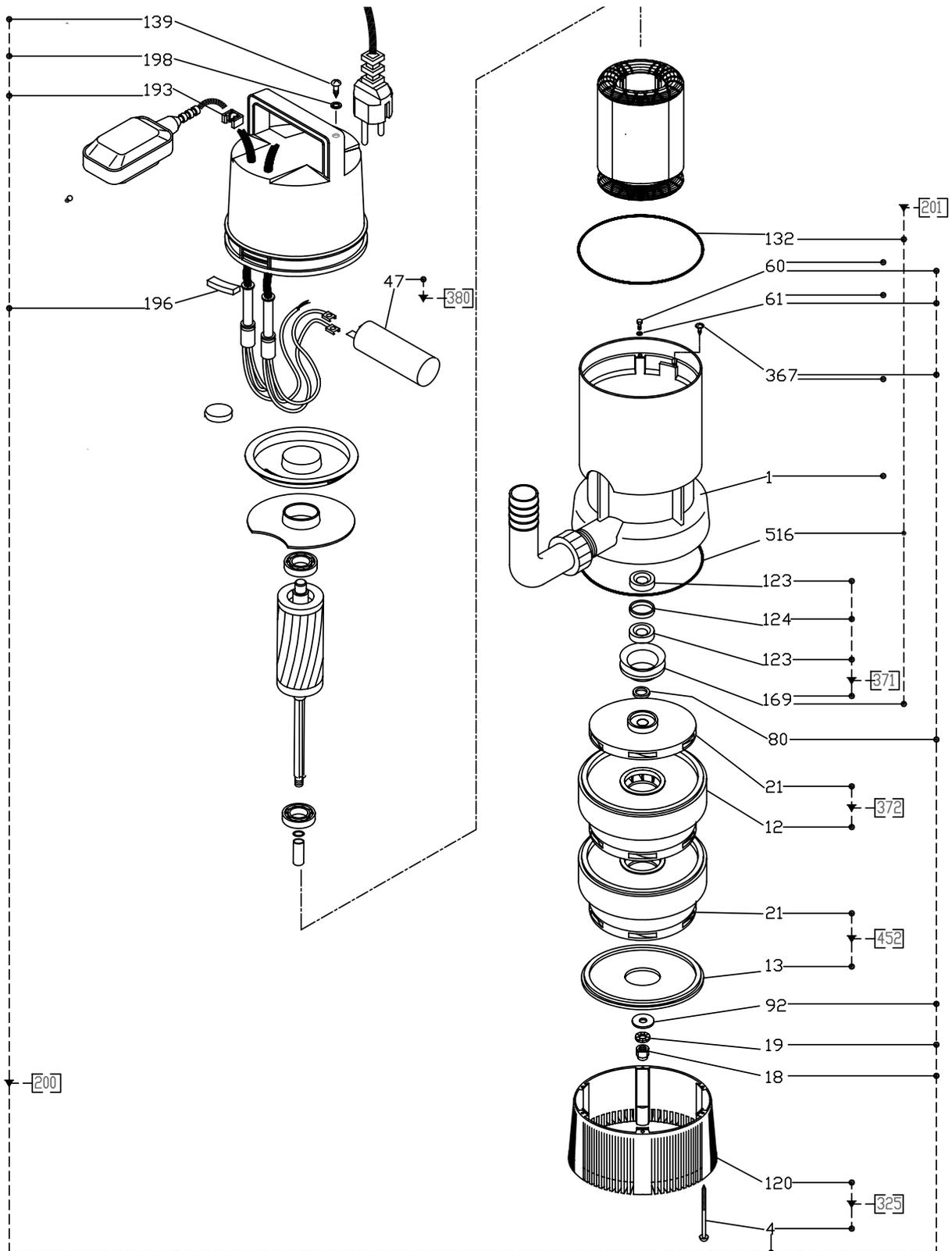
DOMINATOR MODELS



DOMINATOR MODELS (CONT'D)

