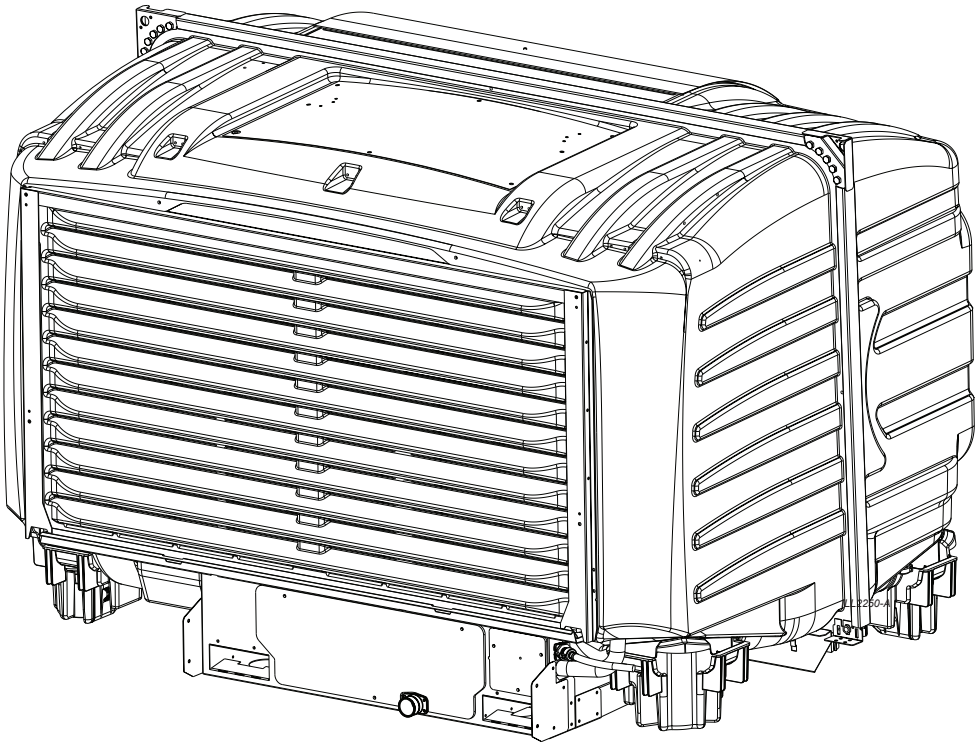
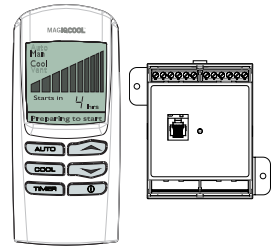
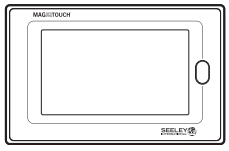
SEELEY INTERNATIONAL

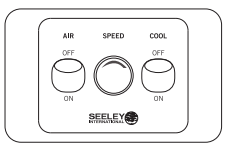
INSTALLATION, OPERATION & MAINTENANCE

Climate Wizard CW-P15 Indirect Evaporative Coolers









(English) (CW-P15)

Climate Wizard® By SEELEY INTERNATIONAL

Original English Instructions

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IMPORTANT SAFETY INSTRUCTIONS

READ AND SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

FOR EUROPE

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

FOR AUSTRALIA, NEW ZEALAND & OTHER NON-EUROPEAN COUNTRIES

This appliance 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.

Means for all pole disconnection must be incorporated in the fixed wiring in accordance with the wiring rules, adjacent to or on the cooler cabinet. If mounting on the cooler cabinet, take care not to puncture the water reservoir.

The following specifications for the cooler water supply are required:

Water Connection ½” BSP (Aus/Eur), ½” NPT (USA)

Min Water Pressure 100kPa (15psi)

Max Water Pressure 800kPa (115psi)

Max Water Flow 20 L/min (5.3 gallons/min)

Max Water Temperature 40°C (104°F)

New hose sets supplied with the appliance are to be used and old hose-sets should not be re-used.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

CAUTION: In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.

FOR AUSTRALIAN BUSHFIRE PRONE AREAS

WARNING If this evaporative cooler is installed in a BAL-12.5 to 29 area the evaporative cooler dropper duct and flashings shall be adequately sealed at the roof to prevent gaps greater than 3mm. The dropper duct and flashings shall be non-combustible.

WARNING: This cooler is NOT APPROVED for installation in any bushfire zoned area/ property (BAL-12.5 to BAL-FZ).

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

1. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
2. Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
3. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
4. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
5. Do not use this fan with any solid-state speed control device.
6. Ducted fans must always be vented to the outdoors.

IMPORTANT SAFETY INSTRUCTIONS

EMPLOYER AND EMPLOYEE RESPONSIBILITIES

The installation and maintenance of evaporative coolers at height has the potential to create Occupational Health and Safety issues for those involved. Installers are advised to ensure they are familiar with the relevant State and Federal legislation, such as Acts, Regulations, approved Codes of Practice and Australian Standards, which offer practical guidance on these health and safety issues. Compliance with these regulations will require appropriate work practices, equipment, training and qualifications of workers.

Seeley International provides the following information as a guide to contractors and employees to assist in minimising risk whilst working at height.

INSTALLER AND MAINTENANCE CONTRACTORS - RISK ASSESSMENT

Installer and Maintenance Contractors

A risk assessment of all hazardous tasks is required under legislation. A risk assessment is an essential element that should be conducted before the commencement of work, to identify and eliminate the risk of falls or to minimise these risks by implementing control measures. There is no need for this to be a complicated process, it just is a matter of looking at the job to be done and considering what action(s) are necessary so the person doing the job does not injure themselves.

This should be considered in terms of:

- What are the chances of an incident happening?
- What could the possible consequence be?
- What can you do to reduce, or better still, completely get rid of the risk?

SOME POINTS TO CONSIDER

- What is the best and safest access to the roof and working areas?
- If a worker is alone, who knows they are there and if they get into difficulty, how can they summon help?
- (Call someone on the ground? Mobile phone? etc.)
- What condition is the roof in? Should the trusses, underside or surface be checked?
- Does the worker have appropriate foot wear? (Flat sole jogger type is advisable)
- Are all power cables / extension leads safe and appropriately rated?
- Are all ladders, tools and equipment suitable in good condition?
- Where ladders are to be used, is there a firm, stable base for them to stand on? Can they be tied or secured in some way at the top? Is the top of the ladder clear of electricity supply cables?
- Is there a roof anchor to attach a harness and lanyard to? If so, instruction should be issued for the use of an approved harness or only suitably trained people used.
- Are all tools and materials being used, prevented from slipping and falling onto a person at ground level? Is the area below the work area suitably protected to prevent persons walking in this area?
- Does the work schedule take into account weather conditions, allowing for work to be suspended in high winds, thunder storms/lightning or other types of weather giving wet, slippery surfaces?
- Is there an on-going safety check system of harnesses, ropes, ladders and access/lifting equipment and where they exist on roofs, anchor points before the commencement of work?
- Is there a system which prevents employees from working on roofs if they are unwell or under the influence of drugs or alcohol?
- Are there any special conditions to consider i.e. excessive roof pitch, limited ground area, fragile roof, electrical power lines?

OTHER IMPORTANT REQUIREMENTS

- Never force parts to fit because all parts are designed to fit together easily without undue force.
- Never drill holes in the tank of the cooler.
- Check the proposed cooler location, to ensure that it is structurally capable of supporting the weight of the cooler, or provide an adequate alternate load bearing structure.
- Ensure the installation complies with all local and national regulations with regards to electrical, plumbing and bushfire construction requirements.

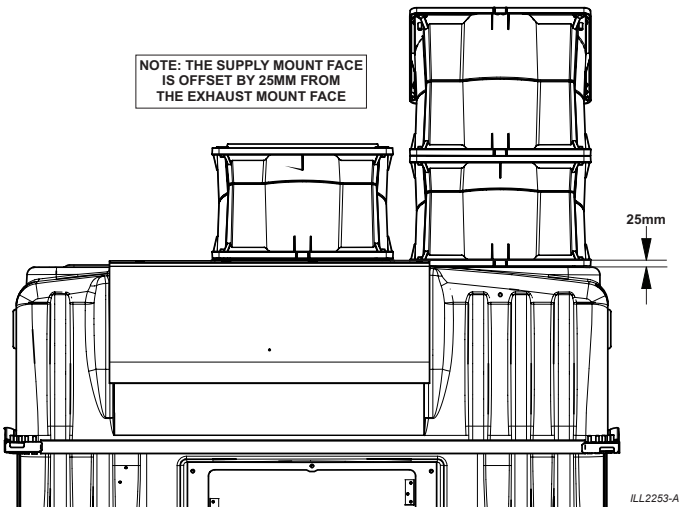
MAINTENANCE NOTE

IMPORTANT

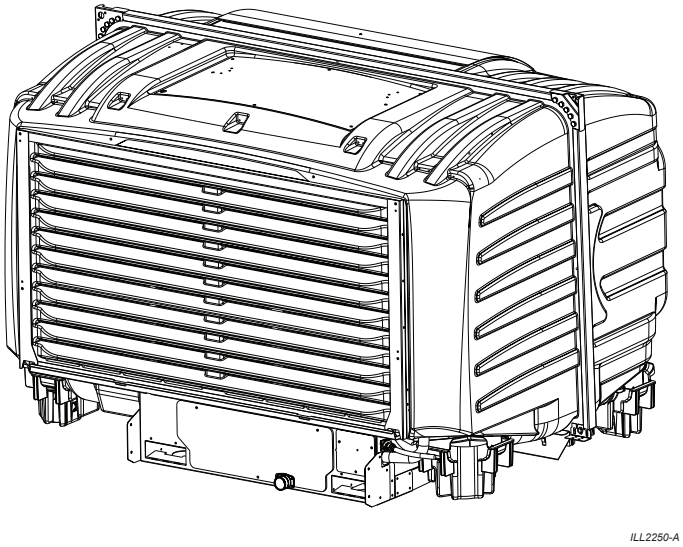
As with any product that has moving parts or is subject to wear and tear, it is **VERY IMPORTANT** that you maintain your cooler and have it regularly serviced. It is a condition of warranty cover for your cooler that you comply with all of the maintenance and service requirements set out in this Manual. Compliance with these requirements will prolong the life of your cooler. Further, it is also a condition of warranty cover that each item in the Maintenance Schedule in the Manual is filled out (by signing and dating it in the places indicated) when the item is completed.

Any failure to carry out the required maintenance and servicing, and any failure to fill out the maintenance schedule, will void your warranty.

