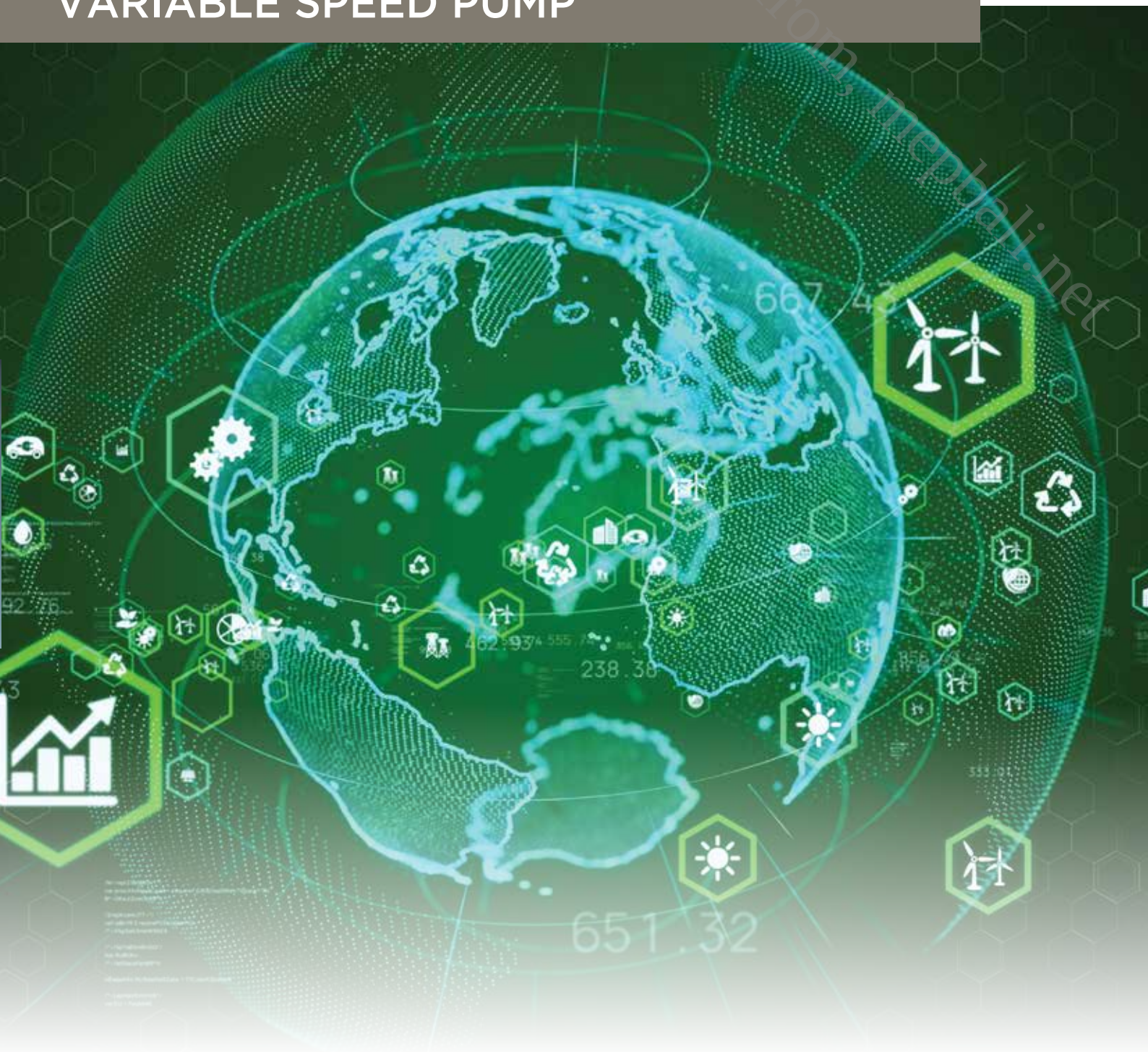
ENERGY SAVING PUMP

VARIABLE SPEED PUMP



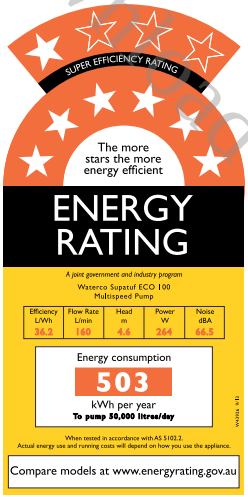
enviropro
SAVE TIME, WATER AND ENERGY

SAVE ENERGY

SAVE MONEY

WATERCO
water, the liquid of life

Supatuf MK2 ECO 100



Energy Saving 3 Speed Pump
Equipped with an energy saving 3 speed motor, Supatuf MK2 ECO 100 is capable of lowering its energy usage & reducing its operating noise levels.