KIT NO.	KIT REFERENCE	REF NO.	COMPONENT DESCRIPTION	75/35 5 STAGE D7535		75/56 8 STAGE D7556		115/57 8 STAGE D11557	
				PART NO.	QTY	PART NO.	QTY	PART NO.	QTY
200	BOLTS & SCREW KITS	233	SNAP RING (SEAL)	ZBR32910	1PC	ZBR32910	1PC	ZBR32910	1PC
		166	WASHER SEAL COMPRESSION		1PC		1PC		1PC
		139	O-RING COVER		2PC		2PC		2PC
		61	WASHER TOOTHED (MOTOR)		1PC		1PC		1PC
		60	SCREW (MOTOR)		1PC		1PC		1PC
		66	SCREW (CABLE)		2PC		2PC		2PC
		235	SNAP RING (START UP)		1PC		1PC		1PC
		4	SCREW (SUCTION)		2PC		2PC		2PC
		231	SNAP RING (SUCTION)		1PC		1PC		1PC
		62	WASHER WASHER PLAIN (MOTOR)		1PC		1PC		1PC
		31	SNAP RING (MOTOR)		1PC		1PC		1PC
		36	RING ELASTIC (MOTOR)		1PC		1PC		1PC
201	GASKET KIT	259	O-RING	ZBR32920	1PC	ZBR32920	1PC	ZBR32920	1PC
		79	GASKET (MOTOR BODY)		1PC		1PC		1PC
		516	O-RING (MOTOR)		4PC		4PC		4PC
		127	O-RING (LOWER BEARING - MOTOR)		1PC		1PC		1PC
		123	RING SEAL		1PC		1PC		1PC
325	FILTER (COMPLETE)	120	FILTER	ZBR33100	1PC	ZBR33100	1PC	ZBR33100	1PC
		4	SCREW		2PC		2PC		2PC
371	MECHANICAL SEAL KIT	24	MECHANICAL SEAL	ZBR32960	1PC	ZBR32960	1PC	ZBR32960	1PC
		123	RING SEAL		1PC		1PC		1PC
		166	WASHER SEAL COMPRESSION		1PC		1PC		1PC
		233	SNAP RING (SEAL)		1PC		1PC		1PC
372	HYDRAULIC KIT	9	DIFFUSER	ZBR28890	1PC	ZBR28890	1PC	ZBR28900	1PC
		21	IMPELLER		1PC		1PC		1PC
		13	CAP (DIFFUSER)		1PC		1PC		1PC
		234	THRUST PAD		1PC		1PC		1PC
	CABLE DOMINATOR	385	POWER CABLE	751S5860	1PC	751S5860	1PC	751S5860	1PC
380	CAPACITOR KIT	47	CAPACITOR	ZBR25550	1PC	ZBR25950	1PC	ZBR25950	1PC
		141	CONNECTOR 2.5 SQMM		1PC		1PC		1PC
437	RING GUIDE KIT	133	BUSHING (CERAMIC)	ZBR33110	1PC	ZBR33110	1PC	ZBR33110	1PC
		230	BEARING (BRONZE)		1PC		1PC		1PC
453	SUPPORT FLANGE KIT	149	FLANGE (SUCTION)	ZBR33050	1PC	ZBR33050	1PC	ZBR33050	1PC
		230	BEARING (BRONZE)		1PC		1PC		1PC
455	BASE KIT	231	SNAP RING	ZBR33030	1PC	ZBR33030	1PC	ZBR33030	1PC
		145	BASE (FILTER)		1PC		1PC		1PC

