

INSTALLATION & OPERATING MANUAL  
**Insnrg Li and Di Filter**

# A COMPLETE GUIDE TO YOUR QUAD FILTER



# CONGRATULATIONS ON YOUR PURCHASE OF THIS PRODUCT.

**THIS MANUAL HAS BEEN CAREFULLY DEVELOPED TO GIVE YOU ALL THE INFORMATION YOU NEED TO GET THE BEST VALUE FROM YOUR PURCHASE.**

It is important that you read through the manual to identify the key areas you need to understand, particularly the following:

- Health and Safety Concerns
- Installation requirements
- How to operate the major features of the unit
- The importance of maintenance
- If you have a problem, what to trouble shoot before you contact your professional
- Finally, your entitlements under your product warranty.

Insnrq have developed their product to provide you with the ultimate experience and are sure you will be delighted with your purchase.

**Please note:** This manual has been designed to cater for installation rules and codes in the USA, Canada and Australia. Specific rules and regulations for each country has been highlighted by the National flag of each country. Please ensure you follow the installation rules specific to your country.

# THE IMPORTANT BITS

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We care about your safety

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We want you to be delighted

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## SECTION 1

# WE CARE ABOUT YOUR SAFETY

## **IMPORTANT WARNINGS**

Congratulations on purchasing your Insnrg Li and/or Di Filter.

**Warning** – read and follow all instructions in this owners manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.

Insnrg highly recommend the installation of all their equipment by a suitably qualified pool professional who will ensure your high performance Insnrg products are installed to your local standards and codes to ensure optimum safety and performance.

### CAUTION

All components of the filtration system including Pumps, Filters, Heaters must be positioned so to prevent being used as means of access to the pool by young children. To reduce risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times.



### **WARNING - HAZARDOUS PRESSURE.**

Pool and Spa water circulation systems operate under hazardous pressure during start up, normal operation, and after pump shut off. Stand clear of circulation system equipment during pump start-up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover, and/or filter housing and clamp due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool and spa water circulation systems, all system and pump controls must be in the off position and filter manual relief valve must be in open position. Before starting system pump, all system valves must be set in a position that allows system water to return back to the pool. Do not change filter control valve position whilst system pump is operating. Before starting system pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air) is discharged.



### **WARNING**

Cleaning your cartridge filter and/or DE filter is essential to providing clean, safe and healthy swimming water. A regular cleaning program is highly recommended especially in Commercial applications, the time between cleans and length of cleaning time will depend on size of pool, bather load and other environmental conditions. Discuss with your local pool professional to work out a program that best suits your pool.



### **WARNING - RISK OF ELECTRICAL SHOCK OR ELECTROCUTION.**

Ensure that you position the filter to allow for the air/water bleed valve located in the lid to safely direct water drainage and purged air or water. Water discharged from an improperly position filter can create an electrical hazard that can cause severe personal injury as well as damage property.

## SECTION 2

WE WANT YOU TO BE DELIGHTED WITH YOUR PURCHASE, CORRECT INSTALLATION WILL PROLONG LIFE AND MAXIMISE THE PERFORMANCE OF THIS UNIT.

**Congratulations on your purchase of an Insnrg Filter. Your filter is high performance and corrosion proof designed with superior flow characteristics that is easy to operate. Everything is made simple from installation, operation, to the maintenance of the filter. Your Insnrg filter will provide crystal clear, healthy swimming water with minimal maintenance.**

**Insnrg highly recommend the use of qualified service technicians to ensure the best performance as well as the health and safety of your family.**

## HOW IT WORKS

Your Insnrg Li and/or Di Filter is designed to use the high quality filter elements to remove dirt particles from pool water. These elements are specifically designed for your Insnrg cartridge and DE filters and if looked after will provide you with years of trouble free operation. The pool water which contains dirt particles is pumped through your system to the filter. As pool water passes through the filter, dirt particles will be caught by the filter element and removed from the water. The cleaned pool water is returned back to the pool through your piping system. The entire process is continuous and automatic. It is this process that provides the filtration and removal of organic material such as dust, dirt and fine particles in your pool water.

If you have purchased the Di Filter alternative the addition of the DE powder to your filter element will ensure the removal of even finer particles resulting in water that is crystal clear, healthy and safe for your whole family to enjoy.

During this process, dirt will accumulate in the filter element and gradually increase the pressure in the tank and reduce the flow of water through your filtration system. This means it is time to clean your filter element. A good indication when to clean the filter element is by checking the pressure gauge reading. Cleaning should be performed when you notice the pressure has increased by 5 PSI or 35 kPa from when it was clean. Following the cleaning procedure for the best results.