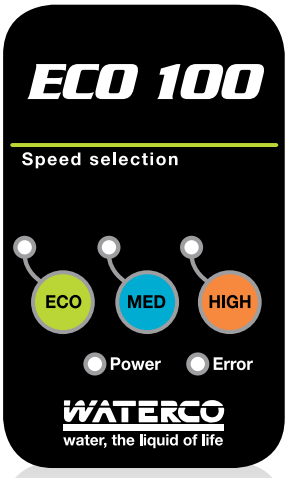
- Energy Rating of 7 Stars
- Innovative permanent magnet brushless DC motor
- Ultra-quiet operation

Slash Energy Use By Up To 70%

Energy Saving
Conventional pool pumps are limited to one set speed. A pool pump is usually sized to cater for the pool's maximum water flow requirements, which may either be the sand filter's backwash water flow or to provide sufficient water flow to operate a suction cleaner.

As the speed of a conventional pump cannot be changed, the same maximum water flow is applied across the pool's various requirements.

Equipped with the very latest 3 speed permanent magnet brushless DC motor, Supatuf MK2 ECO 100 is capable of lowering its motor speed, reducing water flow and lowering its energy consumption.



3 Speed Options

Supatuf MK2 ECO 100's 3 speed options cater for most pool functions.

High speed
Vacuuming and backwash – 1% of the time

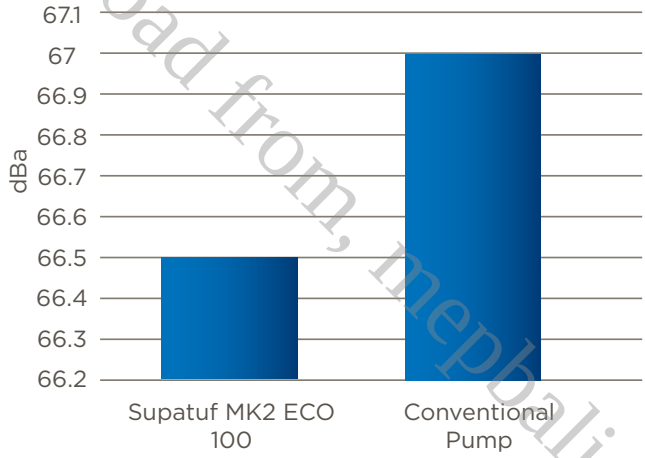
Medium speed
Automatic pool cleaners

Low speed
Filtration – 99% of the time

As a pool's filtration cycle occupies 99% of the run time of a pool pump, you can operate the Supatuf MK2 ECO 100 on its low speed setting for a majority of its running time, leading to significant energy savings.

Save Hundreds Of Dollars Off Your Energy Bills.

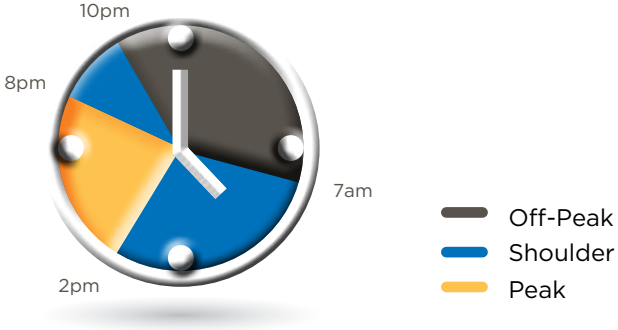
Ultra Quiet
Supatuf MK2 ECO 100 operates most economically and with the lowest noise level at its low speed setting. Its low speed setting significantly reduces the pump's vibration, motor noise and water turbulence to an ultra low 66.5 decibels (dBA).

