insnrg

Pool & Spa Equipment Catalogue

insnrg

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inTouch Automation

Pool and Spas have evolved and can be complicated.   The expectation of today's pool owner is that the automation included with their pool allows everything to be operated intuitively and by the touch of a button. We know it's never quite that simple however, Insnrg's inTouch automation focuses on making three key areas as simple as possible.

- Installation – Set the whole system up from your phone or Smart Device. Assign outlets, valves, temperature sensors, then set up timer periods, chlorine and pH, pretty much anything required is completed by the App. With more features than any other system, the inTouch App makes owning a pool and spa fun.

- Operation – so intuitive and stable, the inTouch app is easily set up and allows the new pool owner complete control of their pool with minimal training

- Ongoing maintenance – the Business User access allows real time information, scheduled system reports to check on the status of all parts of the filtration, heating, and chlorination system
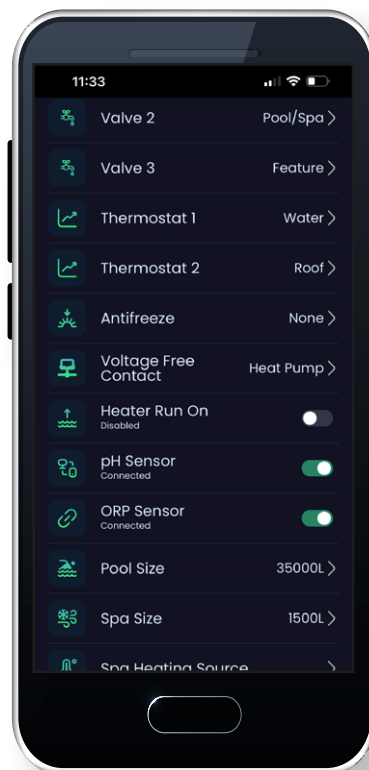
Set the whole system up from your phone, tablet or computer.
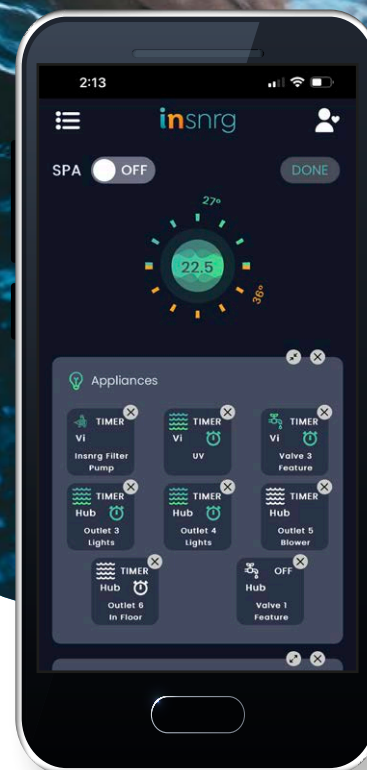
Editable home screen, hide unused icons or make other appliances front and centre. Set favourites and appliance rules that ensures the correct combination of appliances work at the same time.
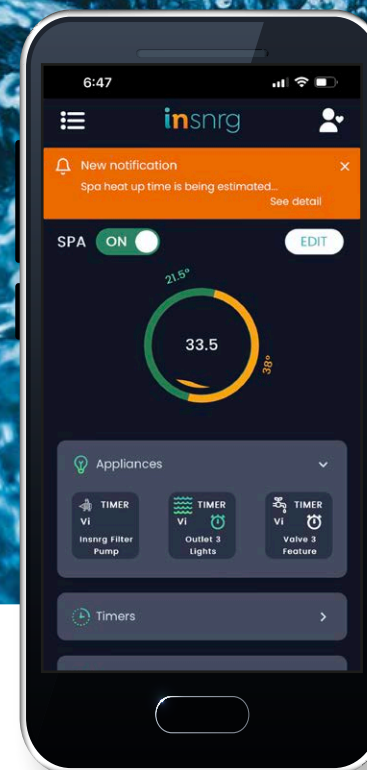
Turn the Spa ON and inTouch will calculate the heat up time.
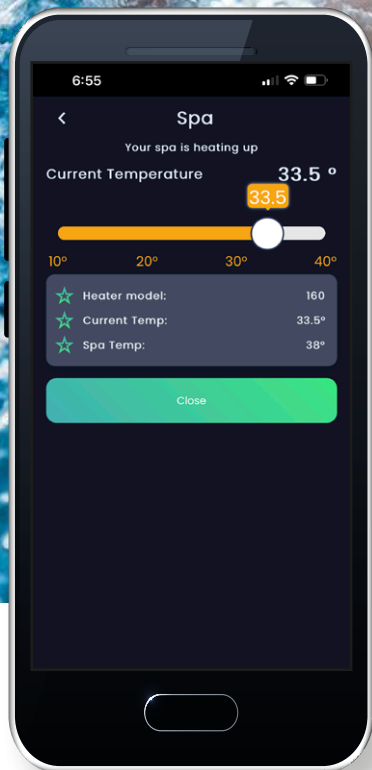
Watch the progress of the Spa Heating.
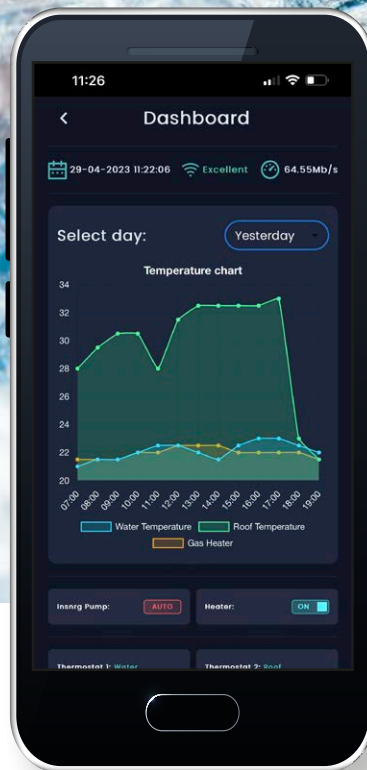
inTouch Dashboard graphs water temperature, roof temperature, displays system status and even tells the owner when service is required.
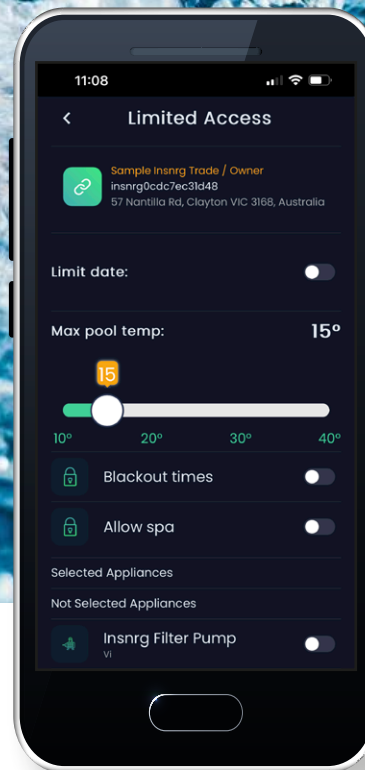
Guest Access allows the pool owner to share the pool with guests, tenants and friends with limited access by:

• Start and end date

• Maximum Temperatures

• Blackout time to prevent late night parties

• Exclude appliances that shouldn't be played with
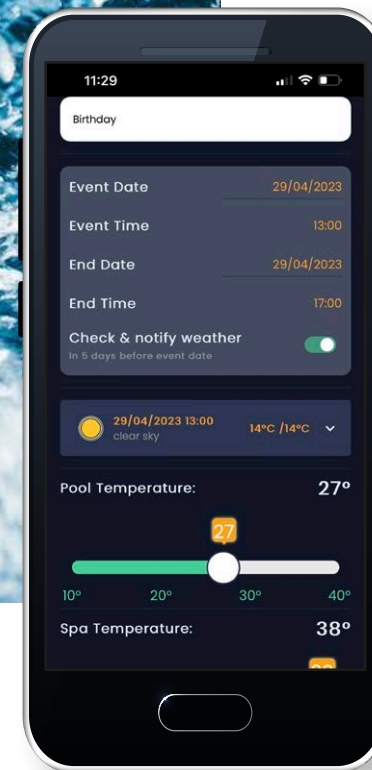
Plan an event and pre plan spa and pool temperatures, what appliances are ON and when the event finishes.

inTouch will automatically calculate when to start heating to reach the perfect temperature at exactly the right time.

Qi Variable Speed Pump

The Filter pump is the heart of your pool and spa system. Operating 8 or more hours a day, 365 days a year, there are few appliances that work as hard. The Qi Variable Speed Pump has been designed to do all this with the following features:

- Silence – the Qi is one of the quietest pumps on the market
- Low energy consumption – efficient electronic control and motor design minimises your power consumption and carbon footprint
- Made to last – heavy duty components for years of service

› **FULLY VARIABLE SPEED**
Tailored performance for best filtration and lowest operating costs

› **QUIET**
Low noise, inoffensive sound, one of the quietest pool pumps

› **DURABLE**
Built to last

› **WARRANTY GUIDE**
3 Years, 1 year Mechanical Seal

SPECIFICATIONS

MODEL	Qi 1100				Qi 1800			
SPEED	i	ii	iii	iv	i	ii	iii	iv
VOLTS	230	230	230	230	230	230	230	230
RPM	1275	1500	2000	2850	1275	1500	2000	2850
INPUT WATTS (W)	141	214	472	1050	251	382	840	1870
FLOW RATE (lpm)	148	174	232	330	268	316	421	600
FLOW RATE (gpm)	39	46	61	87	71	83	111	158
HEAD (m)	1.6	2.2	3.9	8	1.6	2.2	3.9	8
CURRENT (Amps)	1.0	1.5	3.3	7.5	1.7	2.7	5.8	8.5

