

# ECO Equipment Package

**3 Speed Pump (H83SP)**

**Cartridge Filter 100 (HCF100)**

**Salt and Mineral Chlorinator 15 (HSMCI5)**



## 3 Speed Pump

The pump with 3 speed control for maximum performance. Saves up to 70% of running costs compared to a single speed pump. Specifically designed to circulate swimming pool water for filtration, heating and sanitising applications. Suitable for pools up to 90,000 litres.

- > **3 speed variable control with fully programmable speed options for maximum performance and efficiency**
- > **See through lid for visibility and easy maintenance**
- > **Extra large leaf basket for longer intervals between cleaning**
- > **Advanced technology brushless DC motor for longer pump life**
- > **Auto reset thermal protection to prevent over heating of the motor**
- > **Strong corrosion resistant, UV stabilised materials**
- > **40/50mm ABS quick coupling barrel unions for easy connection and installation**



## Features

- > **3 Speed Control**  
Switch between Eco Flow (lowest speed) for pool filtration, Mid Flow for pool cleaning and High Flow for all other pool sanitisation and heating applications
- > **Programmable Intelligence**  
Fully programmable speed options by adjusting the RPM of the motor from the factory pre-sets for Eco, Mid and High Flow speeds. This maximises your pool efficiency, use and performance.
- > **Energy Efficient**  
Lower emissions, power usage and energy costs compared to single speed pumps
- > **Lower Noise Levels**  
Quiet at only 60.5dB, allowing you to run your pump at any time of day or night
- > **4 Year Guarantee**  
Peace of mind from an Australian owned, designed and engineered pool pump



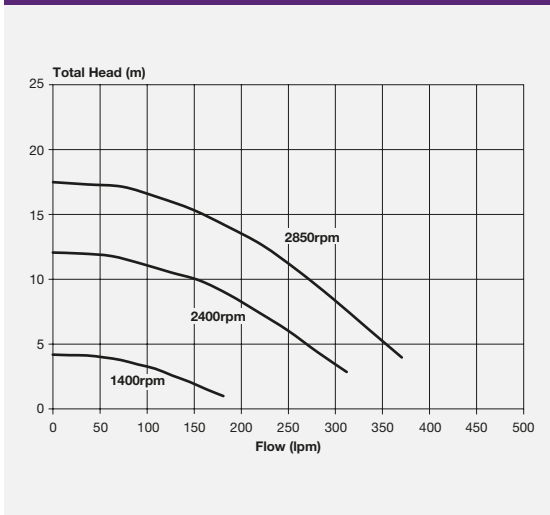
### Electrical Data

<b>Model</b>	H83SP
<b>RPM</b>	Eco Flow Speed – 1400
	Mid Flow Speed – 2400
	High Flow Speed – 2850
<b>Enclosure Class (IP)</b>	24
<b>Insulation Class</b>	Class B130 Insulation
<b>Voltage (V)</b>	220-240
<b>Supply Frequency (Hz)</b>	50
<b>Run Current (A)</b>	6.3
<b>Motor Input Power (W)</b>	Eco Flow - 168W
	Mid Flow – 679W
	High Flow – 1125W
<b>Motor Output Power (W / hp)</b>	Eco Flow - 127W / 0.2 hp
	Mid Flow – 521W / 0.7 hp
	High Flow – 853W / 1.1 hp

### Operating Limits

<b>Maximum water temperature</b>	50°C
<b>Maximum ambient temperature</b>	55°C

### Hydraulic Performance

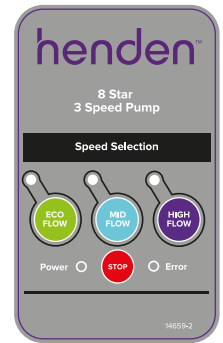


### Low Energy Operation:

3 speed settings which are also fully programmable:

1. **Eco Flow – Lowest Speed**
2. **Mid Flow – Medium Speed**
3. **High Flow – Highest Speed**

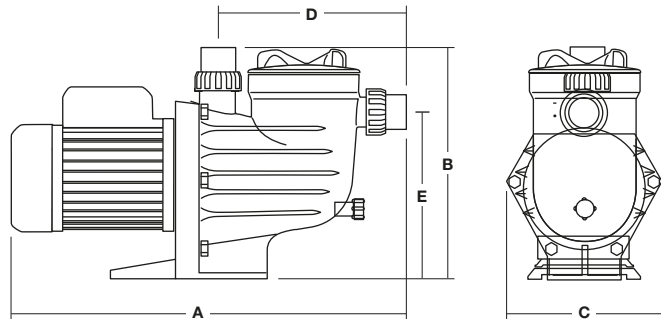
Eco Flow mode provides the lowest speed and the greatest energy savings.



Operation	Recommended Speed Setting
Pool filtration	Eco Flow
Automatic pool cleaner operation	Mid Flow
Backwashing your media filter	High Flow
Manually cleaning your pool	
Water feature operation	
Spa jet operation	
Solar pool heating	

### Dimensions (mm)

A	B	C	D	E	Mounting Holes Dia.	Inlet PVC	Outlet PVC	Net Weight (Kg)
645	330	250	305	246	10	40/50	40/50	15.9



# Cartridge Filter

This high performance cartridge filter has been specifically designed for the water-conscious filtration in all salt, mineral salt and fresh water pools. For sparkling pools up to 90,000 litres.

