

WaterSwitch

Automatic Rainwater Controller

WaterSwitch Product Guide



Do you know your
water savings?
We do!



SPECIAL FEATURE
H₂OInformer



onga
Pentair Water

WaterSwitch

Automatic Rainwater Controller

The new Onga WaterSwitch takes water saving solutions to a new age in innovation.

Revolutionary technology merges with contemporary design to create a precision engineered, dependable product that recreates the industry benchmark for rainwater harvesting.

- Convenient Monitoring
- Contemporary Design
- Guaranteed Compliance:
Switching, Not Mixing
- Greater Flow = Greater Savings





H₂OInformer Display Features:

Tank savings (in ltr)



Mains savings (in ltr)



Percentage savings



Days of savings



Why Onga WaterSwitch... its all in the Contemporary Design

H₂OInformer

- New state of the art, wireless interface module records water usage for both mains and tank water so you can see your actual water savings from up to a 20 metre range
- Large LCD screen for easy reading
- Alarm indication – easy to read diagnostics
- Water source indication (mains or tank usage)

Convenient
Monitoring

Why Onga WaterSwitch... its all in the Internal Technology

- Upon activation, solenoid valve prevents mixing of mains and tank water so genuine water savings are achieved
- Mains priority – ensures continuous mains water supply in the event of a power failure
- Turbine flow sensor – increased sensitivity detects flow down to as little as 2 L/min – get the most out of your tank and reduce mains usage
- Integrated dual check valve (mains) and single check valve on pump delivery eliminates backflow and siphoning
- High flow capability (>200 L/min) through pump inlet
- Stainless steel mesh filter on pump and mains water inlet to eliminate debris and ensure reliability

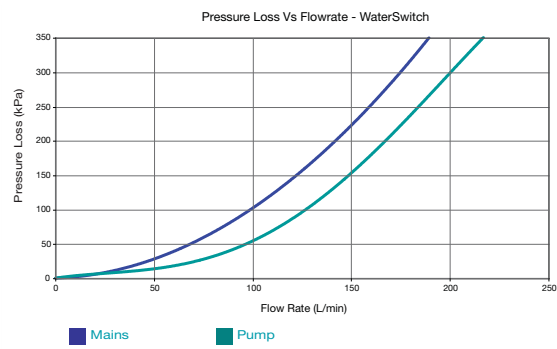


Guaranteed Compliance:
Switching, Not Mixing

Greater Flow = Greater Savings

Why Onga WaterSwitch... its all in the Performance

- Ideal for residential and commercial use: 1 unit suits all applications
- Maximum mains water pressure = 1000kPa: significantly outperforming main competitors
- 1" (25mm) Precision engineered hydraulic body
- Greater flow and less restriction enables smaller, more efficient pumps to be used, providing greater value to both the builder and the homeowner. Refer to pressure loss curve to the right.



Why Onga WaterSwitch... its all in the Efficiency

As a global leader in water products, Pentair Water is making a strong commitment to develop the most environmentally responsible products available. The new Eco-Select label is the keystone of this green program to meet the dual objectives of a growing number of home owners - to save money and make more eco-friendly choices. You'll see the Eco-Select label associated with several existing products and systems that already meet these objectives including the new Onga WaterSwitch. Eco-Select approved products save energy, conserve water, reduce noise and contribute to a more environmentally responsible choice for the homeowner.



Complete Systems = Ease of Installation



Why Onga WaterSwitch... its all in the System

Your rainwater harvesting system is equipped with a pump and a mains water backup WaterSwitch. The pump is designed to give mains pressure and flow and to be matched to the water supply requirements within the house.

The pump is designed to supply water to toilets, washing machines and outdoor taps.

The WaterSwitch continuously supplies mains water in the event of a power failure.

Onga can supply **complete systems*** incorporating **WaterSwitch, pump** with **flexible hose** and **fittings** and **protective slimline pump cover**; reducing installation time.

Pump cover is available in two standard colours (Merino and Mist Green). More colour options available upon request.

* Complete systems are available in the following models:

SMH350, part number: SMHW350PC (M/G)[†]

SMH450, part number: SMHW450PC (M/G)[†]

SMH550, part number: SMHW550PC (M/G)[†]

JS110, part number: JSW110PC (M/G)[†]

[†]Denotes colour: M = Merino, G = Mist Green

WaterSwitch and Pump Retail Box

WaterSwitch and Pump Retail Box* featuring **WaterSwitch, pump** and **float** in one convenient pack ready for assembly and installation.

* WaterSwitch and Pump Retail Box is available in the following models:

SMH350, part number: SMHW350DR[†]

SMH450, part number: SMHW450DR[†]

SMH550, part number: SMHW550DR[†]

JS110, part number: JSW110DR[†]

OTB450, part number: OTBW450DR[†]

[†]D denotes top entry float, E denotes side entry float, F denotes screwed side entry float.

WaterSwitch Retail Box

WaterSwitch Retail Box in enhanced packaging highlighting the key features and benefits.