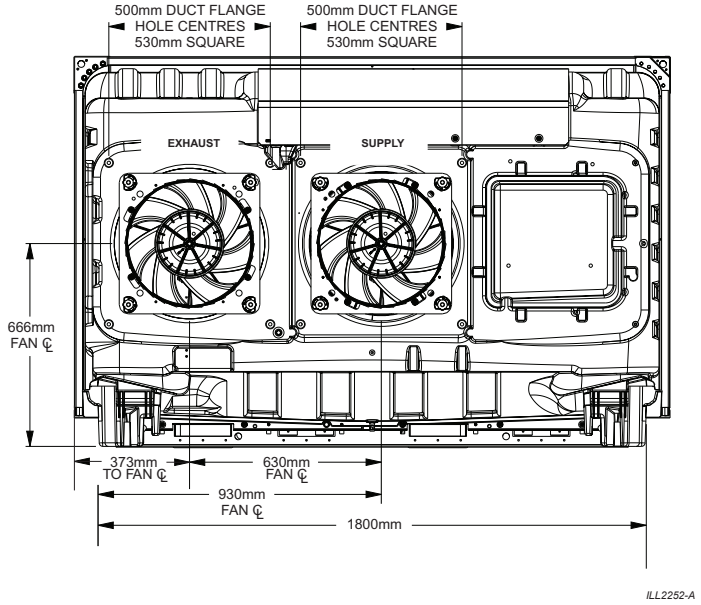
COOLER VIEWS



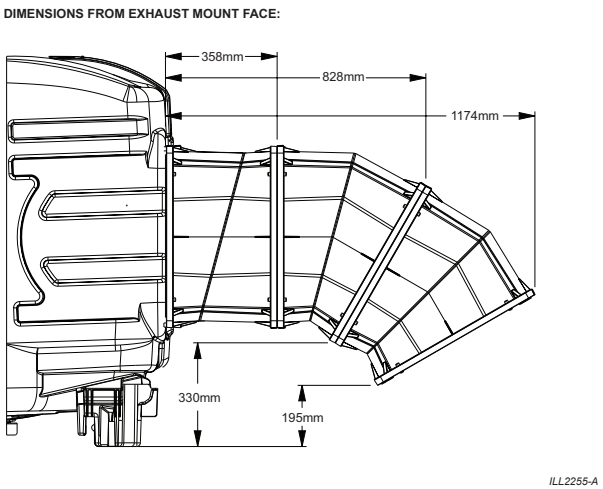
Top View



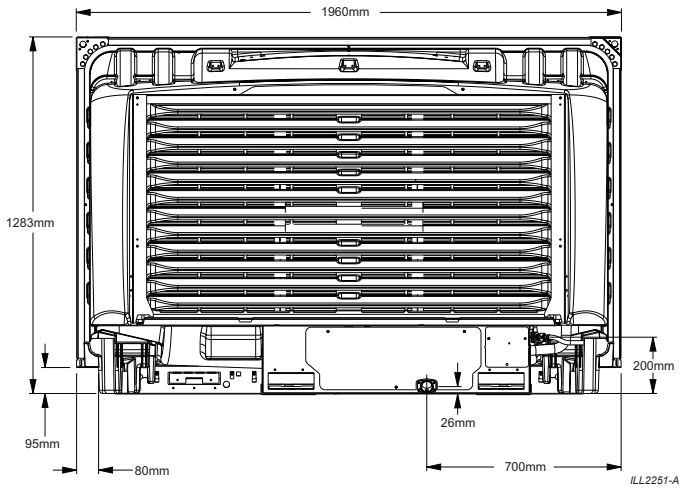
Isometric



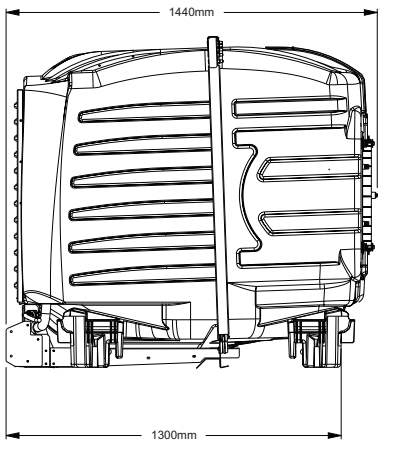
Rear View



Exhaust Mount

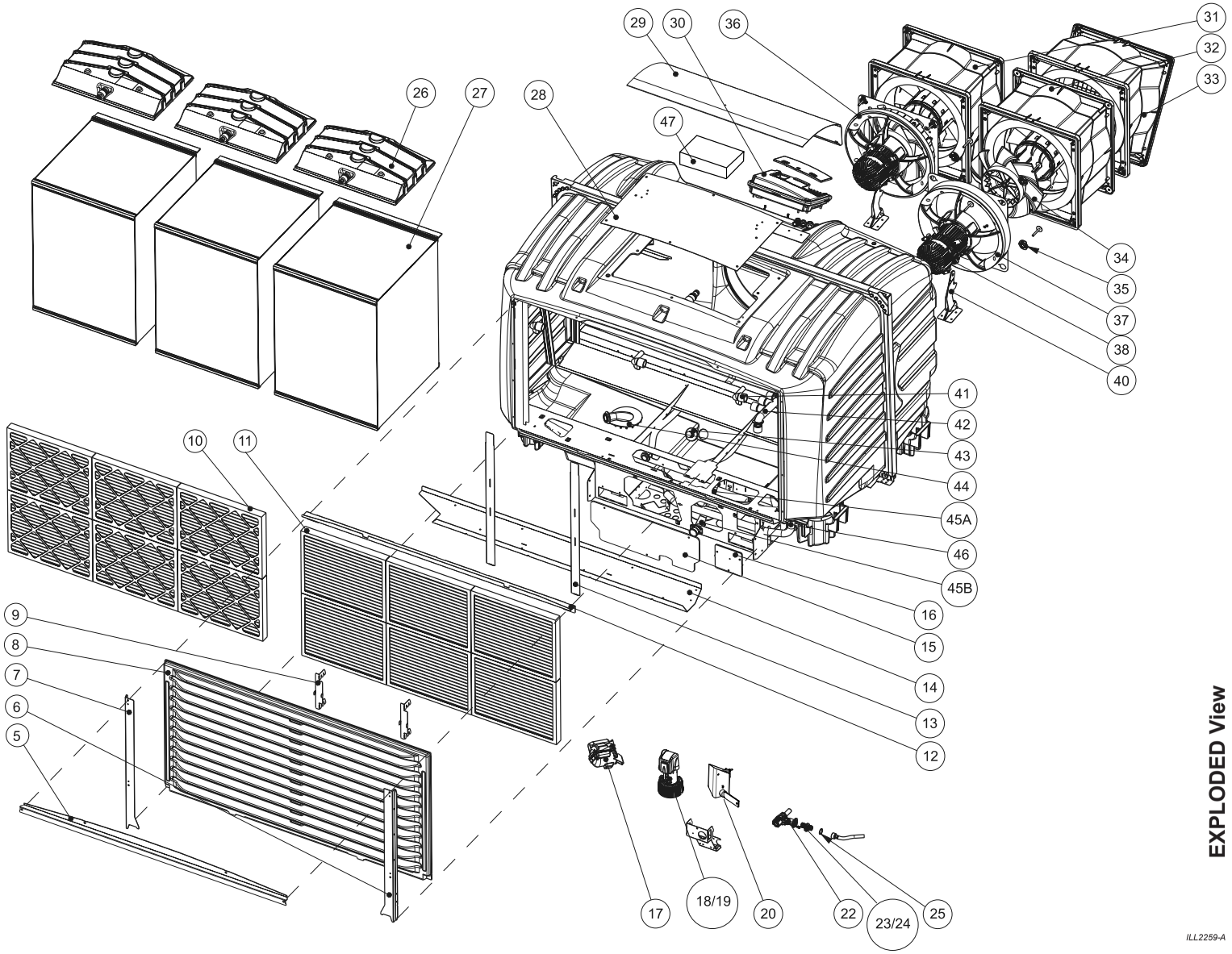


Front View



Side View

COOLER VIEWS



ILL2259-A

EXPLODED View

#	Legend	Qty
5	Trim Top Louver	1
6	Clamp Louver A	1
7	Clamp Louver B	1
8	Louver	1
9	Filter	1
10	Air Filter - Paper Box	6
11	Air Filter - Aluminium Box (Premium option)	6
12	Seal Filter Frame Top	1
13	Seal Filter Frame Column	2
14	Cover Utilities Core Inlet	1
15	Pump Access Hatch	1
16	Solenoid Cover	1
17	Circulation Pump Assy	1
18 & 19	Pump Drain Tornado Pump (50Hz Aus/Eur or 60Hz USA).	1
20	Chlorinator & Probe Enclosure	1
22	Solenoid Valve	1
23 & 24	Fitting Inlet (BSP Aus/Eur or NPT USA)	1
25	O-ring, Inlet	1
26	Spreader Assy	3
27	Core, CW-P	3
28	Top Hatch Cover	1
29	Cover Electronics	1
30	Electronics Enclosure Assy	1
31	Aerofoil Duct, Supply Air	1
32	Aerofoil Duct, Exhaust Air	1
33	Attenuator Duct	-
34	Fan	2
35	Vibration Mount	2
36	Shroud Plate & Venturi, Supply	8
37	Shroud Plate & Venturi, Exhaust	2
38	Motor Assy, P/No 865089	2
40	Motor Support Leg Assy	2
41	Elbow, Rubberized	3
42	Spreader Manifold, Rubberized	1
43	Plug, Rinse, Rubberized	1
44	Cavitation Plate, Rubberized	1
45A	Fitting, Drain Manifold, Rubberized	1
45B	Fitting Drain Manifold Outer, Rubberized	1
46	Pipe, Pump to Vertical, Rubberized	1
47	Control MS1 Enclosure	1

COOLER SPECIFICATIONS

SPECIFICATION		CW-P15
	Electrical Supply - 1~ (Aus/Eur)	220-240V 50/60Hz 11 amps
	Electrical Supply - 1~ (USA)	200-240V, 60Hz, 11 amps, FLA 11A, MCA 13.3A, MOPD 15A
	Water Supply	1/2" male BSP or NPT male connection. Min. 100kPa, Max 800kPa, 20L/min (Min. 15psi, Max. 115psi, 5.3gal/min)
	Max. Operating Temp	55^{0}C (131^{0}F) ambient (shade)
	Airflow @ High Speed	1100L/s @ 140Pa (2330cfm @ 0.56" static)
Cooling Capacity*	kW (AS2913-2000)	9.7
	Btu/hr (ASHRAE 143) / kW	80700 / 23.7
Fans	Replaceable forward curve type. Glass fibre reinforced polymer with coated steel hub.	2 fans 397mm (15.6") dia * 93mm (3.8") wide
Motors	Diecast aluminium housing. ECM with PWM control and overload protection.	2 motors Input Power 900W (nominal) each
Pump - Circulation	Single phase with permanent split capacitor and thermal cut-off protection. 230V, 50 or 60Hz.	50L/min (13.2gal/min) @ 450mBar (180"). Input power 125W, 0.53A, 2950 RPM
Pump - Drain	SI "Tornado", 2 pole synchronous, vertical, centrifugal, 230V 50 or 60Hz	20L/min (5.3gal/min) @ 1m (39.4") head. Input power 20W/ea
Chlorinator	SI low voltage, catalytic chlorine generator.	1 chlorinator
Drain Connection	Recommended minimum drain pipe internal diameter is 25mm (1")	Rubberised fitting compatible with: 1$^{1/2}$" BSP (40mm) barbed fitting 1$^{1/2}$" NPT (40mm) barbed fitting or 40mm DWV Pipe. (Hose clamp supplied)
Water Reservoir	SI one piece, moulded polymer	47L (12.4 gal)
Heat Exchanger Core	SI synthetic plate type, super efficient	3 cores
Shipping	Dimensions	2100 L * 1460 W * 1350mm H (82.7 * 57.5 * 53.2")
	Weight	239kg (527lb)
Operating Weight	Weight including reservoir water, system water, supply and exhaust stator ducts.	335kg (739lb)
Air Filters	Type G4 standard Industry Pleated Panel washable type. OPTIONAL: Disposable Paper type	394 * 495 * 46mm Qty 6 Nominal Size 406 * 508 * 50mm (16 * 20 * 2")

*Tested in accordance with Australian Standards AS2913-2000 and ASHRAE 143 with conditions of 38.0 C (100.4°F) Dry Bulb / 21.0 C (69.8°F) Wet Bulb.

Frequency (Hz)	Radiated Sound Power Level (dB re 1pw) Octave Band Centre Frequency								Total Sound Power (dB re 1pw)
	63	125	250	500	1k	2k	4k	8k	
CW-P15	46	54.5	62.3	65.3	70.3	65.4	57.8	50.1	77.8

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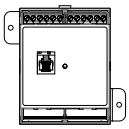
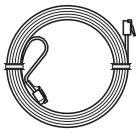
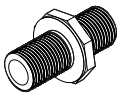
COOLER INSTALLATION COMPONENTS

ITEM	PART NO.		DESCRIPTION	QTY
1A	116631		Climate Wizard Controller Kit	1
AND				
1B	116808		MagIQtouch MS1 Industrial BMS kit	1
2	094694		Control Cable 20m 6 Pin (65')	1
3	879345		Warranty Card - (USA Only)	1
23	402604		Fitting Inlet with O Ring ½ inch BSP x ½ inch BSP Australia/Europe	1
24	402628		Fitting Inlet ½ inch BSP x ½ inch NPT USA	1
25	800103		O-Ring, Inlet, 25ID	1

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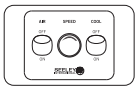
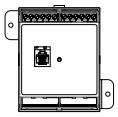
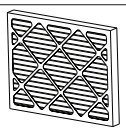
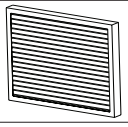
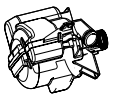
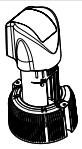
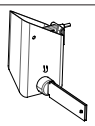
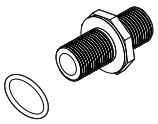
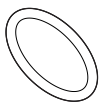
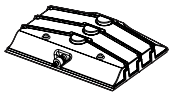
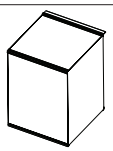
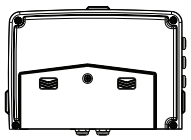
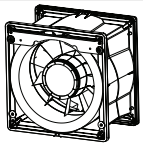
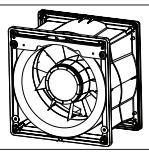
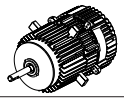
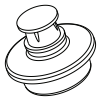
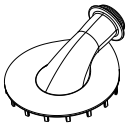
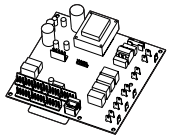
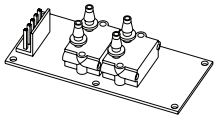
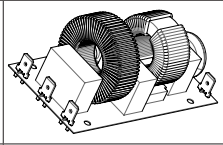
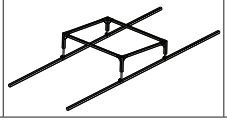
REPLACEMENT, OPTIONAL or SPARE PART COMPONENTS

ITEM	PART NO.	ILLUSTRATION	DESCRIPTION
1A	094298RP		MagIQtouch Controller
1B	116631		Climate Wizard Controller
1C	116792		MagIQtouch Switch Plate Controller Kit
1D	116808		MagIQtouch MS1 Industrial BMS kit
2A	094694		Control Cable 20m (65')
2B	864402		Control Cable 40m (131')
3	122014		Air Filter Box - Type Cardboard 6 Pack (Disposable) Size 394 x 495 x 44 Nominal Size: 406 x 508 x 50 (16" x 20" x 2")
4	122021		Air Filter Box - Type Premium Aluminium 6 Pack (Washable) Size 394 x 495 x 46 Nominal Size: 406 x 508 x 50 (16" x 20" x 2")
5	116754		Pump, Circulation 50/60Hz
6	116662		Drain Pump, 1.5m (3.0m) LEAD, 230/50
7	116679		Drain Pump, 1.5m (3.0m) LEAD, 230/60 USA
8	122137		Chlorinator Probe Assy Kit
10	122120		Solenoid Valve
11	402604		Fitting Inlet, ½ inch BSP x ½ inch BSP: Australia/Europe
12	402628		Fitting Inlet, ½ inch BSP x ½ inch NPT: USA
13A	800103		O-Ring, Inlet, Large
13B	800059		O-Ring, Inlet, Small
14	122106		Spreader Kit 1PK CW–P15
15	122113		Core Block CW-P

COOLER CONTENTS

REPLACEMENT, OPTIONAL or SPARE PART COMPONENTS

ITEM	PART NO.	ILLUSTRATION	DESCRIPTION
16	116686		Electronics Enclosure Assy
17	122038		Aerofoil Duct, Supply/Delivered Air
18	122045		Aerofoil Duct, Exhaust Air
19	122052		Attenuator Duct
20	561431		Fan (including grub screw)
21	122083		Vibration Mount Kit 5 Pack (including spacers)
22	865089RP		Motor Assy CW-P15
23	116778		Rinse Plug
24	863771		Cavitation Plate
25	671192RP		PCBA, Cooler Control CW-P15 Mk2 Aust/EUR
26	670744RP		PCBA, Pressure Sensing CW-P15
27	671284		PCBA, EMC Filter, 1 Phase
28	134246		Roofstand Kit 0-10º

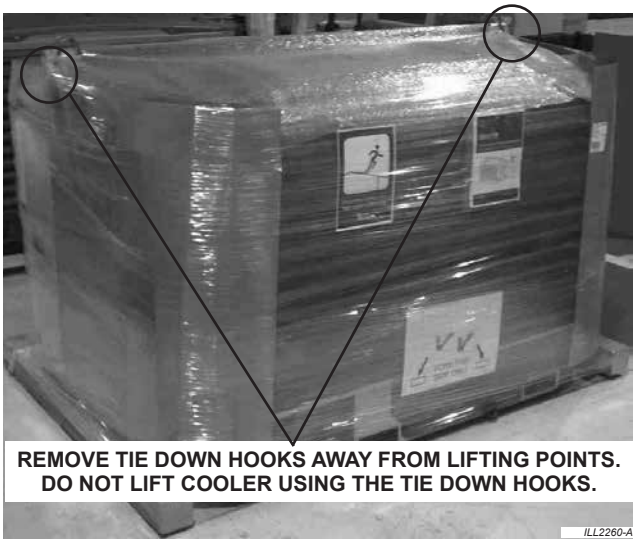
INSTALLATION

UNPACKING THE COOLER

Inspect for transport damage prior to installation.

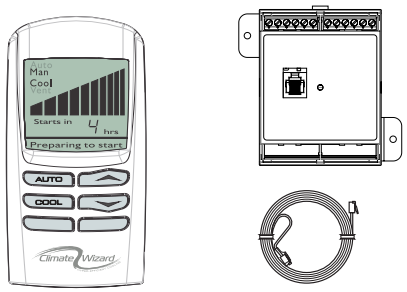
The cooler will be delivered wrapped in plastic film with timber dunnage, all of which will need to be removed before installation.

Place the control items shown below aside for later connection.



REMOVE TIE DOWN HOOKS AWAY FROM LIFTING POINTS. DO NOT LIFT COOLER USING THE TIE DOWN HOOKS.

ILL2260-A

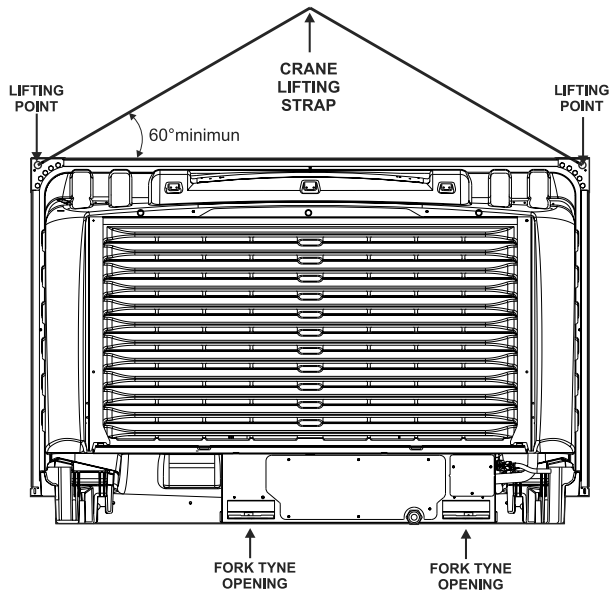


ILL2264-A

LIFTING AND MOVING THE COOLER

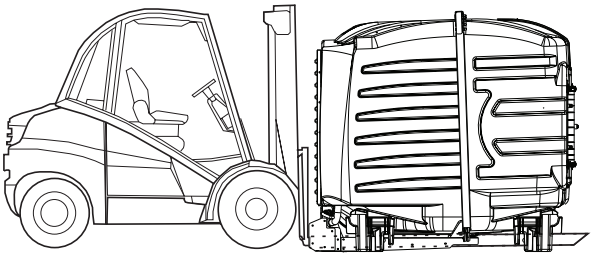
The cooler may be lifted either by fork-truck or by crane.
DO NOT SLING COOLER.
Lifting points for “D” shackles are provided for crane lifting. These eyelets are located at the top corners of the cooler. Ensure appropriately rated shackles are used.

Do not lift using any cabinet features or by retro-fitting lifting lugs. The cabinet may be damaged and/or lift safety may be compromised.



ILL2262-A

Moving the cooler using Forklift Tyne slot openings.



ILL2261-A

COOLER LOCATION

Check the proposed cooler location, to ensure that it is structurally capable of supporting the weight of the cooler, or provide an adequate alternate load bearing structure.

Always locate the cooler where it will receive a plentiful supply of fresh air, NOT in a recess where it may be starved for air or where the air is polluted.

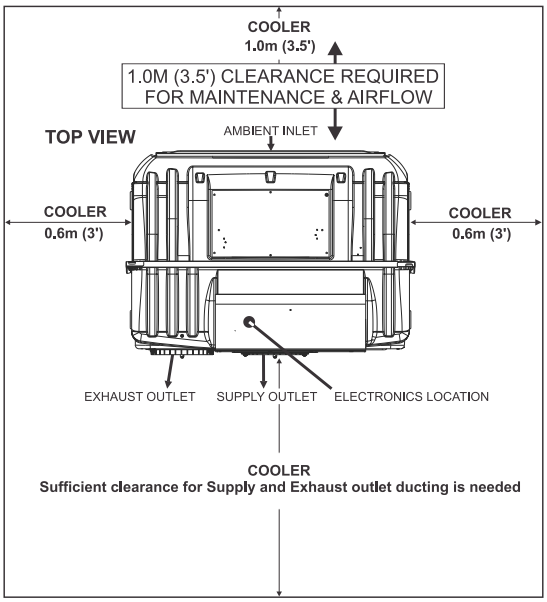
Air exiting the exhaust duct is warm and heavily laden with moisture. Ensure the cooler’s exhaust outlet location will not cause corrosion or damage to other nearby items. Do not allow exhaust air to re-circulate into the air intake of the cooler.

Ensure the location is a minimum of:

- 3.0m (10’) from a solid fuel heater flue,
- 1.5m (5’) from a gas flue,
- 5.0m (16’) from a sewer vent
- Rear = Min 1.5m (5’) from a wall

Allow adequate access to the inlet and outlet sides of cooler for maintenance. Coolers may be arrange side by side or on top of each other via a suitable frame. Provision must be made for access to electricity, water supplies and drains.

Note! Do you need to discuss the installation of items like safety anchor points with the customer?



ILL2984-A

DRIP-TRAY

When Climate Wizard coolers are installed indoors, or anywhere that water leakage could cause damage, install a corrosion resistant drip tray under the whole machine.

Recommended size

CW-P15 - 1500w x 2000d x 50h mm (59”w x 79”d x 2”h)

Apply silicone sealant between drip-tray and cooler base at every fixing.