OTB450 MODELS

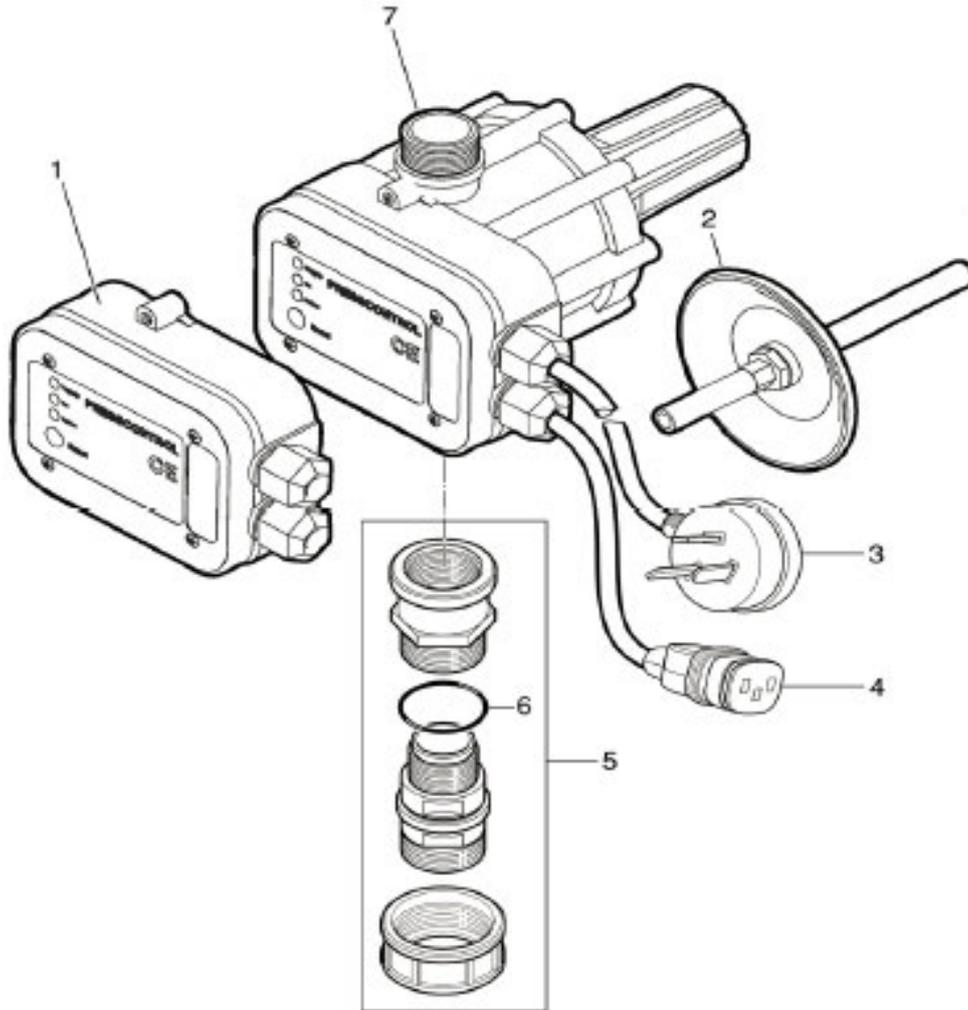


Drawings are indicative only, product appearance may change slightly.

OTB450 MODELS (CONT`D)

				TANKBUDDY OTB450	
KIT NO.	KIT REFERENCE	REF NO.	COMPONENT DESCRIPTION	PART NO.	
200	BOLTS & SCREW KIT	139	SCREW (INSPECTION)	ZBR37780	1PC
		198	ORING (INSPECTION)		1PC
		193	CLIP (FLOAT SWITCH)		1PC
		4	SCREW		6PC
		18	NUT (SELF-LOCKING)		1PC
		19	WASHER IMPELLER (TOOTHED)		1PC
		80	SPACER (IMPELLER)		1PC
		92	WASHER		1PC
		196	KEY		1PC
		367	SCREW		4PC
		61	WASHER (GROUND SCREW TOOTHED)		1PC
		60	SCREW (GROUND)		1PC
201	GASKET KIT	132	ORING (MOTOR BODY)	ZBR37790	1PC
		169	SAND PROTECTION		1PC
		516	ORING		1PC
325	FILTER COMPLETE	120	FILTER	ZBR37800	1PC
		4	SCREW		6PC
341	BEARING KIT	135	FLANGE	ZBR37910	1PC
		29	UPPER BEARING		1PC
371	MECHANICAL SEAL KIT	123	RING	ZBR37810	2PC
		124	SPACER (SEAL RING)		1PC
		169	SAND PROTECTION		1PC
372	HYDRAULIC KIT	12	DIFFUSER (WELDED)	ZBR36630	1PC
		21	IMPELLER		1PC
380	CAPACITOR KIT	47	CAPACITOR	ZBR36440	1PC
452	HYDRAULIC KIT FIRST STAGE	13	CAP (DIFFUSER)	ZBR37860	1PC
		21	IMPELLER		1PC