PRODUCT INFORMATION

CODE	MODEL
243021	Qi 1100
243022	Qi 1800

Qi 1100 PUMP – FLOW CHART
900RPM — 1125 RPM — 1700 RPM — MAX SPEED

HEAD (M) / LPM

Qi 1800 PUMP – FLOW CHART
900RPM — 1125 RPM — 1700 RPM — MAX SPEED

HEAD (M) / LPM

371mm (14.6in)
331mm (13.0in)
733mm (28.9in)
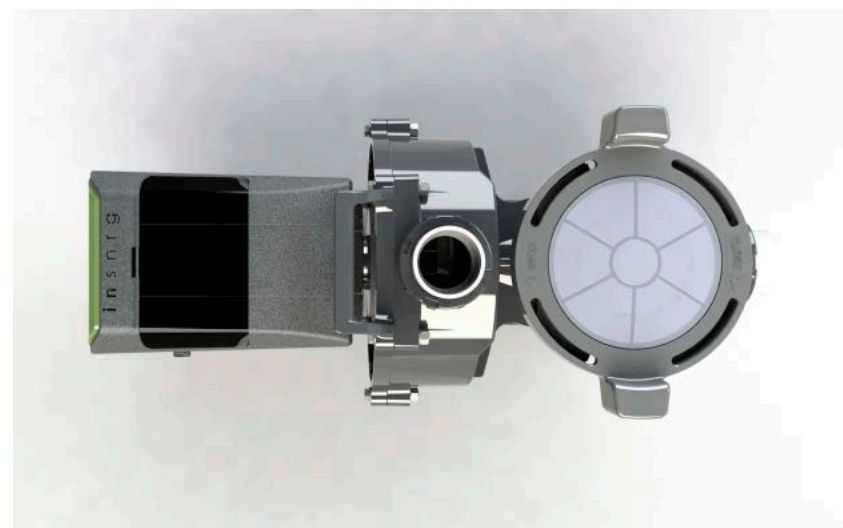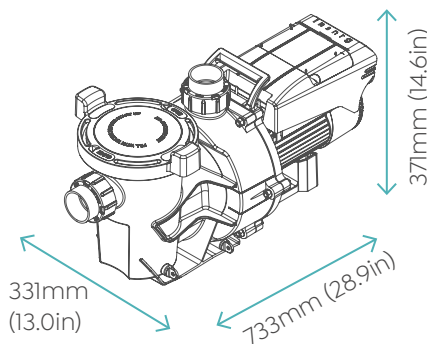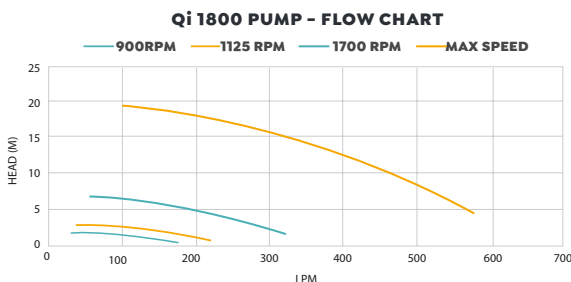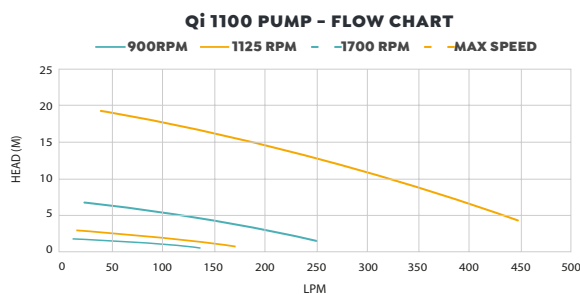
Why variable speed?

Flexible and versatile, the variable speed pump can be set for the ideal filtration flow rate, often a much lower flow than what is required for cleaning your filter or vacuuming your pool. Lowering your filtration flow rates dramatically reduces the water pressure and operating costs. A reduction in speed by 30% will reduce your water flow by 30%, ideal for sand or glass filters, but reduce the system pressure by 50%. Even better this 30% reduction in speed will reduce the power consumption by around 75%.

- Select ideal flow for filtration and skimming of pool surface area
- Lower system pressure and extend life of other components
- Reduce your power consumption by up to 85%
- Environmentally friendly, lowers carbon emissions by up to 85%
- Reduced noise pollution, set to run extended hours while whisper quiet
- Flexible, increase speed for spa jet operation, water features or pool cleaners
- Set ideal flow for heat pump or gas heater operation

DESIGN & ENGINEERING

- Intelligently designed motor and controller air cooling minimises component temperature rise, even on the hottest of days.
- Heavy duty engineering plastics minimises damage from impact, transport and during installation.
- Electronic hardware and firmware design produces smooth and quiet motor operation while allowing full inverter control
- Ramp on lock ring enables fast lid removal and reassembly to clean leaves and debris out of basket
- The basket is large and robust reducing cleaning and cannot be accidently put in the wrong way.
- Inlet weir enables fast, efficient priming without affecting the flow rate or pump performance.
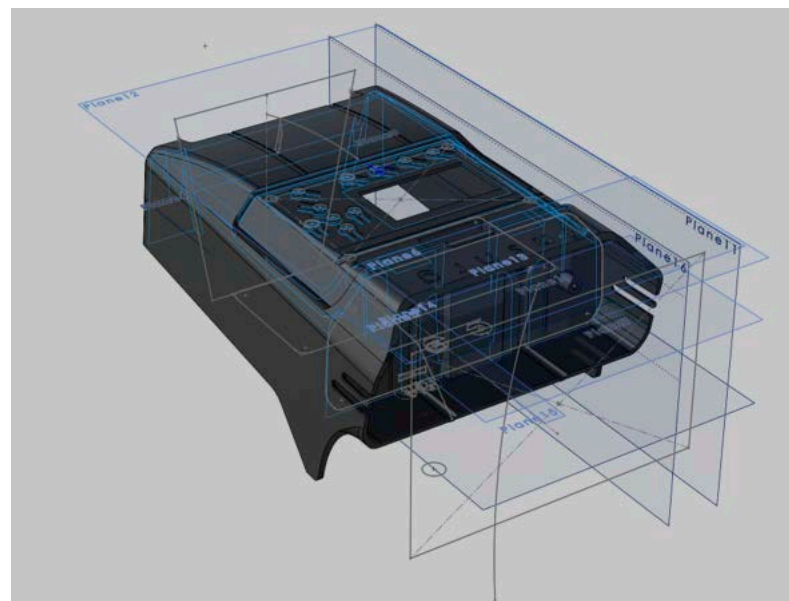
Si Pool and Spa Pump

The Si Pool and Spa Pump is available in a range of sizes with the ideal flow rate for your application. The unique design includes an internal weir to provide exceptional priming performance and a moulded handle to assist in installation. The high quality components are specified to withstand the harshest environmental conditions and provide high performance resulting in a long lifespan.

> **POWERFUL OPERATION, YET QUIET**
> Unique design resulting in high flow rates and quiet operation

> **DURABLE**
> Built to withstand the harshest environmental conditions

> **POWER PRIME**
> Unique internal weir design minimise wear on moving parts

> **WARRANTY GUIDE**
> 3 Years, 1 year mechanical seal
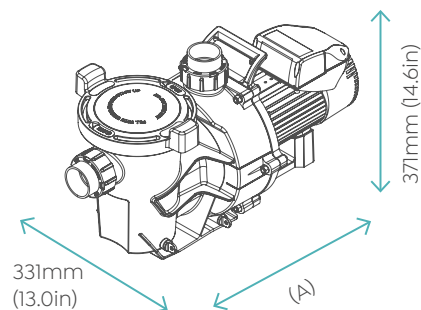
SPECIFICATIONS

MODEL	Si 200	Si 300	Si 400	Si 500
VOLTS	230	230	230	230
INPUT WATTS (W)	800	1050	1600	1900
FLOW RATE (lpm) (@ 8m/h)	200	300	400	500
FLOW RATE (gpm) (@ 8 m/h)	53	80	106	133
FULL LOAD AMPS	4.5	5.3	6.5	8.3
"A" (mm/in)	660/26	660/26	690/28	720/29

PRODUCT INFORMATION

CODE	MODEL
243030	Si 200
243031	Si 300
243032	Si 400
243033	Si 500

Si PUMP – FLOW CHART

— Si 200   — Si 300   — Si 400   — Si 500

371mm (14.6in)

331mm (13.0in)

(A)
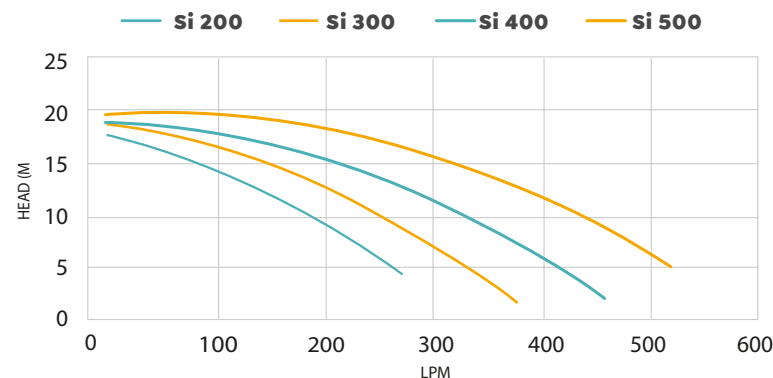
Ci Cartridge Filter

The Ci Cartridge Filter is a single element filter available in 4 sizes to ideally suit any pool demand. The quality of the elements has been carefully researched and chosen to the highest standards to ensure long-life and fine filtration.

The unique single piece tank that also includes an internal weir results in optimum water flow and reliability due to no glue joints.

> DURABLE

Single piece moulded tank made from reinforced materials

> LOW MAINTENANCE

Unique internal weir design extends life and minimises cleaning

> EASY TO USE

Large handles and convenient lock ring

> WARRANTY GUIDE

5 years Tank, 1 year Element

SPECIFICATIONS

MODEL	Ci 100	Ci 150	Ci 200	Ci 250
Filtration Area (m²)	9.3	13.9	18.6	23.2
Filtration Area (ft²)	100	150	200	250
Max Flow Rate (lpm)	380	500	600	600
Max Flow Rate (gpm)	100	130	158	158
Turnover Capacity 8 Hours (Litres)	182,400	240,000	288,000	288,000
Turnover Capacity 8 Hours (Gallons)	48,000	62,400	76,000	76,000

PRODUCT INFORMATION

CODE	MODEL
163201	Ci 100
163202	Ci 150
163203	Ci 200
163204	Ci 250

Ci 200 and Ci 250

290mm (12in) Minimum Vertical Clearance

Ci 100 and Ci 150

290mm (12in) Minimum Vertical Clearance

938mm (37in)

383mm (15in)

738mm (29in)

436mm (17in)

436mm (17in)
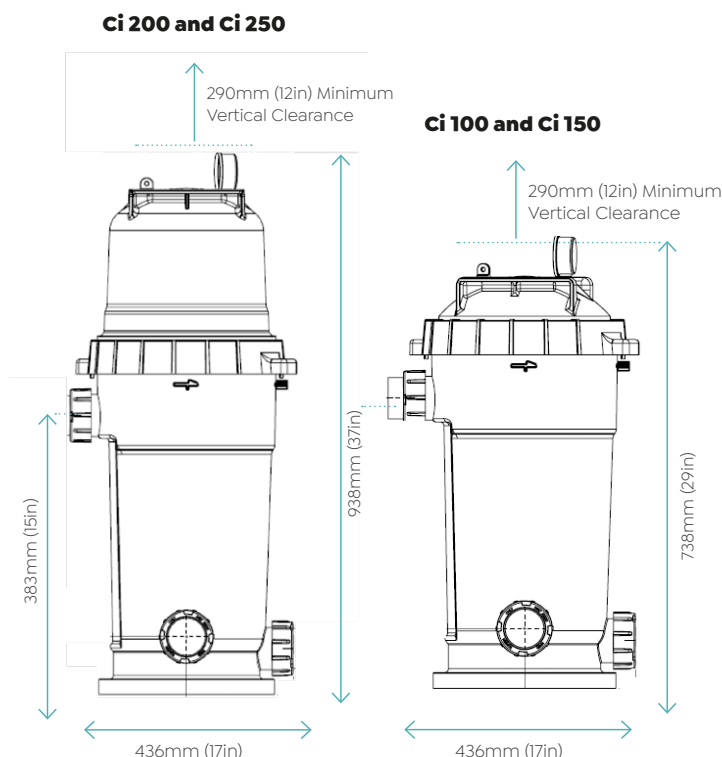
UF Ultra Fine Filter

The UF Filter removes the finest of particles from your pool water creating the clearest, safest water in which to swim. Using Perlite to coat the filter element, particles as small as 1 micron are filtered out of the pool. At this size, the UF filter is 20 to 30 times more effective than a glass or sand filter and 15 times more effective than a conventional Cartridge Filter.

Removing the ultra fine organic material from your pool helps prevent algae growth and other transmittable pathogens by removing the food that they need to multiply. The consequence is lower chlorine consumption, less balancing chemicals and a lower cost to operate.

Perlite is a naturally formed and mined volcanic glass media and is graded to ensure the correct size perlite particles are used for your pool filtration system. To use Perlite, Mix 1.5 kgs of perlite in a bucket of water and slowly pour into your pool skimmer while the pump is running after the filter has been cleaned. Generally this process should take place every 3 months – depending on the pool usage and environmental factors such as dust and leaves.