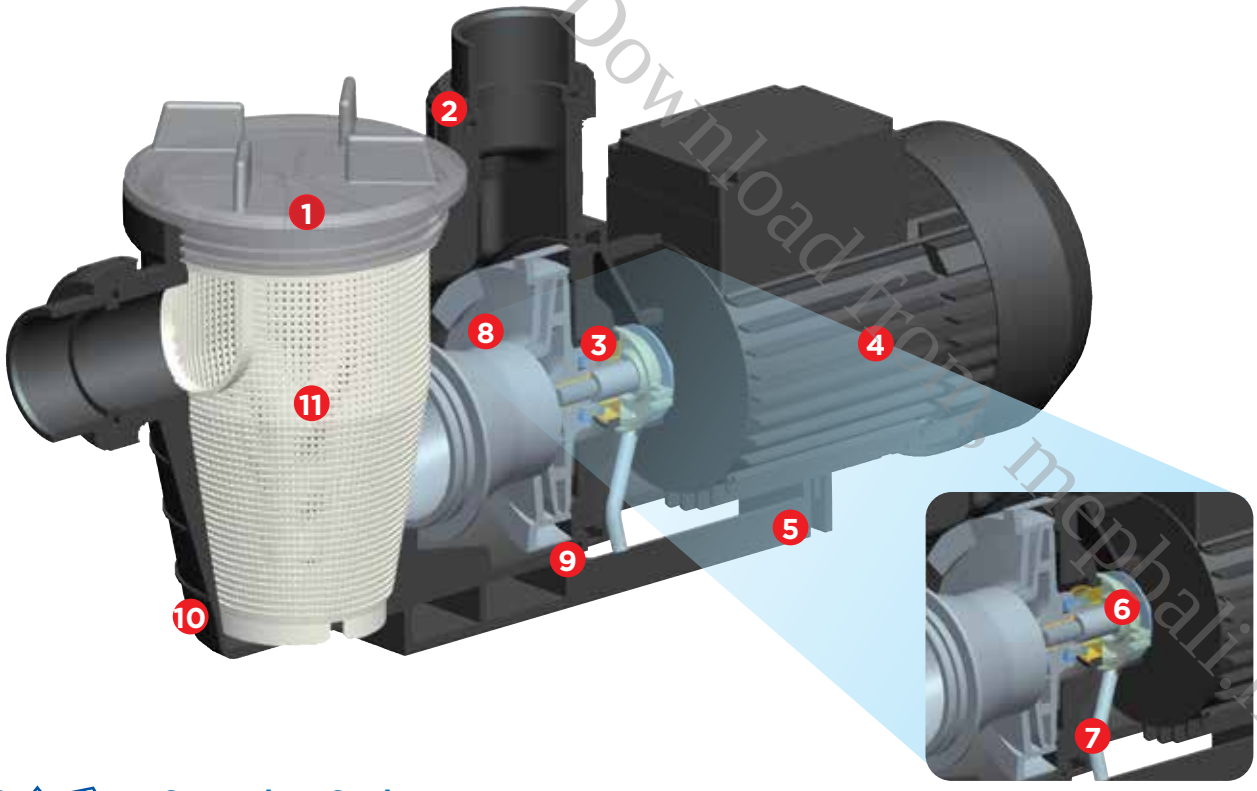


Benefit of Slow Flow
Lowering a pumps flow rate not only significantly decreases the pump's energy requirements, but also reduces water flow resistance in your pool equipment and plumbing. Even though you may need to operate the Supatuf MK2 ECO 100 longer, it is far more efficient pumping low water flow compared to high water flow.

A slow flow rate also has the added benefit of improving your pool's filtration efficiency, enhancing the clarity of your swimming pool water. Plus your automatic chemical dosers and salt chlorinators are also more effective when the pool water is circulated longer.

Off-Peak Operation
Its low noise levels enable it to be operated at times that are not allowable for conventional pool pumps. A Supatuf MK2 ECO 100 allows you to take advantage of off-peak electrical tariff periods, without upsetting your neighbours.





Secondary Seal

Situated between the pump wet end & the pump motor, a mechanical seal forms a seal around the motor shaft to prevent water from running out along the shaft of a motor. The mechanical seal is the wearing part of any pool pump.

A mechanical seal may leak water if the pump is ever run dry or simply be worn out. If a leaky mechanical seal is not replaced promptly, water will travel up the shaft of the motor and ruin the motor in a very short period of time.

Waterco's Secondary Seal protects the pump motor's end shield from any water contact, by capturing any leaks through a worn out mechanical seal and draining it out of the pump.

1. Clear basket lid.
2. Quick connect barrel unions for UPVC pipe.
3. High grade carbon/graphite mechanical seal with 316 stainless steel spring assembly.
4. High performance motor:
   - IP44 rating
   - Fan cooled
   - Motor shaft 303 grade stainless steel.
   - Thermal overload protection
5. Stable support base.
6. Secondary Seal - For extra protection of the pump motor.
7. Secondary seal drain pipe.
8. Hydraulically efficient impeller and diffuser design.
9. Drain plugs.
10. Strong single piece glass filled thermoplastic pump body.
11. Strainer basket - capture debris and protects the pumps impeller.