INSTALLATION

MOUNTING/SUPPORT

A CW-P15 can be mounted on a flat horizontal surface, or nested into a rectangular roof frame

Flat Mounting

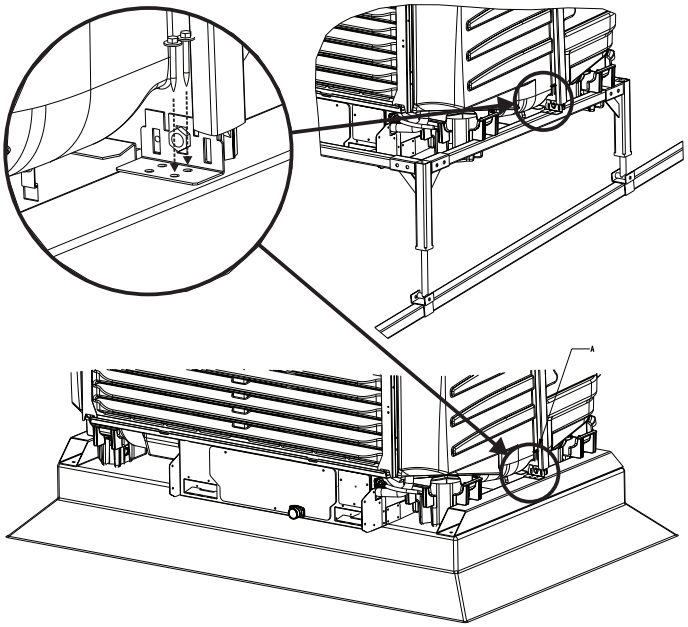
Use 90mm SHS Steel or similar as securing tracks for cooler, as seen in following diagram.

Frame Mounting

50 x 50 x 3mm (2” x 2” x 1/8”) RHS, Galvanized or Painted steel. See dimensions on page 6 to design frame. Alternatively, an adjustable Roofstand is available for order via Seeley to suit cooler size and accommodating 0 to 10º degree roof pitches. see parts list, page 7.

CW-P15: 0-10º - P/No. 134246

Use a quality spirit level of 1.2m minimum length to ensure the mounting frame is level in all directions.



ILL3516-A

VIBRATION ISOLATION

Secure the cooler to the support frame by screwing the mounting bracket in 2 places both sides using galvanized M8 bolts, nuts & washers, see previous picture.

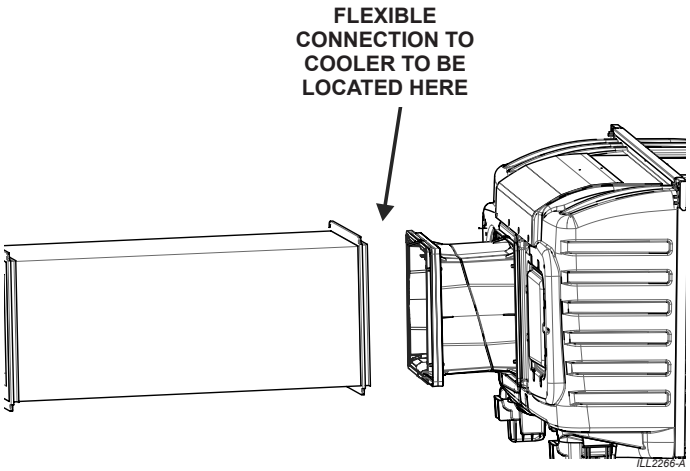
Lifting brackets can be used as tie-down points if required.

DUCT CONNECTIONS

Flexible connections are required for all duct connections to the cooler, for any ducts that are attached to the building structure. All duct-work attached to the flexible connection must be independently supported.

For duct attachment dimensions see page 3: “Cooler Views”.

Best performance is achieved from duct systems with minimal restriction.



ILL2266-A

INLET AIR FILTER ASSEMBLY

Climate Wizard coolers SHOULD NEVER BE OPERATED WITHOUT DUST FILTERS. Only use approved dust filters.

INSTALLATION

ELECTRICAL SUPPLY INSTALLATION

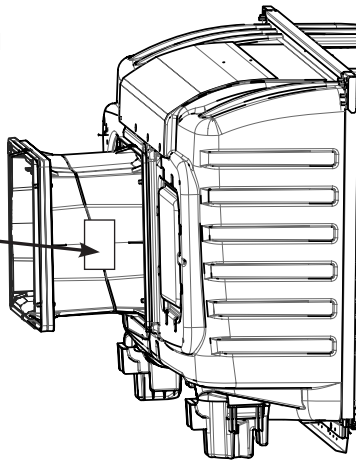
Please Note! There are specific models to match regional voltages and frequencies **which are not interchangeable**. Please ensure the cooler matches the electrical requirements shown in the following pages.

Installation of the cooler must conform to local electrical rules, regulations and standards.

It is a requirement of Seeley International that all coolers be wired with a dedicated circuit and circuit breaker to the distribution board.

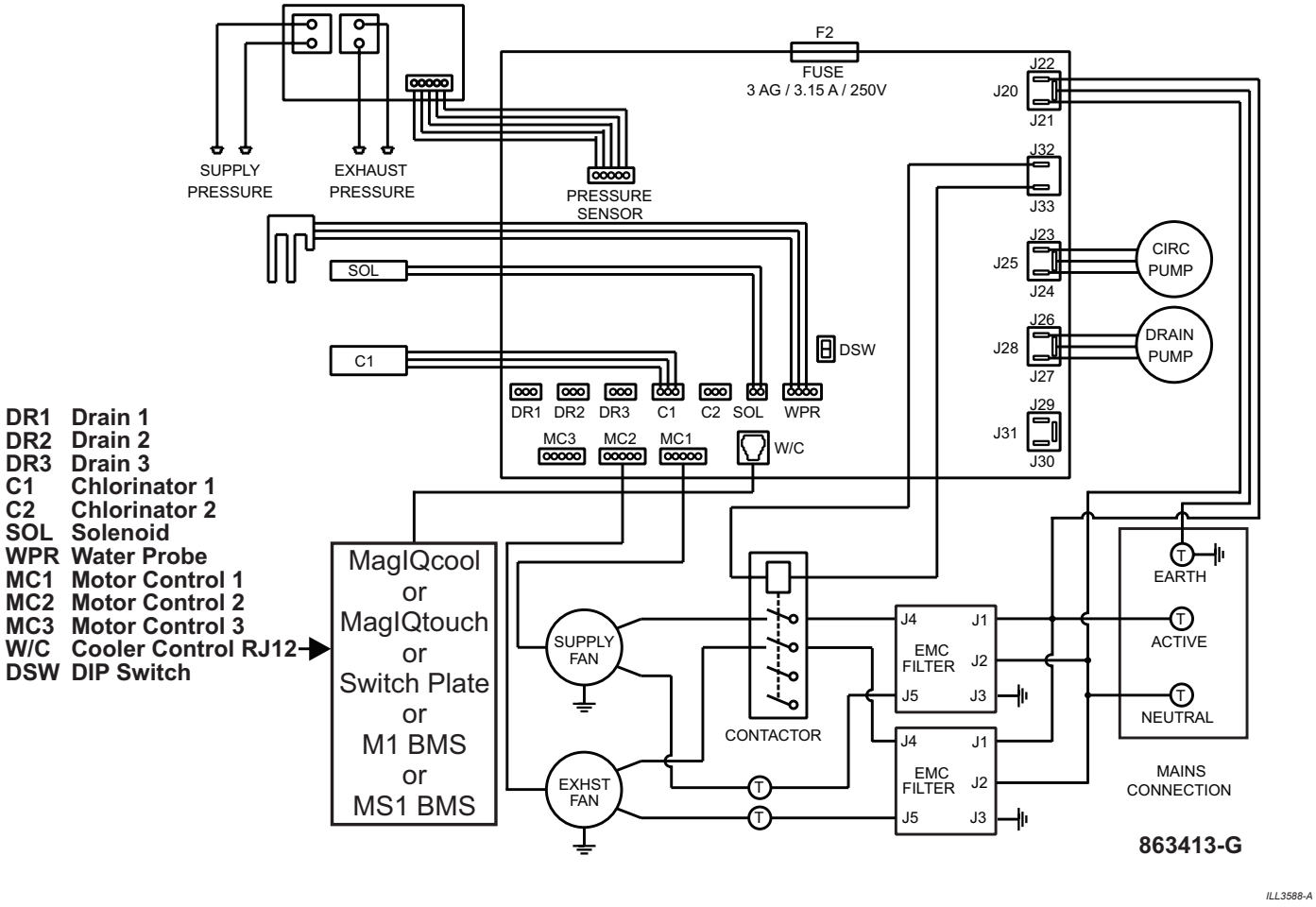
An isolation switch with all-pole disconnection must be installed on or adjacent to the coolers.

DO NOT ATTACH ISOLATING SWITCH TO UNIT DUCTING, AS REMOVAL OF DUCTING IS REQUIRED FOR SERVICING AND MAINTENANCE OF FAN MOTORS



ILL2266-A

AUSTRALIAN / EUROPE – 1 Phase, 220 - 240V / 50 Hz SUPPLY
USA - 1 or 2 Phase, 200 - 240V / 60 Hz SUPPLY

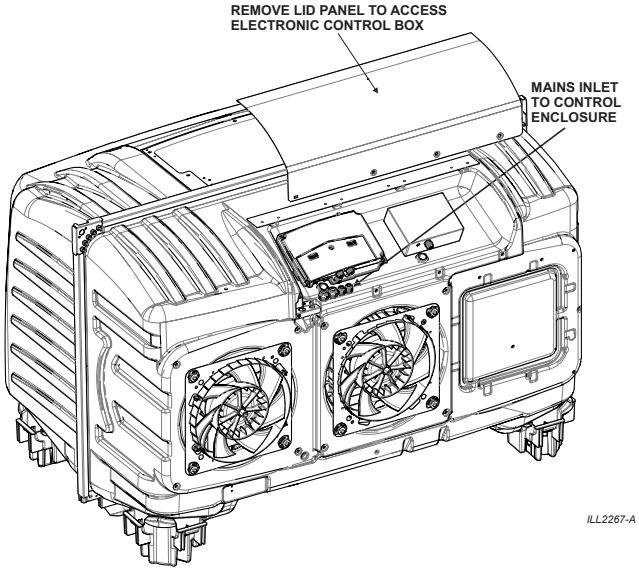


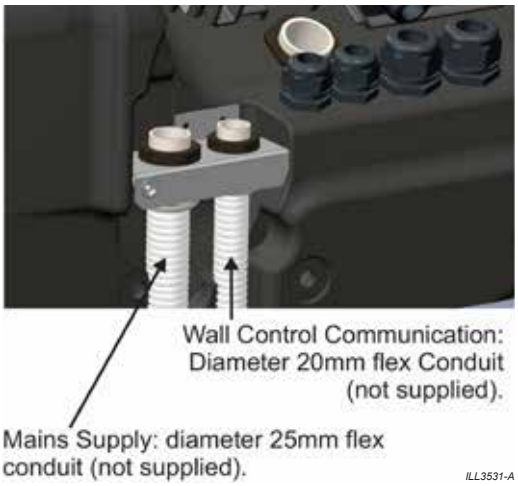
ILL3588-A

INSTALLATION

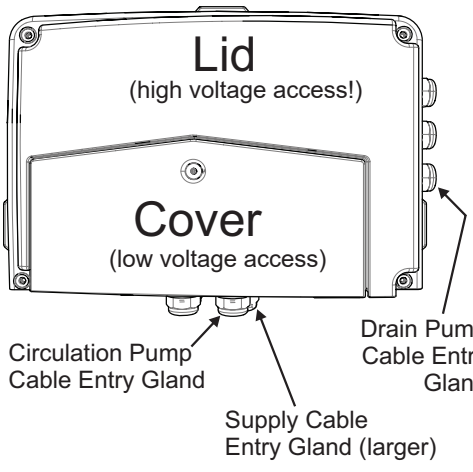
ELECTRICAL SUPPLY INSTALLATION

Mains power terminals are provided inside the electrical enclosure, with glands provided for cable entry.





SINGLE PHASE EUROPEAN/AUSTRALIAN COOLER WIRING ENCLOSURE



ELECTRICAL COMPONENT SUMMARY

High Voltage:

- Circulation Pump
- Drain Pump (Tornado)
- Motors, supply & exhaust

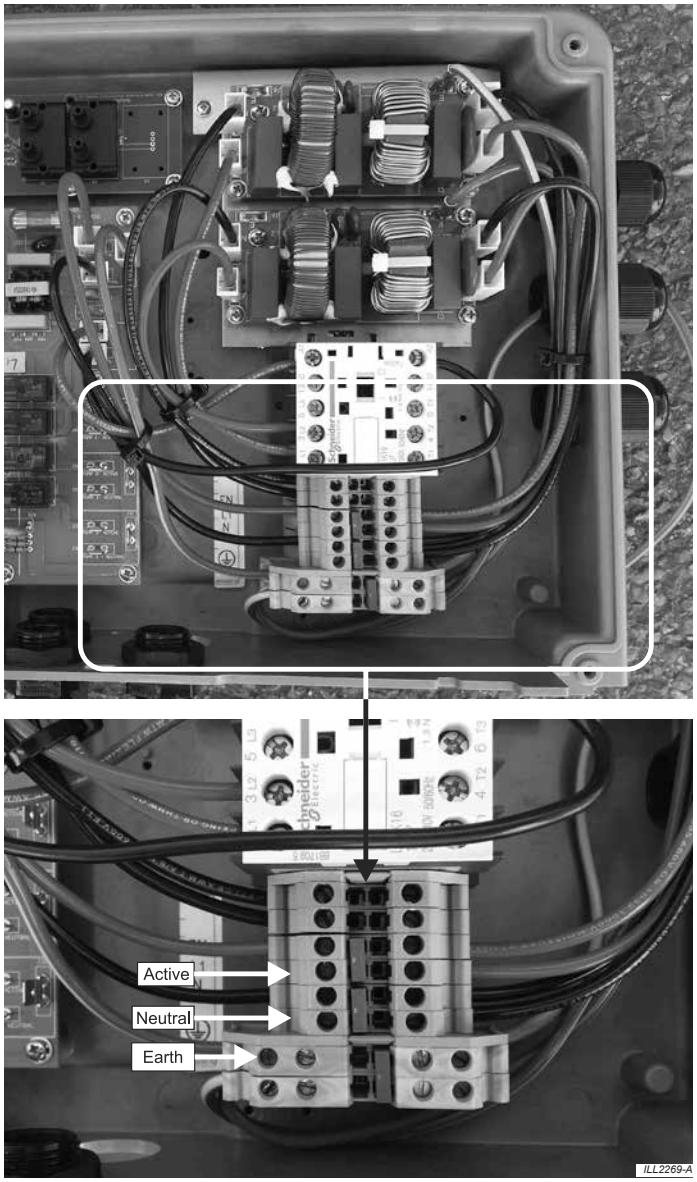
low Voltage:

- Inlet solenoid
- 3 pin probe
- Chlorinator
- MS1 BMS Controller or MagIQcool Wall Control

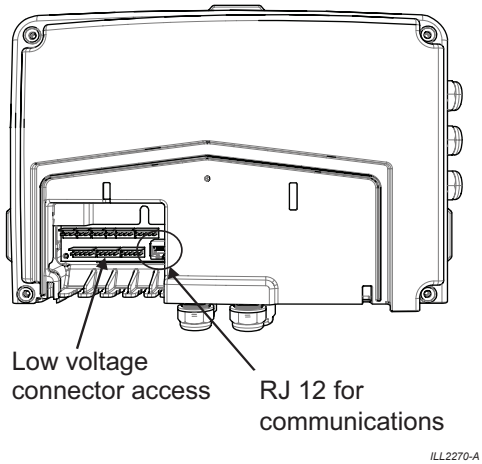
ELECTRICAL SUPPLY INSTALLATION WIRING

Installation of the cooler must conform to local electrical rules, regulations and standards.

Mains Connection



Wall control cable connection



INSTALLATION

WATER SUPPLY INSTALLATION

Installation of the water supply to the cooler must conform to local plumbing rules, regulations and standards:

Climate Wizard requires a permanent water supply to be connected. 1/2” male connection point provided on the cooler (see diagram), suitable for a compression fitting.

The following specifications for water supply are required:

- **Water Connections**:
  ½” BSP (Aus/Eur), ½” NPT (USA)
  male connection supplied
- **Water Supply**:
  100kPa (115psi) - 800 kPa (15psi)
  MAXIMUM @ 20L/min (5.3 gal/min)
- **Water Supply Temperature**:
  40°C (105°F) MAXIMUM

Important! If the water pressure exceeds this maximum specification then a pressure reducing valve is required and must be supplied and fitted by the installer.

The installer must provide a manual 1/4 turn ball type shut off valve (do not use a stop cock) in the water supply line adjacent to the cooler, subject to local plumbing regulations. This allows the water supply to be isolated whenever work needs to be done on the cooler.

ILL2271-A

In areas subject to freezing, the water line needs a drain down facility.

Swaged or soldered water connections are not to be used as this prevents servicing of the solenoid valve (if required).

ILL2985-A

WATER SUPPLY FILTRATION

Seeley International requires an inlet filter to be installed on the water supply line, external to the Climate Wizard cooler to prevent any debris from entering and damaging cooler components.