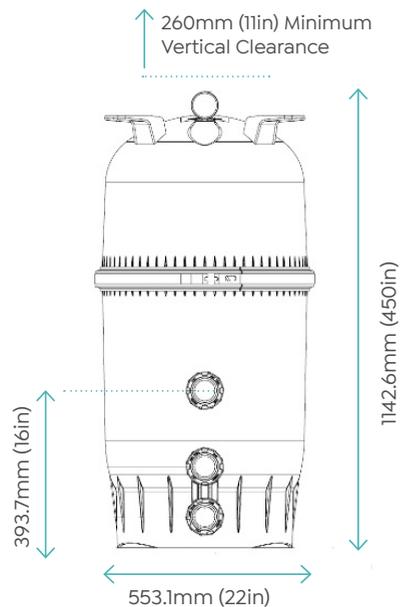
# SPECIFICATIONS AND DIMENSIONS

The Insnrg Li and/or Di Filter are specifically designed to be used on every pool with fantastic results. Your local pool professional will ensure that you have sized correctly for your application. The below chart outlines key dimensions for each model to assist you with your installation.

# INSTALLATION AND START-UP PROCEDURE

The filter should be installed as close to the pool as possible but keep a distance of at least 1.5m (5 feet). Locate the Filter on rigid, level surface, preferably in a dry, shaded, and well-ventilated area. Prior to installation take into consideration the following conditions:

- Position of suction and return PVC connections
- Access for cleaning operation and servicing, particularly important if installing under a deck or roof structure that enough space is provided to remove the elements for cleaning
- The operation of the Air-Bleed will discharge water from the filter, you must position the filter so none of this water can come in contact with electrical devices and cause electric shock or electrocution.
- Protection from sun, rain, splashing etc
- Drainage of filter room
- Ventilation and protection of the full filtration system



Model #	Li 420	Li 540	Di 80
<b>Filtration Area (m2)</b>	39.0	50.1	7.4
<b>Filtration Area (ft2)</b>	420	540	80
<b>Max Flow Rate (litres pm)</b>	500	500	500
<b>Max Flow Rate (gallons pm)</b>	130	130	130
<b>Turnover Capacity – 8 Hours (Litres)</b>	240,000	240,000	240,000
<b>Turnover Capacity – 8 Hours (Gallons)</b>	62,400	62,400	62,400

Depending on your choice of Filter, there are a couple of options for the installation. Your local Pool Professional will be able to confirm with you the best method for your pool and application.

### **1) Top Inlet, Bottom Outlet**

### **2) Installation of Multiport Control Valve (DE only)**

## **TOP INLET, BOTTOM OUTLET**

This is the standard way the product is supplied in the carton and therefore, no changes are needed to the internals of the Filter prior to starting up. Follow these steps:

- 1)** Place the Filter Tank in position.
- 2)** Line up the PVC pipe from the Pump with the Top Inlet on the Cartridge Filter and use Lock Nut and Tail to install.
- 3)** Identify the Bottom outlet on the filter and connect the PVC pipe with Lock Nut and Tail.
- 4)** Identify the Drain Plug and install using the Blanking Cap and Lock Nut provided.
- 5)** Replace Elements into Tank with manifold.
- 6)** Replace Lid onto Tank and tighten. Do not overtighten as this could cause tank to warp and product to leak.
- 7)** Install Pressure Gauge into Lid.

**8)** Install Air-Bleed into Lid. Do not tighten at this stage, we need to allow air to escape once water starts flowing through the Filter.

### **WARNING - RISK OF ELECTRICAL SHOCK OR ELECTROCUTION.**

Ensure that you position the filter to allow for the air/water bleed valve located in the lid to safely direct water drainage and purged air or water. Water discharged from an improperly position filter can create an electrical hazard that can cause severe personal injury as well as damage property.

- 9)** Check that all other fittings in the filtration system are correct and ready for operation. Make sure are Valves that you closed are re-opened ready for filtration.
- 10)** Turn on Pump. Prior to starting the filtration process by turning on the pump, we highly recommend that you read through the pump instruction manual to ensure proper installation and to avoid the risk of electric shock.
- 11)** Water will start to move through Filter and release Air through the Air-Bleed. Once a full stream of water comes through the Air-Bleed tighten to seal.
- 12)** Check for any other leaks and tighten as necessary.

