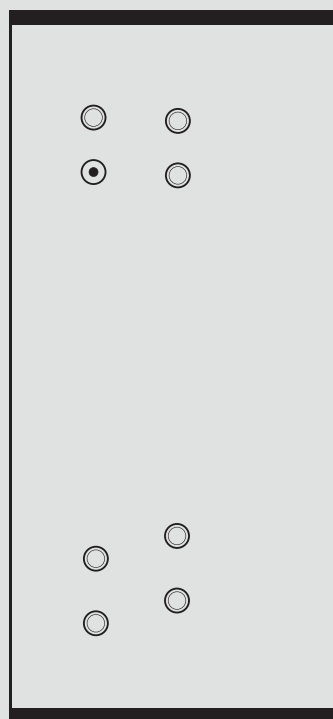


## **OPERATION AND INSTALLATION**

Floorstanding DHW cylinder

**SCE 800 WP**



# CONTENTS | OPERATION

## GENERAL INFORMATION

### OPERATION

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### INSTALLATION

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### WARRANTY

### ENVIRONMENT AND RECYCLING

## OPERATION

### 1. General information

The chapter "Operation" is intended for appliance users and heating contractors.

The chapter "Installation" is intended for heating contractors.

#### Note



Read these instructions carefully before using the appliance and retain them for future reference.

Pass on the instructions to a new user if required.

### 1.1 Safety instructions

#### 1.1.1 Structure of safety instructions



#### KEYWORD Type of risk

Here, possible consequences are listed that may result from failure to observe the safety instructions.

► Steps to prevent the risk are listed.

#### 1.1.2 Symbols, type of risk

Symbol	Type of risk
	Injury
	Electrocution
	Burns (burns, scalding)

#### 1.1.3 Keywords

KEYWORD	Meaning
DANGER	Failure to observe this information will result in serious injury or death.
WARNING	Failure to observe this information may result in serious injury or death.
CAUTION	Failure to observe this information may result in non-serious or minor injury.

# OPERATION

## SAFETY

### 1.2 Other symbols in this documentation



#### Note

General information is identified by the symbol shown on the left.

► Read these texts carefully.

Symbol	Meaning
	Material losses (appliance, consequential, environment)
	Appliance disposal

► This symbol indicates that you have to do something. The action you need to take is described step by step.

### 1.3 Units of measurement



#### Note

All measurements are given in mm unless stated otherwise.

## 2. Safety

### 2.1 Intended use

The appliance is specifically designed for heating DHW with heat pumps.

This appliance is designed for commercial use.

SCE 800 WP must only be connected to specified heat pumps and solar pump assemblies. (see chapter "Specification / Heat sources").

Any other use beyond that described shall be deemed inappropriate. Observation of these instructions is also part of the correct use of this appliance. Any modifications or conversions to the appliance void all warranty rights.

### 2.2 Safety instructions



#### WARNING Burns

There is a risk of scalding at outlet temperatures in excess of 43 °.



#### WARNING Injury

The appliance may be used by children aged 8 and up and persons with reduced physical, sensory or mental capabilities or a lack of experience provided that they are supervised or they have been instructed on how to use the appliance safely and have understood the resulting risks. Children must never play with the appliance. Children must never clean the appliance or perform user maintenance unless they are supervised.



#### WARNING for Australia and New Zealand

This appliance may deliver water at high temperature. Refer to the plumbing code of Australia (PCA), local requirements and installation instructions to determine if additional delivery temperature control is required.



#### WARNING for Australia and New Zealand

For continued safety of this appliance it must be installed, operated and maintained in accordance with the manufacturer's instructions.



#### Note

The appliance is under pressure. During the heating process, expansion water will drip from the expansion valve or the PTR valve into the tundish.

### 2.3 Test symbols

See type plate on the appliance.

## 3. Appliance description

The heat from the heat pump's heating water is transferred to the DHW by corrugated indirect coil.

Two 3.6 kW electric heaters are built into the tank. The appliance is equipped with a 3/4" magnesium anode. The duplex cylinder has a galvanised steel outer shell. The tank is pre insulated with an insulation thickness of 50mm.

The tank offers multiple entry points for potable water circulation.

