



CLA-CX User Manual



1. Introduction

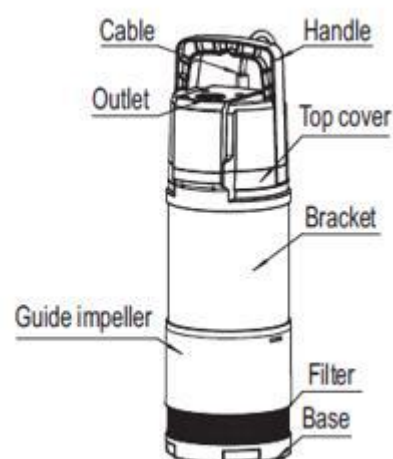
Thank you for choosing the Claytech CX Pump.

Designed especially for Kingspan Water & Energy by White International, the Claytech CX is intended for pumping from water tanks into a home or for general use around a residential property.

The powerful Claytech Submersible Pump and Aquasaver Rain Controller work together to improve efficiency and performance of the water tank system. Whenever there is a power outage or the tank is out of water, the Aquasaver Rain Controller automatically opens the mains water supply to internal appliances.

The **Evolution Mk4 Pump** is an integrated unit which fits a Kingspan made-to-measure tank.

For better use of space and improved overall appearance the entire unit is installed neatly on top of and inside the tank.



Suitable for

- Homes
- Toilet blocks
- Garden Irrigation





2. Standards and Approvals

	SAA Approvals is accredited by the Joint Accreditation Service of Australia and New Zealand (JAS-ANZ) as a third party certification body to issue of Certificates of Approval for declared and non-declared electrical equipment that has proven to comply with the safety requirements of the applicable Australian Standard.
	CE marking is a certification mark that indicates conformity with health, safety and environment. The CE marketing represents a manufacturer's declaration that products comply with the EU's New Approach Directives. These directives not only apply to products within the EU but also for products that are manufactured in or designed to be sold in the EEA.

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4. Warnings

	Read the manual carefully before starting and retain for future reference. Failure to follow instructions may result in personal injury and may invalid warranty
	Any changes or modification to the wiring must be carried out by suitably qualified personnel. If the appliance or the supply cord is damaged, it must be repaired by manufacturer, its service agent or qualified person.
	A qualified electrician should correctly size and install circuit breakers to protect the power supply. The fitment of additional surge protection is recommended.
	This pump is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
	This pump is not intended for use in basements or underpass applications

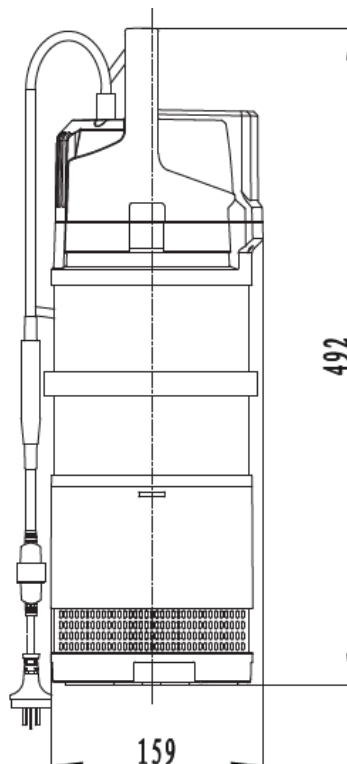
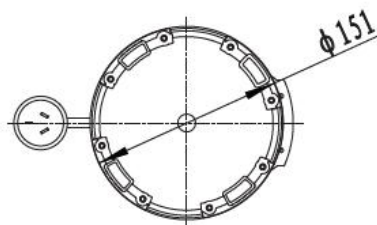
5. Technical information