**CONGRATULATIONS, YOU HAVE NOW  
INSTALLED YOUR NEW INSNRG FILTER.**

# MULTIPOINT CONTROL VALVE INSTALLATION (DI ONLY)

To make the removal and replacement of the DE Filter Media as easy as possible, you should consider the installation of a Multiport Control Valve. The installation of this valve makes maintenance of a DE Filter as easy as possible. Follow these steps:

- 1)** Place the Filter Tank in position identified above. Make sure there is enough room to mount the Multiport Control Valve on the front of the DE Filter and be easy to access when needing to adjust for cleaning.
- 2)** Assemble the Multiport Control Valve as per separate instructions
- 3)** Connect the Multiport Control Valve to the DE Filter Tank by lining up the Outlet on the Multiport Control Valve to the Inlet on the DE Filter Tank and the Outlet on the DE Filter Tank to the Inlet on the Multiport Control Valve by securing the Lock Nuts and Tails
- 4)** Line up the PVC pipe from the Pump with the Inlet on the Multiport Control Valve and use Lock Nut and Tail to install.
- 5)** Identify the Waste outlet on the Multiport Control Valve and connect to the PVC pipe for the Waste line with Lock Nut and Tail.
- 6)** Identify the Drain Plug and install using the Blanking Cap and Lock Nut provided.
- 7)** Replace Elements into Tank with manifold

**8)** Replace Lid onto Tank and tighten. Do not overtighten as this could cause tank to warp and product to leak.

**9)** Install Pressure Gauge into Lid

**10)** Install Air-Bleed into Lid. Do not tighten at this stage, we need to allow air to escape once water starts flowing through the Filter.

## **WARNING - RISK OF ELECTRICAL SHOCK OR ELECTROCUTION.**

Ensure that you position the filter to allow for the air/water bleed valve located in the lid to safely direct water drainage and purged air or water. Water discharged from an improperly position filter can create an electrical hazard that can cause severe personal injury as well as damage property.

**11)** Check that all other fittings in the filtration system are correct and ready for operation. Make sure are Valves that you closed are re-opened ready for filtration.

**12)** Turn the Multiport Control Valve handle to the FILTER position. Press the handle downward before turning.

**13)** Turn on Pump. Prior to starting the filtration process by turning on the pump, we highly recommend that you read through the pump instruction manual to ensure proper installation and to avoid the risk of electric shock.

**14)** Water will start to move through Filter and release Air through the Air-Bleed. Once a full stream of water comes through the Air-Bleed tighten to seal.

**15)** Check for any other leaks and tighten as necessary

**16)** Take note of the initial pressure gauge reading for future reference. Variation may occur from pool to pool.

**CONGRATULATIONS, YOU HAVE NOW  
INSTALLED YOUR NEW INSNRG FILTER.**

# INSTALLING START-UP DE MEDIA (Di FILTER ONLY)

Your Insnrg Di 80 Filter requires Diatomaceous Earth (DE) to enhance the filtration and give you the cleanest, clearest, healthiest swimming water. Your supplied filter elements must be pre-coated with the DE to provide the most efficient filtering action. Refer to the table below for proper quantity to use with your filter.

Model	Weight of DE	Number of 500 ml (16 oz) Containers
80 ft2	2.7 kg (6 lbs)	12

We highly recommend the use of DE which is specifically sold and labelled for use with swimming pools and spas, these can be obtained from your local pool and spa professional.

**To pre-coat your filter elements with DE, please follow these steps:**

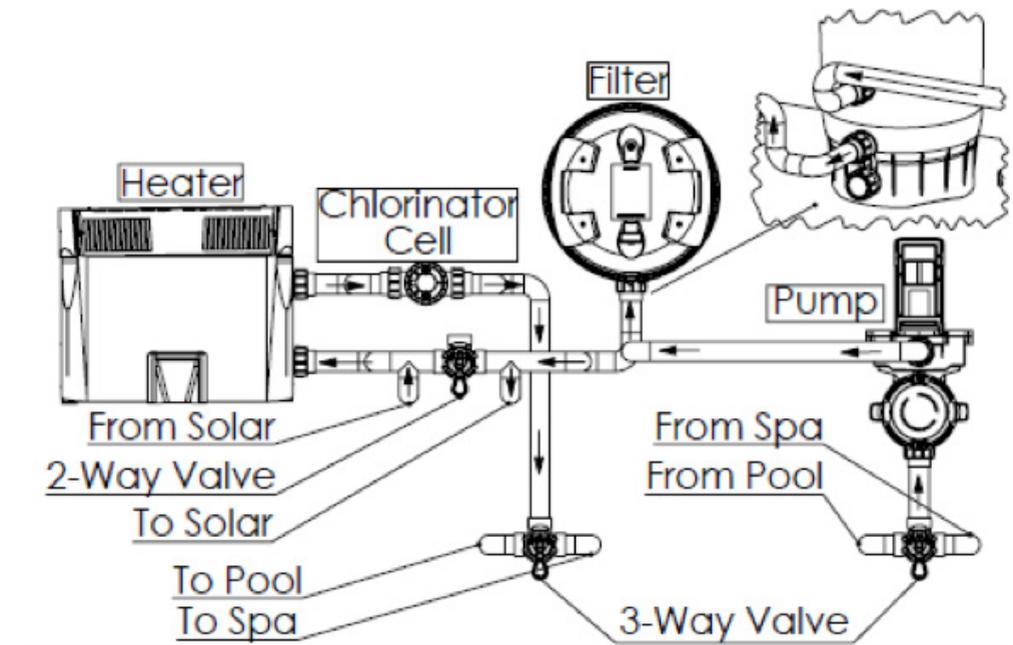
1. Make sure the Pump is ON and the water is being directed through the DE Filter
2. Obtain a minimum 10 Litre (2.5 Gallon) Bucket and a 500 ml (16 oz) container. A 500 ml (16 oz) sized container will hold approximately 225 gm (1/2 lb) of DE. Do NOT pack or compress the DE into the container.

