

A vibrant sunset scene with a bright yellow sun in the center of a deep red sky. The sun's reflection is visible on the water below, which is covered in intricate, shimmering ripples. The overall mood is serene and beautiful.

hurlcon genus series pool and spa products the next generation

The Genus IV control system gives a new meaning to the term, 'genetic engineering'.

2 Charles Darwin created a revolution with his theory of evolution. Put simply, he argued that "all species descended from parent forms through the natural selection of those best adapted to survive." In essence, that's also the theory behind the Hurlcon Genus IV Pool and Spa System.



Genus is much, much more than just a clever controller.

The term 'genus' denotes a species or family of things. As Darwin might say, it points to the evolution of a range of products as a result of the natural selection of those best adapted to the purpose.

So the Genus IV is more than just a very clever controller.

It's the heart of a system, a family of high quality, highly intelligent, interconnected products that together, take total care of your pool and spa.

Genus is about setting a superior standard. It's the result of spreading the intelligence needed throughout an entire system. It's about combining that intelligence to achieve greater efficiency, greater convenience and a greater return on the investment in a pool or spa. It's about evolution and new technology. It might even be described as an electronic version of 'genetic engineering'.

Who is in control?

Pools and spas are great family fun but, to many, they are also an incomprehensible array of knobs, dials and plumbing.

It seems convenience and ease of operation has never been a high priority until now.

The Genus IV controller has been designed to link all these separate components together in a single control that allows any member of the family to operate the system.

So, there's no longer any need to wait for the family expert to come home and turn on the spa or the pool heating.

With Genus it's as simple as pushing a button.

How clever is this controller?

With the push of a button, the Genus will change the temperature of your pool or spa.

It can switch between the pool and the spa.

It can change the chlorine production when using your spa. It can switch your pool and spa lighting on and off.

It allows you to control the intensity of your spa's massaging action. It can turn your boost pump on and off.

It will control the hours of operation of your filter pump automatically.

It will display your pool temperature.

It will display your spa temperature.

It will display your pool and spa system operating status.

It will make your pool and spa really easy to operate and control.

It can be locked to prevent unauthorised adjustment.

In fact, it's almost easier to list what it can't do!



With TX pool pumps, it really is the survival of the fittest.

The Australian environment is one of the toughest on pool and spa pumps. Externally, they have to cope with the climate and the elements. Internally, they must adapt to ever increasing pressure levels. Only the best survive. It's an environment in which all Hurlcon pumps thrive. And one in which the new TX Series sets a new benchmark in performance and durability. External protection on the TX is provided by a single piece body of Noryl, a super tough and stable, corrosion-resistant, high-tech, glass-reinforced thermoplastic. Stainless steel shafts and 'lapped true carbon face and ceramic seals'

also help achieve the high Genus standards of reliability and durability. Internal head pressures are constantly rising as pumps try to push water through pool filters, salt chlorinators, in-floor cleaning systems or multi jet spas. The TX Series has been designed to meet this need by delivering much higher head pressure and overall performance. And surprisingly, it does it with greater efficiency and at greatly reduced noise levels. It also moves more water, using less power, in fewer hours per day, so its operating costs are considerably lower, saving you money.

TX pumps and RX filters prove the value of family ties.

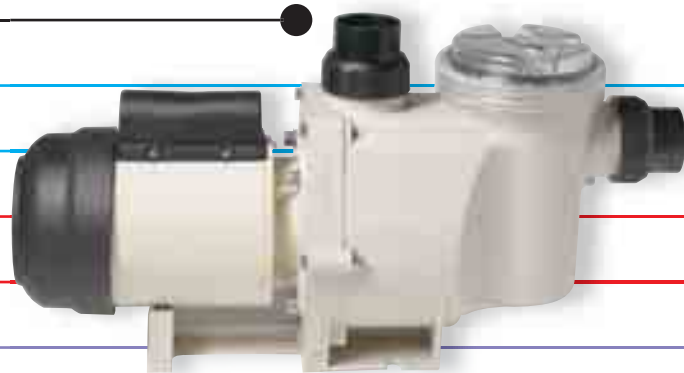
Hurlcon RX Series pool filters are designed to provide perfectly clean, clear water. And when used with the incredibly fine zeolite filter medium, the water clarity is outstanding. However, the pressures placed on modern pool pumps also affect modern pool filters. That's why so much effort was put into making sure the performance of the RX Series multi-media filters and the output of the TX Series pumps were perfectly matched. When used together, they easily

cope with the highest head pressures and flow rates. Their combined capacity, along with the filter's 12 arm hub and 25mm laterals, helps reduce filtration times and pump operation and that reduces operating costs. Like TX pumps, RX filters are also tough. Each is seamlessly, rotationally moulded from High Density Poly Ethylene using techniques that have been exclusively developed by Hurlcon to give unparalleled strength and stability. Even the filter's shape has been carefully engineered to ensure maximum life and trouble free operation.

