

Models

60L: MEC060470E333, MEC060470E344

340L: MEC340652E333, MEC340652E344, MEC340652E355



Heavy Duty Electric Cylinders

Owner and installer guide

Rinnai

Important

These water heaters shall be installed in accordance with:

- Manufacturer's installation instructions
- Current AS/NZS 3000, G12/AS1 or G12/VM1 (AS/NZS 3500.4)

Installation, servicing, repair, and removal shall be carried out only by licensed personnel.

Not suitable as a spa or swimming pool heater.

- Owner, please retain this guide for future reference
- Installer, please leave this guide with the owner

Warning

Improper installation, adjustment, alteration, service and maintenance can cause property damage, personal injury or loss of life.

This appliance is not to be used 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.

For more information about buying, using, and servicing of Rinnai appliances call: 0800 RINNAI (0800 746 624).

Rinnai New Zealand Limited
105 Pavilion Drive, Mangere, Auckland
PO Box 53177, Auckland Airport, Auckland 2150

Phone: (09) 257-3800
Email: info@rinnai.co.nz
Web: rinnai.co.nz
[youtube.com/rinnainz](https://www.youtube.com/rinnainz)
[facebook.com/rinnainz](https://www.facebook.com/rinnainz)

Contents

About the water heater	4
Maintenance and servicing.....	5
Troubleshooting	6
Plumbing setup.....	7
Plumbing setup - 60 L with Demand Duo	8
Plumbing setup - multiple units.....	9
Plumbing setup - low temperature ring main	10
Plumbing setup - high temperature ring main.....	11
Storage and delivery temperatures	12

Installation

Specification summary	14
Dimensions 340 L.....	15
Dimensions 60 L.....	16
Electrical supply and connections	17
Valves and fittings.....	18
Commissioning	19
Limited Warranty	20

INSTALLER

Please leave this guide with the owner as it contains important safety and warranty information.

About the water heater

Water is heated by an electric element located in the cylinder. The temperature of the water is controlled by an automatic thermostat, factory preset at 75 °C.



Important

Where there is potential of damage occurring from leaking water, a suitably drained safe tray or bund is required.

Rinnai accepts no liability for damage caused by leaking cylinders.

Safety messages

Element cover

Do not remove the element cover as this will expose 230 V wiring, must only be removed by authorised person.

Thermostat setting

Must only be adjusted by an electrician or other suitably qualified tradesperson.

Damaged components

If any component is damaged, including the supply cord, it must be replaced by an authorised person using Rinnai replacement parts.

Child supervision

Children should be supervised to ensure they do not play with any part of the hot water system.

Hot pipe work

Care should be taken not to touch the pipe work from the cylinder as this could be very hot.

Safety devices

The cylinder is fitted with a:

- Temperature Pressure and Relief (TPR) valve that ensures the water remains at a safe pressure and temperature.

- Automatic thermostat to maintain water temperature.
- Temperature override cutout for heating element.

DANGER

The operation of the thermal cutout can indicate a dangerous situation. Do not reset the thermal cutout until the water heater has been serviced by a qualified person.

Do not operate the system unless all the safety devices are fitted and are in working order. It is also important that you do not tamper or remove any of these devices.

Cylinder thermostat setting

To meet the New Zealand Building Code requirement¹ to disinfect water for legionella bacteria², the cylinder thermostat has been set to 75 °C.

Hydrogen gas

If hot water is not used for two weeks or more, a quantity of hydrogen gas, which is highly flammable, may accumulate in the cylinder. To dissipate safely, it is recommended a hot tap (non-electrical) be turned on for

two minutes at a sink, basin or bath. During this procedure there must be no smoking, open flame, or any other appliance operating nearby.

Turning the cylinder on/off

If you plan to be away for a few nights we suggest you leave the system switched on. If it is necessary to switch it off, when switching back on, remember that the cylinder will take time to heat back up again.

Draining and filling the system

This normally occurs during installation or servicing and must be carried out by an authorised person.

Installation by a licensed tradesperson

Only a licensed tradesperson can install, adjust, maintain, and service this water heater. Any work carried out by a non-licensed tradesperson is illegal and will void any warranty.

¹ Clause G12.3.9, Acceptable Solution G12/AS1 6.14.3

² Legionella is a bacterium that can cause Legionnaires' disease—a severe form of pneumonia

Maintenance and servicing



Hot water systems require regular maintenance and servicing. To ensure longevity of your cylinder we recommend the following.

Period	What needs to be done
Every six months	TPR (temperature & pressure relief) operate the easing gear
Year five	Inspection and service the entire hot water system, including elements* and anodes
Every 24 months after year five	Inspection and service the entire hot water system, including elements* and anodes

* In hard water areas the element(s) must be periodically descaled. To do this the cylinder must be drained and the element(s) removed

TPR valve

This valve is located near the top of the cylinder and is essential for safe operation. The TPR valve works by automatically venting hot water if the temperature or pressure of the water in the cylinder gets too high.

Every six months operate the easing gear to remove lime deposits and to check that it is not blocked. As this will discharge hot water, ensure no one is near the drain line.



DANGER

Failure to operate the relief valve easing gear at least once every six months may result in the water heater exploding.

Continuous leakage of water from the valve may indicate a problem. It is important that you raise and lower the easing gear GENTLY.

During the operation, if the valve does not discharge water when the easing gear is lifted, or does not seal again when closed, arrange for an authorised person to come and inspect the system immediately.



During servicing of your cylinder the TPR valve needs to be checked and/or replaced. This needs to be done by an authorised person at intervals not exceeding five years, or more frequently in areas where the water is classified as hard.

A TPR valve must not be replaced with one that has a higher pressure rating than that specified for the cylinder.

Anodes in enamel tanks

Storage tanks manufactured from metal can be susceptible

to corrosion. The combined effects of water pressure, temperature, and water chemistry can create an aggressive environment for corrosion of some materials. For this reason anodes are placed in enamel tanks so as to corrode first. Anodes should be changed every five years or more frequently in hard or aggressive water areas.

Maintenance and servicing

Rinnai has a maintenance, service, and spare parts network with personnel who are fully trained and equipped to give the best advice on your Rinnai product. Regular maintenance and servicing is not covered by the Rinnai warranty.

For help locating a service person in your area call 0800 RINNAI (0800 746 624).

TPR near top of cylinder (insulation not fitted)



How to operate the easing gear

GENTLY lift until water flows from the drain line, lower GENTLY to release.

Troubleshooting

Do not attempt to carry out any work other than that mentioned in this troubleshooting section. If you have any other faults or problems, please contact your installer, or contact Rinnai.