3. Half fill your Bucket with pool water and then place 3 x containers of DE into the Bucket
4. Mix DE into water using a mixing tool such as a stick or handle
5. Once mixed, pour slowly into the Skimmer Basket
6. Repeat steps 3-5 another 4 times to achieve a total of 12 containers of DE
7. Continue to Filter the Pool for at least another 4 hours to ensure DE is fully applied to the Filter Elements
8. Note the Pressure Gauge reading for reference when needing to clean

**YOUR INSNRG Di 80 FILTER IS NOW FULLY READY FOR OPERATION.**

## OTHER IMPORTANT INSTALLATION TIPS

1. Never subject the filter to pressure in excess of the maximum working pressure, even when conducting hydrostatic pressure testing. Pressures above the maximum working PSI/kPa pressures can cause the lid to be blown off and result in severe injury, death or property damage. Maximum working pressure is 50 PSI / 350 kPa.
2. The filter should be mounted on a level concrete slab. Position the filter so that the instructions, warning and pressure gauge are visible to the operator. It should also be positioned so that the piping connections, control valve and drain port are convenient and accessible for servicing and winterizing.
3. Install electrical controls (timers, Chlorinators, power points) at least 1.8m / 6 ft from the filter. This will allow you enough room to stand clear of the filter during start up.
4. All filter connections are provided with an gasket / o-ring seal. To avoid damage to the gasket / o-rings, use only a silicone base lubricant. Do not use any other substances as it will degrade the gasket / o-ring and reduce its performance and lifespan.
5. Install the pressure gauge (supplied with the filter) into the marked hole in the lid, the use of Teflon tape will improve the seal on the gauge thread.
6. If the filter is installed below water level, isolation valves must be installed on the inlet & outlet to enable the filter to be dismantled for cleaning without the loss of water from the pool or spa.
7. It is recommended that a 3 way valve be installed on the return line to allow draining of water from the pool or spa when necessary.



## SECTION 3

# HAVE FUN AND GET THE MOST OUT OF YOUR PURCHASE

Now that your Insnrg Li and/or Di Filter is installed and operating, it is important to understand how to keep it in the best condition and give you the best results for many years to come.

## CLEANING YOUR FILTER ELEMENTS



Cleaning your Cartridge and/or DE Filter is essential to providing clean, safe and healthy swimming water. A regular cleaning program is highly recommended especially in Commercial applications, the time between cleans and length of cleaning time will depend on size of pool, bather load and other environmental conditions. Discuss with your local pool professional to work out a program that best suits your pool.

The Cartridge and/or DE Filter Elements require cleaning when the water flow through the filtration system reduces or reading on the pressure gauge increases by 5 PSI or 35 kPa from the original operating pressure when the filter element was clean.

In you have a Li or Di Filter without a Multiport Control Valve to clean your filter elements, you must follow these steps below. If you have a Di Filter with a Multiport Control Valve please refer to the steps outlined in this section later in the manual:

- 1.** Stop the pump and close any valves on the suction and return lines to prevent water being lost, particularly if your filtration system is below the pool water line.
- 2.** Open the air bleed valve (located in the filter lid). Allow all pressure to be relieved.

**3.** Loosen the Lock Ring around the Lid and remove from the filter.

**4.** Carefully remove the filter element from the filter. It is important that you treat the element carefully to ensure effective cleaning and a long life span. Any damage done during cleaning is not covered by the product warranty.