> **ULTRA FINE**
> filters down to <3 micron

> **UNIQUE WEIR**
> extends life of filter element and distributes Perlite evenly

> **WARRANTY GUIDE**
> 5 years Tank, 1 year Element

SPECIFICATIONS

MODEL	UF 350
Element Size	3.5 m2
Perlite Required	1.5 kg
Max Flow Rate (lpm)	300
Turnover Capacity 8 Hours (Litres)	144,000
Max Pool Size	72,000
AusPearl Perlite	10 kg

PRODUCT INFORMATION

CODE	MODEL
163215	UF 350

UF 350

290mm (12in) Minimum Vertical Clearance

938mm (37in)

383mm (15in)

436mm (17in)
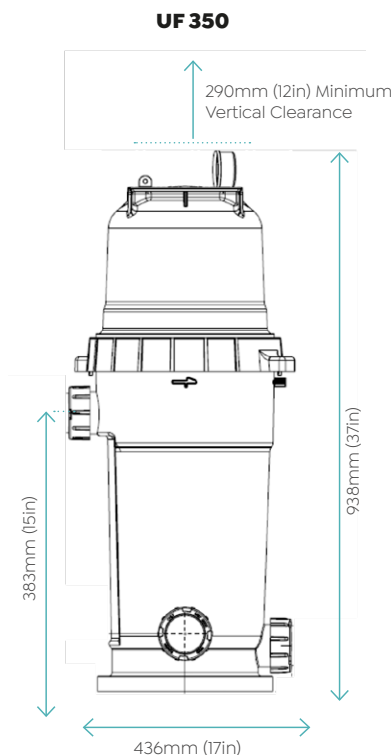
Li & Di Filter

The larger the filtration area, the longer time between cleaning. The Li Cartridge Filter range has four elements that potentially requires cleaning only once a year (depending on the size and use of the swimming pool). The high quality, durable tank ensures longevity even in the harshest environmental conditions.

For exceptional water clarity, the Di filter can be purchased and used with Diatomaceous Earth (DE) or Perlite to filter the finest of debris from the water. This results in the safest and healthiest swimming water.

> **SAVES WATER**
> Reduced cleaning saves up to 7,000 litres of water a year

> **SAVES ENERGY**
> Low pressure drop enables more water flow and reduced pump operating hours

> **GREAT QUALITY WATER**
> Filters smaller particles than conventional filters

> **WARRANTY GUIDE**
> 5 years Tank, 1 year Element

260mm (11in) Minimum Vertical Clearance

1143mm (45in)

394mm (16in)

554mm (22in)
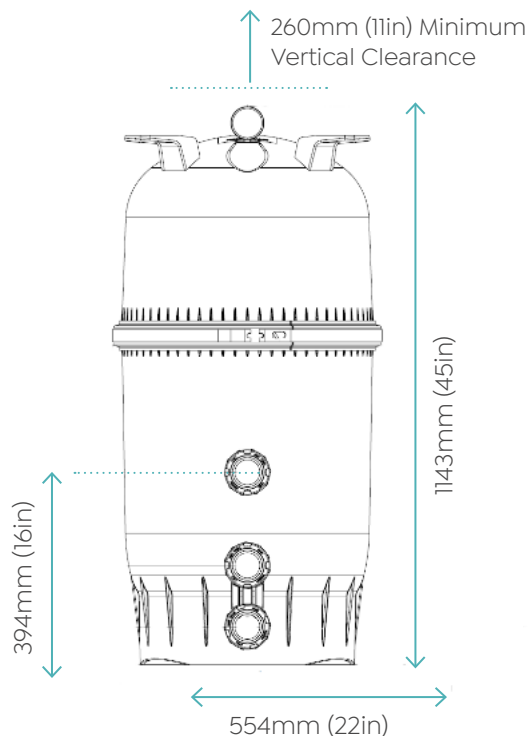
Di Filter Backwash Kit
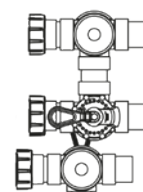
SPECIFICATIONS

MODEL	Li 420	Li 540	Di 80
Filtration Area (m²)	39.0	50.1	7.4
Filtration Area (ft²)	420	540	80
Max Flow Rate (lpm)	600	600	600
Max Flow Rate (gpm)	158	158	158
Turnover Capacity 8 Hours (Litres)	288,000	288,000	288,000
Turnover Capacity 8 Hours (Gallons)	76,000	76,000	76,000

PRODUCT INFORMATION

CODE	MODEL
163301	Li 420
163302	Li 540
173301	Di 80
173320	Di Filter Backwash Kit

Mi Sand Filter

The Mi Sand Filter is available in four models to perfectly match your pool and/or pump size. With a maximum operating pressure of 400 kPa, the single piece moulded tank provides exceptional strength to withstand harsh environmental conditions. The easy to use Multiport Valve (MPV) has lasered writing to eliminate issues with labels detaching and losing control.

The Mi tank is suitable for any filter media of your choice, including Sand, Glass, Beads or Zeolite.

> **LOW MAINTENANCE**
> Easy to operate Multiport Control Valve for fast and easy cleaning

> **DURABLE**
> Single piece moulded tank offers maximum strength

> **SUITABLE FOR ALL FILTRATION MEDIA**
> Able to use preferred media option for your pool

> **WARRANTY GUIDE**
> 10 years Tank,
> 1 year MPV and Labour
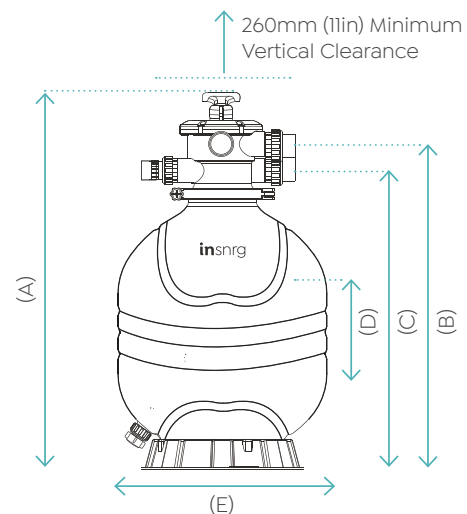
SPECIFICATIONS

MODEL	Mi 250	Mi 320	Mi 350	Mi 400	Mi 500
A (mm)	980	1,032	1,133	1,178	1250
B (mm)	860	873	976	1,021	1093
C (mm)	800	807	910	955	102
D (mm)	280	280	300	370	440
E (mm)	600	600	700	795	890

PERFORMANCE CHART

	Mi 250	Mi 320	Mi 350	Mi 400	Mi 500
Filtration Area (m²)	0.28	0.28	0.36	0.47	0.62
Max Flow Rate (lpm)	250	320	350	400	500
Turnover Capacity – 8 Hours (Litres)	120,000	153,600	168,000	192,000	240,000
Sand Required (16/30) grade	120	120	180	240	300
20kg Bags of Glass Media Course/fine	2/4	2/4	3/6	4/8	5/10

260mm (11in) Minimum Vertical Clearance

(A)
(B)
(C)
(D)
(E)

PRODUCT INFORMATION

CODE	MODEL
202501	Mi 250 (c/w 40mm MPV)
202601	Mi 320 (c/w 50mm MPV)
202701	Mi 350 (c/w 50mm MPV)
203001	Mi 400 (c/w 50mm MPV)
203003	Mi 500 (c/w 50mm MPV)

Ni Chlorinators

Chlorinators are the choice of sanitising for most pool owners. Chlorine is a safe and reliable way to kill the bacteria and algae in your pool. So safe in fact, it is used to disinfect your drinking water and Australia has some of the purest and best tasting drinking water in the world. The Ni Chlorinator range comes in three sizes to match your water volume and bather load.

The unique design of the chlorinator cell matches ideally with variable speed pumps and can operate at lower speed levels. The reverse polarity cell reduces the maintenance by cleaning itself and almost eliminating regular maintenance on the electrodes.

Four timer periods per day can be set from the digital timeclock giving you the flexibility to chlorinate and filter your pool when the bather load is highest.

> **UNIQUE CELL DESIGN**

Designed for todays variable speed pumps

> **HIGH EFFICIENCY**

Allows lower salt levels for fresh clean swimming water

> **SUITABLE FOR SALT OR MINERALS**

Able to use preferred option for your pool

> **WARRANTY GUIDE**

3 years

SPECIFICATIONS

MODEL	Ni 20		Ni 25		Ni 40	
OUTPUT (g/hr)	20		25		40	
	RECOMMENDED MAXIMUM POOL VOLUME					
	Litres	**Gallon**	**Litres**	**Gallon**	**Litres**	**Gallon**
TROPICAL (Ave 20°C/68°F)	30,000	7,900	45000	12000	70000	19000
TEMPERATE (Ave 15°C/60°F)	40,000	11000	55000	18,500	80000	21000

*Based on 8 – 12 hours per day pump operation, correct water balance

PRODUCT INFORMATION

CODE	MODEL
133350	Ni 20
133351	Ni 25
133352	Ni 40

143mm (5.6in)

228mm (9.0in)

228mm (9.0in)

313mm (12.3in)

313mm (12.3in)

285mm (11.2in)

134mm (5.3in)
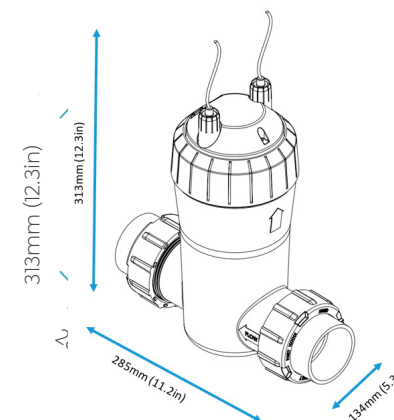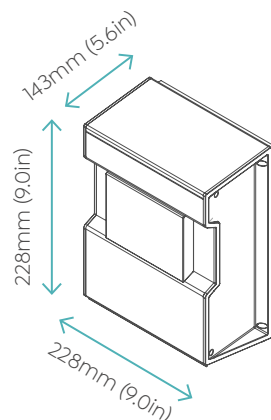
Vi Combined Automation & Chlorination

The Vi combined automation and chlorination system is the perfect product for the pool owner who wants full control of their pool water and equipment. The Vi comes complete with pH and Chlorine sensors that fit neatly into the unique cell housing and continuously measure these important values to provide the best pool water. The in-built Acid Pump will automatically dose the correct amount of Acid depending on the level measured by the pH sensor. The chlorinator cell will function only when chlorine is required eliminating high chlorine levels.

The Vi Premium Chlorinator also comes with additional GPO sockets allows you to control other pool equipment and when connected to the (optional) inTouch Wi-Fi Portal allows complete control of your pool, lights, water chemistry from the inTouch App.   Monitor and graph your water temperature, roof temperature, automatically start your spa heating or plan the perfect water temperature for your next pool party.

Three motorised valve sockets automatically redirect water to required appliances, temperature sensor sockets for heating and solar control and a voltage free contact to control your heat pump or gas heater*.