Supatuf MK2 ECO 100

Technical Specifications

Model	Length	Height	Width	Packaged Weight	Inlet/ Outlet	Strainer Basket
	mm	mm	mm	kg	mm	mm
ECO 100	635	310	179	12	50/40	1.5

ECO speed (1900rpm)

Pump Total Head (m)	Flow Rate (lpm)	Motor Input (kW)	Amps	Noise Level (dBA)
2.4	214	0.27	2.1	58.8
4.4	169	0.27	2.1	58.4
5.6	118	0.25	1.9	58.7

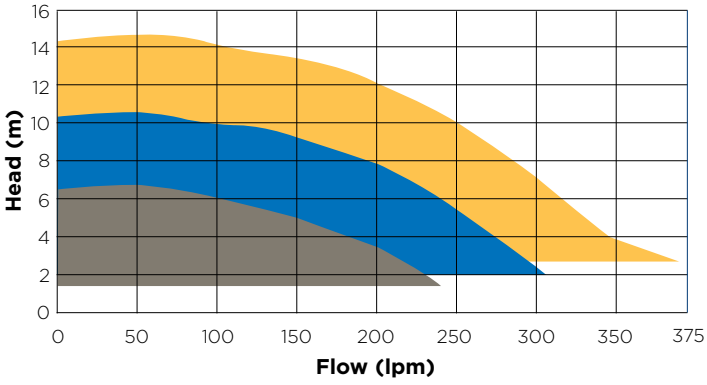
Medium speed (2410rpm)

Pump Total Head (m)	Flow Rate (lpm)	Motor Input (kW)	Amps	Noise Level (dBA)
5.6	247	0.52	3.9	60.9
8.1	184	0.50	3.8	61.3
9.6	125	0.45	3.4	61.7

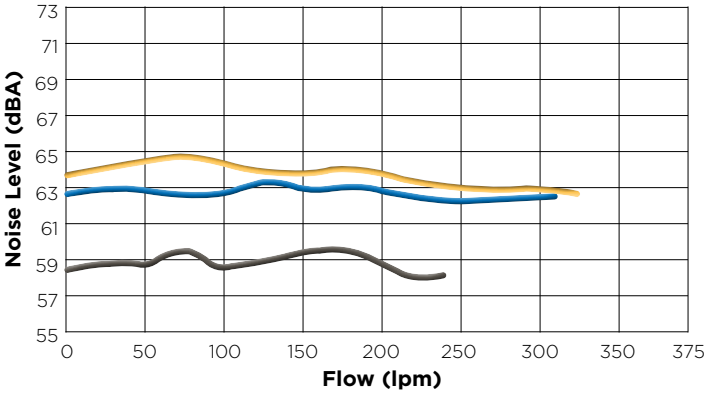
High speed (2850rpm)

Pump Total Head (m)	Flow Rate (lpm)	Motor Input (kW)	Amps	Noise Level (dBA)
7.3	297	0.84	6.5	63.5
11.2	219	0.79	5.9	63.3
13.4	148	0.71	5.3	63.6