Important! Flush the water pipe to remove any contaminants (swarf, filings or dirt) before final fitting. Contaminants can lodge in the solenoid, preventing it from functioning correctly.

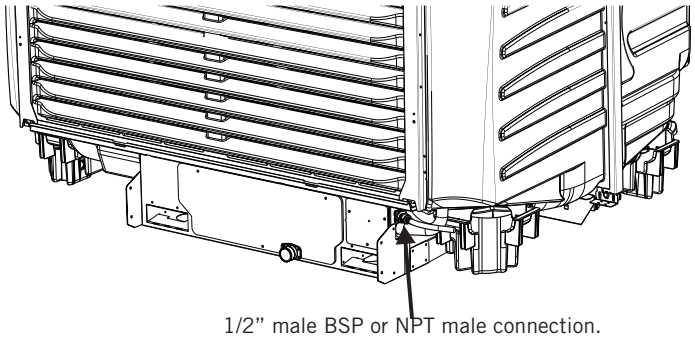
Climate Wizard’s water management system is designed to use water that is suitable to be classified as ‘potable’ and fit for human consumption. If alternative water is to be used that contains high levels of salinity, hardness, acidity or chemical contaminants, then additional filtration or treatment systems should be employed to render the water ‘potable’.

ILL2272-A

WATER HAMMER

It is the responsibility of the installer to fit an appropriate water hammer arresting device external to the cooler if required.

WATER INLET CONNECTION



1/2” male BSP or NPT male connection.
Min. 100kPa, Max 800kPa, 20L/min
(Min. 15psi, Max. 115psi, 5.3gal/min

ILL2273-A

The water supply connection is a ½” fitting that connects directly to the internally mounted electric water solenoid valve.

DRAIN INSTALLATION

A built-in Drain is controlled by the water management system. See diagram for location & details.

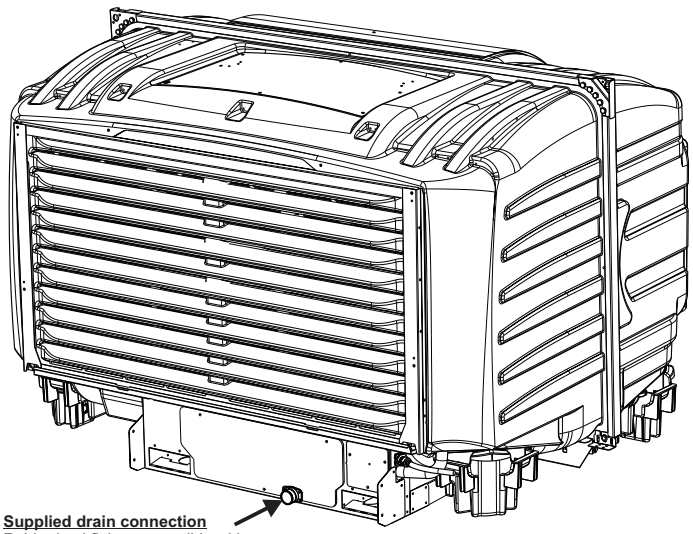
A rubberized fitting compatible with:

- 40mm (1 1/2”) BSP barb fitting
- 40mm (1 1/2”) NPT barb fitting
- 40mm (1 1/2”) DWV pipe

is supplied with a hose clamp, for draining water to waste. Minimum drain hose internal diameter is 25mm (1”), although 40mm is recommended.

Water drained from the cooler must be carried away via pipework to a suitable discharge point on the building or property, in accordance with local regulations. It is a requirement of Seeley International to never drain the water directly on to a roof.

Important: All added drain pipework must be installed **at or below** the water exit level on the cooler.



Supplied drain connection
Rubberized fitting compatible with:
- 1 ½" (40mm) BSP Barb Fitting,
- 1 ½" (40mm) NPT Barb Fitting, or
- 40mm DWV pipe.
A hose clamp is supplied.

ILL2274-A

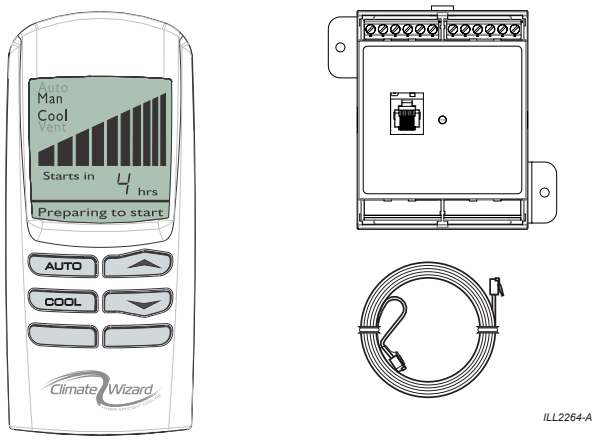
INSTALLATION

CONTROL SCHEMES

For individual, direct control installations, Climate Wizard coolers are supplied from the factory with:

(a) MagIQcool Control Kit and a 20m (65') control cable and

(b) a MagIQtouch MS1 BMS Industrial Controller



Other control options are available as alternatives to the supplied control equipment. The MagIQtouch Controller, the MagIQtouch Switch Plate controller and the M1 BMS Industrial Controller are all compatible for use with the Climate Wizard CW-P15 cooler.

These make it possible for the cooler to be controlled independently and automatically from the zone to which it is delivering cool air. The MagIQtouch and MagIQcool incorporate a thermostat that regulates fan speed to maintain indoor temperature within + 0.5°C (+ 1°F) of the set temperature. Climate Wizard coolers are also supplied with input/output connectors via a MagIQtouch MS1 BMS Interface module to enable the cooler to be controlled from an external location, using a modbus BMS system.

Whichever control option is being used, the inbuilt Climate Wizard water management and fault monitoring features are always functional. The Climate Wizard control scheme incorporates some parameters which can be altered to other settings if the default settings are not suitable.

BUILDING MANAGEMENT SYSTEM (BMS) INTERFACE (OPTIONAL)

Refer to the Installation & Operation Manual for MagIQtouch MS1 BMS Industrial Controller, included with the cooler.

This can be set up to control the Climate Wizard from EXTERNAL devices, such as PLCs and Building Management Systems.

Note! Even if a BMS is used, it is suggested that technicians obtain a MagIQtouch Wall Controller as a tool for use during servicing. The MagIQtouch Controller provides additional user and technician functions when compared to the MagIQcool Controller.

WATER MANAGEMENT SYSTEM OPERATION

Tank (reservoir) drain control

Drain opens when:

- COOL mode switched OFF and tank drain delay is activated. Drain pump cycles for a period to remove water from the tank See "Parameters" below for time delay options
- Salinity Control demands the tank (reservoir) to be drained. (Refer to the Salinity Control section following).

Inlet solenoid valve control - water

- Opens if water level is below the bottom probe.
- Remains open until water level reaches top probe.
- Opens at any time that Salinity Control demands fresh water.

Pre-wet start up cycle

This will start once the water has reached the top probe and ensures the cores are fully saturated when COOL mode is activated.

The operation of the **circulation pump** for the pre-wet start-up cycle is as follows:

- ON for 30 seconds
- OFF for 40 seconds
- ON for 30 seconds and then both fans start running at control speed setting
- OFF for 8 minutes and 30 seconds while the fans remain running at control speed setting.
- Pre-wet always occurs when COOL mode is selected after mains power interruption.....
  If the cooler has been in COOL and not VENT mode in the last 30 minutes and COOL mode is re-selected, the Pre-wet start up cycle will not activate and the cooler will resume normal operation.

Pump control

- When COOL is selected, fan and pump will start 30 seconds after water level has reached the top probe
- After a pre-wet the pump then cycles continuously:
  ON for 30 seconds OFF for 8 minutes and 30 seconds. Total Cycle time = 9 minutes.

Salinity Control
Water Conductivity sensing:

- Measures water conductivity for 10 seconds in every minute
- When conductivity exceeds the upper set point the water inlet solenoid valve is opened to allow fresh water entry.
- Monitoring of conductivity is continuous during this cycle.
- Inlet solenoid valve remains open until water level reaches top probe, then it closes.
- If water reaches top probe, but conductivity is still too high, a drain cycle starts.
- Drain pump activates until water level falls below bottom probe, then draining stops immediately, and inlet solenoid valve opens to refill the reservoir.
- Senses conductivity down to 9µS (app. 4ppm) (ie: rain water).

Water Usage sensing (for High Salinity Water) (optional to Water Conductivity sensing)

- Number of times that reservoir is filled from bottom probe to top probe is counted. When this count reaches 8, a drain cycle is initiated.
- Drain activated until water level falls below bottom probe, then draining stops immediately, and inlet solenoid valve opens to refill the reservoir.
- Pumps run at any time during the salinity drain cycle.

Chlorinator Control

The chlorinator is a pair of specially treated plates. When energised and submerged in water, electrical current flows between them, generating chlorine. There is one (1) set of chlorinator plates in the Climate Wizard. Chlorine is known to kill bacteria in water supplies and the Climate Wizard Chlorination system is designed to minimise bacteria levels within the cooler.

- Chlorinator is active at all times that the cooler is in COOL mode, AND the water level is above the bottom probe except when the salinity control is sensing (50 seconds in every 60 seconds) AND the water conductivity is >1500µS/cm.
- In the event that the water conductivity is <1500µS/cm for an extended period of time, a 24 hour clean tank drain cycle will commence.

WALL CONTROL INSTALLATION

MAGIQTOUCH CONTROLLER

Refer to Installation Manual MagIQtouch Controller, Item 1D included in Installation Components.

ILL1582-A

CONTROL SYSTEM

Climate Wizard coolers are supplied from the factory with a MagIQcool Wall Control, a MS1 BMS Control and a 20m (65') control cable. This makes it possible for the cooler to be controlled independently and automatically from the zone to which it is delivering cool air.

The MagIQcool Wall Control incorporates a thermostat that regulates fan speed to try and maintain indoor temperature within ±1°C (± 3°F) of the set temperature.

LOCATING THE WALL CONTROL

The wall control should be placed approximately 1.5 m (5') above the floor, in the general area of the cooled zone.

Placement of the Wall Control is critical for correct functioning of the in-built thermostat (incorporated in the wall control). The following points must be taken into consideration:

- Avoid direct sunlight exposure.
- Avoid mounting on external walls.
- Avoid mounting the wall control near heat sources such as room heaters, stoves and TV's.
- Do not locate in the direct airflow from the duct outlets.
- Do not locate in strong drafts or in dead spots such as corners and confined spaces.
- Always seal the cable entry hole in the wall. Hot air coming through the wall may interfere with the temperature measurement.

CAUTION! Always make sure there are no electrical cables, gas or water pipes, or the like, behind where you intend to drill.

RUNNING THE CONTROL CABLE TO THE WALL CONTROL

Using the loop on the end, draw the cable through the wall cavity to the hole made at the wall bracket. Carefully remove the tape from the cable loops and check that the plug has not been damaged. Connect the cable to the wall control and mount the wall control onto its bracket.

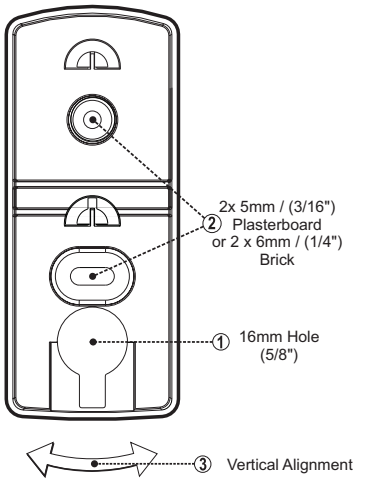
Important! Take care not to damage the cable or plug during this process. Always seal the cable entry hole.

MOUNTING THE WALL CONTROL

Fixing the wall control bracket to a plasterboard wall

Use the bracket as a template.

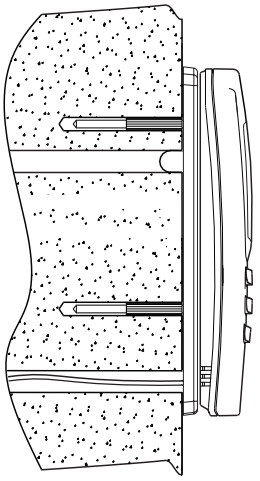
1. Drill the 16mm (5/8") hole for the wall control cable
2. Drill the 5mm (3/16") holes for the wall plugs.
3. Insert the wall plugs into the holes. Align and screw the bracket into position using the supplied screws.



ILL1210-D

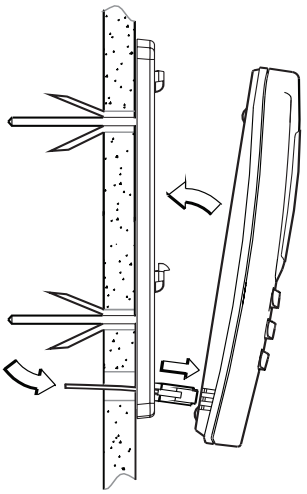
Fixing the wall control bracket to a brick wall

1. To mount the wall control bracket on a brick wall, follow the previous instructions using the wall plugs and screws provided.
2. Note that the wall plugs require 6mm (1/4") holes. Mount the wall control following the next procedure.


ILL1090-B

Fitting the wall control to the mounting bracket

1. Pull the wall control cable through the larger hole and plug it into the wall control.
2. Feed the excess cable back into the hole and seal. Slide the wall control over the protruding bracket tabs.
3. Pull the wall control down so the bracket tabs engage and locate with the keyway slots on the rear.


ILL1091-B

MAGIQCOOL CONTROL OPERATION

CONTROL PARAMETERS

A number of Control Parameters can be set to alter the operation of the cooler.

Changing Control Parameters

To enter Parameter mode using a Wall Control, the following process must be carried out within Four (4) minutes of mains power being applied to the cooler. If unsure of time since the last Mains Power “ON”, remove Mains Power to the cooler (Isolator Switch or Circuit Breaker) for a minimum of six (6) seconds so the mode can be entered.

1. Whilst the wall control is OFF, push and hold “ AUTO ” for minimum of three (3) seconds. After three (3) seconds whilst still holding “ AUTO ” button press the “ ▼ ” button. (If “ ▼ ” button is pressed before three (3) seconds, nothing will be on the display. If “ AUTO ” button is continued to be held, subsequent presses of “ ▼ ” button will allow access).
2. When parameter mode has been entered, the screen will display “A1” and “Param”. Pressing “ ▲ ” or “ ▼ ” buttons will scroll through parameters “A1” to “B3” (Refer to table below for factory settings).
3. To view the parameter value set in the wall control press “ AUTO ” momentarily. Figure “A#” on screen will change to number set, and “Param” will change to “value”.
4. To alter the “value” of the selected parameter press “ ▲ ” or “ ▼ ”. Numbers will change to show the different values the parameter can be set to.
5. To store the selected value, press “ AUTO ”. The screen will go blank momentarily as the wall control stores the parameter change, and returns the screen to “A#” and “Param”.
6. To exit parameter mode or escape from an alteration without storing a change press “ ⏻ ” button instead of “ AUTO ” button. Remember, once step five (5) has been carried out, new parameter change is permanent until again altered.
7. If no buttons are pushed on wall control, after three (3) minutes the screen will reset to “OFF” state. The procedure to enter parameter mode must be re-initiated.

No.	DESCRIPTION	VALUE
A1	**Water salinity control method:**	
	- Conductivity measuring	00*
	- Counts low to high probe fills	01
A2	**Not applicable to CW-P15**	
A3	**Pre-wet control:**	
	- No pre-wet	00
	- Pre-wet	01*
A4	**Wall Control back light:**	
	- Backlight ‘OFF’	00
	- Backlight ‘ON’	01*
A5	**Conductivity set point:**	
	- Normal conductivity - 4275 µS/cm	00*
	- Low conductivity - 2305 µS/cm	01
A6	**Tank (reservoir) drain delay:**	
	- Instant drain at COOL off	00
	- Drain 3 hours after COOL off	01
	- Drain 12 hours after COOL off	02
	- Drain 3 days after COOL off	03*
A7	**Auto re-start after Power failure:**	
	- Manual re-start when power OFF	00*
	- Auto restart	01
A8	**Temperature units:**	
	- Display 0°C	00*
	- Display 0°F	01

* = Default Value

WALL CONTROL OPERATION

Turning Cooler On

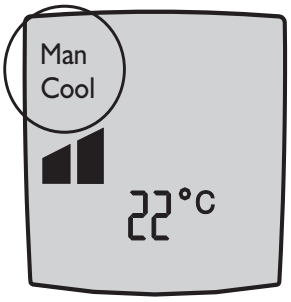
The wall control can be switched on and off by pressing the “ ⏻ ” button. The wall control will remember the previous setting it was in when the cooler was last used.

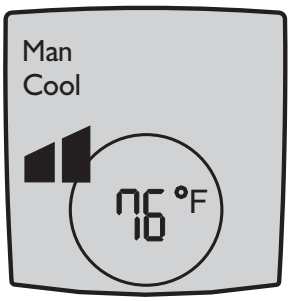
Preparing to Start

Whenever you select AUTO mode, or COOL in MANUAL mode, the cooler will take a few minutes to start as it fills with water and saturates the cooling pads. The time will be decreased if the reservoir is full or the cooler has only recently been turned OFF.