	CLA-CX
Rated Power [W]	750W
Rated voltage	220V-240V
Rated current	5.3A @ 230V
Motor	Heavy Copper windings with auto resetting thermal overload
Motor Protection Level	Class F insulation
Outlet	1"
Power Cable	H07RN-F, 5m long
Protection Class	IP68 – Max 12m immersion
Working Temperature	Air: -5° to 40°C Water : 3°C to 35° C
Max. Dia. of Particle	Slotted Strainer – Max 1mm particles
Packaging gross weight (kg)	9KG
Max. Flow [lpm]	100lpm
Max. Head [m]	45m
Pump Control and Protection	iSENSOR Auto Control + Float Switch






Dimensional drawing

Dimensions (mm): 159 x 492

Diameter (mm): 151



6. ISO 7010 Symbols used in this manual

	Warning - Electrical safety
	Warning – Potential consequences of use outside of intended application(s). Includes environmental condition warnings.
	Mandatory warning
	Warning to disconnect power
	Read carefully

7. Electrical Connections



Avoid handling the water pump unless the power supply has been isolated. The pump should be grounded to prevent electrical leakage and should be equipped with a leakage protection switch with a protection current not exceeding 30mA.

1. All electrical connection(s) and protection(s) should be carried out in accordance with local regulations.
2. The electrical specifications are marked on the nameplate. Please ensure that the motor matches the power supply voltage.
3. If the pump is installed some distance from the power supply, the power supply cabling should be sized appropriately to avoid voltage drop.
4. If the pump is used outdoors, suitable dedicated rubber power supply cable must be used.
5. Avoid damage to the power cord. Should damage occur, do not use the pump. It should be repaired or replaced by professional or authorized personnel.
6. Note that the length of the pump's power cord is intended to limit the pump submersion depth of the pump.
7. The pump is not allowed to be used in occasions where people are in the water.
8. Ensure sure that the plug and socket of the plug cord are kept dry.

8. Installation

The pump must be tied with a rope to the handle before it can be submerged in the water.

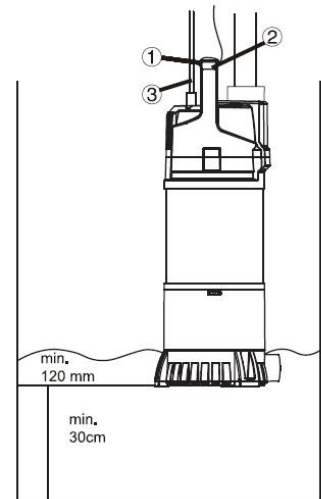
After lowering 12cm into the water the air will exit the pump via the bleed holes.

The pump will give best life if it operated fully submerged.

1. Tie the fastening rope ① to the pump handle ②
2. Immerse the water pump with the fastening rope ① into the Kingspan Water Tank
3. Secure the fastening rope ① and the pump
4. Insert the power cord ③ into the socket and turn on the power

Avoid using the power cable to hang or lift the pump or hang the pump

Avoid running the pump in a no-load condition.



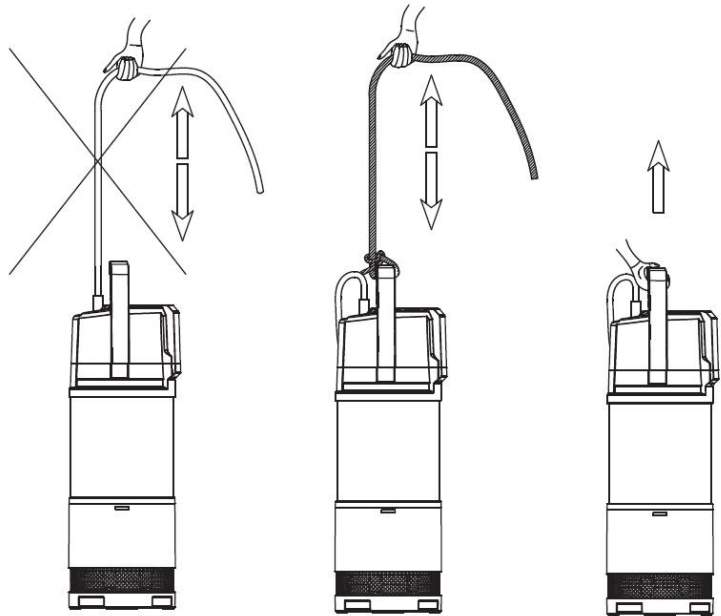
9. Operation

The Claytech CX is equipped with a pressure sensor and a flow sensor to automatically control the start and stop of the water pump.