- > Automatic air bleed to purge trapped air during filtration
- > Durable polyurethane end caps reinforced to support pleats and protect the element
- > 20-50 micron rating filtration for high water quality
- > High quality Du Pont polyester mesh for clog free, long life
- > Large spaces between pleats for easy cleaning and long filtration cycles
- > ABS tank construction is robust, UV resistant and non-corrosive for long life
- > ABS barrel unions for simple installation



## Features

- > The filter lid is retained by a lock ring which enables easy access for element cleaning
- > Low profile design means elements are easier to lift out for cleaning and require less height for installation
- > The element is constructed of Du Pont Reemay which is recognised for its excellent filtration and long life
- > A quality pressure gauge makes it easy to see when element cleaning is required
- > A manual air bleed enables the filter to be de-pressurised before opening for cleaning
- > A choice of two inlet ports enables the inlet plumbing to be installed at either 90° or 180° to the outlet for greater flexibility in installation
- > Less water used, no backwashing needed
- > Perfect for use with energy efficient pool pumps
- > Replacement filter elements available
- > 10 year warranty



### Performance Data & Media Required

Model	Filtration Area (m <sup>2</sup> )	Filtration Area (ft <sup>2</sup> )	Maximum Flow Rate (lpm)	6 Hour Turnover* (litres)	8 Hour Turnover** (litres)
HCF100	9.29	100	400	144,000	192,000
HCF150	13.93	150	450	162,000	216,000

### Operating Limits

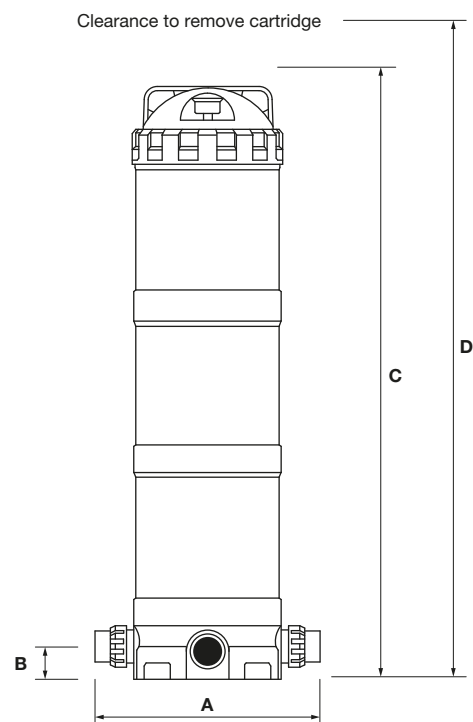
Maximum water temperature	50°C
Maximum operating pressure	280kPa

### Replacement Filter

Model	Replacement Filter P/N
HCF100	Q2312HSP
HCF150	Q2313HSP

### Dimensions (mm)

Model	A	B	C	D	Inlet PVC	Outlet PVC
HCF100	330	60	635	1000	40/50	40/50
HCF150			820	1360		



## Important notes

\* Figure based on 6 hour turnover @12.5m head.

\*\* Figure based on 8 hour turnover @12.5m head.



# Salt and Mineral Chlorinator

Sanitise pools with your choice of salt water or mineral water for highly crystal clear water. Ideal for in-ground and above ground residential pools, plunge pools and large swim spas up to 175,000 litres.

- > Full digital LCD display screen for easy operation
- > Strong and durable enclosure made with corrosion resistant, UV stabilised materials
- > One plug cell power connection for quick and simple installation and maintenance
- > High performance reverse polarity electrolytic cell
- > Integrated safety flow switch to protect against gas generation when no flow is detected
- > 40/50mm barrel unions for low maintenance and easy connection



## Features

### Energy Efficient Modes

- > Spa – reduces chlorine output by 80% of the chlorinator’s manual chlorine output setting
- > Cover – reduces chlorine output by 80% of the chlorinator’s manual chlorine output setting **(with added functionality to remotely switch to this mode using an automated pool cover controller)**
- > Boost – sets chlorine output to 100% for 24 hours and overrides the chlorinator’s manual chlorine output setting
- > Winter – reduces cell current output to 85%, the chlorinator’s manual chlorine output setting remains the same
- > Alarms for add salt, low salt and no flow
- > Two independent timers
- > Adjustable chlorine output in 5% increments
- > Extended memory save with battery blackout protection
- > Switchmode power supply to minimise wasted energy
- > Operating Salt Level: 3,000 – 6,000ppm



## Sanitiser Output

Model	Chlorine Gas Production (g/hr 100%)	Calcium Hypochlorite (g/hr 65% equivalent)	Maximum Pool Size (Litres)		
			Cool Climates <25°C	Temperate Climates 25°C to 30°C	Tropical Climates >30°C
HSMC15	15	23	60,000	45,000	30,000
HSMC25	25	38	110,000	80,000	55,000
HSMC35	35	53	160,000	110,000	80,000

## Dimensions

Controller				Cell Housing				
Height (mm)	Width (mm)	Depth (mm)	Mounting holes (mm)	Height (mm)	Width (mm)	Diameter	Inlet	Outlet
320	240	113	164	239	390	119	50	50

## Electrical Data All Models

Voltage (V)	220-240
Phase	1
Supply Frequency (Hz)	50/60
Enclosure Class (IP)	34
Approval No.	GMA-504803-EA

## Warranty

Component	Coverage
Power Supply	4 years
Electrolytic Cell	3 years

## Important notes

In 'hard water' applications (above 275ppm), reverse polarity systems will require regular (monthly) inspection and manual cleaning.

If using mineral salts in areas with hard water, reverse polarity systems may require occasional manual cleaning. Mineral salts can form scale on the cell that isn't removed through the polarity reversal process, therefore more frequent manual cleaning may be required. In some cases this scale is soft enough to remove with a strong jet of water if acid cleaning proves ineffective.

The appropriate chlorinator size for your pool is dependent on the local climate and the bather load of the pool. Please note that chlorinator cell life can be increased with shorter running times during winter and lower output settings. Henden recommends that a chlorinator is run for between 6-8 hours a day during summer, and between 2-4 hours during winter.



Power supply warranty