**5.** Clean the elements by using a garden hose to remove any debris, dust, organic material from the element pleats. It is important to get into the pleats as most debris is positioned well inside the element. An alternate way to clean the element is to soak in a mild solution of cartridge element cleaner which can be purchased from your local pool professional and then hose off with water.

**6.** Replace the clean element into the filter ensuring it is correctly located on the bottom spigot of the filter.

**7.** Clean the filter lid o-ring before refitting, ensure it is free from dirt.

**8.** Place the lid carefully over the elements and lower onto the lower body of the filter. Ensure o-ring stays in place.

**9.** Screw down the Locking Rings until tight. DO NOT over tighten as this could cause the tank body to warp and create potential for permanent leaking.

**10.** If needed, open the valves on suction and return lines, then

ensure the air bleed valve in lid is still open

**11.** Turn the Pump on

**12.** Wait for constant stream of water from the air bleed valve, then close valve.

**13.** Check for leaks from around clamp band

## CONGRATULATIONS YOU HAVE CLEANED YOUR CARTRIDGE AND/OR DE FILTER ELEMENTS.

**NOTE: If you have a Insrg Di Filter you must now Re-charge your DE which is outlined in the section below.**

**CLEANING TIP** – To save time when cleaning your Filter Element, ask your local pool professional about purchasing a second element that can be stored ready for the next maintenance. Then it is as simple as removing the dirty element and replacing with the clean element. Wait until the dirty element has dried and the debris can then be removed with a normal brush. Simple.

# RECHARGING YOUR DE (Di FILTER ONLY)

Your Insnrg Di Filter requires Diatomaceous Earth (DE) to enhance the filtration and give you the cleanest, clearest, healthiest swimming water. Your supplied filter elements must be recharged with DE to provide the most efficient filtering action. Refer to the table below for proper quantity to use with your filter.

Model	Weight of DE	Number of 500 ml (16 oz) Containers
80 ft2	2.7 kg (6 lbs)	12

We highly recommend the use of DE which is specifically sold and labelled for use with swimming pools and spas, these can be obtained from your local pool and spa professional.

## **TO RECHARGE YOUR FILTER ELEMENTS WITH DE, PLEASE FOLLOW THESE STEPS:**

1. Make sure the Pump is ON and the water is being directed through the DE Filter
2. Obtain a minimum 10 Litre (2.5 Gallon) Bucket and a 500 ml (16 oz) container. A 500 ml (16 oz) sized container will hold approximately 225 gm (1/2 lb) of DE. Do NOT pack or compress the DE into the container.
3. Half fill your Bucket with pool water and then place 3 x

containers of DE into the Bucket

4. Mix DE into water using a mixing tool such as a stick or handle
5. Once mixed, pour slowly into the Skimmer Basket
6. Repeat steps 3-5 another 4 times to achieve a total of 12 containers of DE
7. Continue to Filter the Pool for at least another 4 hours to ensure DE is fully applied to the Filter Elements
8. Note the Pressure Gauge reading for reference when needing to clean

**YOUR INSNRG Di FILTER IS NOW FULLY READY FOR OPERATION.**

# CLEANING YOUR Di FILTER WITH MULTIPORT CONTROL VALVE

Regular cleaning of your Di Filter will give you the best quality swimming water that is clean, clear and safe for swimming. It is highly recommended to clean on a regular basis and to monitor the pressure gauge and BACKWASH when an increase of 5 PSI or 35 kPa is indicated from your clean filter.

TO PERFORM THE BACKWASH OPERATION YOU MUST FOLLOWING THESE STEPS:

1. Turn off Pump
2. Change the position of the Multiport Control Valve handle from FILTER to BACKWASH
3. Turn Pump back on. The water flow is automatically reversed through the Filter so the water is directed from the bottom of the tank, up through the Filter Elements, flushing the trapped dirt and debris out of the waste line.
4. Check Sight Glass. The duration of the backwash operation will depend on how dirty your filter is. Continuously check the sight glass to see when the water becomes clear, then
5. Turn off Pump

6. Change the position of the Multiport Control Valve handle from BACKWASH to RINSE.
7. Turn Pump back on. The water flow will now be directed back through the Filter Elements and then out through the waste line. This will settle the Filter Elements back for normal operation and remove any remaining debris in the filter.
8. Check Sight Glass. Continue until water in Sight Glass is clear, usually about half the time of the backwash cycle.
9. Turn off Pump
10. Change the position of the Multiport Control Valve handle from RINSE to FILTER.
11. Turn on Pump
12. NOW, Recharge the DE following the steps outlined in Recharging your DE on page 10



Turn off the pump before switching the control valve handle.