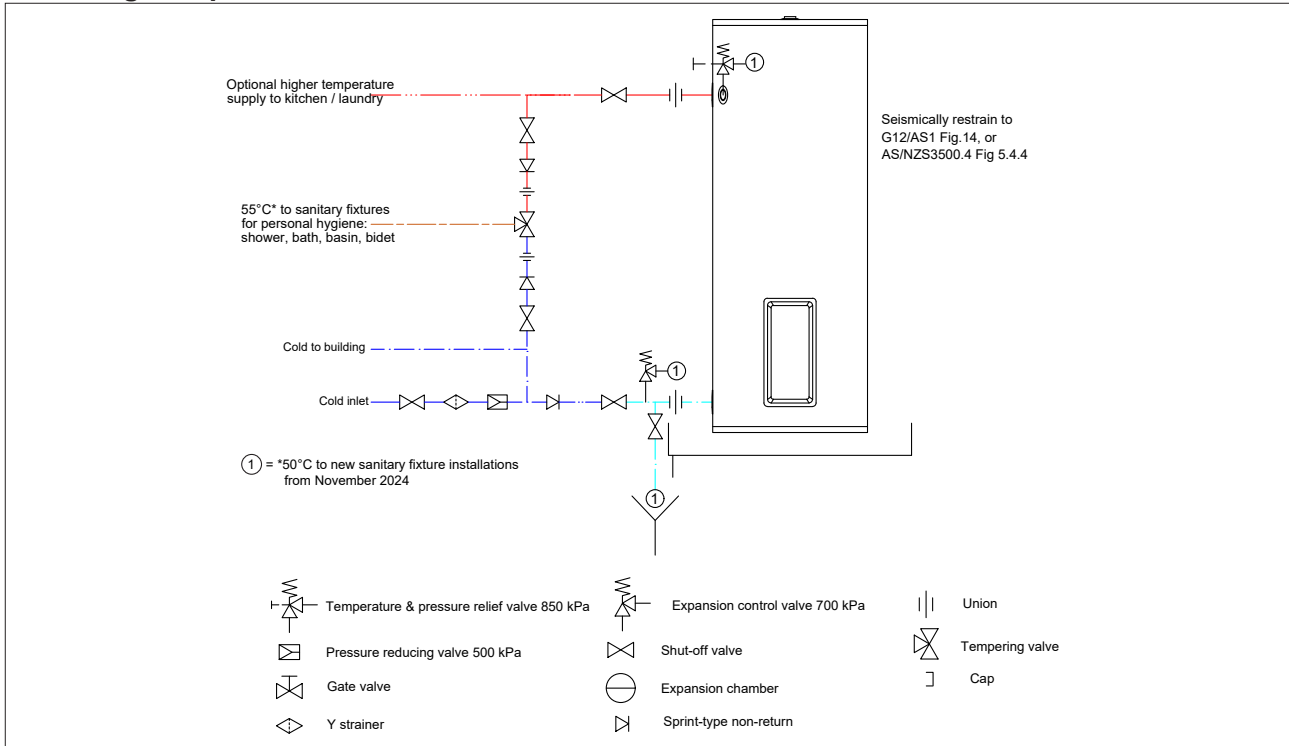
INSUFFICIENT OR NO HOT WATER	
Cylinder power turned off	Check to ensure the electric isolating switch at the switchboard, usually marked 'Hot water' or 'water heater' is turned on.
Excessive hot water consumption	Often people are surprised at the amount of hot water used, especially when showering. If the amount of hot water used during the day exceeds the storage capacity of the cylinder, it is likely there will be insufficient hot water.
Temperature & Pressure Relief (TPR) valve continually discharging water	<p>It is normal that this valve allows a small quantity of water to be discharged during the heating cycle. If it discharges more than a bucket of water during a 24 hour period or discharges continuously there may be another problem.</p> <p>If the valve dribbles continuously, try easing the valve for a few seconds as described on the previous page. This may dislodge any foreign matter and alleviate the problem.</p> <p>If the valve discharges at high flows, especially at night, it may be as a result of the water pressure exceeding the design pressure of the system. Contact your installer about fitting a Pressure Limiting Valve (PLV).</p>
Expansion Control Valve (ECV) continually discharging water	<p>It is normal that this valve allows a small quantity of water to be discharged during the heating cycle. If it discharges more than a bucket of water during a 24 hour period or discharges continuously there may be another problem.</p> <p>If the valve dribbles continuously, try easing the valve for a few seconds. This may dislodge any foreign matter and alleviate the problem. If this does not solve the problem contact your installer or Rinnai.</p>
NO WATER FROM THE TAP	
Restriction in the hot tap or failure of the cold water supply to the water heater	Check for water flow at the other taps and that the cold water isolation valve is fully open.
HIGH ELECTRICITY BILLS	
Excessive hot water consumption	Refer 'Insufficient or no hot water'.
High electricity tariffs	The electricity tariff will determine the running costs of the system. Refer to your latest bill or contact your electricity provider to confirm what plan you are on and what you are paying.
Higher cylinder element usage	In extremely cold conditions the cylinder element may be operating more than normal.
WATER FLOW FLUCTUATIONS	
One or more taps opened at the same time	<p>More than one or two hot taps in use at the same time may cause a decrease in the hot water flow.</p> <p>Is there more than one or two hot taps open, or are appliances such as a dishwasher or washing machine, in use at the same time.</p>

Plumbing setup

Cylinders should be installed in accordance with G12/AS1 or G12/VM1 (AS/NZS 3500.4). Please allow sufficient room for access to covers and valves.

This appliance is not intended to be connected by a hose-set.

Plumbing setup - standard installation



Base requirements

Cylinders must be installed in an upright position on a level and stable base capable of withstanding the weight of a full system. The structure must not shift.

Seismic restraint

The tank must also be suitably restrained against seismic activity, 'G12/AS1 Figure 14' or AS/NZS 3500.4 Fig 5.4.4 details acceptable methods of constraint.

Safe tray

Where there is potential of damage occurring from leaking water, a suitably drained safe tray or bund is required. Rinnai accepts no liability for damage caused by leaking cylinders.

Pipe work

It is the installer's responsibility to adequately size the distribution pipe work in a property to ensure sufficient performance from all outlet fittings. Water pipe sizing should be performed in accordance with AS/NZS 3500.4 and/or G12/AS1. Pipe sizing and valve selection must be performed to allow for the water heater supply pressure.

Provision must be made to drain the cylinder.

All hot water pipe work should be insulated with polyurethane foam or equivalent insulation to optimise performance and energy efficiency.

DO NOT drill anything into the water heater, this can damage critical components and cause corrosion.