> ### UNIQUE CELL DESIGN
> Highly efficient, patented design for high output and lower salt levels

> ### CHEMICAL SAVINGS
> pH and Chlorine monitoring minimises additional chemical purchases

> ### SUITABLE FOR SALT OR MINERALS
> Able to use preferred option for your pool

> ### WARRANTY GUIDE
> 3 years, 1 year Acid Dosing tubes and chlorine/pH sensors
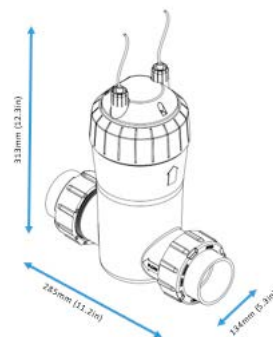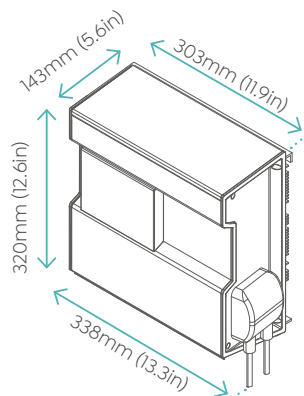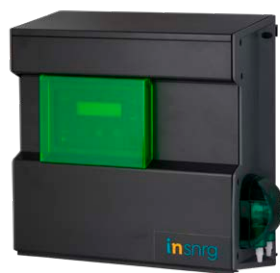
SPECIFICATIONS

MODEL	Vi 25		Vi 40	
OUTPUT (g/hr)	25		40	
	RECOMMENDED MAXIMUM POOL VOLUME			
	Litres	Gallon	Litres	Gallon
TROPICAL (Ave 20°C/68°F)	50,000	13,200	80,000	21,100
TEMPERATE (Ave 15°C/60°F)	70,000	18,500	110,000	29,000

* inTouch Portal, Motorised valves, temperature sensors, additional heating are optional extras.

PRODUCT INFORMATION

CODE	MODEL
133451	Vi 25 (10 amp)
133452	Vi 40 (10 amp)
133551	Vi 25 (15 amp)
133552	Vi 40 (15 amp)

143mm (5.6in) 303mm (11.9in) 320mm (12.6in) 338mm (13.3in)

313mm (12.3in) 285mm (11.2in) 134mm (5.3in)

AUTOMATION

inTouch Automation

inTouch Portal

The inTouch Portal can be connected to any Vi Premium Chlorinator, Ri Automatic Doser or inTouch Expansion Box. This will allow control of these units on the inTouch App. Once connected you can operate this equipment from the backyard or anywhere with access to data from your smart phone or device.

Expansion Relay Hub

The Relay Hub can be used as a stand alone controller, with 4 x switched GPOs and 2 x unswitched GPOs, 4 x valve actuator sockets, 3 x Voltage free contact outlets for control of heat pumps and gas heaters plus water and roof sensors. Or Data Cable to Vi Chlorinator for control of up to 9 appliances, 7 actuators, and multiple heaters.

Valves

Insnrg 2 and 3 way 50mm valves and non return valve are made from high temperature CPVC for stability under heat, teflon seal for smooth operation and are provided with stoppers for manual operation. Suitable industry standard actuators.

PRODUCT INFORMATION

CODE	MODEL
113102	inTouch Portal (c/w 3m Data Cable)
113101	inTouch Expansion Relay Hub
2101921	Motorised Actuator
2101925	Intellivalve Actuator
253221	CPVC Telfon 50mm 2 Way Valve
253331	CPVC Teflon 50mm 3 Way Valve
253335	Non Return Valve CPVC 50mm
113201	Temp Sensor Roof 20 m
113211	Temp Sensor Pool 2.5m
16101511	Comms Cable Chlorinator to Pump 3m
21101511	Comms Data Cable 3m
21101512	Comms Data Cable 10 m
1910511	VF contact lead 5m

> **SMART AUTOMATION**
> Control and monitor your pool from wherever you are

> **SMART APP**
> Intuitive control over all your pools features

> **SMART YOU**
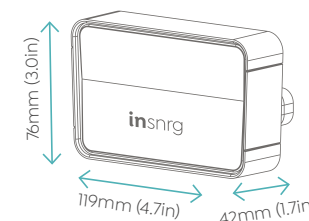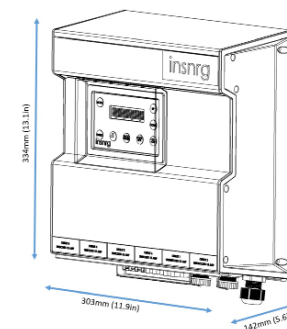> Minimises maintenance and maximises pool pleasure

> **WARRANTY GUIDE**
> 1 year

inTouch Relay Hub

The inTouch Relay Hub can be installed as stand alone automation system or added to the Vi Chlorinator to control additional appliances, actuated valves, temperature sensors along with pool & spa heaters.

Ri Automatic Dosing

For the purest swimming water, install the Ri Automatic Chemical Doser. To maintain ideal swimming water it is important to track and maintain your pH and Chlorine levels. The Ri Automatic Chemical Doser does this with a sophisticated probe and dosing system. No need to manually add chemicals to your pool, the Ri does it for you.

The Ri Automatic Doser takes your pool control to the next level. Not only will your pool water be always ready to swim, the Ri comes complete with additional functions which monitor and integrate with other Insnrg pool equipment.

The Ri also provides complete automation of your pool and spa system for total control. Additional GPOs, motorised valve sockets, temperature sensor sockets, contact for control of heating enable the Ri to be the heart of your pool and spa automation system*.

> **PH & ORP SENSORS**
> Unique design with reliable and affordable sensors to maintain ideal levels on key parameters

> **INTEGRATE WITH INTOUCH PORTAL**
> Provides full remote monitoring and control of all functionality from your smart phone

> **WARRANTY GUIDE**
> 3 years Powerpack,
> 1 year Dosing and Probes

SPECIFICATIONS

MODEL	Ri 335	
OUTPUT (ml/min)	335 ml	
RECOMMENDED MAXIMUM POOL VOLUME*		
	Chlorine	Acid
TROPICAL (Ave 20°C/68°F)	100,000	100,000
Max Pressure (Vacuum)	80 kPa	
Max Pressure (Output)	350 kPa	

*Based on 8 hour per day operation of filtration pump.

PRODUCT INFORMATION

CODE	MODEL
133651	Ri 335

*Motorised valves, heating appliance, temperature sensors are optional extras.
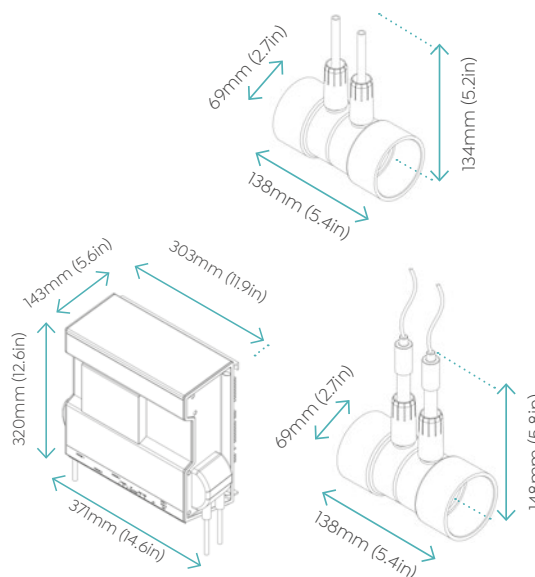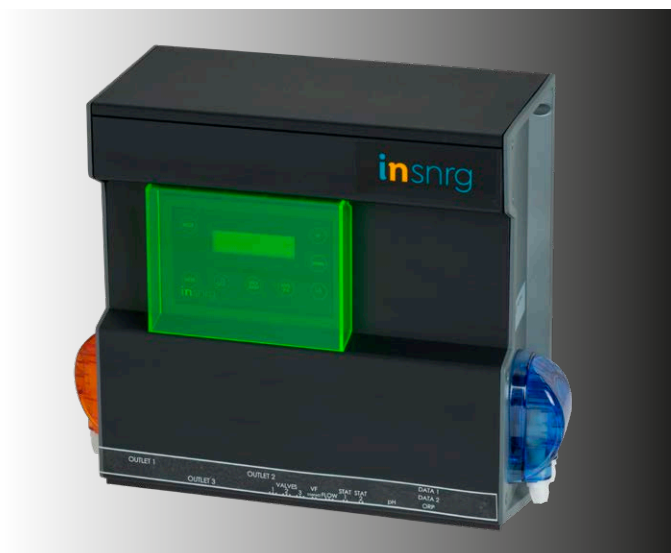
Ui UVC Pool Sanitiser

The most effective pool water steriliser you can give to your family. For the healthiest water consider Insnrg's Ui UVC Pool Sanitiser. UV sterilisation is the environmentally friendly way to kill 99.9% of all germs and algae present in your pool or spa water.   Your pool and spa water will always need a residual sanitiser in the water as some of the steriliser needs to be present in the body of the water to deal with organic matter that can enter the pool. Chlorine is the most widely used steriliser but imagine if you can lower your chlorine level by up to 80%. The Ui UVC Pool Sanitiser virtually eliminates all pathogens by destroying their DNA as the water passes the UV lamp leaving very low levels of chlorine or other residual sanitisers to deal with any influx of organic debris into the pool.

> **UNIQUE 2 PASS DESIGN**
> Compact footprint and designed for water to stay in contact with UV twice as long as conventional UV devices, also using less power.

> **KILLS 99.9% OF PATHOGENS AT DNA LEVEL**
> Healthy and safe swimming water, eliminates 'chlorine smell'

> **80% REDUCTION IN CHLORINE DEMAND**
> Less chlorine and low impact on other critical parameters such as pH

> **WARRANTY GUIDE**
> 2 years powerpack, 1 year UV Globe

SPECIFICATIONS

POWER SUPPLY	110 – 240 VAC 50/60 hz
LENGTH "A"	285mm
HEIGHT" B"	545 mm
WIDTH" C"	134 mm
POWER CONSUMPTION	55W
FLOW RATE (lpm)	100 – 300
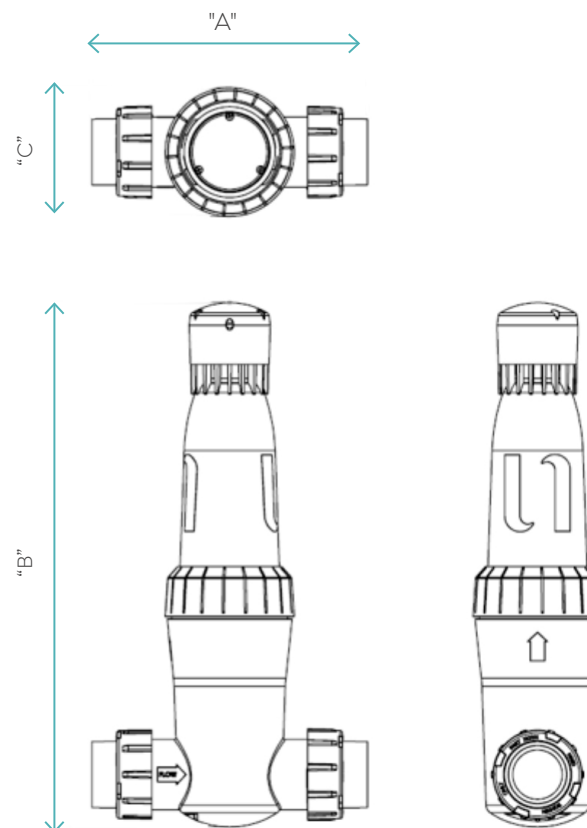
PRODUCT INFORMATION

CODE	MODEL
26307	Ui UVC Pool Sanitiser

Gi Gas Heater

The most dependable way to heat your swimming pool in any conditions at any time of the year is by a Gas Heater. The Gi Gas Heater has been carefully designed and manufactured to provide the most efficient way to heat your pool water. The high quality components ensure durability, reliability and reduce heat-up times whilst using less gas supply.

The compact size and lower clearances reduces the footprint of each heater to save your valuable backyard space.