QX is part of the family too.

In some applications, a cartridge filter is the best option so the Genus family would be incomplete without one. But to meet the high Genus standards, it has to be the best. So in addition to the automatic air bleed and automatic internal pressure release valve, the QX Cartridge Filter uses a state-of-the-art Du Pont Reemay filter element. This element not only cleans the water more completely, it also is easier to clean more thoroughly and more easily than other cartridges.

Just like the TX pump and the RX multi-media filter, the QX cartridge filter is perfectly matched to the rest of the Genus range and also controlled by the Genus IV Control System.



The Hurlcon Genus Series had its own genesis in pools of warm water.

4 It is said that life on earth began in a primordial pool of warm salty water and, in some ways the Genus range had a similar beginning. The very first products in the Genus range were gas pool heaters. Hurlcon believe that every pool should be heated. A pool should be useable all year round, whenever it's needed. It's a significant investment and to have it sit idle for much of the year is really unacceptable.



Healthy lifestyles have always relied on pools of warm water.

Once, pools were just a way to cool down in summer. They were just for fun. Now they are an integral part of a modern health and fitness program.

Our sedentary lifestyles make some sort of exercise regime almost essential and a pool provides low impact exercise for everyone through every stage of life, from birth to grand old age.

Pool exercise can be very strenuous or very relaxing. But to be effective, it needs to be consistent. To confine it to the few months of the year when the pool is naturally warm is not convenient and it's not healthy.

MX Series gas pool heaters are the origin of the species.

Genus grew out of a desire to build the most convenient, most reliable and most efficient pool heating systems.

To do that, those heaters had to be superior in every respect.

The MX Series achieved that goal and in doing so, set the standard that became the benchmark for all Genus products.

MX introduced the interactive intelligence that is now spread throughout the entire genus range.

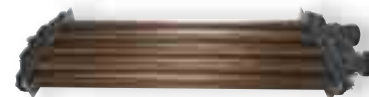
In fact, a large part of that shared intelligence is actually built into the heater, which is why every Genus system needs to include an MX gas heater or DX heat pump.

MX also introduced a level of innovation that other Genus products would strive to match.

Superior performance and durability through natural selection.

The MX Series is now the accepted market leader in gas pool heating. This is because, from the beginning, only the very best components and technologies were good enough.

The Copper Nickel finned-tube heat exchanger was selected to provide the highest corrosion resistance available.



It also gives 10 times the heat transfer of plain tube and when connected to Hurlcon's ground-breaking thermoplastic headers, the waterways deliver high flow rates, incredible efficiencies and corrosion resistant operation. Stainless steel Venturi burners were developed to ensure short,

sharp, even flame distribution as well as long-lasting, corrosion-free operation.



These innovations, combined with the brilliant Genus control system, make the MX Series gas pool heaters so fast they're able to heat most pools within 24 hours.

No longer must the heater be run for long periods for the pool temperature to be constantly maintained. With a one day heat up, MX Series now provides the nearest thing to 'on-demand' pool heating. All this MX technology is enclosed in a compact design made from the toughest materials available. In short, the MX Series is faster, smaller, more reliable, more efficient and more affordable than the competition.

And of course, it's also smarter.



MX Series gas heaters set the original genetic code.

It was the push to build an unprecedented level of intelligence and control into the MX gas heaters that created the Genus control system.

The introduction of a sophisticated electronic thermostat, a digital readout, state-of-the-art gas valve and an electronic ignition system gave the MX the precision to control temperatures to within half a degree.

That accuracy allowed the MX to monitor and maintain the desired water temperature without ever overheating or wasting energy. It even allowed for built-in freeze protection.

The large Liquid Crystal Display was designed to be the perfect diagnostic tool providing as much, or as little information as the operator required.

It displays water pressure and thermostat operation, ignition status, actual and set point temperatures. It even helps protect the heater and can be used to run a complete fault analysis if ever necessary.

With all that intelligence built in, using it to provide pool and spa users more convenience and control than ever before was the logical next step.



So now remote control is an option.



Genus is also now able to drive motorised valves that automatically switch from pool to spa, making all the fine adjustments to filter, pump and heater operation along the way. Even the normal operation of pumps and filters has been programmed into the Genus software, along with a number of other pool and spa components. It can even run other heating options.

