

IMPORTANT

Please attach your sales invoice/docket here as proof of purchase should warranty service be required.

Please do not return Warranty - Retain for your records.

Purchased From _____

Purchase Date _____ Serial No _____ Model No _____



**Pacific
Australia**



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Asia

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India

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L300109A



Residential



Agricultural



Process

Should the installer or owner be unfamiliar with the correct installation or operation of this type of equipment you should contact the distributor/manufacturer for the correct advice before proceeding with the installation or operation of the product.



Owner's Manual



Pantera Cartridge Filters

Relax - you've bought an Onga ...

Congratulations on your decision to purchase an Onga product. Onga is one of the best known brands in its field, with a proud local and International reputation.

Onga is a brand for reliability, value for money and technological innovation.

You will find Onga product wherever people need to move water in 3 broad markets covering:



Residential

Technologically advanced solutions for moving and treating water in the Home, Garden, Pool and Spa.



Innovative Stock and Crop water management solutions for Primary Industries.



Agricultural

Water movement products for Building services, Emergency services and Original Equipment manufacturers.

Process

- 5) Hydrostatic relief valve supplied separately or incorporated in products are sold with the express understanding that such products offer limited hydrostatic relief and no representation is made or implied as to the suitability of such products for a specific application as their condition at the time of sale are unknown and beyond Pentair Water's control. It is the responsibility of the installer to ensure that the performance of the valve meets the required application.
- 6) Swimming pools or spa equipment will not be warranted where the Langelier Saturation Index 'pH' range is outside 7.2 to 7.6 and they have not been regularly treated with chlorine or bromine based sanitising systems, or other recognised sanitising systems.

Spare Parts:

Spare parts are usually stocked for a reasonable period of time following last production.

Pentair Water does not warrant that spare parts will be made available for the whole of the reasonable period and reserves its right to cease supplying spare parts or providing facilities for repair of spare parts in circumstances which are beyond its control including the requirement to remove spare parts from sale as a consequence of changes in the law or otherwise as it deems fit.

How to get service: In Australia please contact your local Clark Rubber Store 13 80 90

Claims under this warranty must give evidence of date of purchase, model and serial number of the product and the claimants name, address and telephone number.

- 1) To obtain warranted service, you will be required to provide to either Pentair Water state office or recommended service agent:-
 - a) the product;
 - b) confirmation in writing specifying the nature of your claim;
 - c) proof providing date of original purchase;
 - d) full contact details including name and address;
 - e) the serial number of the product if any.
- 2) Authorised warranty will be free of charge for the first 12 month period from date of the first consumer purchase. After the initial 12 month period the product is to be forwarded by the customer freight paid to Pentair Water, infield service by an authorised Pentair Water Service Agent will incur a travel, removal & reinstallation fee to adjudicate on warranty issues.
- 3) Warranty service work will be denied or suspended, on equipment not readily accessible to service personnel, that is products that are behind barriers, tiled or bricked in, installed in roofs or second storey external walls including inaccessible power points.
- 4) Any service of any product which is found to be faulty due to abuse, misuse or improper installation will be charged to the owner at the service agents current servicing

Limitation of implied warranties:

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Exclusion of damages:

PENTAIR WATER'S LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. PENTAIR WATER SHALL NOT BE LIABLE FOR:

- 1) DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE OF BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
- 2) ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
- 3) ANY CLAIM AGAINST THE CUSTOMER BY ANY OTHER PARTY.

Effective law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Nothing in this warranty limits or restricts, or is intended to derogate from, any right or remedy which the purchaser or ultimate user of the product may have pursuant to Australian state and/or Australian federal consumer protection legislation, New Zealand Sale of Goods Act, Consumer Guarantees Act, Fair Trading Act or any other relevant and applicable New Zealand legislation or authority and where necessary shall so be read and construed.

Pentair Water Product Warranty

Pentair Water warrants that, when this product is used for the purpose it was designed, is correctly housed and vented against weather, vermin, dust etc., that it will be free of material and manufacturing defects at the time of the original purchase.

This warranty is limited to the cost of the product and does not cover third party costs including the costs of electricians, plumbers, etc. unless authorised by Pentair Water.