Available in Natural or LPG gas units and also able to be flued for Indoor use, the Gi range is your go to choice for pool heating.

> **HIGH EFFICIENCY**
> Quicker heat-up time and lower gas usage

> **ON DEMAND SWIMMING**
> Fast heating gives you the choice of when you swim

> **COMPACT SIZE**
> Smaller footprint saves your valuable real estate space

> **WARRANTY GUIDE**
> 3 years Cabinet,
> 2 years combustion chamber,
> 1 year electrical components
> Refer IOM for full warranty details

SPECIFICATIONS

MODEL	Gi 160	Gi 265	Gi 420
INPUT (MJ/h)	150	260	400
OUTPUT (kW/h)	35	59	89
EFFICIENCY	82%	82%	82%
LEFT OR RIGHT HAND WATER CONNECTIONS	YES	YES	YES
WIDTH 'A' (mm)	495	605	765
WIDTH 'A' (in)	19.5	23.8	30.1

606mm (23.9in)
605mm (23.8in)
(A)
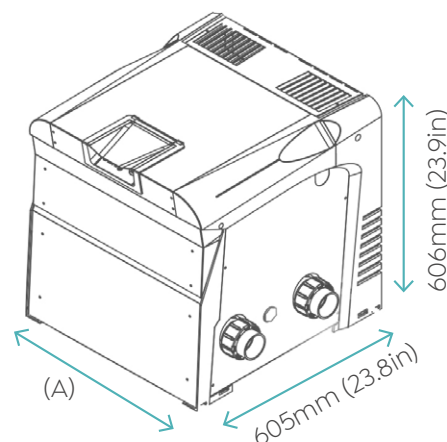
PRODUCT INFORMATION

CODE	MODEL
21315	Gi 160
21325	Gi 265
21340	Gi 420
2130100	Gas Flue Kit (4m pipe, cowl, 900mm gal sleeve 125mm clamp)
2130101	Gas Flex Flue 125mm x 4m
211016009	Flow Switch (50mm - 3m Cable)

G9- Hi Efficiency Gas Heater

High efficiency condensing gas pool heater with advanced control features. UP to 95% net efficiency, the G9 gas heater reduces your gas consumption and energy costs.   An inbuilt condensate pump safely removes condensate from your plant room.

The advanced double row heat exchanger and internal thermostatic bi pass valve regulate the water flow and temperature to maximise the heat transfer from the advanced continuous woven ceramic fibre burner.

When integrated with Insnrg's Vi Automation system, control your pool and spa temperatures remotely and even plan ahead for your weekend pool or spa party.

> **HIGHEST EFFICIENCY**
> Cuts heating costs by up to 15% over conventional heaters

> **ON DEMAND SWIMMING**
> Fast heating gives you the choice of when you swim

> **COMPACT SIZE**
> Smaller footprint saves your valuable real estate space

> **WARRANTY GUIDE**
> 3 years Cabinet,
> 2 years combustion chamber,
> 1 year electrical components
> Refer IOM for full warranty details

SPECIFICATIONS

MODEL	Gi3 160 MAX	Gi3 265 MAX	Gi3 420 MAX
INPUT (MJ/h)	140	230	370
OUTPUT (kW/h)	38	63	90
EFFICIENCY	>90%	>90%	>90%
LEFT OR RIGHT HAND WATER CONNECTIONS	YES	YES	YES
WIDTH 'A' (mm)	495	605	765
WIDTH 'A' (in)	19.5	23.8	30.1

606mm (23.9in)

605mm (23.8in)

(A)
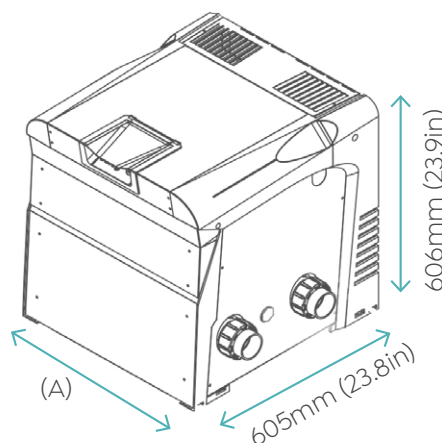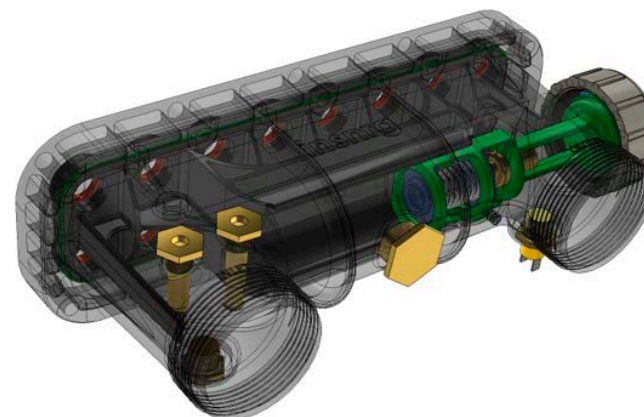
PRODUCT INFORMATION

CODE	MODEL
21316	G9 160 Max
21326	G9 265 Max
21346	G9 420 Max
2130100	Gas Flue Kit (4m pipe, cowl, 900mm gal sleeve 125mm clamp)
2130101	Gas Flex Flue 125mm x 4m
211016009	Flow Switch (50mm - 3m Cable)
13499	Condensate tube ext (metre)
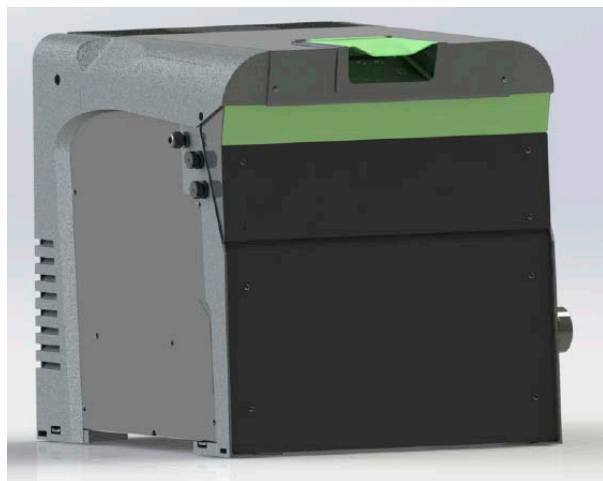
Hi Inverter Heat Pump

Heat Pumps are the most energy efficient way to heat your swimming pool water. They gain the majority of the energy from the outside air which is collected by the evaporative coils and transferred through the Mitsubishi compressor to the pool water. The Hi range of Heat Pumps come complete with the latest Inverter technology which significantly reduces energy consumption by adjusting motor speed according to water temperature. The whisper quiet operation due to the DC fan motor ensures that you can operate whenever you want to maintain your pool water temperature level.

The five sizes in the range provide the perfect choice for any pool size and application from extending your swimming season to swimming all year round.

> **LATEST INVERTER® TECHNOLOGY**
> Quieter, more efficient, lower heating costs

> **HIGH EFFICIENCY**
> Uses the energy from the sun to heat your pool

> **QUIET**
> DC fan motor and inverter compressor minimises noise and optimises heating

> **WARRANTY GUIDE**
> 10 years Heat Exchanger, 2 years components

PRODUCT INFORMATION

CODE	MODEL
19320	Hi 35
19322	Hi 55
19324	Hi 72
19328	Hi 96
19330	Hi 120T

SPECIFICATIONS

MODEL	Hi 35	Hi 55	Hi 72	Hi 96	Hi 120T
"A" (mm)	620	660	660	775	775
"B" (mm)	910	1000	1000	1130	1130
"C" (mm)	355	400	400	445	445
Working Air Temp (°C)	–10 to 43				
Performance Condition: Air 26°C, Water 26°C, Humidity 80%					
Heating capacity (kW)	1.8–9.1	3.5–15.1	4.3–18.0	4.7–25.1	4.8–30.0
COP	13.5–6.0	13.5–6.0	13.0–6.1	13.5–5.9	13.2–5.8
Performance Condition: Air 15°C, Water 26°C, Humidity 70%					
Heating capacity (kW)	1.8–9.1	3.5–15.1	4.3–18.0	4.7–25.1	4.2–19.3
COP	13.5–6.0	13.5–6.0	13.0–6.1	13.5–5.9	7.5–4.6
Max Power Input (kW)	1.75	3.2	3.9	4.5	5.4
Max Current Input (A)	7.95	14.5	17.7	19.5	10.2/Ph
Power Supply	230V / 1Ph / 50Hz				415V / 3Ph / 50Hz
Min Water Flow (1pm)	70	110	130	180	200
Sound Pressure 1m dB(A)	33.0–46.0	34.0–48.0	34.0–48.0	35.0–55.0	36.0–55.0
Net Weight (kg)	37	46	46	73	73
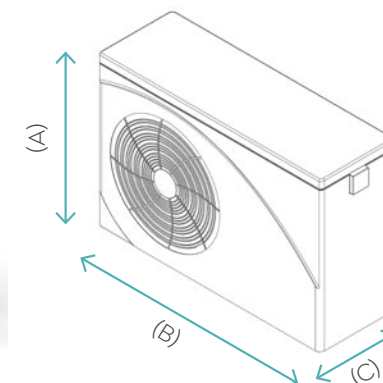
Common Spare Parts

CODE	DESCRIPTION	QTY
16C20602001	O ring Lid Ci Cartridge Filter	1
15101603000	O ring Union Assembly	1
10C01405001	Union Tail PVC 50mm White	1
21C01400001	Lock Nut Union 50mm	1
16120401002	Small Lid (100-150 Filters)	1
16120401003	Large Lid (200-250 Filters)	1
16101400001	Air bleed cartridge Filter Ci/Li	1
10101512001	Pressure Gauge	1
16C01602010	O ring air bleed pump drain	1
16120001	Filter Element (100 Sq. Ft.)	1
16129992	Filter Element (150 Sq. Ft.)	1
16120003	Filter Element (200 Sq. Ft.)	1
16120004	Filter Element (250 Sq. Ft)	1
24101400001	Drain valve plug Pump	1

KITS CODE	DESCRIPTION	CONTENTS	QTY
Chlorinator			
1323024	Xi Cell		1
13235025	Ni 25 / Vi 25 Cell		1
13235040	Ni 40 / Vi 40 Cell		1
13101201	pH Probe		1
13101202	ORP Probe		1
13176601	Peristalic Pump Head Replacement Kit	Pump Head including Rollers & Squeeze Tube	
		2M PTFE Suction Tube including Non-Return Valve	
		2M PTFE Supply Tube	
201403	Chemical Drum Venting Kit	5L & 15L Lid	
		2M PVC Venting Tube	
		2M PTFE Suction & Supply Tube	
		Wall Vent Insert	
2615191	Ui UV Globe	55W UV Globe	1
Heating			
21101501001	Gi Hot Surface Ignitor		1
21101510001	Gi Flame Sensor		1
Gi Heater Exchange Assembly (includes: Inlet/Outlet Header, Return Header, Bi-metalic & CuNi finned tubes)			
21215020	Gi 160		1
21225021	Gi 265		1
21240022	Gi 420		1
Gi Burner Assembly (includes: Burner plate assembled to Top panel)			
21215001	Gi 160		1
21225001	Gi 265		1
21240001	Gi 420		1