1. Normal start:

The pump starts when the pumps senses the pressure in the system has fallen to the preset activation pressure. Note, the pump does not start immediately when a tap is opened.

Once all taps are closed the pump will sense that the flow has ceased. The pump will continue to run for an additional 10 seconds before shutting down.

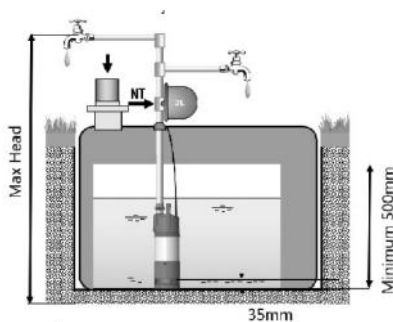


2. No-load / Dry run protection:

There is a 3 second delay to the pump starting after powering on.

If there is no water present the pump will run for 30 seconds then stop for 5 seconds. This cycle (30 seconds run, 5 second stop) repeats four times. After the fourth cycle the pump will suspend itself for 24 hours.

Note: The 30 seconds run time could slightly vary, depending on the flow characteristics.



To avoid frequent and unnecessary pump restarts , to achieve greater energy savings and ensure correct operation, it is important to install a Reflex pressure tank or CX Auxiliary tank.



For best service life the pump maximum pump starts per hour should not exceed 20 of, evenly spaced.

To avoid frost damage or if the pump is kept at a low temperature (below 3°C) for a long time, drain the pump completely.

10. Maintenance and Cleaning

Under normal operating conditions, the Claytech CX pump does not require any special maintenance.

Removal of the water pump must be carried out by professionals. In every case, all repairs and maintenance work must be carried out with the power supply isolated.

When starting the pump, ensure that the inlet filter at the bottom of the pump is installed correctly to avoid accidental mechanical damage.

Filter and base cleaning

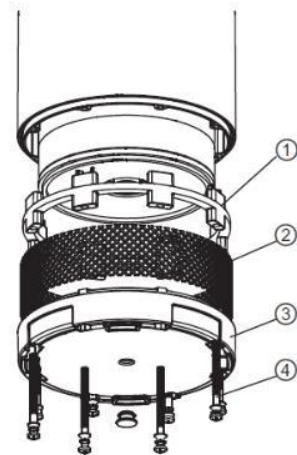
Danger! Risk of electric shock and injury!

Isolate the power supply of the water pump before maintenance and cleaning.



Should the pump ingest sediment it is strongly recommended to flush the pump in clear water.

1. Use a screwdriver to unscrew the eight screws ④
2. Remove the base ③ from the pump
3. Remove the filter ② and bracket ① from the pump respectively
4. Clean the impurities on the base ③, filter ② and bracket ①
5. After cleaning, install the bracket ① on the water pump and install the filter ② and the base ③ in the order of installation
6. Install the eight screws ④ with a screwdriver



Repair and replacement parts



If the product fails, please contact Kingspan on 1300 736 562 so it can be repaired or replaced.

Alternatively please visit <https://www.kingspan.com/au/en-au/products-brands/water-tanks/customer-support/residential-water-tank-owners/technical-and-troubleshooting-support>

The manufacturer is not responsible for the consequences of any unauthorized repairs and changes. To ensure safety, the spare parts used for repair must be original parts provided by the manufacturer or spare parts provided by the manufacturer licensed by the manufacturer.

11. Trouble Shooting



Before inspecting the pump, disconnect the power supply (i.e. remove the plug from the socket). If there is any damage to pump or power cable any necessary repairs or replacements must be performed by the manufacturer or his authorised customer support service, or by an equally-qualified technician.