## **MULTIPOINT CONTROL VALVE FUNCTIONS (DI FILTER ONLY)**

The Multiport Control Valve controls the direction of water flow throughout your filter allowing you to easily filter your swimming pool water and then clean your filter tank. Correct operation of the Multiport Control Valve will give you healthy, clean water for many years. It is important to understand the functions of each setting which is explained below. Please take a moment to read and understand.

### **1) FILTER**

This is the standard position when your filtration system is in normal operation. The water flows in from your pool and is distributed across the top of the sand bed in the filter. Through pressure this water is pushed down through the Sand allowing debris to be removed from the water and collected in the sand bed. Water is then taken up through the laterals and the centre stem pipe and returned to the pool, usually via some form of sanitation and/or heating. The filter position can also be used for manual vacuuming and cleaning.

### **2) BACKWASH**

This position is used when the sand bed requires cleaning. Use the Pressure Gauge to indicate when this is required, usually 5 PSI or 35 kPa above operation of a clean filter. When backwash is selected the water flow is reversed and goes down the stem pipe and out through the laterals. This lifts the sand bed and allows debris to be taken up the filter and out through the waste pipe. The sight glass will show the quality of the water and you need to backwash until this water is clear.

### **3) WASTE**

The waste position allows you to pump excess water from the pool directly down the waste pipe. This position is useful after heavy rains where the water level is too high. Water is directed straight through the Multiport Control Valve and bypasses the filter, going directly to waste. You can also use this position to vacuum heavy concentration of debris from the pool.

### **4) RECIRCULATE**

Similar to the Waste setting, Recirculate allows the water to bypass the filter but goes straight back to the pool. This is a useful setting if you have applied some chemicals that need to be circulated, but not removed by the filter. In addition, if a leak develops in the filter use recirculate to continue circulating water until it is fixed.

### **5) RINSE**

Rinse is a very important setting to use after you have completed the Backwash cycle. In the Rinse setting, water is taken from the pool and distributed on the sand bed. This downward flow settles the sand bed after backwashing and carries any remaining loose dirt through to the waste line. By using Rinse after Backwashing you will eliminate any debris returning to the pool water. Rinse until you see clear water in the Sightglass and should take half the time of a Backwash cycle.

### **6) CLOSED**

Closed setting acts like a Valve and prevents flow of water through the Tank, particularly useful if doing any maintenance on the filtration system.

# WINTERISING

It is important to protect your Li and/or Di Filter from freezing water conditions. As water freezes it expands and that can cause the internals to break under the intense pressure of expanding water. It is your responsibility to monitor temperatures and take the following actions:

- In mild climate areas, when temporary freezing conditions may occur, run your pump and filtering equipment all night to maintain water circulation and prevent freezing.
- If freezing conditions are expected, take the following steps to reduce the risk of freeze damage. Freeze damage is not covered under warranty.

**1)** Clean your Filter Elements thoroughly before closing down the pool for winterising. This will ensure no debris remains in the element during the long winter break and the filtration system is ready to go when the swimming season returns. Ideally, remove the elements from the Filter and store safely indoors.

**2)** Drain the filter tank by removing the Blanking Cap on the non-used Outlet. Leave the cap off and store safely indoors.

**3)** Unscrew the pressure gauge from the Filter Lid and store safely with the Blanking Cap.

**4)** Drain and winterise pump according to pump instructions.

**5)** This is an ideal time for any repairs that may be required during the off-season. Most pool professionals will recommend what is needed before the next pool season, so contact them for a thorough maintenance plan.

## SECTION 4

# OOPS, SOMETHING'S NOT RIGHT?

**Maintenance, Trouble Shooting,  
Replacement Parts, Warranty &  
Contact Section**

## MAINTENANCE

Your new Li and/or Di Filter has been designed to withstand harsh outdoor conditions and withstand high velocity water with chemicals. Some of these parts will wear in the normal course of use and require regular checks and maintenance. A well thought out pro-active maintenance schedule will identify faults early and extend the lifespan of your Cartridge and/or DE Filter.

A good tip for all outdoor Filtration Equipment including your Cartridge and/or DE Filter is to ensure that the equipment area is protected from any insects and vermin which a regular treatment of Surface Spray or suitable Insecticide. Most of the electronics in Pumps, Chlorinators or Heaters are well vented to protect against extremes of temperature, however this creates a popular environment for ants and other insects who are attracted to the warmer, dry environments inside the enclosures. We recommend that, with power turned off to all equipment, you spray a surface insecticide on the surfaces surrounding the equipment to prevent ant and insect ingress. Repeat every three months or as necessary to ensure no nasty surprises.