WaterSwitch part number: WS1500200



Optional Accessories

Component	Material
Submersible Pump Bracket Kit	801481
Surface Pump Mount - Barrel Union Kit	801439
Water Level Sensor - In Tank Float	707170

Materials of Construction

Component	Material
Integrated Body:	Glass Filled Polyamide
Core Cover:	UV Stabilised Polycarbonate
Power Cable:	Polychloroprene
Check Valves:	UV Stabilised Polycarbonate
H ₂ OInformer:	UV Stabilised Polycarbonate
Barrel Union:	Glass Filled Nylon
Diaphragm:	Nitrile
Screws:	Stainless Steel

Technical Information

Component	Specification
Mains Water Supply inlet	1" BSP (Female)
Pump connection	1" BSP (Female)
Water outlet connection	1" BSP (Female)
Minimum Mains Water Pressure:	250 kPa
Maximum Mains Water Pressure:	1000 kPa
Minimum Water Flow:	2 L/min
Water temperature Range:	1°C to 40°C
Maximum Ambient Temperature:	1°C to 40°C

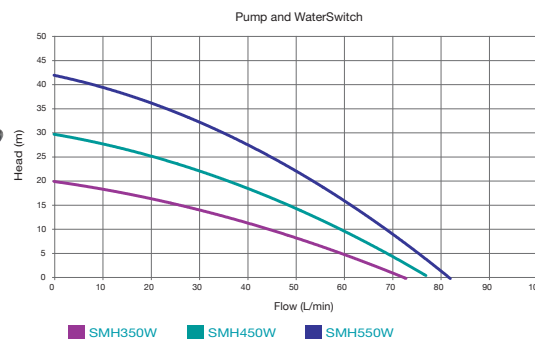
Electrical Data

Component	Rating
Rated Supply Voltage	230-240 Vac
Maximum Current Rating	10A
Power Consumption (Mains)	1W
Power Consumption (Tank)	18W
IP Rating	IP44
H ₂ OInformer Battery	3 Volt (CR 2032)
H ₂ OInformer Range	20 Metres

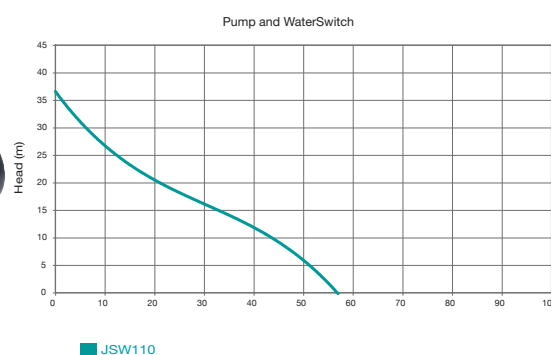
Accompanying Pumps



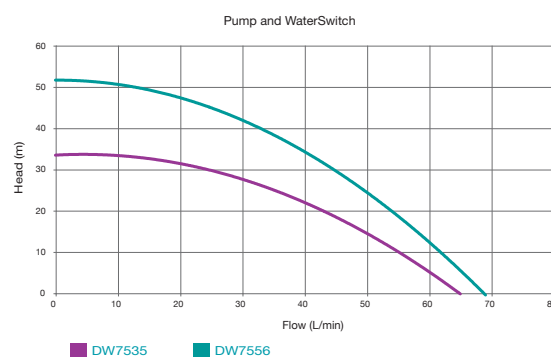
SMH



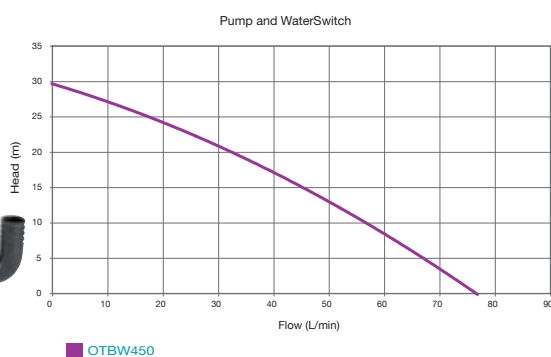
JS



Dominator



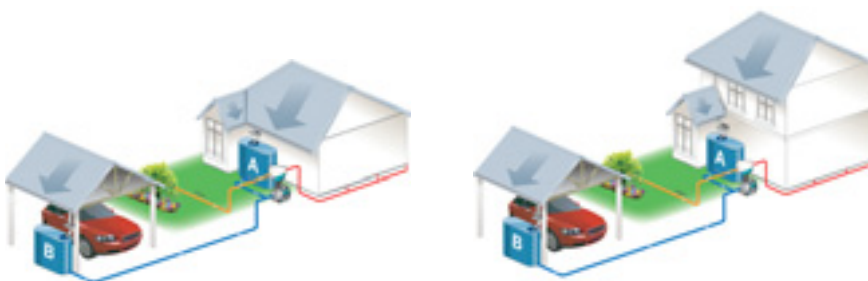
Tank Buddy



Quick check selection guide

Onga offers seven different kits to suit any application. To create similar water pressure to normal mains water supply, it is important to select the appropriate Onga WaterSwitch kit. Here's a quick checklist to help you select the right solution for your application.

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
the home)



Position B
(away from
the home)



Position A
(next to
the home)



Position B
(away from
the home)



STEP 3 – Select number of applications you wish to run

Pump model best suited			Pump model best suited	
SMHW350+	OTBW450 JSW110	1 Toilet	JSW110	DW7535 JSW110
SMHW350+	OTBW450 JSW110	1 Toilet, 1 Laundry	JSW110	DW7535 JSW110
SMHW450	OTBW450 SMHW450	1 Toilet, 1 Laundry, 1 Garden Tap	SMHW450	DW7535 SMHW450
SMHW450	DW7535 SMHW550	2 Toilets, 1 Laundry	SMHW450	DW7535 SMHW550
SMHW450	DW7535 SMHW550	2 Toilets, 1 Laundry, 1 Garden Tap	SMHW450	DW7556 SMHW550
SMHW550	DW7556 SMHW550	3 Toilets, 1 Laundry, Garden Sprinklers	SMHW550	DW7556 SMHW550

The products listed above are recommended for optimal performance and should be used as a guide only. Seek advice from your Onga specialist. *For long pipework lengths, upsize to next model. Purple text denotes submersible pumps, also suitable for above ground tanks.

State of the Art

Innovation

Viable
Solution

Modern
user interface

Advanced

Change

Revolutionary

Unique

Precision
Engineered



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