Manual Mode

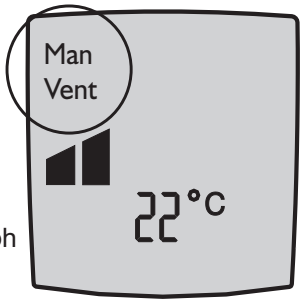
With the wall control switched ON, press the “ AUTO ” button until MAN is shown on the display. (Note: The Wall control display will default to show temperature in deg C (Celsius). If deg F (Fahrenheit) is desired, refer to previous table for instructions on how to change the A8 Temperature Unit parameter). Although the indoor temperature will be displayed, in manual mode the cooler will not be controlling the temperature.





You may then press the “ COOL ” button to switch between COOL and VENT
(VENT = fresh air being delivered but not cooled).

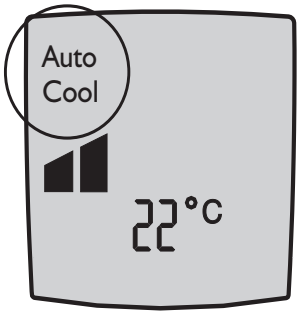
Once COOL or VENT has been selected, the wall control will maintain a constant fan speed. This is indicated by the bar graph shown on the display.



To increase or decrease the fan speed required, press either the “ ▼ ” or “ ▲ ” button.

Auto Mode

To select the AUTO mode press the “ AUTO ” button until AUTO is shown on the display. In AUTO mode the cooler will remember the last setting used and try to achieve this. Pressing “ ▼ ” or “ ▲ ” button will change the displayed ‘room’ temperature to a flashing ‘setpoint’ temperature.



MAGIQCOOL CONTROL OPERATION

Auto Mode

This 'setpoint' temperature can be adjusted by pressing the " ▼ " or " ▲ " buttons whilst the 'setpoint' temperature is being displayed. After a few seconds the wall control will stop displaying the 'setpoint' temperature and will return to the 'room' temperature.

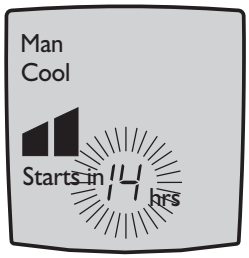
Delayed Start and Stop

The cooler can be programmed to start at a specific time or stop at a specific time.

The delayed start time can only be programmed when the cooler is OFF. To program the cooler to start in a certain amount of hours use the following sequence:

Programming in Manual Mode

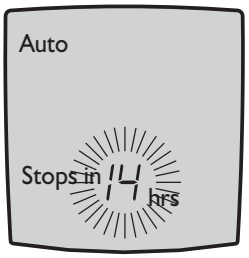
1. Press the " TIMER " button.
2. Press the " AUTO " button until "MAN" is displayed on the screen.
3. Press the " ▼ " or " ▲ " button until the desired fan speed is displayed by the bars in the middle of the screen.
4. Press the " COOL " button to set either COOL or VENT.
5. Press the " TIMER " button and the 'starts in' time will start flashing. Use the " ▼ " and " ▲ " buttons to select the desired time.
6. Press " TIMER " again.



Programming in Auto Mode

1. Press the " TIMER " button.
2. Press the " AUTO " button until flashing "AUTO" and set temperature are displayed on the screen.
3. Press the " TIMER " button and the 'starts in' time will start flashing. Use the " ▼ " or " ▲ " button to select the hour.
4. Press " TIMER " again.

The ***delayed stop*** time can only be programmed when the cooler is ON. To program the delayed time in which you want the cooler to stop use the following sequence:



1. Select the " TIMER " button and the 'stops in' time will start flashing. Use the " ▼ " and " ▲ " buttons to select the desired off time.
2. Press " TIMER " again.

NOTE: Delayed start and stop times must be re-set every day that they are required.

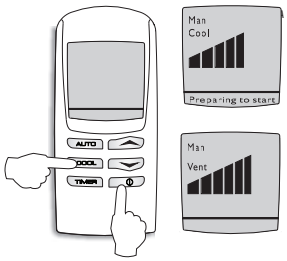
Testing the Cooler

Once you are satisfied that the cooler is installed correctly, run the cooler to ensure that everything is working as it should. We recommend that you have a short test lead on hand for coolers with a hard wired control system. You can then take the wall control to the roof and control the cooler from there.

The short test leads are available from Seeley Spare Parts Distributors
(P/No: 1.5m - 862873).
(P/No: 3.0m - 861265)

Turning Cooler On, check fan operation

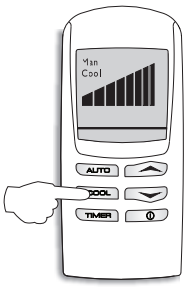
Press the " ⏻ " button to start the cooler. Press the " COOL " button to switch to "Vent"mode which will disable the pumps.
Press the " ▲ " and " ▼ " to vary the fan speed and check fan operation.



ILL1704-A

Checking Pump Operation

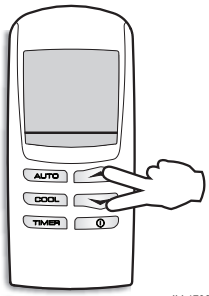
Press the " COOL " button to switch to "Cool" mode. With control in "Cool" mode, check the pump function and the start-up sequence. The solenoid will open and water begin to fill the tank. Once water reaches the top probe, the pump will start.



ILL1705-A

Checking Drain Operation

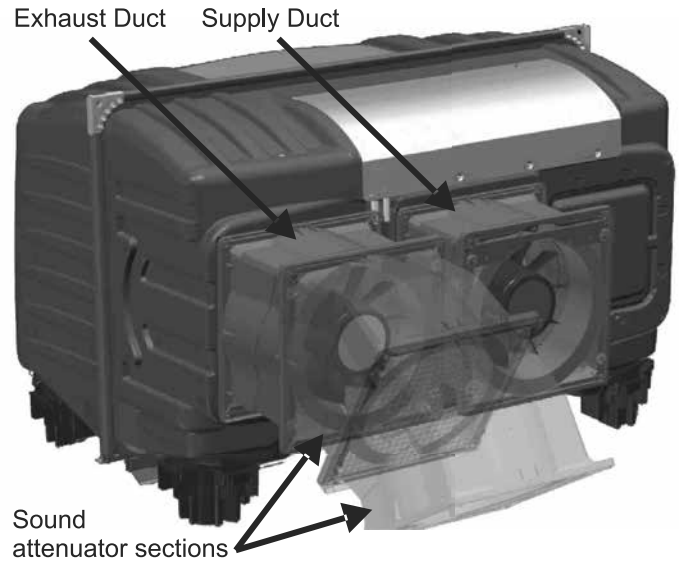
Ensure there are no water leaks. Drain the reservoir by pressing both the " ▼ " and " ▲ " buttons together, with the wall control in the "OFF" state. Check the drain fittings and pipes, making sure there are no leaks.



ILL1706-A

OUTLET DUCTING INSTALLATION

Assemble supply duct and exhaust hood as shown below using supplied M8 bolts and washers.



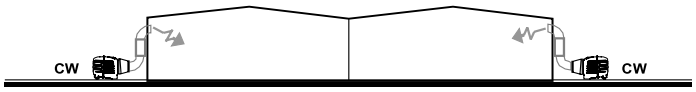
ILL2275-B

COMMISSIONING

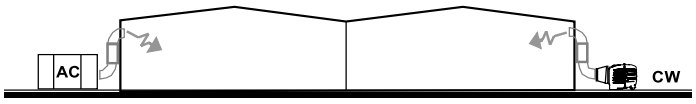
CLIMATE WIZARD COOLING APPLICATIONS

Climate Wizard is designed to be used in 3 different types of applications:

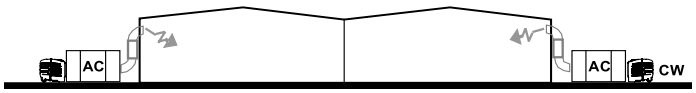
- **STAND ALONE COOLING** - in cases where the Climate Wizard is the primary source of Air Conditioning for the building.



- **SUPPLEMENTARY COOLING** - in cases where the Climate Wizard is used to augment the capacity of the existing air conditioning system, or to extend its reach into the building, or to greatly reduce the energy consumption of the Air Conditioning plant.

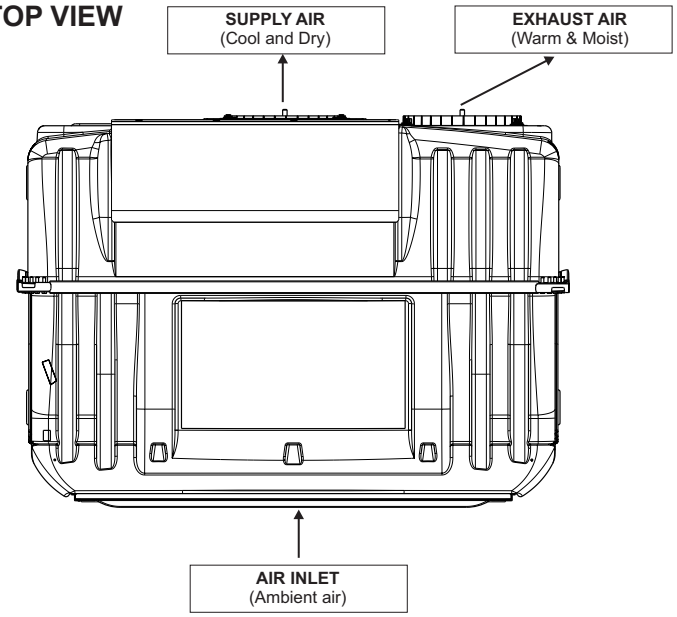


- **COLD FRONT COOLING** - in cases where the Climate Wizard is used to pre-cool the fresh air supply to new or existing refrigerated air conditioning plants in order to prolong the life of the plants, to save significant energy, and to greatly reduce demand on existing infrastructure which becomes over-stressed in heat-wave conditions.



In each application type, remarkable energy savings can be achieved compared with conventional Refrigerated Air Conditioning.

TOP VIEW



ILL2277-A

TESTING THE CIRCULATION PUMP

(This action requires a MagIQcool Controller). Refer to Pg17. Test the pump by turning the cooler on at the MagIQcool controller, in “COOL” mode.

Note! If the cooler has not been operating recently it will run a “Pre-wet” routine where the pump will operate to saturate the cores. This cycle takes 70 seconds, then the fans will start automatically.

TESTING THE DRAIN PUMP

(This action requires a MagIQcool controller). Refer to Pg17.

CLEAN UP THE SITE

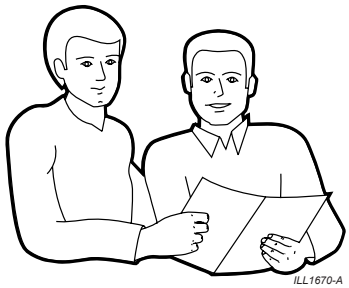
Clean up and tidy the premises, removing all rubbish.

ILL1669-A

SHOW THE CUSTOMER THEIR NEW COOLER

Please take a few moments to explain to the customer the following, along with the principles of Indirect Evaporative Cooling:

- How much to open doors and windows.
- How to start the cooler.
- Explain the “Preparing to start” mode.
- How to operate the cooler “manually”.
- How to operate the cooler in “vent” mode only.
- How to operate the cooler in “auto” or “temperature” mode.
- How to drain the cooler.
- How to turn the power and water off.
- Maintenance requirements.

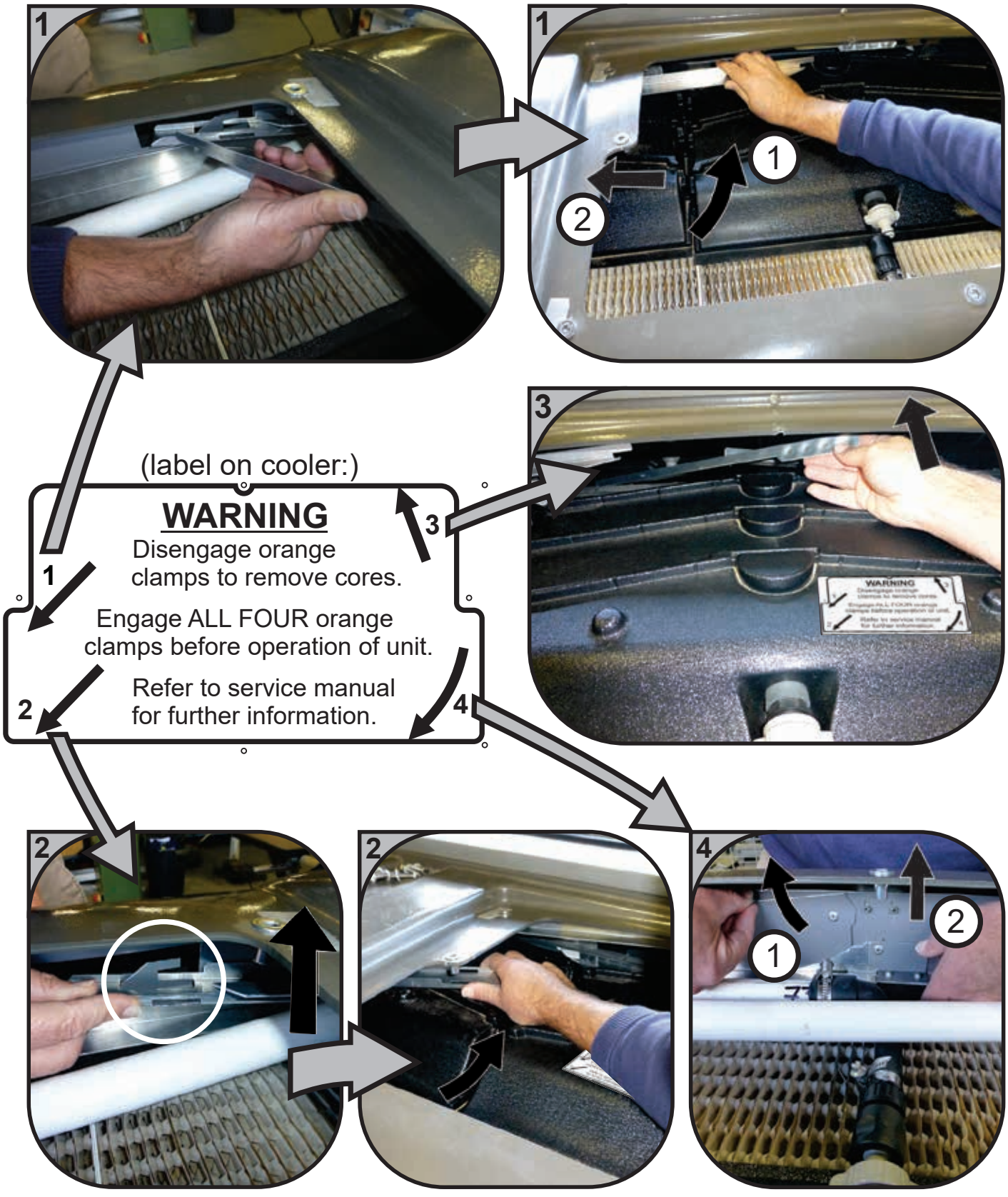


ILL1670-A

MAINTENANCE INSTRUCTIONS

CORE REMOVAL

Steps:



MAINTENANCE INSTRUCTIONS

REGULAR / PROGRAMMED MAINTENANCE

Note! All maintenance must be done by a trained, licensed technician, in accordance with National and Local Regulations (eg AS/NZS 3666.2 etc).
Some activities may require 2 persons to comply with local Health and Safety regulations.
Maintenance procedures are described in the following pages.

Note! The heat exchanger cores are unique to CW-P15's and have been manufactured to give the highest possible cooling performance. **WHEN REPLACING CORES DO NOT USE ALTERNATIVES.** The manufacturer is not responsible for the performance, damage to, or safety of the cooler if any form of alternate cores are used.
Using any other type of core will seriously affect the cooler's performance and may cause water carry-over that can enter the supply air ducts.

CAUTION! Disconnect the power supply to the cooler before any maintenance, filter change or servicing.

REPLACE BOX FILTER

Purpose:

To replace or wash Box filters after a period of time, to prevent restrictions to inlet air

Method:

- Remove screw at the top of the louvre retainers


ILL3522-A

- Un-clip louvre retainers on either side of the louvre panel


ILL3523-A

- Remove louvre panel by disengaging its bottom clips, and lowering the louvre panel away.


ILL3524-A

- Un-clip two retainer clips.


ILL3525-A

- Remove and discard or wash box filters.


ILL3526-A

- Assemble six new box filters of nominal size 406 x 508 x 50 (16" x 20" x 2")
- Ensure air flow direction is noted.
- Re-assemble trim components in reverse order of above

CLEAN CHLORINATOR

Purpose:

To remove scale build up on chlorinator plates that will prevent the correct function of chlorinators.