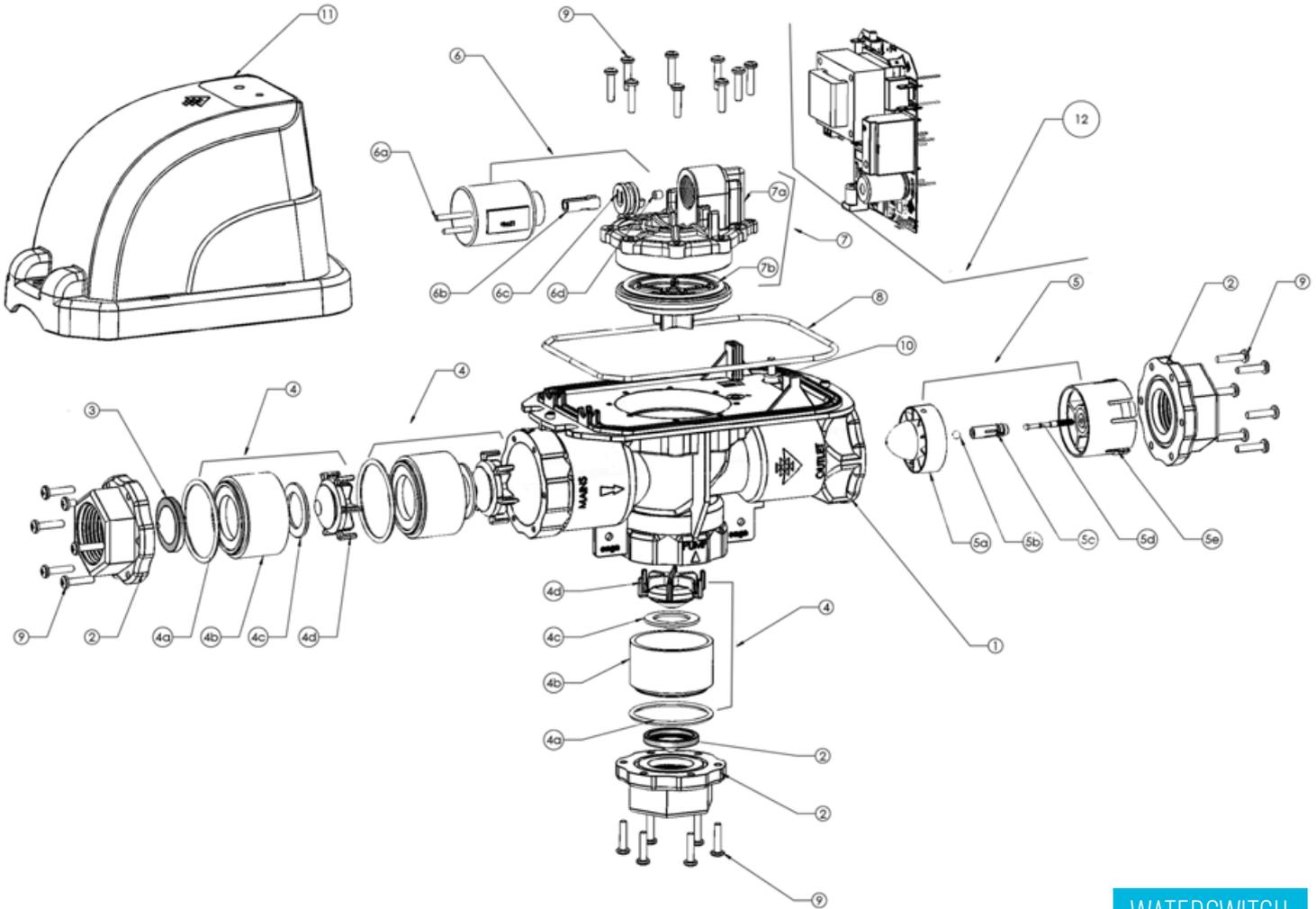
PRESSCONTROL



PC1100
110680

REF NO.	COMPONENT DESCRIPTION	PART NO.	
1	CONTROL BOX	700793	1PC
2	DIAPHRAGM	702454	1PC
3	LEAD - SIDE ENTRY	707407	1PC
4	LEAD & IEC IP55 SOCKET	707406	1PC
5	ADAPTOR BARREL UNION	800664	1PC
6	ORING BARREL UNION	700224	1PC
7	PRESS CONTROL WITH LEADS	110680	1PC

WATERSWITCH



WATERSWITCH WS1500120

REF NO.	COMPONENT DESCRIPTION	PART NO.	
2	HYDRAULIC ASSEMBLY END CAPS	707506K	3PC
	CHECK VALVE ASSEMBLY INC.		3PC
	OUTER ORING		3PC
4	CHECK VALVE SHUT OFF VALVE	707506K	3PC
	SEAL WASHER		3PC
	CHECK VALVE SHUT OFF VALVE		3PC
10	FLOW SENSOR ASSEMBLY	707149K	1PC
11	WATERSWITCH COVER	707503	1PC
12	HYDRAULIC ASSEMBLY	707500	1PC
13	PCB ASSEMBLY WS2000	707522	1PC
NS	ADAPTOR KIT WS1500	801489K	1PC
NS	BRIDGING JACK (FLOATLESS)	707546K	1PC
NS	H2O INFORMER (INC MAGNET)	801250	1PC



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