Pressure reducing valve

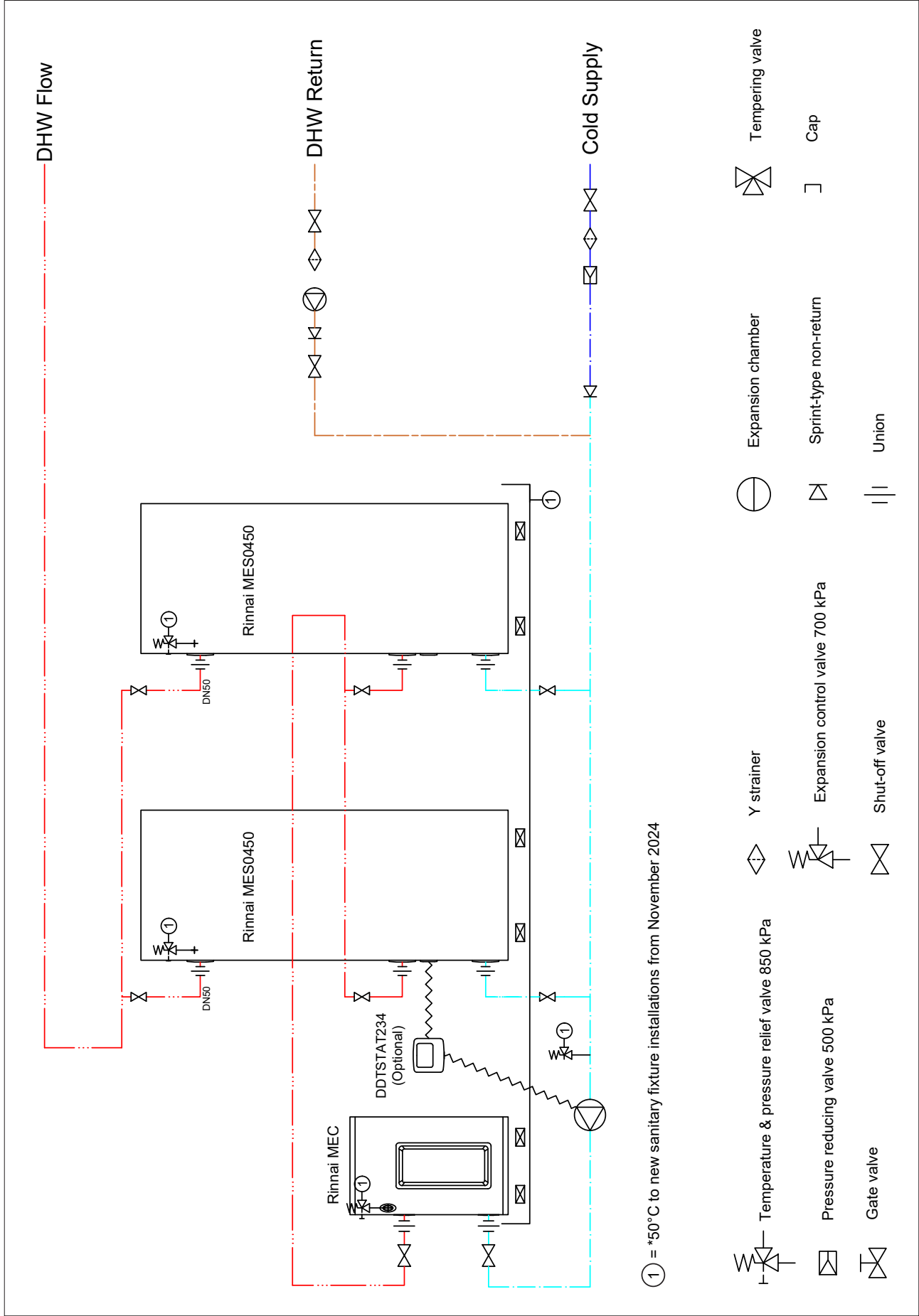
If the water supply pressure exceeds the rated pressure, a pressure reducing valve is to be fitted in the installation.

Discharge pipe

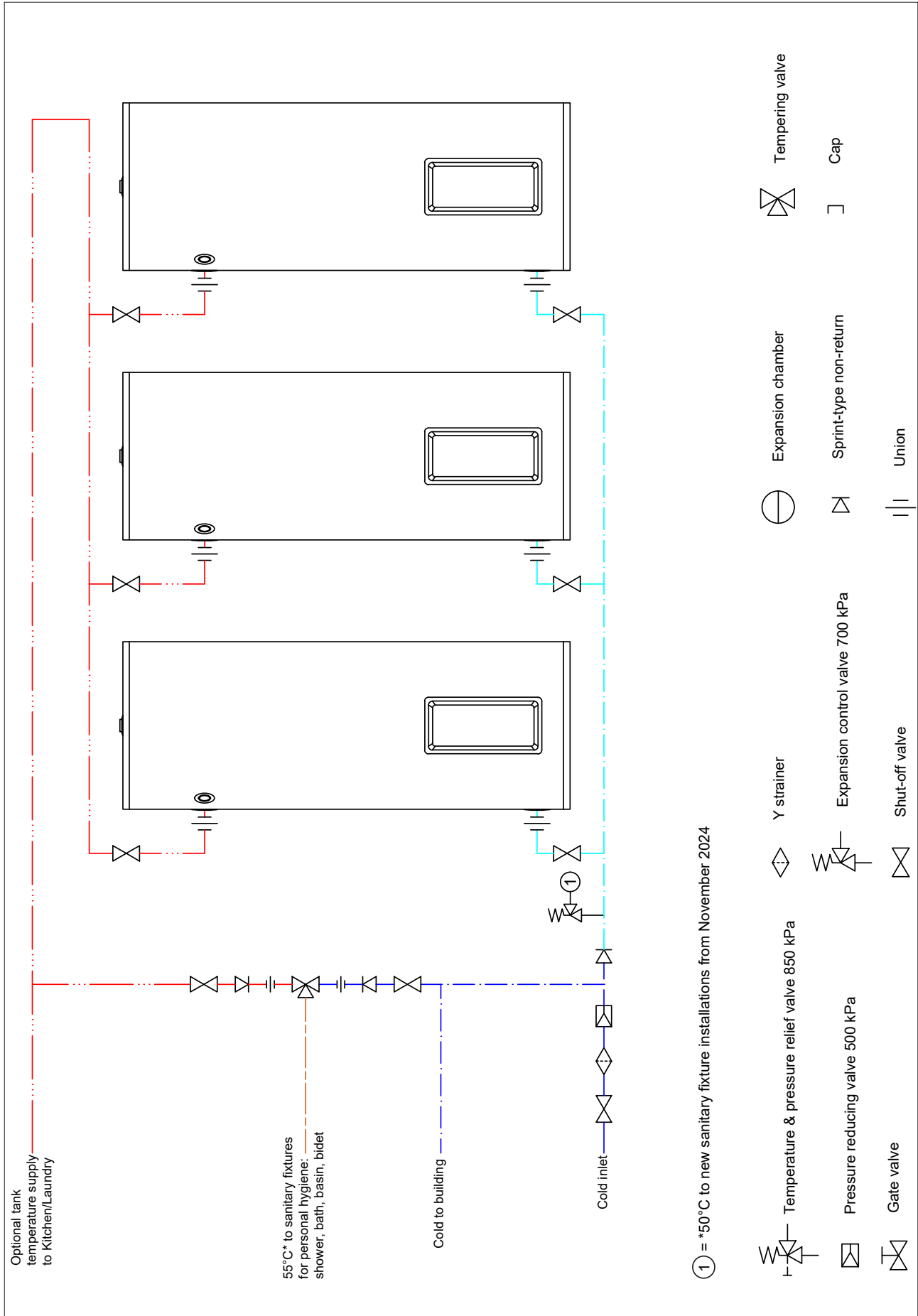
A discharge pipe connected to the pressure-relief device is to be installed in a continuously downward direction and in a frost free environment.

The water may drip from the discharge pipe of the pressure-relief device and that this pipe must be left open to the atmosphere.