Qi Variable Speed Pump

ITEM	CODE	DESCRIPTION	QTY
1	24201009	Lid, O Ring, Lock Ring Assembly	1
2	24101403001	Pump, Basket	1
3	15201001	Union Assembly Inculding Lock and Oring 2	2
4	24101401001	Pump Volute	1
5	24C01602003	O RING DIFFUSER	1
7	24101401003	Diffuser	1
8	24101405006	1/4 Nylon Ih Impeller Screw	1
9	24101512	Mechanical Seal 5/8"	1
10	24201004	Impeller Qi 1100	1
10	24201005	Impeller Qi 1800	1
11	24C01602001	O Ring Seal Plate	1
12	24201006	Seal Plate	1
15	24101401004	Motor Foot	1
16	24101405001	Fan Cowl	1
17	24102509150	Controller Assembly Vs Pump 1.5 Hp	1
17	24102509250	Controller Assembly Vs Pump 2.5 Hp	1
19	152003	Air Bleed Valve Assembly Pump	1
20	24102514100	Variable Speed Motor 1.5hp	1
20	24102514200	Variable Speed Motor 2.5hp	1
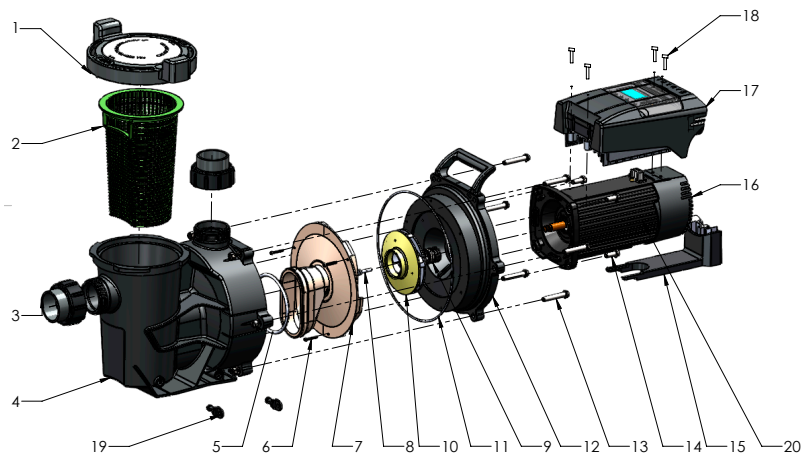
Si Pool and Spa Pump

ITEM	CODE	DESCRIPTION	QTY
1	24201009	Lid, O Ring, Lock Ring Assembly	1
2	24101403001	Pump, Basket	1
3	15201001	Union Assembly Inculding Lock and Oring	2
4	24101401001	Pump Volute	1
5	152003	Air Bleed Valve Assembly Inc O Ring	1
6	24C01602003	PUMP DIFFUSER O-RING	1
8	24101401003	Diffuser	1
9	24101405006	1/4 Nylon Ih Impeller Screw	1
10	24201008	Impeller 3/4 Hp	1
10	24201003	Impeller 1.0 Hp	1
10	24201004	Impeller 1.5 Hp	1
10	24201005	Impeller 2.0 Hp	1
11	24101512	Mechanical Seal 5/8*	1
12	24C01602001	O Ring Seal Plate	1
13	24201006	Seal Plate	1
15	24101514000	Motor 3/4 Hp	1
15	21101514001	Motor 1.0 Hp	1
15	24101514002	Motor 1.5 Hp	1
15	24101514003	Motor 2.0 Hp	1
17	24101401004	Motor Foot	1
18	24101405001	Fan Cowl	1
19	24101513001	Capacitor 3/4- 1.0 Hp	1
19	24101513002	Capacitor 1.5 Hp	1
19	24101513003	Capacitor 2.0 Hp	1
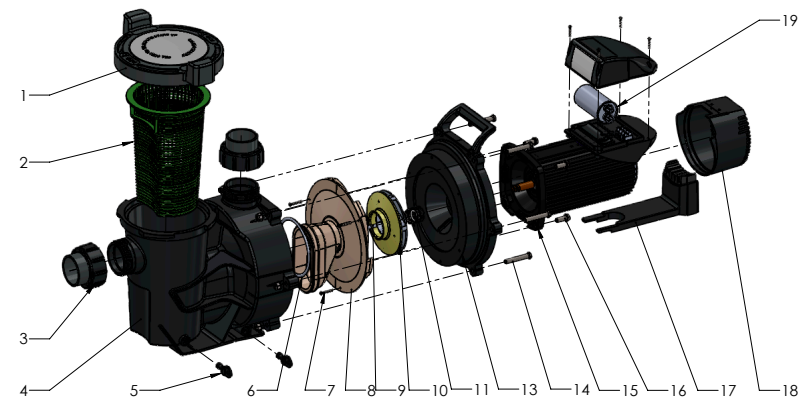
Ci Cartridge Filter

ITEM	CODE	DESCRIPTION	QTY
1	16120401001	Body Ci Cartridge Filter	1
2	15201001	Union Assembly 2" 50mm	2
3	152002	Drain Valve Assembly 2" 50mm	1
4	16C20602001	O Ring Ci Lid Filter	1
5	16120401002	Small Lid (100-150 Filters)	1
5	16120401003	Large Lid (200-250 Filters)	1
6	16220005	Lock Ring Assembly	1
7	10101512001	Pressure Gauge	1
8	16120401004	Cartridge Filter Lid Lock Ring	1
9	16120001	Filter Element (100 Sq. Ft.)	1
9	16129992	Filter Element (150 Sq. Ft.)	1
9	16120003	Filter Element (200 Sq. Ft.)	1
9	16120004	Filter Element (250 Sq. Ft)	1
10	152003	Air Bleed Valve Assembly	1
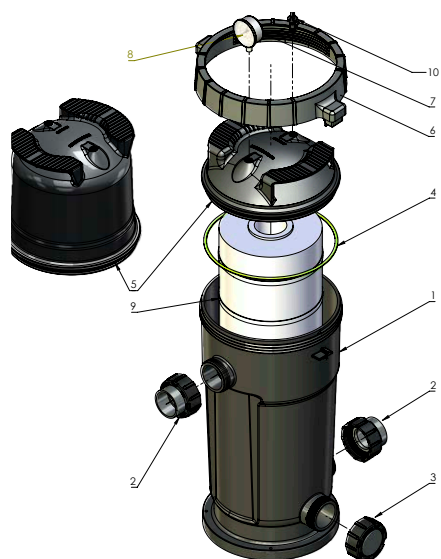
Li & Di Filter

ITEM	CODE	DESCRIPTION	QTY
1	152002	Drain Valve Assembly 2" 50mm	1
2	15201001	Union Assembly 2" 50mm	2
3	16130400008	Lower Filter Pipe Neck	1
4	16130400009	Li Filter Manifold Assemby	1
5	16C30511002	Li Filter Element 105 Sq Ft.	4
5	16C30511003	Li Filter Element 135 Sq Ft.	4
5	16C30511001	Di Filter Element 20 Sq Ft.	4
6	16130400005	Filter Bracket Li	1
7	16230001	Clamp Band Assembly Li Filter	1
8	16130400010	Lid Assembly Li Inc Handles And O Ring	1
9	152003	Air Bleed Valve Assembly	1
10	10101512001	Pressure Gauge	1
11	16130401013	Stand Pipe Li Filter Bottom Inlet	1

Bottom Inlet

Top Inlet
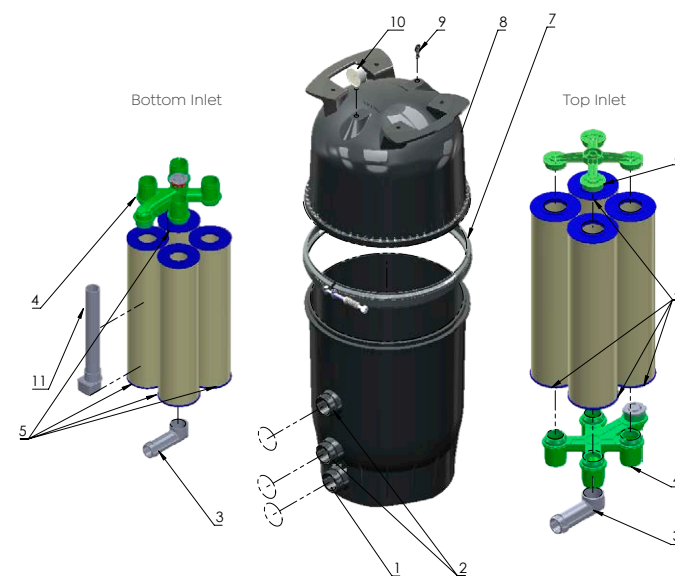
Mi Sand Filter

ITEM	CODE	DESCRIPTION
1	244400	Complete 40mm Multi-Port Valve
1	255500	Complete 50 Mm Multi-Port Valve
9	89012503	Filter Tank For Mi 250 And Mi 320 With Base
9	89012504	Filter Tank For Mi 350 With Base
9	89012505	Filter Tank For Mi 400 With Base
10	89012509	Lateral Assembly With Centre Pipe For Mi 250/Mi 320
10	89012510	Lateral Assembly With Centre Pipe For Mi 350
10	89012511	Lateral Assembly With Centre Pipe For Mi 400
11*	1172007	Laterals (115mm)
11*	1172008	Laterals (126mm)
11*	1172010	Laterals (185mm)
	919301022	Complete Replacement Top for 40mm MPV (includes Spider Gasket)
	919301023	Complete Replacement Top for 50mm MPV (includes Spider Gasket)

Notes: 11* Mi 250, Mi 320 should have 8pcs of Lateral (126mm)

11*` Mi 350 and Mi 400 should have 4pcs of lateral (115mm) and 4pcs of lateral (185mm)
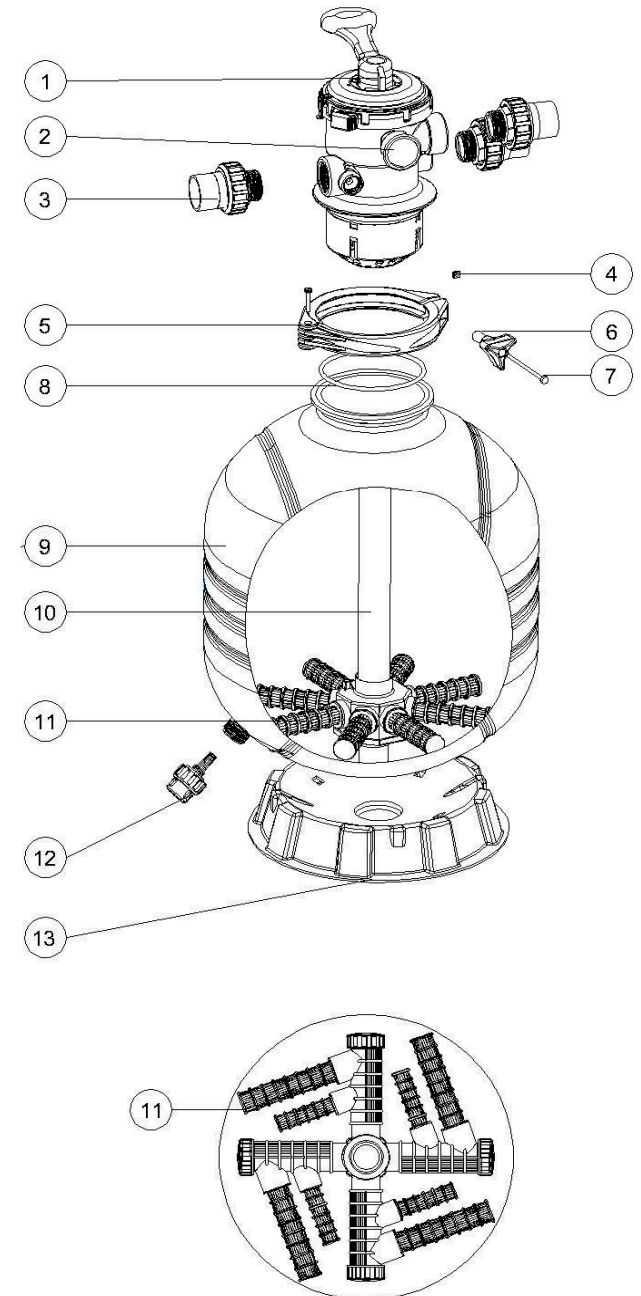
Vi Combined Automation & Chlorination