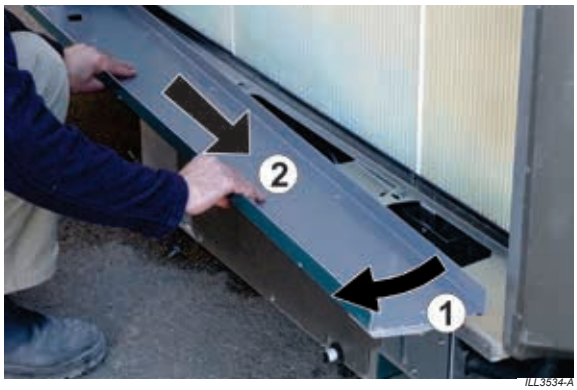
Method:

- Remove filters as above.
- Remove filter retainer upright columns.


ILL3527-A

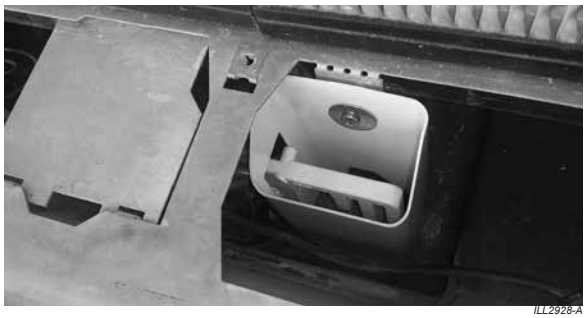
CLEAN CHLORINATOR cont

- Disengage earth tab on right-hand side of utilities cover, remove utility cover screws, and remove cover.



ILL3534-A

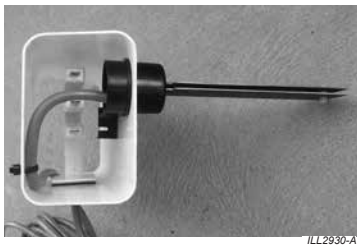
- Unscrew the utilities mount and pull out bracket with chlorinator attached.


ILL2928-A

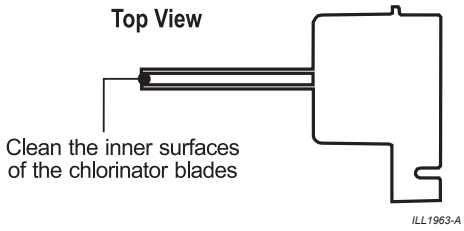
- Unscrew the enclosure.


ILL2929-A

- Withdraw (and insert) the enclosure assembly on an angle as shown above.


ILL2930-A

- Clean the chlorinator blades by gently wiping the contact surfaces with a soft brush, cloth or non-abrasive wooden or plastic implement. Be sure to clean the inner surfaces of the chlorinator blades. Do not scratch or damage the metallic surfaces of the chlorinator.

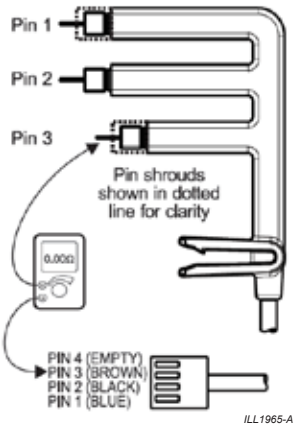


ILL1963-A

- Reverse above process to re-assemble.

CLEANING, REPLACING AND CHECKING THE WATER MANAGEMENT PROBE

- Remove the small plastic shrouds from the first and third pins
- Clean the pins by wiping the contact surfaces with a soft cloth - do NOT use abrasives
- Check the probe pin resistances using a multi-meter (refer figure and wiring diagram - you'll need to unplug the probe lead from the main PCB to do this)
- Resistance should be 0-0.5 ohms. A reading of 5 ohms or greater indicates a faulty probe.
- Check for shorts between pins: There should be an open circuit
- Refit the shrouds over pins 1 & 3.



ILL1965-A

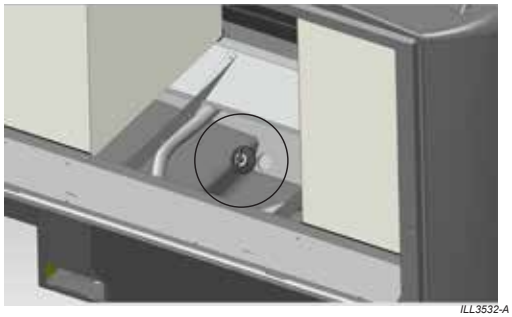
CLEAN RESERVOIR INTERIOR

Purpose:

To remove build-up of scale and deposits on the reservoir (tank).

Method:

- Remove the middle core as per the procedure for core replacement
- Additional cores may need to be removed to access all surfaces of the tank.
- Remove the rubber bung in the bottom left hand corner of the reservoir. Using a soft brush and hose, flush out the dirt and deposits through the bung hole. Take care to prevent water from entering the supply ducting.


ILL3532-A

- Replace the rubber bung.
- Replace core(s) as per core replacement procedure.

CLEAN DRAIN PUMP

Purpose:

To clean the drain pump strainer after a period of time to prevent restrictions to the water drain function.

Method:

Refer to replacing the drain pump section.
To expose the strainer for cleaning.

Note! There is no need to disconnect the pump electrical cables.

MAINTENANCE INSTRUCTIONS

INFREQUENT / PROGRAMMED MAINTENANCE

Replace cores

Purpose:

To remove and replace the cores that may have become inefficient over time due to deposits and degradation of the flocked surfaces.

Method - removal

- **Turn off Power and water to the cooler.**
- Remove filters as per filter replacement procedure.
- Remove “top seal filter frame”.


ILL3533-A

- Remove “utilities cover”

ILL3534-A

- Remove “top hatch cover”, the steel panel above the middle core.
- Unplug hose snap fit connectors to each of the three spreaders.


ILL3535-A

For the following steps there is an orange dot to demark each of the clamp levers.

Note! It is important to disengage and re-engage core clamps in the correct order. This will allow cores to release and compress correctly to create an effective seal.

- Disengage core seal clamp on the outlet side of the cores by lifting the mechanism handle upward.


ILL3536-A

- Disengage the handle extension attached to the rear core clamp from the front clamp lever.


ILL3537-A

- Using the handle extension, fold the rear clamp handle towards the cooler outlet.


ILL3538-A

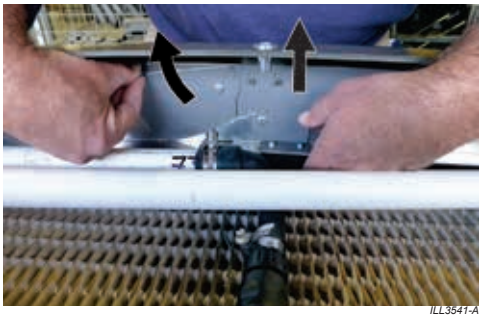
- Disengage the front clamp lever from its clip.


ILL3539-A

- Swing the front clamp lever towards the cooler outlet.


ILL3540-A

- Reach inside the top hatch cover and disengage the swinging cam lock, see below. Pull the rails that seal against the top seal of the cores up towards, away from the cores.


ILL3541-A

MAINTENANCE INSTRUCTIONS

- Reaching in through the top hatch opening, lift the front edge of the spreader and remove from the core.


ILL3542-A

- Slide the middle core out through the opening at the front of the cabinet.


ILL3543-A

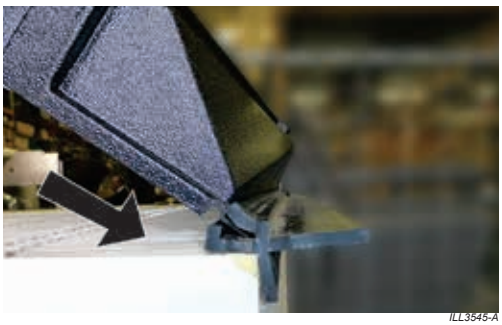
- Slide the next core to the middle of the cabinet and remove the spreader, the core can now be removed through the front of the cabinet.


ILL3544-A

- Repeat with the remaining core.

Method - assembly

- Insert the new cores through the opening in the front of the cabinet.
- Once each core has been installed into the centre position assemble the spreader by hooking the rear flange into the groove in the rear seal of the core.


ILL3545-A

- Move the outer cores as far as possible to the left and right to leave the maximum gap possible for the third and final core.


ILL3546-A

- Insert the third and final core and spreader.
- Replace the cover utilities core inlet and screw into place. This will keep the cores straight for the next step.

ILL3547-A

Note! For next steps, Core clamps MUST be engaged in the correct order.

- Pull the front clamp lever towards you. This compresses the cores. Lock the handle into the tab.


ILL3548-A


ILL3549-A

- Locate the rear core clamp handle extension and use it to swing the rear clamp into position.


ILL3550-A

MAINTENANCE INSTRUCTIONS

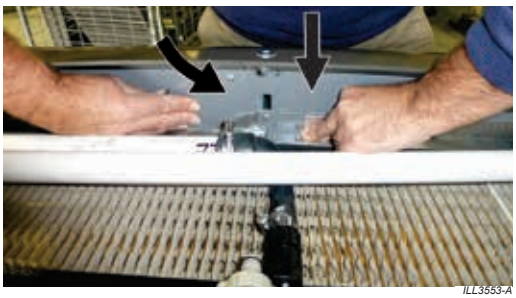
- Lock the handle extension into the front core clamp handle.


ILL3551-A

- Push down the rear seal clamp handle to engage the clamping of the rear core seals, lock into position with the swinging cam.


ILL3552-A

- Replace hose snap fit connectors to the spreaders.
- Push down on the rails that seal the top front core seals and Recheck all clamps and connectors are engaged properly.
- Cycle the watering of the cores to check for leaks from the hose snap fit connectors.


ILL3553-A

- Replace top hatch cover and utility cover.
- Replace filter trim components, filters and louvre panel.

BREAKDOWN MAINTENANCE

Replace or service supply or exhaust fans

Purpose:

To replace a non-functioning supply fan motor, note the exhaust fan procedure is similar but with fewer steps.

Method:

- **Turn off Power to the cooler.**
- Remove the section of ductwork attached to the cooler to gain access to the fan area.
- Remove the fans by loosening the grub screw that secures it to the motor shaft. Use an 3mm hex key. When replacing the supply fan motor, remove both the supply and exhaust fans for better access to the inside of the cooler.


ILL3554-A

- Open the electronics cover and electronics enclosure.
- Unplug the motor power boot-lace wire terminations from the terminal blocks
- Pull the cable through the cable gland in the electronics enclosure and through the two cable glands in the plastic housings.


ILL3555-A

- Unplug the communications cable connector from the control PCB.


ILL3556-A

- Unscrew the four bolts in the corners of the plate venturi shroud. 12mm on ½" socket or spanner.


ILL3557-A

- Carefully pull the fan assembly out supporting its weight. It will still be attached to the cooler by a pivoting arm. This arm will take the weight of the fan assembly and will allow the assembly to tilt outside the cooler.


ILL3558-A

MAINTENANCE INSTRUCTIONS

- Thread the connector through the cable gland in the plastic housings. It is recommended that the cable gland inside the cooler is unscrewed from the housing to provide better access when passing the connector through it.


ILL3559-A

- Remove the four brackets that clamp the motor to the venturi.


ILL3560-A

- The motor can now be removed from the cooler and replaced. Use a philips head screwdriver.


ILL3561-A

- Reverse the above steps to re-assemble the new motor.
- **Note!** Ensure excess cable length is secured to the internal conduit to prevent it being drawn into the fan.
- When fitting the fans back on to the motor shaft, align the flat on the shaft with the grub screw. Push the fan into the Venturi up to a dead stop on the shaft. The fan and the Venturi should be aligned.

ACCESSING THE SOLENOID, CHLORINATOR, PROBE OR DRAIN PUMP

Purpose:

To replace a faulty component.

Method:

- **Turn off Power to the cooler.**
- Turn off the water supply to the solenoid valve
- Remove the water supply from the solenoid valve.
- Remove the solenoid valve access cover by removing the three screws. **Note**! Do not remove the screw in the middle of the cover.


ILL3562-A

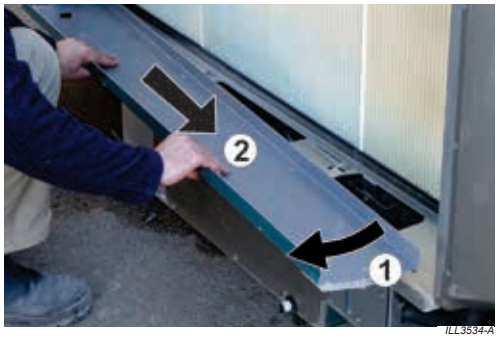
- Rotate the solenoid valve opening/close past the supporting tab, ready to remove it thought the square opening.


ILL3563-A

- Pull to remove the solenoid valve from the cooler.


ILL3564-A

- Re-position the grommet in to the hole in the plastic housing.
- Examine the solenoid valve for blockages before deciding that it will need to be replaced.
- Remove the utilities cover to gain access to the inside of the cooler.



ILL3534-A

MAINTENANCE INSTRUCTIONS

- Back-off the cable gland through which the solenoid cable is routed.
- Remove the metal electronics cover and the electronics enclosure lid.

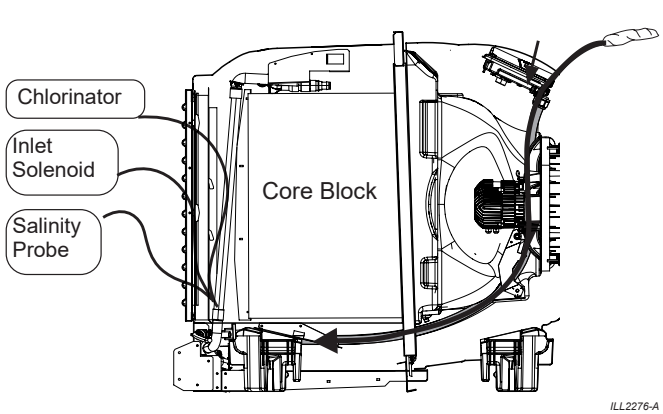

ILL3565-A

- Unplug all four cable terminations that are routed through the left hand side conduit. This includes the chlorinator, water management probe and solenoid valve cables.

CABLE REMOVAL

WARNING!
IT IS A SAFETY HAZARD to cut electrical cables to replace electrical components, and will void warranty.

LOW VOLTAGE CABLE - (RHS port)



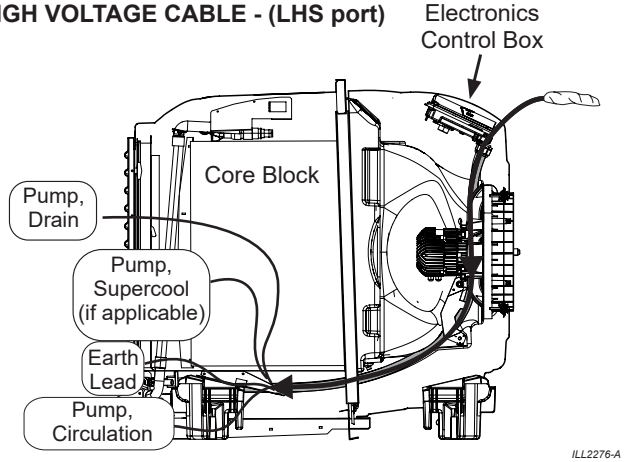
ILL2276-A


ILL3566-A

- Tape the ends of the cables together making sure the connectors are staggered to form a tapered point.


ILL3567-A

HIGH VOLTAGE CABLE - (LHS port)



ILL2276-A


ILL3568-A

- Pull the bundled cables through the conduit from the inlet side of the cooler. Do not force the cable as damage to the connectors may occur. If the cable becomes stuck, push it back through and try re-taping the connectors.


ILL3569-A

- Reattach the connector to the bundle of cables and thread it back up through the conduit and into the electronics enclosure area.
- Remove the faulty solenoid valve and cable from the bundle and thread its connector through the cable gland.
- Replace the solenoid valve and thread the connector through the cable gland. Tighten cable gland with minimal cable slack outside tank.
- Unwind tape and plug the connectors back into the PCBA, thread the cables into the slots in the electronics enclosure and fasten the lid back into position.
- With the aid of a smear of lanolin, vaseline or silicon grease, push the replacement solenoid valve into the rubber grommet in the tank.
- Rotate the solenoid valve up and over the tab in the side wall.
- Put the electronics cover and solenoid cover back in position.
- Reconnect the water supply to the solenoid valve.

Cable Re-installation: Reverse of removal procedure.

MAINTENANCE INSTRUCTIONS

REPLACE THE CHLORINATOR, PROBE AND TORNADO PUMP

Purpose:

To replace faulty components

Method:

- **Turn off Power to the cooler.**
- Remove the utilities bracket as per the instructions for cleaning the chlorinators.
- Remove the component that requires replacement.
- Replace the faulty component.
- Replace the cable as described in the solenoid valve replacement procedure.

REPLACE THE DRAIN PUMP

Purpose:

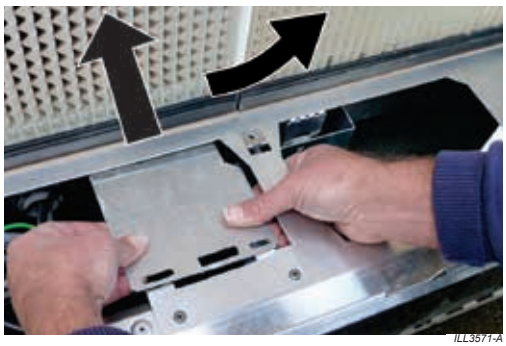
To replace a faulty Tornado drain pump
(used to drain the reservoir)

Method:

- **Turn off Power to cooler.**


ILL3570-A

- Remove the Utilities Cover to gain access to the drain Pump.