DX Series heat pumps add a new branch to the family tree.

In some regions gas is unavailable or uneconomical and there, a Genus system will include a DX Series heat pump.

Based on the same technology used in air conditioners and refrigerators, the DX heat pump is amazingly efficient, up to 500% in fact.

It's Co-efficient of Performance, [C.O.P.] indicates that it can produce 4 to 5 kilowatts of heat energy for every single kilowatt of electric power it consumes.

Obviously, such efficiency equates

to very low running costs and with around 26kW of output there's more than enough for most domestic pools.

Build quality is also up to Genus standards. Top and base are corrosion resistant polyethylene, the sides are powder-coated and the heat exchanger is Cupro Nickel. More importantly, the double row evaporator coils provide greater efficiency in a smaller package and the moulded multi-blade fan reduces fan noise to a new minimum.

And naturally, the DX Series benefits from all the genius built into the Genus control system.



Salt chlorinators, waterfalls and pool lights. Diverse technologies, but part of the same gene pool.

- 6** From salt pool to salt pool, the cycle is complete. It's said that we came from the sea and that salt water makes up about 70% of the human body. It's little wonder then that we find salt water the most natural medium to swim in. It's one reason why salt chlorination of swimming pools, which is largely an Australian innovation, is now the accepted standard for pool sanitising. However, it's not the only reason. Control and convenience are also major factors.



Genus control generates chlorine automatically.

Manual dosing of a pool with liquid or granular chlorine can sometimes be haphazard. Over-dosing can cause eye irritation, itchy skin and a strong chlorine odour. So if one product of the Genus range perfectly exemplifies the twin doctrines of control and convenience, it would be the VX Series salt chlorinators. The VX Series salt chlorinators take full control of chlorine dosing, making the process precise and automatic. But, to be accurate, it is not the salt that sanitises a 'salt' pool. Chlorine is still the sanitising agent. The salt, which is in mild solution roughly equivalent to the concentration in a tear drop, is used to generate that chlorine. It does this as it passes through the clear blue cell and between the electrolytic plates. The salt reacts with the electrical current to form chlorine which then kills all contaminants within the pool. The result is pure, crystal clear water and happy, healthy swimmers.

And Genus generates convenience too.

The VX Series not only controls the well-being of your pool automatically, it does the same for itself as well. At intervals determined by the intelligent software program, it will reverse the polarity of its plates. This 'self-cleaning' process clears the plates of any build up, extending the cell's working life and virtually eliminating maintenance. The unique intelligent software which controls the reversal frequency, makes the VX one of the most reliable and longest lasting chlorinators available. From the Touch Pad, chlorine output can be adjusted and operating hours preset.



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So there can be one regime for weekdays and another for weekends, when the pool is more likely to be used. Even super chlorination can be done with the push of a button. All you ever have to do is occasionally top up the salt to the required level. For those with pool and spa combinations Genus and the VX Series are a significant breakthrough.

In the past, switching from the pool to the spa was a complicated and inconvenient exercise. The chlorine output for the pool was

always far too high for a spa but, when the switch was made, the salt chlorinator would simply stop operating, or keep running with no adjustment at all, producing too much or too little chlorine. Now the VX Series and the Genus controller have solved that problem. When the switch is made, they automatically turn down the VX output to the level required by the spa, and all with the push of a single button.



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The Genus family tree will continue to grow.

New technology is driving a rapid move away from mechanically operated pool and spa components to sophisticated electronically controlled products.

At the same time, new and exciting components are being introduced into the pool and spa zone.

With the Genus network in place, these trends will create an ongoing opportunity to continuously expand the network.

Two innovations have already joined the network. They are waterfalls and fibre-optic pool and spa lighting.

Double the fun with fibre optic lighting.

The Genus philosophy is based on maximising the return on the investment in a pool or spa.

Genus heating systems extend the number of days per year a pool can be used and fibre optics and pool lights can be used to extend the number of hours in the day.

A brilliantly lit pool at night is just as enticing and rewarding as a pool in full light of day. Entertaining family or friends around the pool at night is a special experience, and Hurlcon fibre optics and pool and deck lights offer a range of dazzling options. Sidelight cable emits brilliantly coloured light along

its entire length and is often used to trace around the pool edge.

It can change colour, is virtually unbreakable and very energy efficient. It's protected against Ultra violet, algae and fungal attack. There is no electrical current or heat in the cable so it's completely safe.