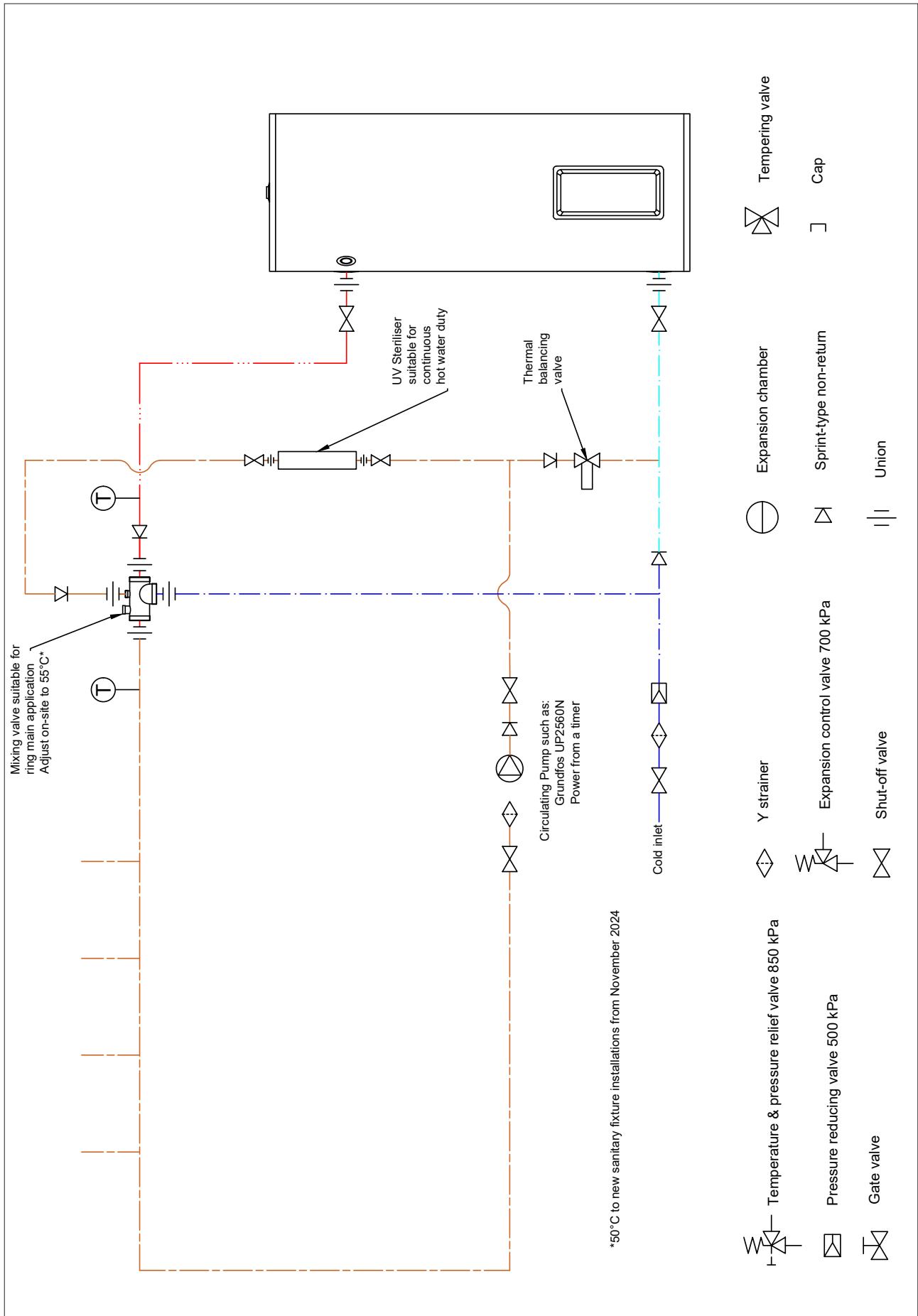
Plumbing setup - 60 L with Demand Duo



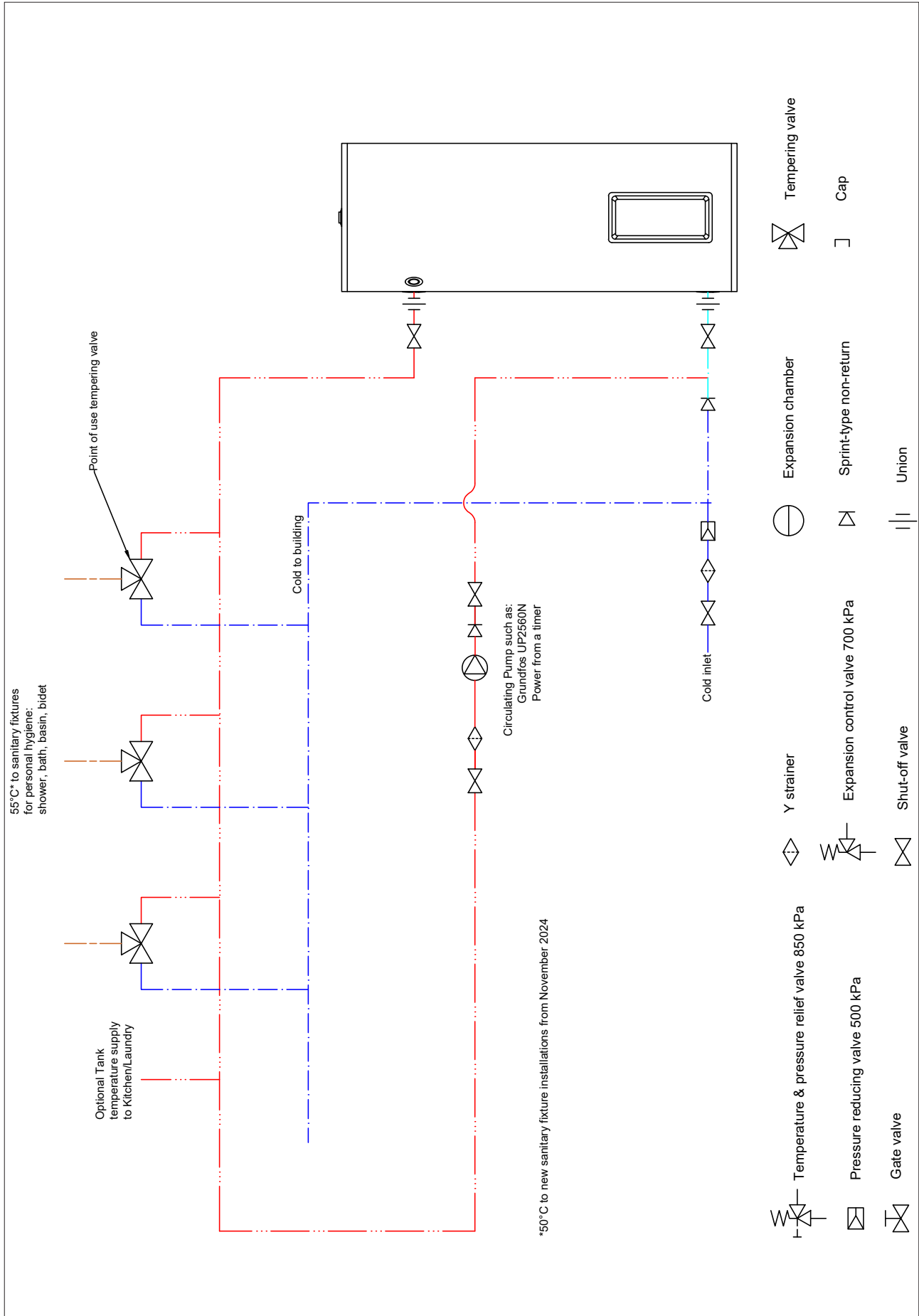
Plumbing setup - multiple units



Plumbing setup - low temperature ring main



Plumbing setup - high temperature ring main



Storage and delivery temperatures

Storage temperature

To meet the New Zealand Building Code requirement¹ to disinfect water for legionella bacteria, the cylinder thermostat has been preset to 75 °C.