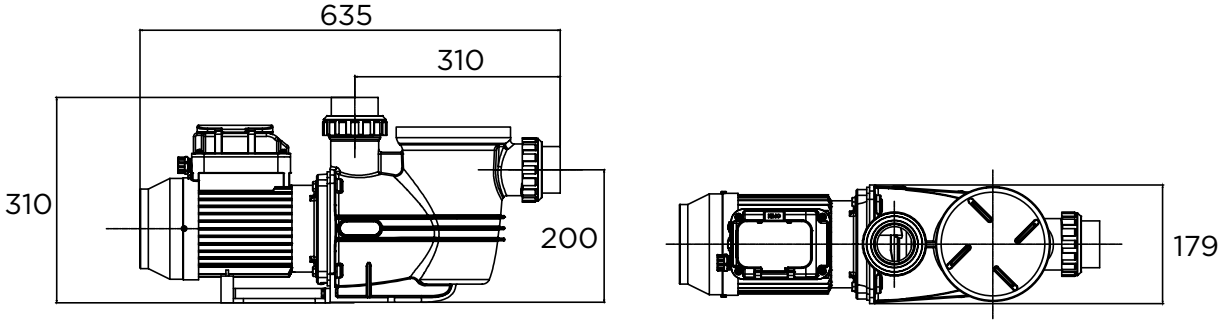
Supatuf MK2 ECO 100 Performance Curves



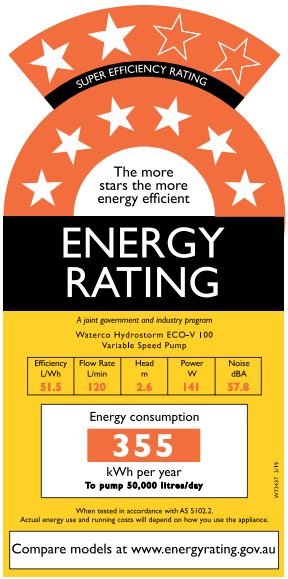
Supatuf MK2 ECO 100 Noise Levels

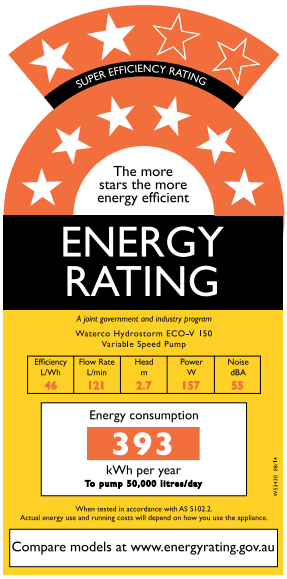


Dimensions (mm)



Hydrostorm ECO-V 100 & Hydrostorm ECO-V 150





Energy Saving Variable Speed Pumps

Hydrostorm ECO-V 100 and Hydrostorm ECO-V 150 are designed to have all the extra power you need to cope with modern day swimming pool designs. They are equipped with an energy saving variable speed motor that offers the finest adjustment in operating speed with 25 RPM increments. The fine tuning of the pumps' motor speed can be adjusted to perfectly match the flow requirements of the swimming pool, maximising energy savings and minimising pump noise.

- Energy Rating of 8 Stars
- Variable permanent magnet brushless DC motor
- Ultra quiet operation

Slash Energy Usage Significantly

Energy Saving

A pool filtration system does not require to be operated at a pump's maximum water flow rate as with the use of a conventional pool pump limited to one speed. In fact, your pool's filtration efficiency improves at lower flow rates.

As a pool's filtration cycle occupies 99% of the run time of a pool pump, you can operate the Hydrostorm ECO-V 100 on its low (ECO) speed setting for a majority of its running time, leading to a potential 82% savings in energy. Hydrostorm ECO-V 150 with similar configuration could save up to 88% in energy usage.

Equipped with the very latest variable speed permanent magnet brushless DC motor, Hydrostorm ECO-V 100 and Hydrostorm ECO-V 150 is capable of lowering its motor speed, reducing water flow and lowering its energy consumption.

Variable Speed Options

Hydrostorm ECO-V 100 and Hydrostorm ECO-V 150's variable speed options cater for most pool functions.

High speed
Vacuuming and backwash – 1% of the time

Medium speed
Automatic pool cleaners

Low speed
Filtration – 99% of the time

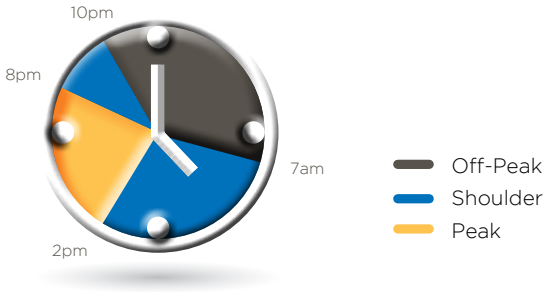
Variable speed
Hydrostorm ECO-V has 3 factory set speed options ECO (low), MED & HIGH but with the additional advantage of fine adjustment in operating speed with 25 RPM increments, allowing fine tuning of the pump's motor speed to perfectly match the flow requirements of the swimming pool, maximising energy savings and minimising pump noise.

PERFECTLY MATCH FLOW REQUIREMENTS AND MAXIMISE ENERGY SAVINGS.

Save Hundreds Of Dollars Off Your Energy Bills.

Ultra Quiet
Hydrostorm ECO-V 100 and Hydrostorm ECO-V 150 operates most economically and with the lowest noise level at its low speed setting. Its low speed setting significantly reduces the pump's vibration, motor noise and water turbulence.

Off-Peak Operation
Its low noise levels enable it to be operated at times that are not allowable for conventional pool pumps. Hydrostorm ECO-V 100 and Hydrostorm ECO-V 150 allow you to take advantage of off-peak electrical tariff periods, without upsetting your neighbours.



Benefit of Slow Flow
Lowering a pumps flow rate not only significantly decreases the pump's energy requirements, but also reduces water flow resistance in your pool equipment and plumbing. Even though you may need to operate the Hydrostorm ECO-V 100 and Hydrostorm ECO-V 150 longer, it is far more efficient pumping low water flow compared to high water flow.

A slow flow rate also has the added benefit of improving your pool's filtration efficiency, enhancing the clarity of your swimming pool water. Plus your automatic chemical dosers and salt chlorinators are also more effective when the pool water is circulated longer.