ILL3571-A

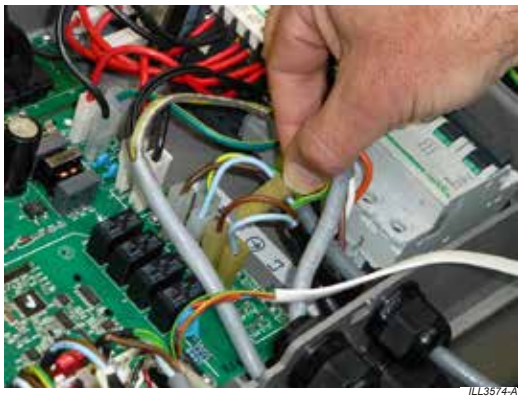
- Slide off the plate that covers the pump by pushing down on the plate to disengage it from a pair of tabs.


ILL3572-A

- Pull out the drain Pump.


ILL3573-A

- Remove the tube at the base of the pump.
- Remove the cover on the electronics enclosure to gain access to the cable terminals.


ILL3574-A

- Unplug the drain pump terminals from the PCBA, noting the position of the wires.


ILL3575-A

- Remove the cable gland on the side of the electronics enclosure to allow the terminals to be threaded through the gland.


ILL3576-A

- Tape the three terminals together in a staggered formation to make it easier for the cable to be pulled through the conduit without snagging.

- Remove any cable ties that bundle the excess cable length.


ILL3577-A

- From the inlet side of the cooler, pull the cable through the conduit.


ILL3578-A

- From the electronics enclosure side of the cooler, feed an electrician's cable chasing snake through the conduit.


ILL3579-A

- Tape the terminals of the replacement drain pump to the cable snake and pull through to the electronics enclosure.
- Thread the new cable through the cable gland and plug the terminals into the PCBA.
- Re-assemble the drain pump pipe and holding plate and secure any excess cable length with cable ties.
- Replace the electronics cover and restore mains power to cooler.

REPLACE THE CIRCULATION PUMP

Purpose:

To replace a faulty circulation pump

Method:

- **Turn off Power to the cooler.**
- Remove the utilities cover to gain access to the inside of the housing.


ILL3580-A

- Remove the pump access cover at the front of the cooler.


ILL3581-A

- Remove the horizontal rubber hose attached to the circulation pump.


ILL3582-A

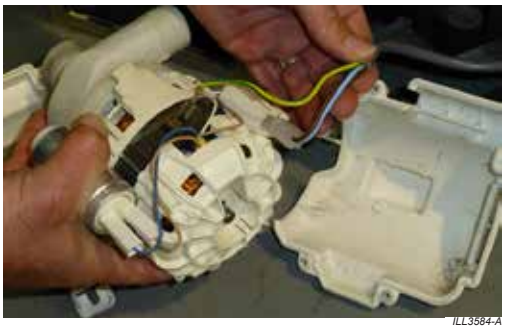
- Unscrew the single screw attaching the circulation pump to a tab on the aluminium chassis.


ILL3583-A

- Slide the circulation pump spigot out of the rubber collar in the cooler tank.

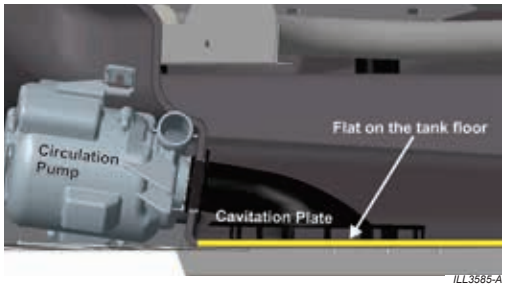
MAINTENANCE INSTRUCTIONS

- Open the clam shell housing of the circulation pump and unplug the cables, noting the wiring sequence.



ILL3584-A

- Rewire the replacement circulation pump and reassemble the clam shell housing.
- Insert the circulation pump spigot into the rubber collar, ensure that it is fully seated. The application of a smear of lanolin grease or silicone lubricant will help to assemble the pump.



ILL3585-A

- Ensure that the cavitation plate (flat, round rubber fitting) is flat against the floor of the reservoir.
- Replace the screw and rubber hose with hose clamp.
- Restore mains power to cooler.
- Fill tank and check for leaks.

REPLACE CONTROL ELECTRONICS

Purpose:

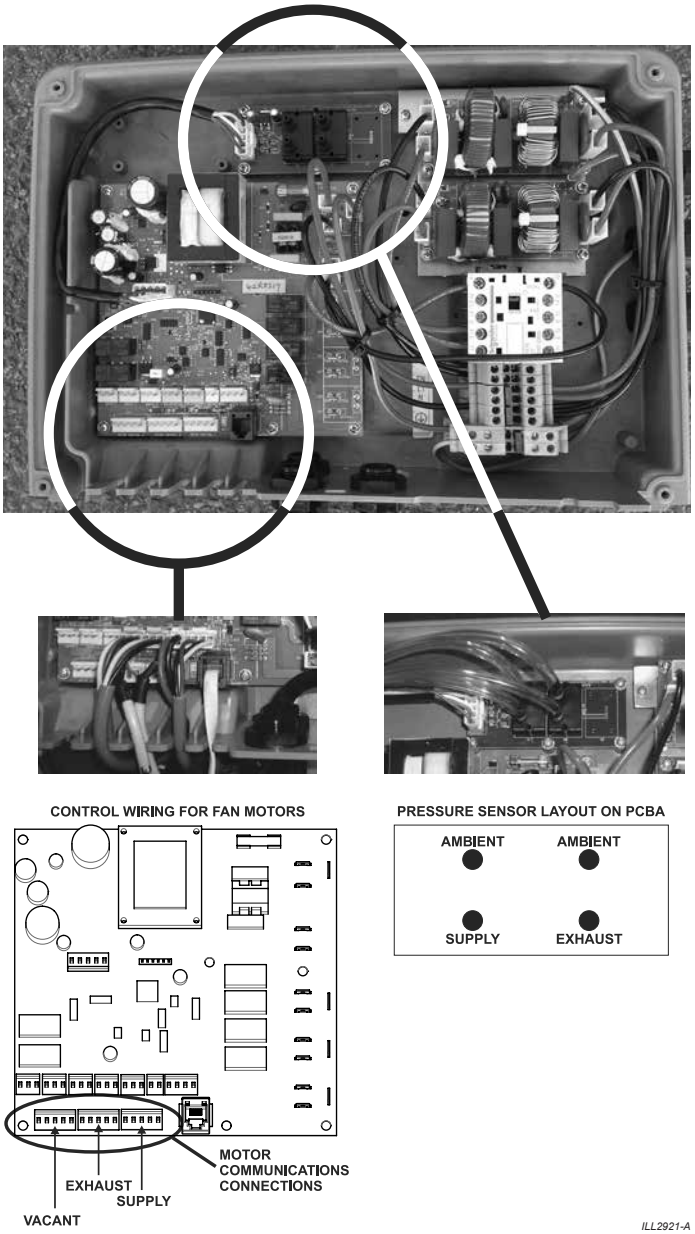
To replace or service faulty control electronics including the pressure sensor PCBA, Electrical filters, and the main control PCBA.

Method:

- **Turn off Power to the cooler.**
- Remove electronics cover.

ILL3586-A

- Unplug all wiring and / or pressure tubes required to remove PCBA, unscrew PCBA to remove, carefully noting their positions.



ILL2921-A

- Reinstate wiring.

USER MAINTENANCE INSTRUCTIONS

OPERATING AND FAULT CODE DIAGNOSIS

There are 2 methods for confirming the cooler operation and diagnosing faults on the cooler.

A. LED Display

There are two LED indicators on the main control board (located in the control box) - refer below.

- Tri-Colour LED (upper LED) is used as an operational and fault indicator. NOTE: Tri-colour LED double flashing Green (every 2 seconds) = Normal Operation
- Red LED (lower LED) is used to indicate the condition of water salinity and configuration of the water management system.

B. Wall Control Display

If controlled by a MagIQcool Wall Control, the wall control can be used to enter the fault code history log, which details the last four (4) faults in the system and the last four (4) types of faults that have occurred.

The fault code history log may be entered at any time after the cooler power has been turned ON. The fault code history log is entered via the wall control using the following method:

1. Whilst the wall control is in “OFF” state, push and hold “AUTO” and UP “▲” buttons simultaneously for at least one (1) second.
2. After one (1) second “F1” and the word “Param” will be displayed.
3. Pressing “AUTO” button will change “F1” to the current or last fault code number e.g., “01” and the word “Param” will change to the word “Value” this indicates the fault code number that occurred.
4. Pressing “AUTO” button will return to the original “F1” and “Param” display.
5. Pressing buttons marked UP “▲” or DOWN “▼” will scroll through the fault log.
6. Fault indicators - “F1 to F4” - are the last four faults that were recorded by the CPMD, and they might get repeated if the fault has re-occurred. Fault indicators - “FA to Fd” - are the last four types of faults that have occurred in this CPMD, and they will only repeat if a different type of fault has occurred since the last time this type of fault occurred.
7. If no buttons are pushed after sixty (60) seconds the wall control will reset to the “OFF” state. The procedure to enter the fault code history log must then be re-initiated.
8. Clear fault code once you have diagnosed the fault. Whilst in fault code mode press and hold the “COOL” button for five (5) seconds.

RED COLOURED LED

This LED indicates the status of the conductivity measurement circuit and the status of the Salinity Control Method.

LED	Salinity Control Method	Conductivity Circuit Status
1 Flash then 2 seconds OFF	Water Manager	Measured conductivity is below the conductivity set point
2 Flashes then 2 seconds OFF	Water Manager	Measured conductivity is above the conductivity set point
3 Flashes then 2 seconds OFF	Fill count	Not measured
5 Flashes then 2 seconds OFF		No water control function
Continuously ON	All	Lower probes are open circuit or conductivity is less than 9uS/cm

TRI-COLOURED LED

This LED indicates the status of the cooler and indicates Fault Codes (if applicable).

LED	Cooler Status	Fault Description	MagIQcool Fault Code	MagIQtouch Fault Code
2 Green flash then 2 seconds OFF	Normal Operation	The main program loop is running, no Fault present.		
1 Red Flash then 2 seconds OFF	Communication Failure	Wall Control: No valid message for 10 seconds. System shuts down.	Fault Code #1	01
2 Red Flashes then 2 seconds OFF	Failure to detect water at low probe	Water has 20 minutes to reach the LOW probe when the solenoid valve is on. If it fails to do so the Fan motor and pump shut down and this Fault is activated.	Fault Code #2	02
3 Red Flashes then 2 seconds OFF	Failure to detect water at high probe	Once water has reached the LOW probe, water has 20 Minutes to reach the HIGH probe. If it fails to do so the Fan motor and pump shut down and this Fault is activated.	Fault Code #3	03
4 Red Flashes then 2 seconds OFF	Failure to clear low probes during drain	When the drain has opened water has 20 minutes to clear the LOW probe. If it fails to do so the Fan motor and pump shut down and this Fault is activated. This will occur after a timed Drain delay when the Pump has been switched off, or during a Salinity Drain.	Fault Code #4	04
5 Red Flashes then 2 seconds OFF	Water detected at high probe but not at low	Low probe is dirty or faulty. If it fails to detect, the Fan motor and pump shut down and this Fault is activated.	Fault Code #5	05
6 Red Flashes then 2 seconds OFF	Failure to clear high probe	If after 4 hours of pump running water has not cleared the HIGH probe (i.e. pumps not working), If it fails to do so the Fan motor and pump shut down and this Fault is activated.	Fault Code #6	06
7 Red Flashes then 2 seconds OFF	Motor Error Supply Fan	If an Error has occurred in the motor drive circuit.	Fault Code #7	07

USER MAINTENANCE INSTRUCTIONS

TRI-COLOURED LED - cont.

This LED indicates the status of the cooler and indicates Fault Codes (if applicable).

LED	Cooler Status	Fault Description	MaglQcool Fault Code	MaglQtouch Fault Code
8 Red Flashes then 2 seconds OFF	Warm Start	If the mains input voltage is under 90Vac but not low enough to reset the PCB, the system switches off the Fan and Pump and indicates this Fault. If the Voltage returns to a usable voltage level without resetting the PCB a Fault Code #8 is recorded in the system log.	Fault Code #8	08
10 Red Flashes then 2 seconds OFF	Chlorinator Fault	The Chlorinator is Short Circuit, Open Circuit, Degraded or has Reached end of life. This fault will activate a 24 hour clean tank drain cycle until remedial action is taken.	Fault Code #'A'	10
13 Red Flashes then 2 seconds OFF	Motor Error Exhaust Fan	If an Error has occurred in the motor drive circuit.	Fault Code #D	13
14 Red Flashes then 2 seconds OFF	Watering Cycle	A watering cycle comprises the circulation pump time, core drain time, tank fill time and salinity check. If the watering cycle exceeds its preset time, +1 is added to a register. If the next watering cycle is completed on time -1 is deducted from register. If the register >=3 then the cooler will continue to operate with a warning symbol displayed on the wall control. Check the water supply to the cooler is sufficient.	Fault Code #'E'	14

TRI-COLOURED LED - cont.

This LED indicates the status of the cooler and indicates Fault Codes (if applicable).

LED	Cooler Status	Fault Description	MaglQcool Fault Code	MaglQtouch Fault Code
15 Red Flashes then 2 seconds OFF	Pressure Sensor Fault	If a Pressure sensor becomes blocked or is partially blocked the operation of the CW could be severally affected. Fault Code #15 will indicate that the Pressure sensor are not responding within anticipated boundaries for set supply Fan speeds. The 2 Pressure sensors have different failure criteria.	Fault Code #'F'	15

MAINTENANCE SCHEDULE

INSTALLATION DATE:		INSTALLER:

It is a condition of your warranty cover that the items in the schedule below are checked (and action taken as required) once every 3 months from the date of installation by a qualified, licensed technician, and that the schedule is properly filled out (i.e. name, signature, date, action taken). Note that Air inlet filters must be inspected and cleaned every month, not just every 3 months. Even after the warranty period expires, please continue to have the product maintained as per the items and the frequency in the schedule, using the additional Maintenance Schedule pages provided. This will help to prolong the life of the cooler and keep it running efficiently.
ATTENTION! if your cooler is used for personal residential household purposes, then these additional pages will need to be used for recording the services required during the warranty period.

SERVICE ITEM	CHECK/ADJUST				CLEAN				REPLACE			
Electrical Connections and Component Operation	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Electrical wiring												
Fan motors												
PCBs & Control box												
Drain pump												
Water inlet solenoid												
Water probe												
Chlorinators												
Water pump												
Water Distribution System												
Water distribution system - hoses and spreaders												
Water level												
Cabinet and Accessories												
Cabinet integrity / leaks												
Air inlet												
Air inlet filters - 1st month of quarter												
Air inlet filters - 2nd month of quarter												
Air inlet filters - 3rd month of quarter												
Tank												
Fans												
General Operation												
Start up and run sequence												
Control operation												
General Installation												
Electrical connections												
Water connections												
Duct condition												
Roof penetrations												
Mounting & Vibration isolation												
Access												

MAINTENANCE SCHEDULE

SERVICE ITEM	CHECK/ADJUST				CLEAN				REPLACE			
Electrical Connections and Component Operation	**Q5**	**Q6**	**Q7**	**Q8**	**Q5**	**Q6**	**Q7**	**Q8**	**Q5**	**Q6**	**Q7**	**Q8**
Electrical wiring												
Fan motor												
PCBs & Control box												
Drain valve												
Water inlet solenoid												
Water probes												
Chlorinator												
Water pump												
Water Distribution System												
Water distribution system - hoses and spreaders												
Water level												
Cabinet and Accessories												
Cabinet integrity / leaks												
Air inlet												
Air inlet filters - 1st month of quarter												
Air inlet filters - 2nd month of quarter												
Air inlet filters - 3rd month of quarter												
Tank												
Fans												
General Operation												
Start up and run sequence												
Control operation												
General Installation												
Electrical connections												
Water connections												
Duct condition												
Roof penetrations												
Mounting & Vibration isolation												
Access												

Service No.	Service Date	Service Technician	Service Company
No.1	.....	.....	.....
No.2	.....	.....	.....
No.3	.....	.....	.....
No.4	.....	.....	.....
No.5	.....	.....	.....
No.6	.....	.....	.....
No.7	.....	.....	.....
No.8	.....	.....	.....

MAINTENANCE SCHEDULE

SERVICE ITEM	CHECK/ADJUST				CLEAN				REPLACE			
Electrical Connections and Component Operation	**Q9**	**Q10**	**Q11**	**Q12**	**Q9**	**Q10**	**Q11**	**Q12**	**Q9**	**Q10**	**Q11**	**Q12**
Electrical wiring												
Fan motor												
PCBs & Control box												
Drain valve												
Water inlet solenoid												
Water probes												
Chlorinator												
Water pump												
Water Distribution System												
Water distribution system - hoses and spreaders												
Water level												
Cabinet and Accessories												
Cabinet integrity / leaks												
Air inlet												
Air inlet filters - 1st month of quarter												
Air inlet filters - 2nd month of quarter												
Air inlet filters - 3rd month of quarter												
Tank												
Fan												
General Operation												
Start up and run sequence												
Control operation												
General Installation												
Electrical connections												
Water connections												
Duct condition												
Roof penetrations												
Mounting & Vibration isolation												
Access												

Service No.	**Service Date**	**Service Technician**	**Service Company**
No.9	.....	.....	.....
No.10	.....	.....	.....
No.11	.....	.....	.....
No.12	.....	.....	.....