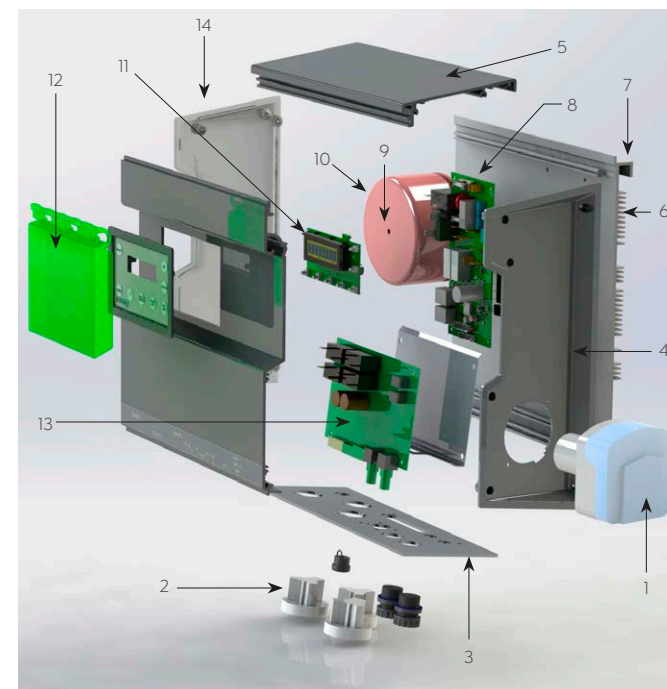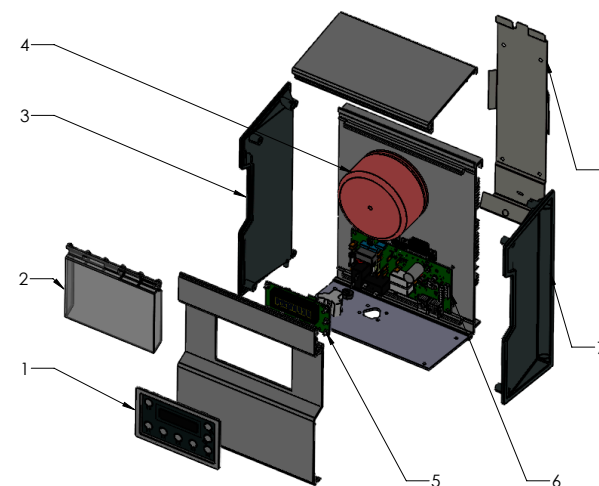| ITEM	CODE	DESCRIPTION	QTY
1	13176601	Pump Head (includes Rollers & Squeeze tube (pre June 2020)	1
1	1640115	Peristaltic Pump 24 VDC 3 roller 4mmID x 7.2mm OD 400ml June 2020	1
2	15101515300	3 Pin 10 Amp Socket	3
3	131105400	Base Plate Vi Chlorinator	1
4	1310140003	Side Panel RH Pump Vi Chlorinator	1
5	3101203003	Top Panel Vi Chlorinator	1
6	13101203002	Heat Sink Vi Chlorinator	1
7	131105440	Wall Mount Bracket Vi Chlorinator	1
8	1310150901	Chlorinator Power PCB	1
9	1319159820	Transformer 25 gm 200 VA	1
10	1319159821	Transformer 40 gm 300 VA	1
11	1310150902	User Interface PCB Chlorinator/Relay Hub	1
12	13101403001	Chlorinator Screen Cover	1
13	1310150905	PCB Exp Vi Chlorinator	1
14	131014002	Chlorinator LH Side Panel Vi/Ni	1

Xi/Ni Chlorinator

ITEM	CODE	DESCRIPTION	QTY
2	13101403001	Chlorinator Screen Cover	1
3	131014002	Chlor Side Panel Lh No Pump	1
4	1319159820	Transformer 25g Chlorinator	1
5	1310150902	User Pcb Chlorinator	1
6	1310150901	Chlorinator Power Pcb	1
7	131014005	Chlor Side Panel Rh No Pump	1
8	131105440	Wall Mount Bracket Chlorinator	1

Ri Automatic Doser

ITEM	CODE	DESCRIPTION	QTY
2	13101403001	Chlorinator Screen Cover	1
3	1640110	Pump Head (Includes Rollers & Squeeze Tube)	1
4	131014001	Side Panel Lh Pump	1
5	1310150901	Chlorinator Power Pcb	1
6	1319159820	Transformer 25g Chlorinator	1
7	1310150905	Pcb Exp Vi Chlorinator	1
8	1310150902	User Pcb Chlorinator	1
10	1310140003	Side Panel Rh Pump	1
11	131105440	Wall Mount Bracket Chlorinator	1
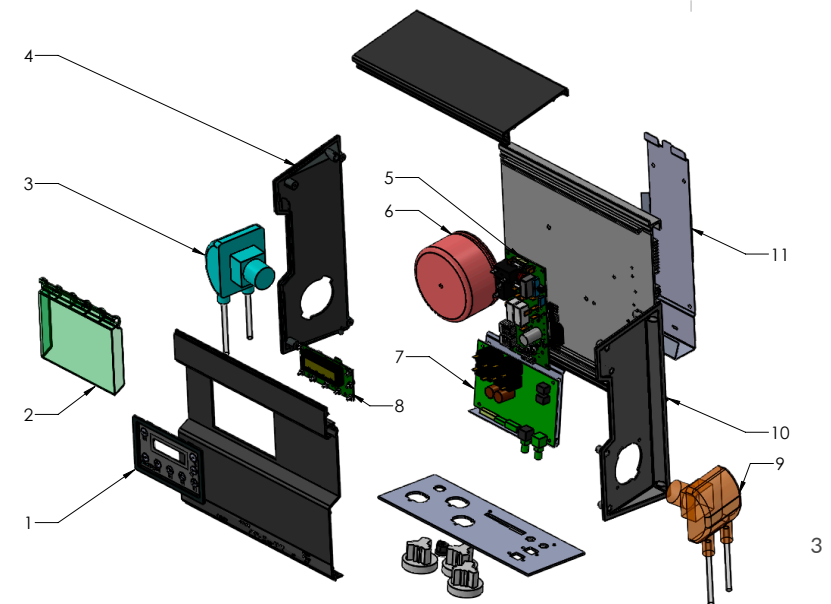
Ni Chlorinator

ITEM	CODE	DESCRIPTION	QTY
1	13101203006	Top Panel Ni Chlorinator	1
2	1319159820	Transformer 25 Gm Chlor	1
2	1319159821	Transformer 40 Gm Chlor	1
3	131014002	Chlor Lh Side Panel No Pump	1
4	1310150902	User Pcb Chlorinator	1
5	13101403001	Chlorinator Screen Cover	1
7	131105410	Base Plate Ni Chlorinator	1
8	15101515300	3 Pin 10 Amp Socket	1
9	131014005	Side Panel Rh Pump Ni Chlor	1
10	1310150901	Chlorinator Power Pcb	1
11	13101203005	Heat Sink Ni Chlorinator	1
12	131105440	Wall Mount Bracket Chlorinator	1
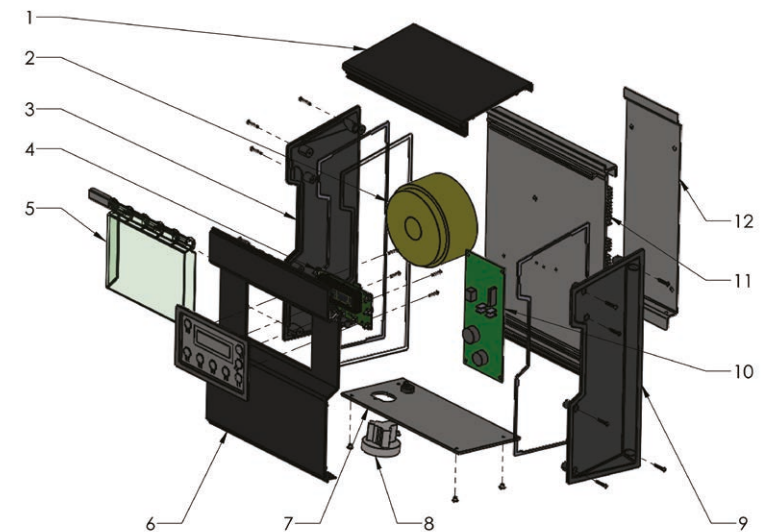
Ui UVC Disinfection System

ITEM	CODE	DESCRIPTION	QTY
2	2614075	UV Cover Cap	1
3	2615193	UV Ballast	1
4	2614074	UV Screw Top	1
5	2616051	UV Viton Oring	1
6	131014051	Chlorinator Cell Cap Lock Nut	1
7	2614072	UV Body Upper	1
8	1310160502	Lid Oring Cell Housing Viton	1
9	2615191	UV Lamp Cs1300	1
10	2615192	UV Sleeve 23*1.5*475	1
11	2614073	UV Baffle	1
12	2614071	UV Body Lower	1
15	15201001	Union Assembly	1
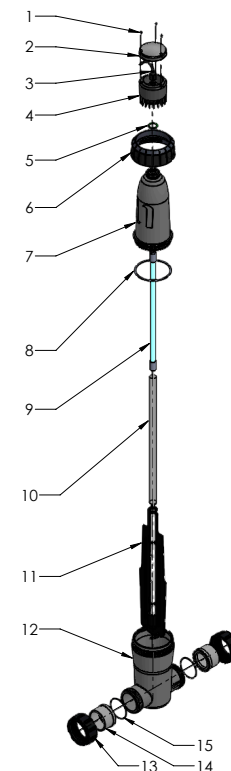
InTouch Expansion

ITEM	CODE	DESCRIPTION	QTY
2	1310150902	User Pcb Chlorinator	1
3	1110509	Automation Expansion Pcb	1
4	1110508	Toroidal Transformer 30va	1
5	1110521	20a Mains Circuit Breaker	2
6	111101010067	Expansion Box Wall Mount Plate	1

Xi / Ni / Vi Cell

ITEM	CODE	DESCRIPTION	QTY
1	13101201	Ph Sensor With 3m Lead	1
2	13101202	Chlorine Sensor With 3m Lead	1
3	131014008	Chlorinator Cell – Short Screw Cap	2
4	1310160501	Sensor O Ring Viton	2
5	131014051	Chlorinator Cell Cap Lock Nut	1
7	134520	Xi Cell Internals	1
7	134525	Ni & Vi 25 Cell Internals	1
7	134540	Ni & Vi 40 Cell Internals	1
8	1310160502	Lid Oring Cell Housing Viton	1
9	13101407001	Chlorinator Cell Housing	1
15	15201001	Union Assembly	1

Dosing Unit (Vi & Ri)

ITEM	CODE	DESCRIPTION	QTY
1	133701	Dosing Pipe PVC 50mm Chlorine/Acid	1
2	133726	Dosing Gasket Plastic	2
3	131014007	Chlorinator Cell – Long Screw Cap	2
5	1360100	Tube Clamp 8-8.5mm Plastic Clip	4
6	13101454035	Check Valve 3/16"	2