WARNING

- The access cover to the element and the thermostat must only be removed by an electrician or other suitable qualified tradesperson.
- Thermostat settings must only be adjusted by an electrician or other suitably qualified tradesperson.

Hot water temperatures

NZBC G12.3.6 states that “*Where hot water is provided to sanitary fixtures and sanitary appliances, used for personal hygiene, it must be delivered at a temperature that avoids the likelihood of scalding.*”

In order to prevent scalding the delivered hot water temperature at any sanitary fixture used for personal hygiene shall not exceed:

- 45°C for early childhood centres, schools, aged care, institutions for people with psychiatric or physical disabilities, hospitals; and
- 55°C for all other buildings² (Note: AS/NZS 3500.4 which is cited in G12/VM1 has a maximum temperature of 50°C).

Sanitary fixtures used for personal hygiene includes showers, baths, hand basins and bidets.

In kitchens and laundries, heated water must be delivered to fixtures and appliances at flow rates and temperatures which are adequate for the correct functioning of those fixtures and appliances. The temperature required may be greater than 55°C.

To comply with these requirements, a temperature limiting device, such as a tempering or thermostatic mixing valve will be required on all installations.

¹ Clause G12.3.9, Acceptable Solution G12/AS1 6.14.3

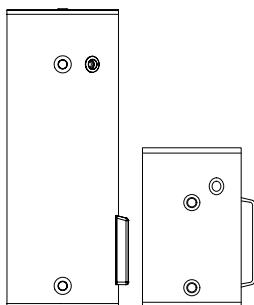
² 50 °C to new sanitary fixtures from November 2024

Installation

Installation, servicing, repair, and removal shall be carried out only by licensed personnel.



Specification summary



Suitability

- Residential and commercial indoor and outdoor installations
- Mains and low pressure systems

Not suitable as a pool or spa heater, or for hydronic applications.

The system should be located and arranged so as to achieve the closest proximity to water draw off points.

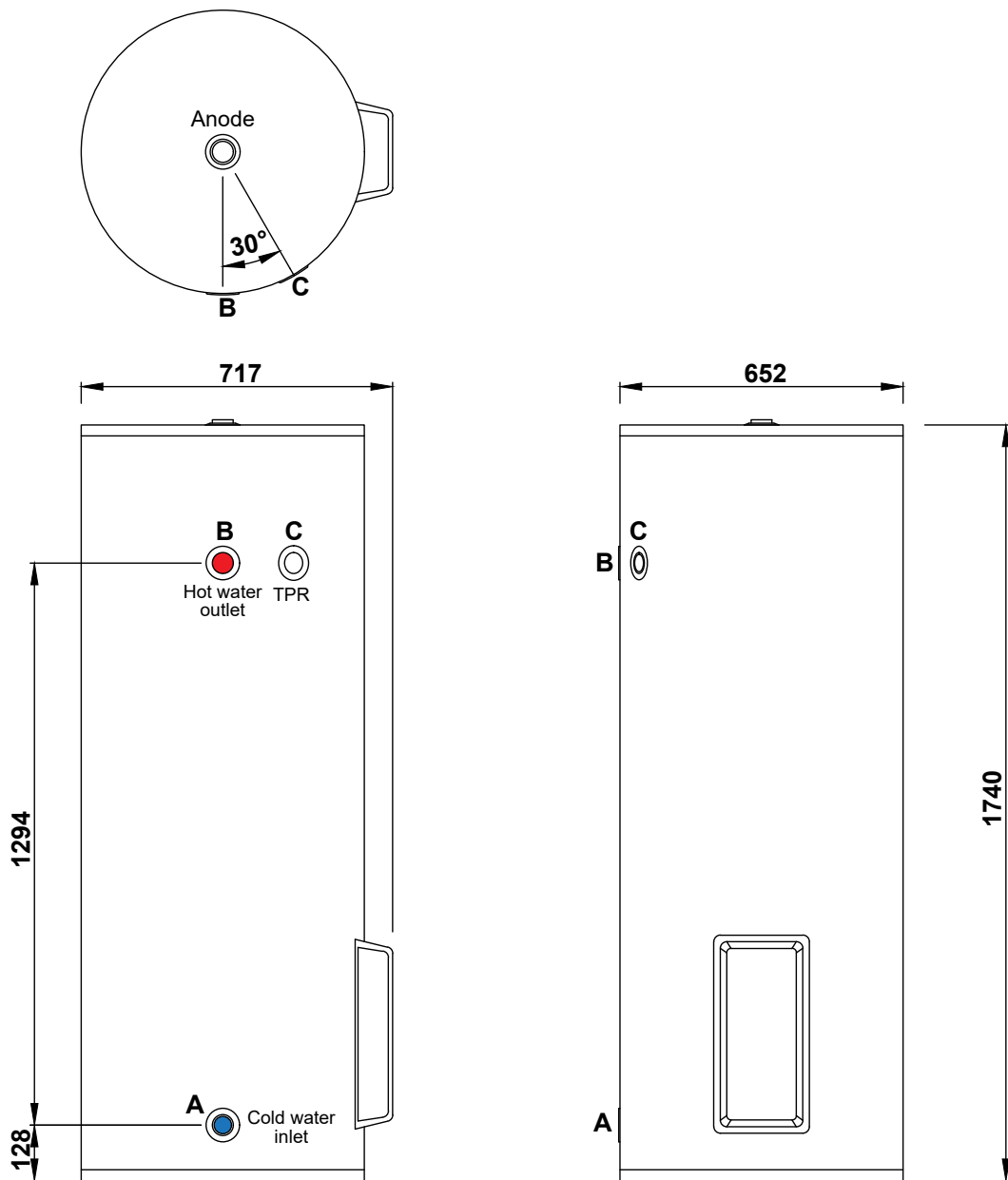
Construction	Vitreous double enamelled inner cylinder High density expanded polyurethane foam Corrosion resistant outer casing
Connections	Cold water inlet: DN32 1¼" BSP female Hot water outlet: DN32 1¼" BSP female TPR valve: DN20 ¾" BSP female
Heating elements - 60 L	3 x 3.3 kW or 3 x 4.4 kW
Heating elements - 340 L	3 x 3.3 kW, 3 x 4.4 kW, or 3 x 5.5 kW
Amps per element	3.3 kW: 14.4 Amps per element 4.4 kW: 19.2 Amps per element 5.5 kW: 24.0 Amps per element
Electrical connection	230 V 1 phase 400 V 3 phase
Pressure limiting valve	750 kPa approx. (not supplied)
Cold water expansion control valve	850 kPa approx. (not supplied)
TPR valve (supplied)	46 kW, 1000 kPa, 99 °C
Thermostat	Factory setting - 75 °C Min. thermostat setting - 60 °C, max. thermostat setting - 80 °C
Protection against water	IPX4
Water quality	Refer water quality parameters on p.18
Weights 60 L	Empty: 35 kg, full: 95 kg
Weights 340 L	Empty: 110 kg, full: 450 kg

TPR valve

A TPR valve is supplied with the water heater and **MUST** be fitted. The TPR valve thread should be sealed with teflon tape, do not use paste and hemp. Use the spanner flats on the valve body to tighten, **DO NOT** use a wrench on the valve body.