To Owner/User: please note that as explained in your warranty document, installation is not covered by the warranty (for example duct work, roof penetrations, electrical and water connections etc.). However, we still require that you have these items checked because they can affect the performance (and/or safety) of the cooler. This is why they have been included in the maintenance schedule.

TROUBLE SHOOTING

SYMPTOM	CAUSE	ACTION
Inadequate cooling	Under-sized cooler.	Replace with larger cooler.
	Under-sized ducts.	Replace with larger ducts.
	Clogged or dirty cooling cores.	Replace core.
	Dirty inlet air filter.	Replace or clean filter.
	Dry cores or lack of water while cooler is operating.	Check water distribution system for possible obstruction in hoses. Check pump.
	Insufficient air discharge openings or inadequate exhaust from building, causing high humidity and discomfort.	Make sure there is adequate provision for exhausting stale air from building (open windows and doors).
	Excessive resistance from poorly located exhaust air ducting.	Ensure exhaust air duct is clear of any obstruction.
	Excessive ambient humidity (see also item above re inadequate exhaust).	On days during summer when ambient humidity is high the cooler will not reduce the temperature as much as on drier days. There is no remedy.
Noisy cooler	Fan out of balance due to dirt, etc.	Clean the fan.
	Air distribution system creating too much back pressure, or changes of direction too sudden, or diffusers too small.	Have contractor re-evaluate his design; use bends instead of elbows; change grille sizes.
	Attenuator directing noise in wrong direction.	Attach attenuator to direct sound in a different direction.
Pump fails to operate	Circulation pump motor failure.	Replace circulation pump.
Fan fails to start.	Main power circuit breaker tripped or fuse blown.	Check cause of overload. Reset circuit breaker or replace fuse. Adjust motor amp setting if necessary.
	Fan motor burned out.	Replace motor.
	Low system voltage.	Consult with power supply authority.
	Check fault condition via the wall control unit or the tri-colour LED on cooler electronics module.	Rectify fault as indicated and restart the cooler.
	Wall Control failed.	Replace wall control.
	If the wall or remote control is in AUTO or AUTO TIMER mode and no fan bars are displayed the fan will not start.	Switch to MANUAL mode to check the fan operation.
Pump runs but no water circulation or Pump runs but pads lack water	Insufficient water in reservoir.	Check probe cable plugged in fully, clean probes.
	Water hoses blocked.	Check and clean out blockage.
	Pump cavitation plate blocked.	Clean pump cavitation plate.
Continuous overflow of water.	Water Management probes adjustment not correct.	Check probe cable plugged in fully, clean probes.
Water being blown into the building	Auto Drain Valve malfunctioning.	Check and remedy function.
	Supply drain plenum blocked.	Un-block supply plenum drain.
	Loose water hose connections.	Tighten connections.
	Water hose broken.	Replace cracked or broken hoses.
Unpleasant odour	Cooler located near source of unpleasant odour.	Remove source of odour or relocate cooler.
	Algae in tank water.	Drain pan, clean thoroughly with strong cleansing agent, refill, change pads. Clean or replace chlorinators.
	Pads remain wet after shut down.	Run fan on "vent" for 3 hours after cooling cycle to dry pads out.
	Heavy core deposits.	Replace cores.
Cooler cycles ON and OFF	Fault in the cooler.	Contact your Service Agent.
BMS Control not functioning	Fault in the building BMS or the MagIQtouch MS1 BMS controller	Refer to the building BMS system manual and/or the MagIQtouch MS1 BMS Installation and Operation manual supplied with the cooler, as appropriate.

INSTALLATION CHECKLIST

Owner Name: .....

Address: .....
.....

Dealer: .....

Date Installed: .....

Serial No: .....

Telephone: .....

Installer: .....

Model No: .....

Software Ver: .....

Installation

□ The cooler is adequately supported, secure and level.
□ The water pipes were flushed of any foreign materials before connection the cooler was made.
□ The owner has been instructed on how to isolate the water to the system in case of emergency.
□ The water is connected with no leaks at fittings.
□ Water pipes are correctly saddled as per the applicable plumbing regulations.
□ The drain water does not discharge onto the roof surface.
□ The power supply adheres to all local and national regulations and is wired back to the distribution board on its own separate circuit.
□ All cables have been correctly connected to the control boxes (i.e. power supply, control cable)
□ The owner has been instructed how they can electrically isolate the cooler at the meter box in case of an emergency.
□ All ducts are fixed correctly and there are no air leaks.
□ The system has been run from the customer's wall control and all functions work correctly.
□ The air balance for all outlets has been adjusted to the customer's satisfaction.
□ The customer has been shown how to operate the system.
□ All the installation rubbish has been removed and, if applicable, any property damage repaired.

Commissioning

□ Visual inspection completed no damage
□ Electrical supply to cooler OK
□ Inlet filter media OK
□ Cooler internal water levels checked
□ Internal component check OK
□ Outlet drain connected YES/NO. Adaptor drain elbow fitted YES/NO
□ Cooler function test with wall control function check OK
□ Remote control test (where applicable) OK

Signed by Installer: .....

Dated: .....

Commissioning Engineer: .....

Date: .....

HOW TO REGISTER YOUR PRODUCT WARRANTY (Australia only)

Warranty Information section

HOW TO REGISTER YOUR PRODUCT WARRANTY (Australia only)

Please register your warranty online by visiting seeleyinternational.com and selecting COMMERCIAL section on the top right hand side of the screen. Then follow these steps:

Step 1 Select ***REGISTER FOR WARRANTY***

Step 2 Enter your product serial number and "***SUBMIT***"

Step 3 Enter the required information and "***SUBMIT***"

Alternatively, go to www.seeleyinternational.com/commercial/register-a-product-for-warranty which will take you directly to the product warranty registration page.

Important Note: You need to have the following information to complete your registration:

- your unit model and size
- serial number
- date your system was installed
- name of the dealer/installer you purchased it from

Please complete this section. You will also need to retain your purchase receipt, and proof of any warranty period extension.

Brand: _____

Model: _____

Serial No: _____

Customer Name: _____

Installation Address: _____

Date of Installation: _____

Installer / Dealer: _____

As with any product that has moving parts or is subject to wear and tear, it is **VERY IMPORTANT** that you maintain your Climate Wizard and have it regularly serviced. It is a condition of warranty cover for your Climate Wizard that you comply with all of the maintenance and service requirements set out in the Owner's Manual. Compliance with these requirements will prolong the life of your Climate Wizard. Further, it is also a condition of warranty cover that each item in the Maintenance Schedule in the Owner's Manual is performed with the frequency indicated, by a qualified, licensed technician, and that the Maintenance Schedule is properly filled out (i.e. names, signature, date, and action taken) when the item is completed.

ANY FAILURE TO CARRY OUT THE REQUIRED MAINTENANCE AND SERVICING REQUIREMENTS, AND ANY FAILURE TO PROPERLY FILL OUT THE MAINTENANCE SCHEDULE, WILL VOID YOUR WARRANTY.

WARRANTY TERMS AND INFORMATION (Australia only)

Warranty Details (Australia only)

In this warranty:

We or ***us*** means Seeley International Pty Ltd (Seeley) ABN 23 054 687 035, and our contact details are set out at the end of this warranty;

You means you, the original end-user purchaser of the Goods;

Supplier means the authorised distributor or retailer of the Goods that sold you the Goods in Australia;

Goods means the product, unit, appliance or equipment which was accompanied by this warranty and purchased in Australia; and

Relevant Warranty Period means the various warranty periods as described in clause 1 below, as appropriate.

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.

In addition to any rights and remedies that You may have under the Australian Consumer Law or any other law, subject to the terms of this warranty, We provide the following warranty:

1. If during the first one (1) year from the date of purchase, the Goods upon examination prove defective by reason of improper workmanship or material, We will repair or replace at our option, the Goods or any part thereof without charge for either parts or labour during normal working hours.
2. The warranty granted under clause 1 applies to all components which form part of the original air cooler, but does not cover:
    a. fair or normal wear and tear;
    b. damage, loss or claims caused by, resulting from, or arising out of any utilities that service or are connected to the Goods. This includes but it is not limited to electrical surges, and inadequacies, failure, or other problems in or with any electricity, power, or water supply to the Goods;
    c. after the first year: the replacement, supply, or servicing of consumable items (including without limitation washers, seals, and drive belts);
    d. despite clause 2.c. above, the air filters;
    e. installation (including without limitation ductwork, fittings, and other related installation components) which is excluded and.
    f. batteries (including damage caused by leaking or faulty batteries), cracking or breaking of display screens in controllers, physical damage caused by the user or third parties, and accidental breakage.
3. During the period to which any expressed warranty applies, all defective part(s) shall be replaced or repaired (at the discretion of Seeley) without charge for either parts or labour, during normal working hours. Should we deem in our absolute discretion to replace the Goods pursuant to clause 1, we may substitute any similar good even if it is not on our current price/equipment list. Further, Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the Goods.
4. We are under no obligation to repair or replace the Goods or Parts under clause 1 above if (i) the Goods have not been installed and commissioned in accordance with the Installation Instructions (ii) the Goods have not been installed and commissioned properly or competently, (iii) the Goods have not been operated, serviced and maintained in accordance with the instructions provided in the Owner's Manual, or (iv) any such service or maintenance has not been properly or competently performed. The addition of any third party device or the removal or the alteration of any Seeley component or damage due to the misuse of the unit or faulty installation or commissioning will void this warranty. Further, it is a condition of warranty cover that each item in the Maintenance Schedule in the Owner's Manual (if it was published with such a Schedule) is performed with the frequency indicated, by a qualified, licensed technician, and that the Maintenance Schedule is properly filled out (i.e. names, signature, date, and action taken) when the item is completed. Any failure to carry out the required maintenance and servicing requirements, and any failure to properly fill out a Maintenance Schedule in the Owner's Manual, will void your warranty.
5. As far as the law permits, We will not be liable for any consequential loss suffered through, or resulting from, the non-operation, or ineffective operation of the air cooler. The warranties granted under clause 1 do not cover damage to the air cooler or other loss resulting from acts of God.
6. No other person, company or corporation is authorised to offer, or give on our behalf, any other warranty. The benefits conferred are in favour of You and any person deriving title to the air cooler whilst in its original place of installation. Nothing in this warranty shall be construed as affecting any rights You may have under all the relevant laws, or Commonwealth or State Legislation which give You rights which cannot be modified or excluded by agreement.
7. In order to claim under the warranties granted under clause 1 You must:
    a. either:
        contact us within the Relevant Warranty Period on: 1300 650 644; or
        log a warranty claim on our website (website address below) within the Relevant Warranty Period; and
    b. make available for inspection by the service agent who will come to the location of the Goods or send to us at the address below within the Relevant Warranty Period: (i) the legible and unmodified original proof of purchase, which clearly indicates the name and address of the original retailer, the date and place of purchase, the product name or other product serial number, (ii) all of your records of all service and maintenance carried out to the Goods, plus the Maintenance Schedule in the Owner's Manual (if it was published with such a Schedule) (iii) a copy of the completed Warranty Information page in this warranty, and (iv) if an extended warranty period was provided by us for the Goods, then the relevant document provided by us confirming that extended warranty period. If you choose to send the documents described in (i) to (iv) to us, then they must be accompanied by a covering letter which states your name and address and daytime telephone number, the address at which the Goods are installed, and the model and serial number of the Goods.

WARRANTY TERMS AND INFORMATION (Australia only)

8. The warranty granted in clause 1 covers the costs of parts and labour but you will be responsible for:
    a. the cost of travel incurred for a Seeley International service agent to get to and from the location of the Goods if the location of the Goods is either: (i) outside the metropolitan areas of the capital cities; or (ii) more than 35 kilometres from an authorised Seeley International branch or service representative; and
    b. any costs for additional labour or equipment associated with gaining acceptable and safe service access to the Goods installed in restricted, high or unsafe locations, and or the removal and replacement of any barrier, walls, roofs, floors, fences etc.; and
    c. any costs incurred by the Seeley International service agent in gaining access to the Goods which is necessary to comply with any safety or workplace safety requirements and/or any other relevant regulations. For the avoidance of doubt, the reference to any costs incurred also includes the cost of any necessary site inductions.
9. We are not responsible in any way for any failure and/or inadequate performance of the Goods which arises from or is connected to the use in the Goods of non-genuine spare parts. We strongly recommend that only spare parts supplied or approved by us are used in the Goods.
10. We are not responsible for the installation of the Goods and expressly disclaim all liability resulting from incorrect installations or installations that do not conform to local electrical codes, local plumbing codes, Occupational Health and Safety requirements, and by laws which are legislated or in effect at the time of installation.
11. This warranty is only valid and enforceable in Australia.

Note: We and our service agents reserve the right to refuse service unless safety and accessibility to the unit can be guaranteed.

If a service call reveals no warranty fault found with the Goods, a charge will be made for the call.

Our liability under this warranty is limited to the extent permitted by law. That is, to the extent that it is fair and reasonable, if the Goods are not of a kind ordinarily acquired for personal, domestic or household use or consumption, your remedies associated with any failure or defect of the Product will be limited to:

a. the replacement of the Goods or the supply of equivalent goods;

b. the repair of the Goods;

c. the payment of the cost of replacing the Goods or of acquiring equivalent goods;

d. the payment of the cost of having the Goods repaired

and subject to the terms and conditions included in this warranty.

WARRANTY TERMS AND INFORMATION (Australia only)

SERVICE DEPARTMENT

Seeley International Pty Ltd

112 O'Sullivan Beach Road

Lonsdale, South Australia 5160

Customer service centre 1300 650 644

Website: www.seeleyinternational.com

FOR SERVICE

Service call Booking

To book a Service on your Seeley International product Online visit www.seeleyinternational.com and selecting COMMERCIAL section on the top right hand side of the screen. Then follow these steps:

Step 1 Select **"SUPPORT"** and **"BOOK A SERVICE".**

Step 2 On the **"FIND A SERVICE AGENT"** page, enter your **POSTCODE** and select a category (**"COMMERCIAL - CLIMATE WIZARD**"), select the "**SEARCH**" button.

Step 3 On the **"RESULTS"** page, select the **"BRAND"** of your cooler.

Step 4 Choose **"SELECT"** for your preferred agent from the list provided.

Step 5 Select **"BOOK A SERVICE"** and complete the required steps and fields.

or Phone 1300 650 644 to be directed to your closest authorised Service Agent.

PRIVACY NOTICE

Seeley International Pty Ltd ABN 23 054 687 035 will use the personal information you provide us with to provide warranty support for the product you have purchased and to inform you about other products and services. If you choose not to supply us with the information requested, we may be unable to provide you with warranty support. We may also disclose your information to third parties, such as related entities; retailers, distributors, service agents and contractors who are affiliated with us; or marketing or market research companies. If you would prefer not to receive direct marketing communications from us, please follow the instructions to "unsubscribe" which will be included in the direct marketing communications we send you, or contact our Privacy Officer using the details set out below. While we do not currently transfer personal information to overseas recipients or store personal information overseas, if we transfer your information to third parties who do so, we will take reasonable steps to ensure that the overseas recipients do not breach the *Australian Privacy Principles.* By registering your warranty, you consent to having your personal information used in this way. Please read our Privacy Policy on our website www.seeleyinternational.com for further explanation of how we collect, use, hold and disclose personal information, and how you may access and seek correction of your information. It also sets out how you may complain about a breach of the Australian Privacy Principles, and how we will deal with your complaint. You may contact us at: Privacy Officer, Seeley International Pty Ltd, 112 O'Sullivan Beach Road, Lonsdale, South Australia 5160.

When you contact your Dealer regarding service or warranty please quote the cooler model number as shown below.

Affix serial & model number sticker here

Warranty (Australia only)

To register your warranty, go to
https://www.seeleyinternational.com/commercial/register-a-product-for-warranty

Service
For Australia contact 1-300-650-644
For outside Australia contact your local dealer
seeleyinternational.com

HEAD OFFICE:

Seeley International Pty Ltd, 112 O'Sullivan Beach Road, Lonsdale, SA 5160, Australia

MANUFACTURED BY:

Seeley International Pty Ltd, 77 North Street, Albury, New South Wales 2640, Australia (for Australia, Europe and South Africa)

Seeley Acquisition Co., Ltd. doing business as Coolerado, 4430 Glencoe Street, Denver, Colorado 80216, USA (for the USA and the Americas)

IMPORTED BY:

Seeley International (Europe) Limited, Unit 11 Byron Business Centre, Duke Street, Hucknall, Nottingham, NG15 7HP, United Kingdom

Seeley International Africa (Pty) Ltd, 6 Witton Road, Foundersview South, Modderfontein 1609, Gauteng, South Africa

It is the policy of Seeley International to introduce continuous product improvement. Accordingly, specifications are subject to change without notice. Please consult with your dealer to confirm the specifications of the model selected.