# TROUBLESHOOTING

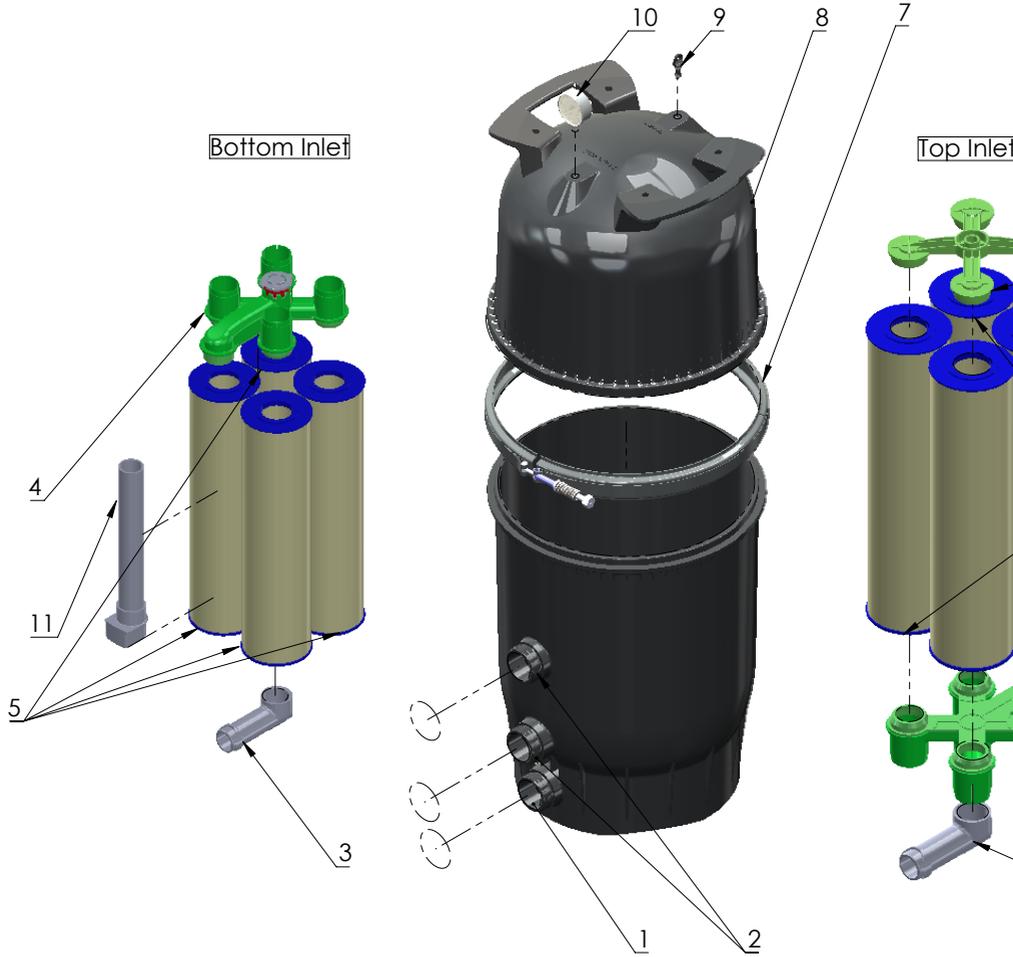
## PRO-ACTIVE MAINTENANCE PROGRAM

WHEN?	WHAT ARE YOU LOOKING FOR?	HOW CAN YOU FIX?
Weekly	Check Pressure Gauge.	If pressure increases by 5 PSI / 35 kPa, then clean the filter elements as per instructions.
Quarterly	Check all Gaskets & Pressure Gauge	Isolate and turn off the Pump. Remove all Gaskets and turn over. You can also apply a silicon based grease to extend the life. If dry, then contact your local pool professional to replace.
	Check around the unit for leaves/debris or signs of flooding.	Replace any debris that is restricting air circulation around the Filter. If in a flood prone location, rectify.
	Check for any Insects/ Ants etc	It is a good practice to use a good quality surface spray around your equipment. Make sure all units are turned off and then spray around all units to eliminate any insect/ ants etc
	Check for any leaks	If you notice any water leaking from the pump. Check gaskets first and reseal. If continues, contact your local pool professional to assess and rectify.