Xi / Ni / Vi Cell

Dosing Unit (Vi & Ri)

Gi Gas Heater

| ITEM	CODE	DESCRIPTION	QTY
1	21C15101015	Front Lower Cover (160 Heater)	1
1	21C25101019	Front Lower Cover (265 Heater)	1
1	21C40101023	Front Lower Cover (420 Heater)	1
2	21C15101006	Base (160 Heater)	1
2	21C25101007	Base (265 Heater)	1
2	21C40101008	Base (420 Heater)	1
3	21101401003	Front Right Pillar	1
4	21C01101013	Right Cover	1
5	21101401005	Rear Right Pillar	1
6	21C15101018	Rear Cover (160 Heater)	1
6	21C25101022	Rear Cover (265 Heater)	1
6	21C40101026	Rear Cover (420 Heater)	1
7	21C40101112	Flue Cover	1
7	21115100160	Indoor Flue Cover (160 Heater)	1
7	21125100265	Indoor Flue Cover (265 Heater)	1
7	21140100420	Indoor Flue Cover (420 Heater)	1
8	21C40101011	Outdoor Flue Box	1
10	21C01602003	Flue collar	1
11	21101106001	Flue Tube	1
12	21101203001	Flue Collector	1
13	21201	Blower Assembly Combustion	1
14	211101501001	Gas Valve	1
15	21C01506002	Heater Control Module	1
16	21101401006	Rear Left Pillar	1
17	21C01101014	Left Cover	1
19	2121001	Terminal Block	1
20	21101401004	Front Left Pillar	1
21	21C01101027	Blanking Plate	1
22	21C15101016	Front Upper Cover (160 Heater)	1
22	21C25101020	Front Upper Cover (265 Heater)	1
22	21C40101024	Front Upper Cover (420 Heater)	1

Note. See combustion chamber exploded view for part information
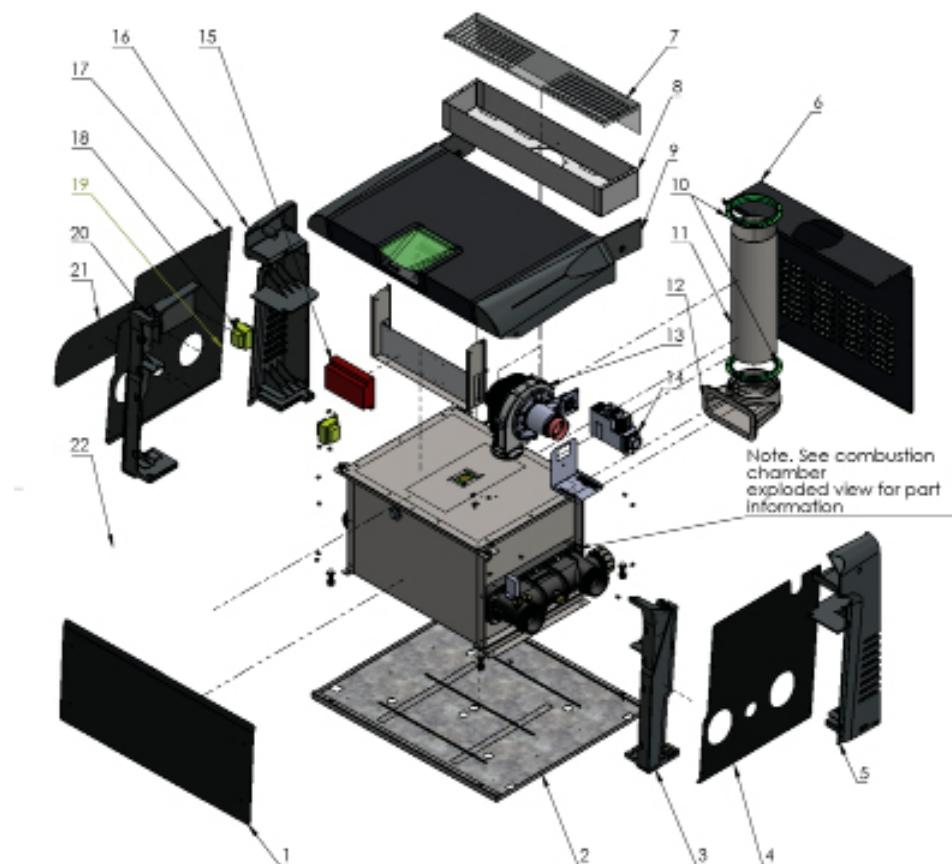
Gi Gas Heater – Combustion Chamber

ITEM	CODE	DESCRIPTION	QTY
1	21201010	Thermostatic Bypass Valve	1
2	15201001	Union Assembly 2" 50mm [2]	2
3	21C01201003	Pressure Relief Bung	1
4	21C01513001	High-Limit Switch (52C/135F) (USA)	1
5	21C01405001	Heater Inlet Header	1
6	21C01405003	Heater Inlet Header Insert	1
7	21C01602002	Heater Header Gasket [2]	2
8	21101501001	Hot Surface Ignitor	1
9	21C01405004	Heater Return Header Insert	1
10	21C01405002	Heater Return Header	1
11	21C01601003	Heat Brick (Side) [2]	2
12	21215001	Burner Assembly (150 Unit)	1
12	21225002	Burner Assembly (250 Unit)	1
12	21240003	Burner Assembly (400 Unit)	1
13	21101510001	Flame Sensor	1
14	21225021	Heater Exchanger Assembly (150 Unit)	1
14	21240021	Heater Exchanger Assembly (250 Unit)	1
14	21240022	Heater Exchanger Assembly (400 Unit)	1
15	21C15601008	Heat Brick (Rear) (150 Unit)	1
15	21C25601005	Heat Brick (Rear) (250 Unit)	1
15	21C40601001	Heat Brick (Rear) (400 Unit)	1
16	21C01505001	Water Pressure Sensor	1
17	21C01201002	Brass Thermistor Well [2]	2
18	21101513001	High-Limit Switch (52C/135F)	1
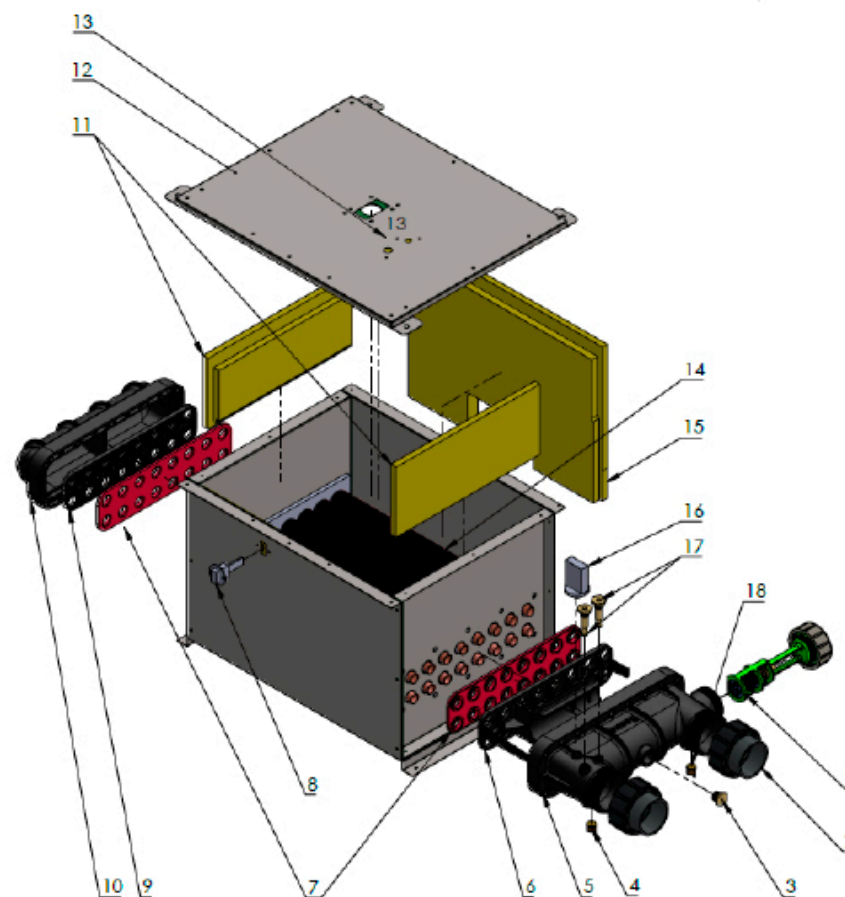
Hi Heat Pump

ITEM	CODE	DESCRIPTION
1		Top Cover (Hi 35, 55, 72) (Hi 96/120)
2		Handle cabinet
3		Motor Support
4		Left internal plate
5		Fan Assembly
6		Fixed frame 1
7		Fixed frame 2
8		Front Cover
9		Fan Cover wind mask
10		Chasis Base
11		Right Cabinet Cover
12		Thermostat Controller
13		Compressor
14		Titanium Heat Exchanger
15		Internal Middle plate
16		Refrigent tubes copper
17		Electronic Expansion Valve
18		Fan Motor
19		Evaporator Coil
20		Circuit Board Assembly Complete
21		Net Evaporator Cover
		Water Flow Switch
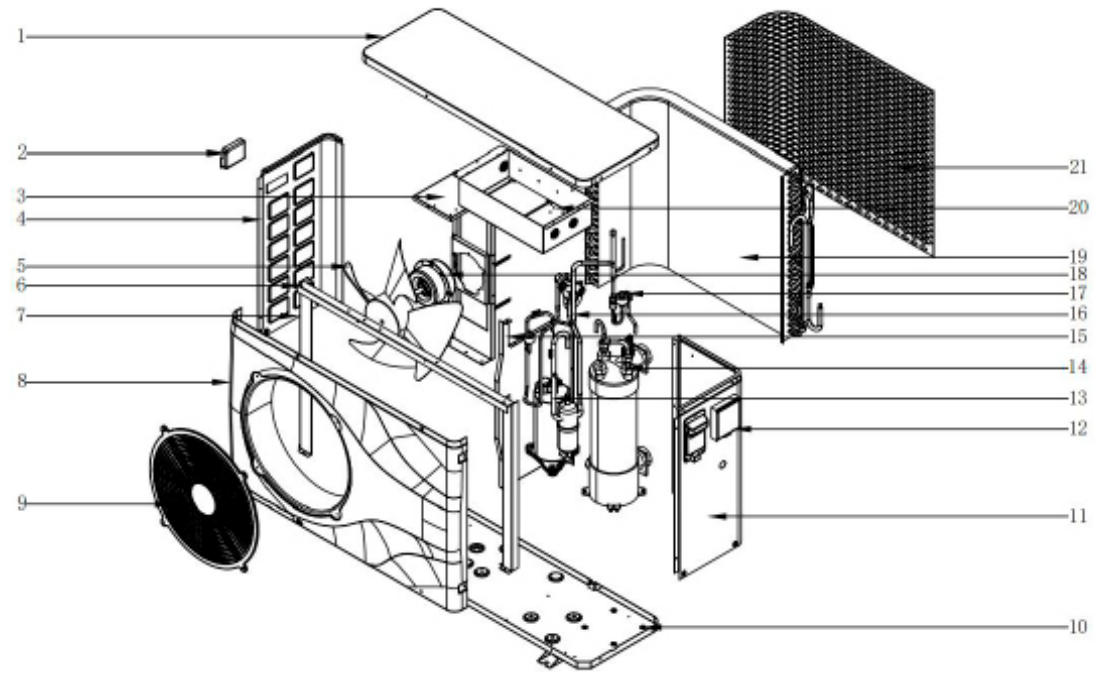
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Catalogue Effective 1st June 2023

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