TERMS AND CONDITIONS APPLICABLE INTERNATIONALLY

How long the warranty is effective Internationally

- 1) This Pentair Water product is warranted for 12 months for all parts from the date of the first consumer purchase. Should any parts fail as a result of such defects within the specified period, the part will be replaced free of charge. (This does not include travel charges, removal and reinstallation charges.)

TERMS AND CONDITIONS APPLICABLE IN AUSTRALIA

- 1) YOU SHOULD CAREFULLY READ THE INSTRUCTIONS SUPPLIED PRIOR TO USING THIS PENTAIR WATER PRODUCT.

This product is to be installed and operated in accordance with the instructions provided. This warranty will not apply if it is used in a manner otherwise than in accordance with the instructions.

What the warranty covers:

Pentair Water warrants its products to be free of defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, then Pentair Water will, at its sole option repair or replace the product with a like product. Replacement product or parts may include re-manufactured or refurbished parts or components.

How long the warranty is effective:

- 1) **This Pentair Water product is warranted for 12 months (60 months Tank Body) for all parts from the date of the first consumer purchase.**
- 2) **Where this Pentair Water product is sold for commercial application as defined in the relevant Trade Practices and Consumer Protection legislation the warranty shall be for a period of six months from the date of purchase by the end user.**
- 3) **Ancillary equipment including but not limited to plastics and metal fittings, electrical controls (including touch pads), bladders, pressure switches, filter cartridges, pressure gauges, etc. shall be warranted for a period of twelve months only in relation to consumer applications and six months in relation to commercial applications.**

Who the warranty protects:

This warranty is valid only for the consumer purchaser.

What the warranty does not cover:

- 1) **Damage, deterioration or malfunction resulting from:**
 - a) **accident, misuse, negligence, fire, water, lightning, or other acts of nature, unauthorised product modification or failure to follow instructions supplied with the product; repair or attempted repair by anyone not authorised by Pentair Water;**
 - b) **any damage to the product due to shipment;**
 - c) **removal or installation of the product;**
 - d) **causes external to the product such as electric power fluctuations or failure;**
 - e) **use of supplies or parts not meeting Pentair Water specifications;**
 - f) **normal wear and tear;**
 - g) **water ingress or exposure to abnormal corrosive conditions or run in dry conditions;**
 - h) **any other cause which does not relate to a product defect.**
- 2) **Damage caused to the product as a consequence of use of another manufacturer's product used in conjunction with Pentair Water and affiliate companies.**
- 3) **This warranty does not cover such products as combustion engines, mechanical seals or other component parts of units not manufactured by Pentair Water, but where possible Pentair Water will make available to purchaser the benefit of any warranty of that manufacturer.**
- 4) **This guarantee does not cover underwater light bulbs, underwater lights will only be warranted if wiring is to approved standards, and an approved transformer incorporating thermistors has been used, running the light not submerged in water will void warranty.**

IMPORTANT!

The operator must be provided with this owner's manual. This must be read before operation and followed during operation.

These instructions are a guide only. Users not familiar with pool equipment should seek advice from suitably qualified persons with experience in pool equipment installation.

Model	Sq Foot	Model	Sq Foot
PCF60	60	PCF150	150
PCF75	75	PCF180	180
PCF100	100		

The Pantera range of cartridge filters are ideal for domestic swimming pool and spa applications. They offer a more effective filtration area taking up less space when compared to sand or D.E. filters. The Pantera cartridge filters have been designed to provide performance at a realistic cost.