The TPR valve must be fitted with a drain pipe to direct any water discharged to a visible point outside the property. The drain pipe must have a continuous fall and be at least the same size as the TPR valve outlet (¾" BSP). Where the drain pipe exceeds three metres in length it is recommended an air break be provided within 300 mm of the TPR valve outlet. Where an air break is used it is recommended that the pipe size after the air break be increased to one size larger than the TPR valve. It must also be protected from freezing conditions.

Dimensions 340 L (mm)



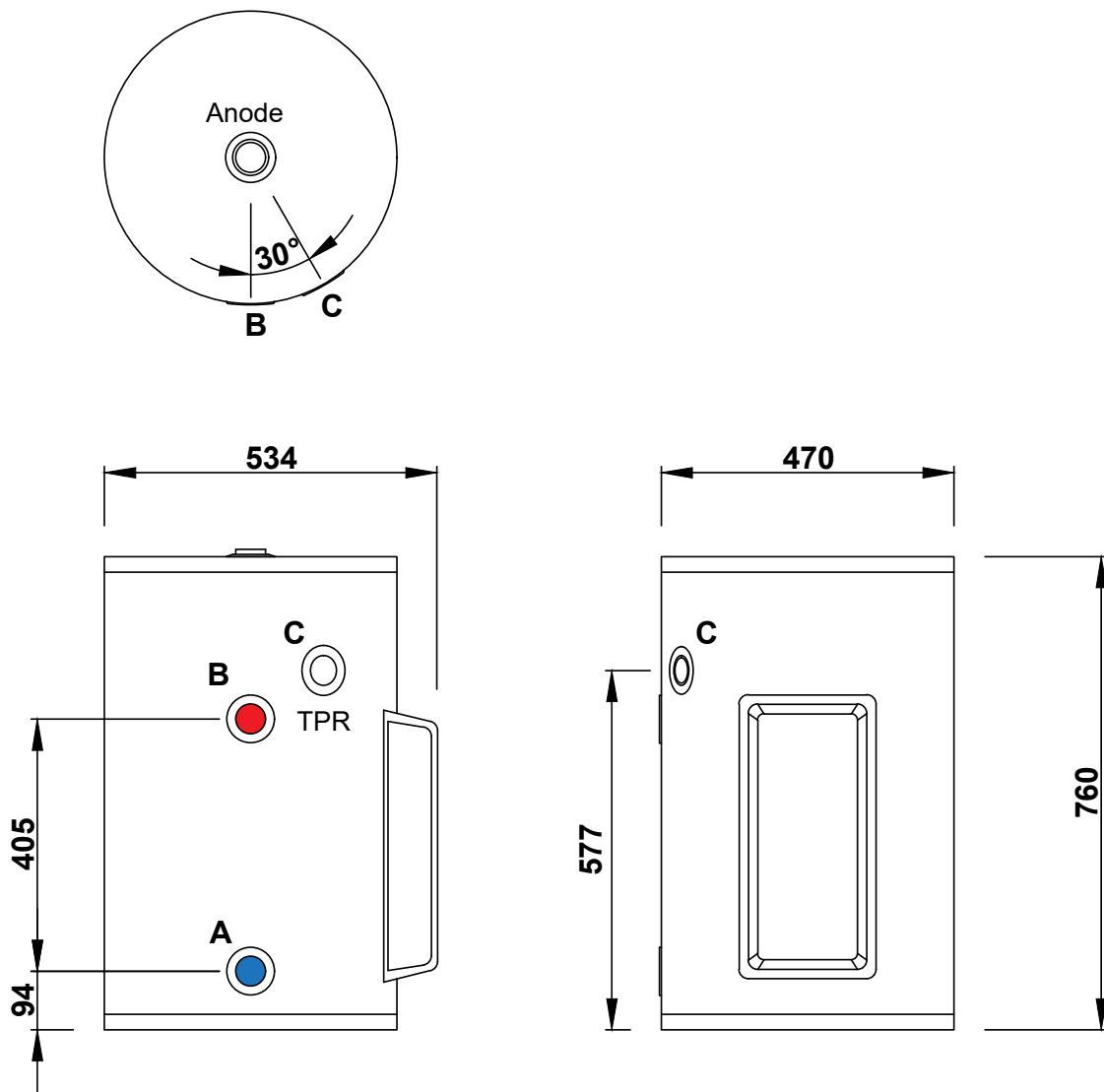
Heat up times

Model	Storage capacity	Element size	Total input @ 230 VAC	Heat up time $\Delta 50\text{ }^{\circ}\text{C}$	Recovery rate $\Delta 50\text{ }^{\circ}\text{C}$
340 L	340 L	3 x 3.3 kW	9.9 kW	121 mins	169 l/h
340 L	340 L	3 x 4.4 kW	13.2 kW	91 mins	225 l/h
340 L	340 L	3 x 5.5 kW	16.5 kW	72 mins	282 l/h

Hot water delivery: Mid-winter first-hour delivery (litres), thermostat setting 75 °C

Delivery temp.	Element size	Auck/North	Coastal NI	Cent. NI/SI	Cent. Otago
60 °C	3 x 3.3 kW	597 L	568 L	544 L	536 L
60 °C	3 x 4.4 kW	660 L	625 L	595 L	586 L
60 °C	3 x 5.5 kW	723 L	682 L	647 L	636 L
40 °C	3 x 3.3 kW	749 L	682 L	632 L	611 L
40 °C	3 x 4.4 kW	862 L	776 L	713 L	686 L
40 °C	3 x 5.5 kW	976 L	871 L	794 L	760 L

Dimensions 60 L (mm)



Connection sizes

A	Cold water inlet	DN32	1¼" BSP female
B	Hot water outlet	DN32	1¼" BSP female
C	TPR	DN20	¾" BSP female

Heat up times

Model	Storage capacity	Heating elements	Total input @ 230 VAC	Heat up time $\Delta 50^\circ\text{C}$	Recovery rate
60 L	57 L	3 x 3.3 kW	9.9 kW	20 mins	169 l/h
60 L	57 L	3 x 4.4 kW	13.2 kW	15 mins	226 l/h

Hot water delivery: Mid-winter first-hour delivery (litres), thermostat setting 75 °C

Delivery temp.	Element size	Auck/North	Coastal NI	Cent. NI/SI	Cent. Otago
60 °C	3 x 3.3 kW	257 L	237 L	220 L	213 L
60 °C	3 x 4.4 kW	320 L	294 L	271 L	263 L
40 °C	3 x 3.6 kW	409 L	351 L	308 L	288 L
40 °C	3 x 4.4 kW	522 L	445 L	389 L	363 L

Electrical supply and connections

The electrical connection must be carried out by a qualified person in accordance with NZ Electrical Regulations.