Key Features of Hydrostorm ECO-V

PUMP PROTECTION BRACKET

Motor protection bracket. This protection bracket adds a 61mm separation between the pump wet end and motor. The bracket also has larger drain holes for improved draining of any water leaks due to long term usage wear of the main mechanical seal.

1. Variable speed control panel, IP55 rating
2. Permanent magnet brushless Variable speed DC motor
3. UV stabilised & corrosion resistant
4. 50mm quick connect barrel unions for UPVC pipe
5. Clear basket lid & large 2.1 litre strainer basket
6. High grade carbon / graphite mechanical seal with 316 stainless steel spring assembly
7. Strong single piece glass filled thermoplastic pump body
8. Drain plugs
9. Stable support base
10. Hydraulically efficient impeller and diffuser design
11. Fan cooled thermal overload protection

Hydrostorm ECO-V 100

Technical Specifications

Model	Length	Height	Width	Packaged Weight	Inlet/Outlet	Strainer Basket
	mm	mm	mm	kg	mm	lt
ECO-V 100	650	340	227	12	50	2.1

ECO-V speed (1475rpm)

Pump Total Head (m)	Flow Rate (lpm)	Motor Input (kW)	Amps	Noise Level (dBA)
1.8	142	0.16	1.2	56.5
2.3	127	0.16	1.2	55.8
2.8	115	0.16	1.2	56.3

ECO speed (1900rpm)

Pump Total Head (m)	Flow Rate (lpm)	Motor Input (kW)	Amps	Noise Level (dBA)
4.7	145	0.30	2.3	56.1
5.5	129	0.30	2.3	55.7
6.3	107	0.28	2.2	55.9

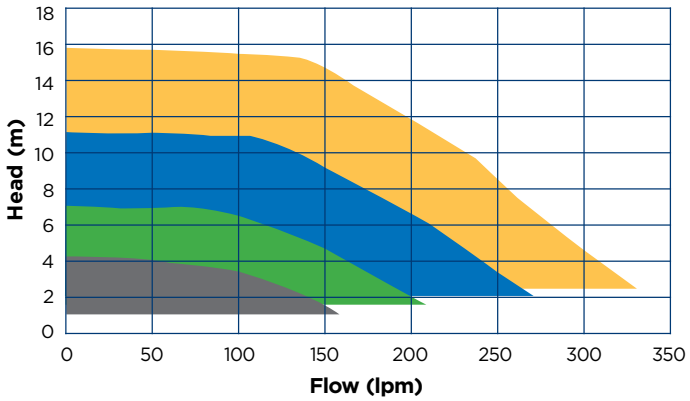
Medium speed (2410rpm)

Pump Total Head (m)	Flow Rate (lpm)	Motor Input (kW)	Amps	Noise Level (dBA)
5.3	220	0.53	4.1	58.7
7.0	193	0.54	4.1	59
9.9	135	0.52	3.9	61.5

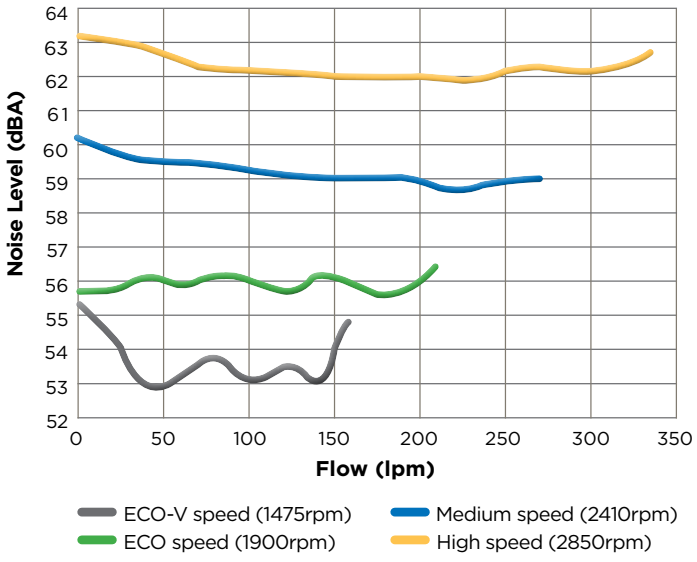
High speed (2850rpm)

Pump Total Head (m)	Flow Rate (lpm)	Motor Input (kW)	Amps	Noise Level (dBA)
7.3	264	0.86	6.6	62.3
11.8	201	0.87	6.6	62
15.2	134	0.79	6.0	62.1