PROBLEM	SOLUTIONS
<b>Water is not clear</b>	<p>Test and adjust water chemistry levels, particularly the disinfectant level.</p> <p>Filter could be dirty, clean the elements as per instructions and restart.</p> <p>Filter elements could be damaged, replace elements from your local pool professionals.</p>
<b>Low water flow</b>	<p>Check and clean pump strainer baskets.</p> <p>Check for leaks on all equipment, refit gaskets and seal.</p> <p>Filter could be dirty, clean the elements as per instructions and restart.</p> <p>Check Pool water level is high enough to cover the Skimmer and allow water to be circulated.</p>
<b>High Pressure on Start-up</b>	Pump could be incorrectly sized for the Filter. Check against sizing chart in this manual and rectify as needed.
<b>Dirt returns to Pool</b>	Check for damage to Element and replaces as necessary.

# REPLACEMENT PARTS

ITEM	CODE	DESCRIPTION	QTY
1	15201002	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	16C0511002	Li FILTER ELEMENT 105 sq ft.	4
5	16C0511003	Li FILTER ELEMENT 135 sq ft.	4
6	16139400005	FILTER BRACKET Li	1
7	16230001	CLAMP BAND ASSEMBLY Li FILTER	1
8	16130400010	LID ASSEMBLY Li INC HANDLES AND O RING	1
9	15201003	AIR BLEED VALVE ASSEMBLY	1
10	10101512001	PRESSURE GAUGE	1
11	16130401013	STAND PIPE Li FILTER BOTTOM INLET	1



# WARRANTY

Insnrg products are designed and manufactured to the highest possible standards of performance.

## **Australian Consumer Law**

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

## **Warranty Period and Conditions**

Insnrg Techne Pty. Ltd. (hereinafter “the Company”) is pleased to warrant to the original retail purchaser that this product shall be free of manufacturing and material defects for a period of five (5) years from the original invoice date subject to the following conditions:

1. The product is purchased new from an authorised Insnrg dealership in Australia, New Zealand or North America.
2. This warranty is not assignable and applies to the original retail purchaser only and the original receipt, invoice or any other proof of purchase must be retained and produced if requested by the Company.
3. Nothing in this warranty shall apply to any defects caused by misuse or abuse, neglect, accident, extremes of climate, dampness, humidity, reasonable fair wear and tear and/or any causes other than defects in manufacturing and materials. Proper care and maintenance information is detailed in the Owner’s Manual for this product which you must follow.
4. Where a defect is physically visible or otherwise affects the exterior surfaces of the product, you must notify the Company of such defect within fourteen (14) days from the date of your purchase.
5. If the product is bought as a demonstration, refurbished, ex-rental, discontinued or otherwise previously unboxed unit, the warranty applicable shall be limited to twelve (12) months only.

## **Warranty Claim Procedure**

To exercise your rights under this warranty, you must:

Within fourteen (14) days of you becoming aware of any defect, report the following details to the dealership from which the product was purchased:

- Your name, address and contact information;
- Model, and serial number of the product; and
- A detailed description of the defect.

On receipt of the above information, the Company will allocate to your dealership an Insnrg Authorisation Number (IAN).

Depending on the model type, how it is installed, and the defect reported, your nominated dealership will advise on how the warranty service will be performed. This could include, but not limited to, return of product to the dealership, return of product to the company, or a visit by qualified service technician to your poolside.

If advised to return the product, place the defective product in secure packaging, clearly label it with the IAN number allocated and send it to the address of the authorised service agent which will be advised by your dealership.

The Company will not be liable for any transportation costs, or in the event that a poolside call is arranged with an authorised service technician, costs of technician’s travel time if the defect is found not to be covered by the consumer guarantees.

In the case of returned product, the authorised service technician or dealership will contact the purchaser when the product has been repaired and is ready for collection.

The Company will repair or replace at its absolute discretion your product at no cost for parts or labour in accordance with the terms stated in this warranty provided that the reported defect is able to be located by the technical staff assigned to the product. If the technical staff is unable to locate the defect, you may be liable to pay for the cost of the technician’s travel time and labour.

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We know that you will get many years of enjoyment from this product.

Insrg has been founded by persons with over 120 years experience in the Pool and Spa industry.

We pride ourselves on developing products that are specifically created for your backyard lifestyle. We are continuously developing new products and ideas to make pool ownership easier and fun.

Should you wish to keep updated with our progress and hear first hand our new products and developments, please feel free to stay in touch by using any or all of the below methods:

**SNAIL MAIL**

64 Duerdin Street,  
Clayton, VIC, 3168

**LANDLINE**

1800 INSNRG (1800 467674)

**WEBSITE**

[www.insnrg.com](http://www.insnrg.com)

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PRODUCTS IN PERFECT SYNERGY