In its standard configuration the water heater will have three elements connected. The elements are intended to be connected to an AC 3-phase, 400 V, 50 Hz power supply in a four wire star-connected configuration.

In some installations, such as a heat pump or Rinnai INFINITY ring main applications, where the water heater is used as a ring main re-heater, the lowest element only may be connected (A1) to an AC single-phase, 230 V power supply.

- The water heater must be filled with water prior to connection to the power supply
- Household wiring to the heater must be capable of withstanding the appliance load
- Fixed wiring must be protected from contact with the internal hot surface of the water heater

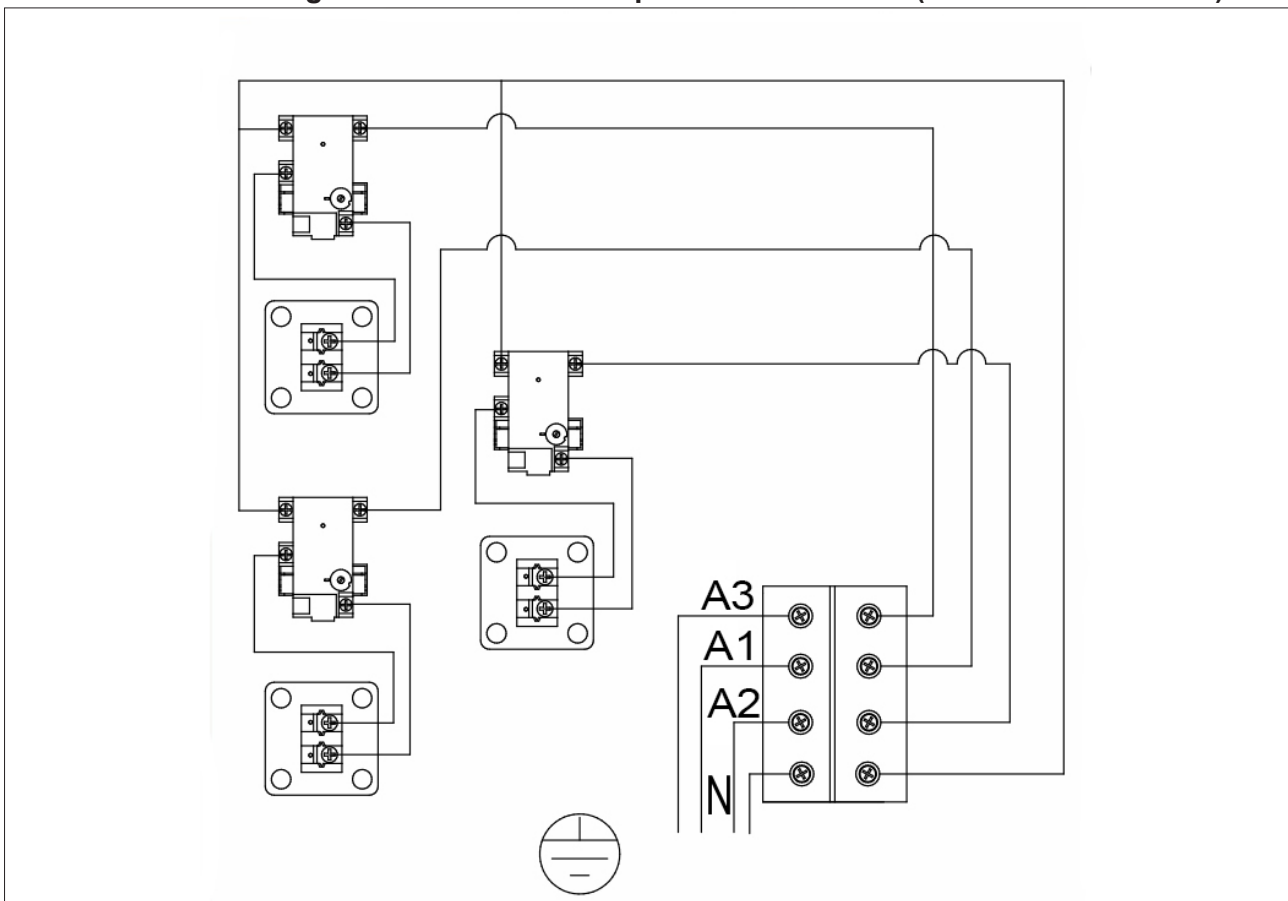
Electrical access is via a hole in the element cover for mounting with an approved electrical conduit gland. For entry to the element cover remove the two fixing screws.

Connect all LIVE, NEUTRAL and EARTH wires in accordance with the wiring diagram. Inspect and ensure all wiring links are secure prior to fixing the access cover and turning the power on.

To ensure the over-temperature and energy cutout is set press the 'reset' button on the thermostat.

The appliance is intended to be connected to cables of fixed wiring, refer table below. Disconnection incorporated in the fixed wiring is in accordance with AS/NZS 3000.

Electric element wiring with thermostat for triple element models (inside element cover)



Valves and fittings

Valves with pressure ratings other than those listed in this manual must not be used.

Valves and fittings supplied with the cylinder

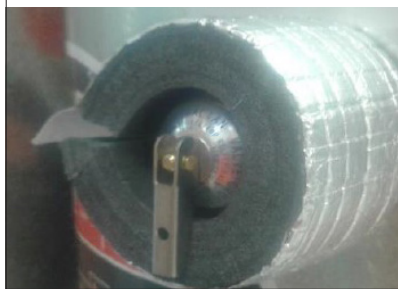
Valves and fittings supplied with the water heater are placed in the Styrofoam packaging during transit.

A combined Temperature and Pressure Relief Valve (TPR) is supplied, this is a safety device and it is mandatory that it is fitted to the top of the cylinder by the installer in all installations. A closed cell neoprene insulation kit is also supplied and is to be fitted as shown below, around the TPR valve to minimise heat losses.

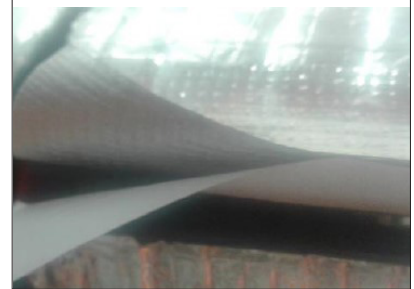
Step 1
Fit TPR to the cylinder.



Step 2
Fit tube insulation around the valve.



Step 3
Remove adhesive liner and fit the duct tape to the tube.



Step 4
Take the cap section and remove the liner from the adhesive face.



Step 5
Fit and secure the cap section to the tube.



Step 6
Ensure the TPR lever can be operated without restrictions.



Installer to supply

- Cold water expansion control valve (ECV)—must be fitted
- Pressure limiting valve
- Stop cock and non-return valve, these are fitted to the cold water supply to the water heater (combination valves incorporating these functions are suitable)
- Temperature limiting device, such as a tempering valve, if required.