Hydrostorm ECO-V 100 Performance Curves



Hydrostorm ECO-V 100 Noise Levels



Hydrostorm ECO-V 150

Technical Specifications

Model	Length	Height	Width	Packaged Weight	Inlet/Outlet	Strainer Basket
	mm	mm	mm	kg	mm	lt
ECO-V 150	771	340	227	14	50	2.1

ECO-V speed (1300rpm)

Pump Total Head (m)	Flow Rate (lpm)	Motor Input (kW)	Amps	Noise Level (dBA)
1.7	150	0.16	1.4	55.7
2.2	131	0.16	1.4	56.0
2.6	118	0.16	1.4	55.6

ECO speed (1900rpm)

Pump Total Head (m)	Flow Rate (lpm)	Motor Input (kW)	Amps	Noise Level (dBA)
3.0	246	0.42	3.2	58.7
4.2	216	0.42	3.2	59.0
5.5	185	0.42	3.2	61.5

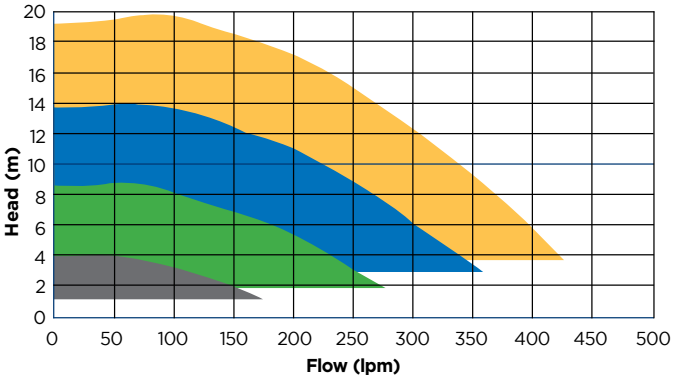
Medium speed (2410rpm)

Pump Total Head (m)	Flow Rate (lpm)	Motor Input (kW)	Amps	Noise Level (dBA)
5.2	309	0.78	5.5	69.7
6.9	280	0.78	5.5	71.4
8.8	240	0.78	5.5	71.5

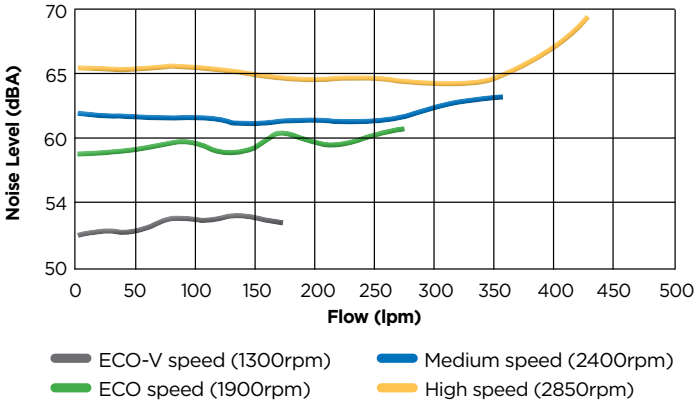
High speed (2850rpm)

Pump Total Head (m)	Flow Rate (lpm)	Motor Input (kW)	Amps	Noise Level (dBA)
6.4	375	1.25	8.5	78.3
9.5	336	1.26	8.6	77.3
12.3	290	1.26	8.6	76.3

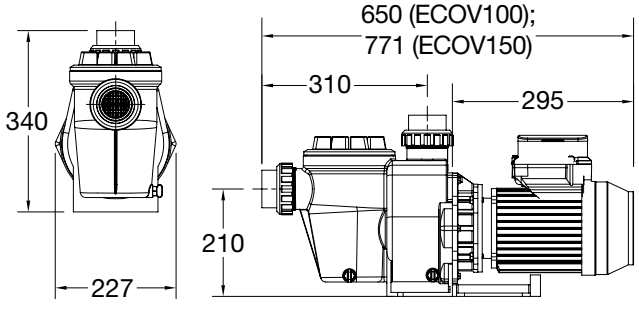
Hydrostorm ECO-V 150 Performance Curves



Hydrostorm ECO-V 150 Noise Levels



Dimension (mm)



Hydrostorm ECO-V 300

Top Performance in its Class

Hydrostorm ECO-V 300 defines the pump with top-notch performance. The variable speed pump offers a speed of up to 3450 RPM to cater to the high demand for pool water circulation.