Endlight cable contains its light until it terminates in a stunning landscape or water feature. It is used in Flexible Spot Lights to highlight trees and gardens. Pathways can be illuminated by Landscape Path Lights placed alongside the path or by Paver lights and the amazing Light Sticks, which can be set in the path itself.

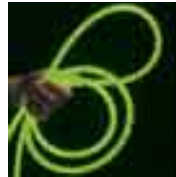
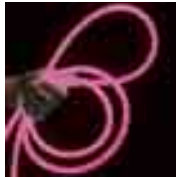
And now, genetically engineered Waterfalls.

Over the years Hurlcon has established its engineering expertise in water heating, sanitising, pumping and filtering. Now that knowledge has given birth to a range of waterfalls.

They complete the pool and spa experience. There is nothing more luxurious and soothing than the sound of tumbling water and few things are more attractive to gaze at. As its name implies, Silkflow creates a wide and stunning ribbon of silky water. Illusion combines that ribbon with fibre optics and Cascade tinkles with mesmerising effect.

Most are available in a wide range of sizes from 300mm to 2400mm.

They are just another way the Genus family creates the perfect total pool and spa experience. The next generation has arrived.



Silkflow

Illusion

Cascade

The Genus family tree covers every application.

Genus aims to make selecting the right components for your pool or spa project as simple as possible. That's why this guide sets out the best combinations to match the size of your pool or spa without the need for you to puzzle over meaningless specifications and jargon. Of course if you want to know exactly how good each component is, detailed and accurate technical sheets are readily available. When selecting components for your pool, there are a few things to bear in mind. And some may surprise you.

Pool Component Guidelines.

The entire volume of water in your pool should pass through the filter at least 1.5 times per day.

This guide is based on taking around 6 hours to filter the entire volume of the pool 1.5 times.

The gas heater sizing is based on raising the water temperature by 13 degrees in less than 24 hours.

The exact requirements of your pool can be affected by a number of factors such as climate, local weather conditions, pool covers, shade, etc.

Spa Component Guidelines.

The entire volume of water in your spa should pass through the filter every 15 minutes.

The number of jets will dictate the size of the pump. As a rule of thumb, each jet requires ¼ hp. Cartridge filters are best for stand alone spas, sand filters are fine on spas that are attached to a swimming pool.

The gas heater is designed to heat the spa in around one hour. Heat Pumps will take a little longer.

Pool Component Selection Guide.

Pool Surface	Pool Volume	Pump	Sand Filter	Cartridge Filter	Salt Chlorinator	Gas Heater	Heat Pump
7m x 3.5m	30000L	TX ¾	RX280	QX75	VX6	MX125	DX120
8m x 4m	38400L	TX ¾	RX280	QX75	VX6	MX150	DX120
9m x 4.5m	48600L	TX1.0	RX360	QX100	VX7	MX200	DX120
10m x 5m	60000L	TX1.5	RX400	QX150	VX9	MX250	DX120
12m x 6m	86400L	TX1.5	RX400	QX200	VX11	MX300	2x DX120
14m x 7m	117600L	TX2.0	RX500	QX200	VX13	MX500	2x DX120
15m x 7.5m	135000L	TX3.0	2x RX400	2x QX150	VX13	MX500	2x DX120



Spa Component Selection Guide.

Spa Volume	Pump	Sand Filter	Cartridge Filter	Salt Chlorinator	Gas Heater	Heat Pump
2000L	TX1.5	RX400	QX150	VX6	MX250	DX120
2300L	TX1.5	RX400	QX150	VX6	MX250	DX120
3200L	TX1.5	RX400	QX150	VX6	MX400	DX120
4800L	TX2.0	RX500	QX200	VX6	MX500	DX120



Hurlcon Pty Ltd

ABN 97 007 284 504

Email sales@hurlcon.com.au

Web www.hurlcon.com.au

Head Office and Production Plant

48 Hanna Street

Noble Park Victoria 3174 Australia

Telephone 03 9701 5166

Facsimile 03 9701 5288

NSW Office

2/21 Foundry Road

Seven Hills NSW 2147

Telephone 02 9674 8544

Facsimile 02 9674 8522

Queensland Office

1/27 Millenium Place

Tingalpa QLD 4173

Telephone 07 3393 3233

Facsimile 07 3393 3255

South Australian Office

157 William Street

Beverly SA 5009

Telephone 08 8345 5755

Facsimile 08 8345 5211

West Australian Office

5/160 Balcatta Rd

Balcatta WA 6021

Telephone 08 9240 5600

Facsimile 08 9240 4333