	Possible cause	Potential Solution
The motor does not start and there is no noise;	A. Check the power supply to the pump; B. Inspect check valve for correct installation of blockage;	Check power supply fuses/circuit breakers Ensure that the check valve is installed correctly and is not blocked;
The pump will not start correctly but makes a noise	A. Possible partial blockage; B. Capacitor failure	
Pump flow rate is poor	A. Clogged water inlet filter B. Blocked or damaged impellers; C. The installation head requirement exceeds the pump potential	Clear the blockage; Remove obstacles or replace the impellers
Water doesn't flow when a tap is closed and reopened	A. Check whether the check valve is blocked	Reinstall the check valve to ensure that there is no blockage;
The flow has decreased over time	A. Partial blockage of the water inlet filter; B. The impeller is partially blocked or the outlet pipe is partially blocked;	Remove obstacles
The pump runs for a period of time then switches off unexpectedly.	A. The thermal overload protection device may have operated to stop the water pump automatically.	The fluid density or fluid temperature may be too high causing the motor to overheat: A small water demand may be causing the pump to start and stop excessively

12. Warranties – Terms and Conditions

This warranty is given in addition to the consumer guarantees found within the Australian Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 NZ for goods purchased in New Zealand:

1) White International Pty Ltd / White International NZ Ltd (White International) warrant that all products distributed are free from defects in workmanship and materials, for their provided warranty period as indicated on the top or opposite side of this document. Subject to the conditions of the warranty, White International will repair any defective products free of charge at the premises of our authorised service agents throughout Australia and New Zealand if a defect in the product appears during the warranty period. If you believe that you have purchased a defective product and wish to make a claim under this warranty, contact us on our Sales Hotline on 1300 783 601, or send your claim to our postal address or fax line below and we will advise you as to how next to proceed. You will be required to supply a copy of your proof of purchase to make a claim under this warranty.

2) This warranty excludes transportation costs to and from White International or its appointed service agents and excludes defects due to non-compliance with installation instructions, neglect or misuse, inadequate protection against the elements, low voltage or use or operation for purposes other than those for which they were designed. For further information regarding the suitability of your intended application contact us on our Sales Hotline on 1300 783 601. If you make an invalid claim under this warranty, the original product will be sent back to you unrepai red.

3) This warranty refers only to products sold after the 1st January 2022, and is not transferable to another product type and only applies to the original owner, purchaser or end user, and is in addition to the consumer guarantees found within the Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 (NZ) for goods purchased in New Zealand.

4) 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. 5 YEAR WARRANTY.

5) To the fullest extent permitted by law, White International excludes its liability for all other conditions or warranties which would or might otherwise be implied at law. To the fullest extent permitted by law, White International's liability under this warranty and any other conditions, guarantees or warranties at law that cannot be excluded, including those in the Competition and Consumer Act 2010 (Cth), is expressly limited to: (a) in the case of products, the replacement of the product or the supply of equivalent product, the payment of the cost of replacing the product or of acquiring an equivalent product or the repair of the product or payment of the cost of having the product repaired, is at the discretion of White International or a 3rd party tribunal elected under the Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 (NZ) for goods purchased in New Zealand; and

6) To the fullest extent permitted by law, this warranty supersedes all other warranties attached to the product or its packaging.

7) In the case of services, supplying the services again or the payment of the cost of having the services supplied again, is at the discretion of White International or a 3rd party tribunal elected under the Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 (NZ) for goods purchased in New Zealand. 8) Our warranty commences from the date of purchase of the above mentioned pumps. Proof of purchase is required before consideration under warranty is given.

Record your date of purchase in the space below and retain this copy for your records.

Date of Purchase

Model Purchased



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www.whiteint.com.au

www.whiteint.co.nz

Please always refer to our website for further technical information & new product innovations

Disclaimer: Every effort has been made to publish the correct information in this manual.

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