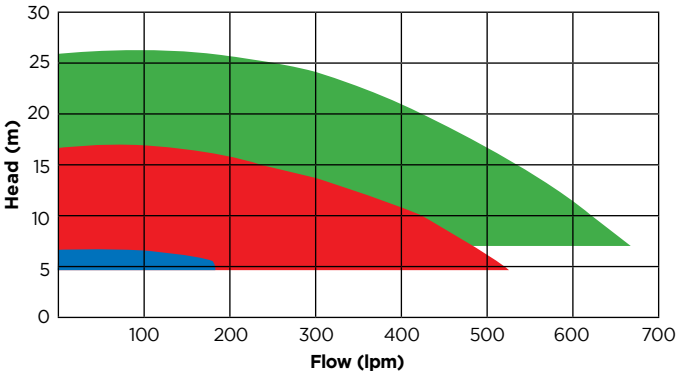
Variable Speed

Hydrostorm ECO-V 150 has 3 factory set speed options 50% (1725 RPM), 80% (2760 RPM) and 100% (3450 RPM) but with the additional advantage of fine adjustment in operating speed with 5 RPM increments. The fine-tuning of the pump's motor speed to match the flow requirements of the swimming pool allows maximized energy savings and minimizing pump noise.

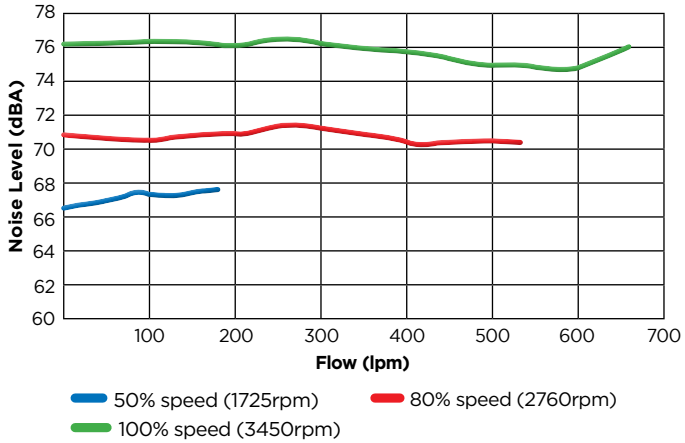
Multiple Operation Cycles

Hydrostorm ECO-V 300 allows for up to 4 cycle operations to be activated via its interactive display. This provides flexibility to vary the pump's speed at different times of the week.

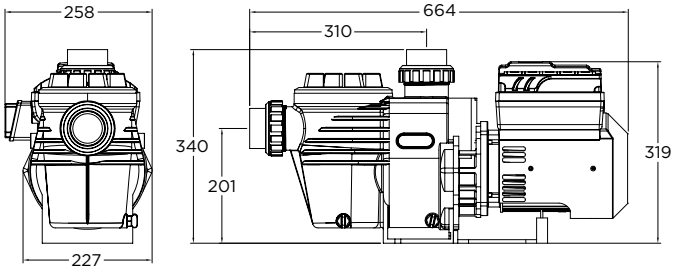
Hydrostorm ECO-V 300 Performance Curves



Hydrostorm ECO-V 300 Noise Levels



Dimension (mm)



Technical Specifications

Model	Length	Height	Width	Packaged Weight	Inlet/ Outlet	Strainer Basket
	mm	mm	mm	kg	mm	lt
ECO-V 300	664	340	258	22	50	2.1

50% (1725 RPM)

Pump Total Head	Flow Rate	Motor Input	Amps	Noise Level
(m)	(lpm)	(kW)		(dBA)
5.6	170	0.14	1.7	67.4
6.4	103	0.36	1.6	67.2
6.6	34	0.31	1.4	66.8

80% (2760 RPM)

Pump Total Head	Flow Rate	Motor Input	Amps	Noise Level
(m)	(lpm)	(kW)		(dBA)
4.8	526	1.49	6.4	70.3
13.5	315	1.40	6.0	71.1
16.9	105	1.05	4.5	70.6

100% (3450 RPM)

Pump Total Head	Flow Rate	Motor Input	Amps	Noise Level
(m)	(lpm)	(kW)		(dBA)
7.2	662	2.83	12.4	76
21.2	397	2.65	11.4	75.7
26.4	132	1.92	8.3	76.3

Company Profile

Waterco pioneers reliable solutions for healthy, safe water environments, which are used in residential, commercial and industrial applications in over 40 countries.

Established in 1981 in Sydney, Australia, it has since become a global brand recognised for designing and manufacturing filtration and sanitisation innovations for the swimming pool, spa, aquaculture, and water purification sectors.

CONTACT WATERCO

Waterco's head office is situated in Sydney, Australia with international offices, manufacturing plants and warehouses located in Australia, New Zealand, Malaysia, Indonesia, Singapore, China, the US, Canada, and the UK.

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