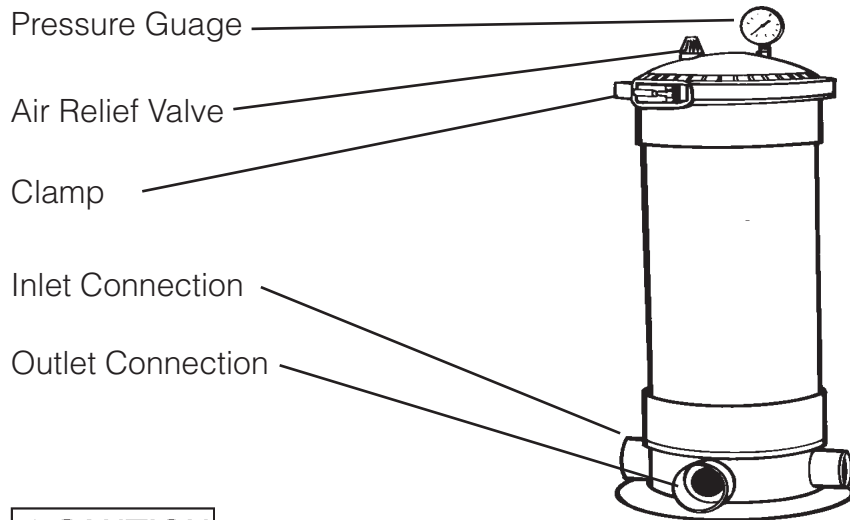
Technical Data

Inlet	UPVC inlet to suit 40mm or 50mm PVC pipe internal
Outlet	UPVC inlet to suit 40mm or 50mm PVC pipe internal
Max. Working Pressure	280 kPa
Water Temperature Range	5 – 45°C
Max Ambient Temperature	55°C
Optimal pH Range	7.2 - 7.6 (Guide Only)

Materials of Construction

Filter Housing	UV Resistant UPVC
Filter Lid	UV Resistant UPVC
O'Ring	Nitrile
Clamp	Powder Coated Marine grade Aluminium
Cartridge Material	Dupont Remya
Cartridge moulded end caps	Urethrae
Cartridge Core	ABS
Pressure Gauge	0-270 kPa Glycerine filled

INSTALLATION



▲ CAUTION

All glued fittings and pipe work should be allowed to dry to atmosphere for 24 hours before closing installation. Failure to do so could cause injury or installation failure.

FILTER INSTALLATION

1. Place filter on solid Horizontal surface. (Concrete slab recommend.)

NOTE: Allow sufficient height clearance for cartridge removal!

PCF60 = 330mm

PCF75 = 450mm

PCF100 = 650mm

PCF150 = 450mm

PCF180 = 450mm

2. Fit interconnecting plumbing between pump and filter.

Pump discharge should be plumbed up to the outlet marked 'IN'

Outlet marked 'OUT' should return to Pool or Spa

3. Fit manual air bleed and pressure gauge to top of filter.

4. Fix filter base to foundation surface via holes on ring on base.

5. Blank off unused inlet and outlet connections using blanks provided

NOTE:

1. Ensure the filter clamp band is correctly fitted and firmly in place. Failure to fit clamp correctly may result in filter lid lifting off in a violent movement.

2. If you are not familiar with fitting of filter clamp band - do not attempt this operation - consult your pool serviceman or ring your local pool store.

Operation

1. Ensure pool is filled with water - water level must be $\frac{3}{4}$ of the way up to skimmer opening.

2. Open manual air bleed at filter, air will be expelled from the filter as it fills with water from the pool. Close manual air bleed when water is released.

3. Switch on Pump - ensure water flows freely through system and back to pool.

4. Record the startup pressure - when a 70 kPa rise from start up pressure is detected clean the cartridge.

5. To clean the cartridge refer service and maintenance

6. If the time period between filter cartridge "cleans" becomes progressively shorter it maybe necessary to "soak" or clean the cartridge with a propriety cleaner.

7. If the cartridge element is mechanically damaged then correct filtration conditions cannot be maintained - the cartridge element must be replaced. Periodic replacement approximately every 24 months is recommended.

8. For Spa Pools, with hot water and higher bather loads, clean cartridge on regular basis - minimum fortnightly.

Cartridge Maintenance

To Clean the cartridge.

A) Switch off the pump and isolate from mains power.

B) Shut off any valves to isolate the filter from the plumbing system.

C) Release the air relief valve to relieve any built up pressure in the filter housing

D) Remove filter clamp ring - take care to note how to reassemble the clamp ring correctly

E) Lift cartridge element out of housing and hose clean with a strong jet from a garden hose.

- If the time period between filter cartridge 'cleans' becomes progressively shorter it maybe necessary to 'soak' the cartridge with a propriety cleaner.

F) Replace cartridge Element and refit lid and filter clamp ring.

G) Open any previously closed valves and follow start up filter procedure.