Commissioning

Commissioning and draining activities must be carried out by an authorised person.

To fill and turn on the water heater

1. Open all hot water taps in the house including the shower.
2. Open the cold water isolation valve to the water heater. Air will now be forced out of the taps.
3. Close each tap when the water runs freely without air bubbles.
4. Check all plumbing connections and pipe work for water leaks.
5. Switch on the electric power supply.

To turn off the water heater

It may be necessary to turn off the water heater after installation and commissioning, for example during building activities or if the premises are vacant.

1. Switch off the electricity supply at the isolating switch to the water heater.
2. Close the cold water isolation valve at the inlet to the water heater.

To drain the water heater

1. Turn off the water heater as above.
2. Close all the hot water taps.
3. Gently operate the TPR valve release, this will relieve the pressure in the water heater.
4. Open the drain valve—make sure no damage will occur from discharged water.
5. Operate the TPR valve again. This allows air into the water heater and will result in the water draining.

Limited Warranty



Rinnai Heavy Duty Electric Cylinders warranty summary

		Residential application	Commercial application
Cylinder only		10 years	5 years
	Labour	5 years	1 year
Components ¹ supplied by Rinnai	Parts	1 year	1 year
	Labour	1 year	1 year

All terms of the warranty are effective from the first date of installation. Proof of installation date will be required. Where the date of installation is not known or cannot be proven the warranty will commence one month after the date of manufacture—refer to the data label on the cylinder.

Any warranty claim must be made within a reasonable time of discovery of the potential fault or defect.

The cylinder must be sized and installed according to written guidelines from Rinnai.

¹ Components include, but are not limited to; sensors, thermostats, valves, electric heating elements, anodes.

Single residential application warranty

A residential application is defined as an installation where the water heater, with the thermostat set 75 °C or below, delivers hot water to a single family residential dwelling, not used for commercial purposes.

Examples where a residential dwelling is used for commercial purposes; hair salon, catering kitchen, communal care facility etc. These installations would be considered commercial applications. An exception would be an accommodation business such as a motel, where the heater serves the equivalent of a single dwelling, this would be a residential application.

General warranty terms

Rinnai reserves the right to make modifications and change specifications and its parts without notice.

For the purposes of the Consumer Guarantees Act 1993, Rinnai only guarantees the availability of repair facilities and spare parts for the express warranty periods recorded in the Rinnai warranty summary table.

If the cylinder is being acquired for personal, domestic or household use, this warranty does not limit any consumer rights or guarantees that may apply under the Consumer Guarantees Act 1993. If the product is being acquired for the purposes of a business, the provisions of the Consumer Guarantees Act 1993 do not apply and no other warranties (either express or implied by law) apart from those stated in this warranty apply.

Warranty terms and conditions

- All terms of this warranty are effective from the date of first installation. The attending service person reserves the right to verify this date.
- All Rinnai cylinders must be installed, commissioned, serviced, repaired and removed in accordance with the manufacturer's installation instructions, local regulations, and municipal building codes by persons authorised to do so.

- All Rinnai cylinders must be operated and maintained in accordance with manufacturer's instructions.
- The warranty applies only to the components supplied by Rinnai. It does not apply to components supplied by others, such as, but not limited to these, isolating valves, electrical switches, pipe work, electrical cables, and fuses.
- Where the cylinder has not been sited in accordance with the installation instructions or installed such that normal service access is difficult, a service charge will apply. If at the discretion of the attending service person the installation is deemed illegal or access is dangerous, service will be refused. Any work required to gain reasonable access to the cylinder will be chargeable by the attending service person (for example, removal of cupboards, doors, walls, or the use of special equipment to move components, but not limited to these).
- The cylinder warranty is for the period indicated in the summary table. Where the cylinder and/or part is replaced under warranty the balance of the original warranty will remain effective.
- Rinnai reserve the right to transfer functional components from defective water heaters if they are suitable.
- Rinnai reserve the right to have the installed product returned to the factory for inspection.
- Where the cylinder is installed outside the metropolitan area or further than 40 km from a Rinnai authorised service centre, travel costs shall be the owner's responsibility.
- Rinnai reserves the right to replace the cylinder for another type if upon inspection it is deemed another cylinder of a different construction is more suitable.

Warranty exclusions

The following exclusions may cause the warranty to become void and will result in a service charge and costs of parts (if required).

- Accidental damage, defects or failure caused by acts of nature (fire, wind, lightning, flood, storm, hail storm fallout), vandalism, earthquake, war, civil unrest, pests, animals, insects, or entry of foreign objects or matter into the product such as dirt, debris or moisture.
- Defects or failure due to environmental damage such as corrosion.
- Failure due to abuse or misuse, improper maintenance or improper storage.
- Failure due to incorrect or unauthorised installations.
- Failure or damage caused by alterations, service or repair work carried out by unauthorised persons.
- Where the cylinder has failed directly or indirectly as a result of poor water quality outside the limits specified, refer next page.
- Where it is found that there is no fault with the appliance and the issue is related to the installation or is due to power failure.
- Subject to any statutory provisions to the contrary, Rinnai does not accept:
 - Liability for consequential damage or any incidental expenses resulting from any breach of the warranty.
 - Claims for damage to buildings or any other consequential loss either directly or indirectly due to leaks from the heat

Water quality

Water chemistry has a direct impact on hot water heaters, affecting corrosion protection measures, or causing scale buildup.

Water quality MUST:

1. Meet the Water Services (Drinking Water Standards for New Zealand) Regulations 2022 and the Aesthetic Values for Drinking Water Notice 2022, or the water standards as statutorily defined at the time; AND
2. Be within the limits shown in the table below.

Water quality outside these limits will void this warranty.

Water quality and impurity limits

TDS (Total Dissolved Solids)	<1000 mg/L	Chlorides	<250 mg/L
Total Hardness CaCO₃	<200 mg/L	Sodium	<200 mg/L
Alkalinity	<200 mg/L	Iron	<1 mg/L
Dissolved (free) CO₂	<25 mg/L	LSI¹	-1.0-0.8 @20 °C
pH	6.8-8.5		

¹ Langelier Saturation index

Water quality warranty guidelines

Stagnation

Leaving water stagnant in the system will promote corrosion. It is recommended that systems, if not in use, are flushed on an eight week cycle.

Purchase details

Record your purchase details below

	ATTACH YOUR PROOF OF PURCHASE HERE: 
Retailer:	_____
Retailer address:	_____ _____
Date of purchase:	_____
Product details:	_____ _____
Please keep these details in a safe place for future reference	

Register your Rinnai cylinder online at www.rinnai.co.nz/register/ for service reminders, product updates and special offers—you can unsubscribe at any time.

Installer details

Company name: _____	
Installer name: _____	
Address: _____ _____	
Phone: _____	Mobile: _____
Signed: _____	Date: _____

Rinnai.co.nz

Tel: 0800 746 624

<http://www.youtube.com/rinnainz>

<http://facebook.com/rinnainz>

Heavy Duty Electric Cylinders owner & installer guide 15154-C