## 4. Scaling

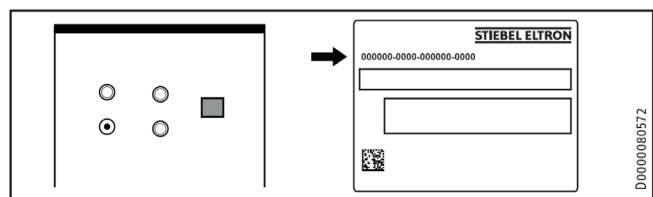
► Almost every type of water deposits limescale at high temperatures. This settles inside the appliance and affects both the performance and service life. The immersion heaters installed may need descaling from time to time. When maintenance is conducted, they should be assessed.

► Regularly check the isolation valve and pressure reduction valve.  
► Commercially available descaling agents must not be used for the cylinder surface.

## 5. Troubleshooting

Telephone your contractor.

To facilitate and speed up your enquiry, please provide the serial number from the type plate (000000-0000-000000):



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# INSTALLATION

## SAFETY & APPLIANCE DESCRIPTION

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### 6. Safety

Only a qualified contractor should carry out installation, commissioning, maintenance and repair of the appliance.

#### 6.1 General safety instructions

We guarantee trouble-free operation and operational reliability only if the original accessories and spare parts intended for the appliance are used.

#### 6.2 Regulations, standards and instructions



##### Note

Observe all applicable national and regional regulations and instructions.



##### Information for Australia and New Zealand

The installation of this product must comply with the requirements of AS/NZS 3500.4.



##### Information for Australia and New Zealand

The installation of this appliance shall conform to the Plumbing Code of Australia (PCA), and the New Zealand Building Code.

#### 6.3 Water installation

##### 6.3.1 Safety instructions



##### Material losses

Install the PTR Valve.

##### 6.3.2 Cold water line

Steel or copper pipes or plastic pipework are approved materials.



##### Material losses

A safety valve is required.

##### 6.3.3 DHW line

Copper, stainless steel or plastic pipework are approved materials.

### 7. Appliance description

#### 7.1 Standard delivery

Delivered with the appliance:

- 5 x rubber feet
- 850 kPa PTR valve, 4 x Plastic locking nut for temperature probe

### 8. Preparations

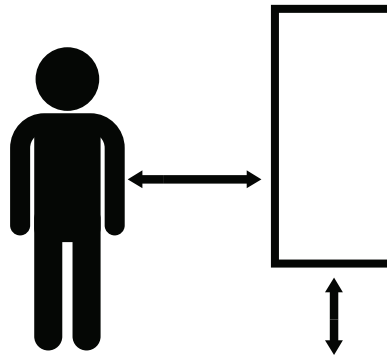
#### 8.1 Installation site

For safe operation, make sure that pipework to the tank is sufficiently insulated to prevent freezing. The tank can be installed outdoors in any condition, but must be operational in an environment where frost occurs. To prevent it from freezing if non operational, the tank must be drained. Ensure the floor offers sufficient stability.

#### 8.2 Eye bolts lifting points

Two lifting eyes can be found on the top of the tank for boom crane lifting the tanks.

Ensure both lifting eyes are used for even weight distribution on the tank. Clear the area sufficiently and do not stand near the tank when lifted.



### 9. Installation

#### 9.1 Fitting the water connection and the safety assembly



##### Note

Carry out all water connection and installation work in accordance with regulations.

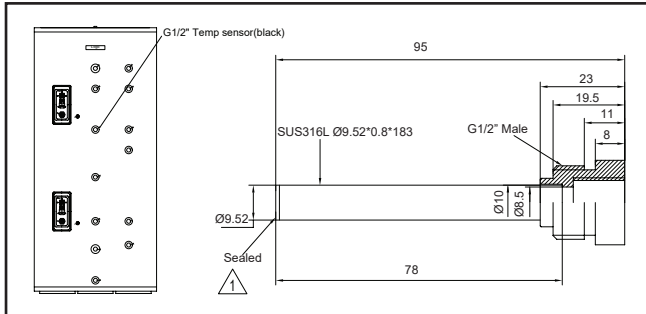
- ▶ Flush the line thoroughly.

The max. permissible pressure must not be exceeded (see chapter "Specification / Data table").

- ▶ Install a type-tested safety valve in the cold water supply line. Please note that, depending on the static pressure, you may also need a pressure reducing valve.

# INSTALLATION ASSEMBLY

## 9.2 Fitting the DHW Sensor, DHW System



1 Thermometer

- ▶ Take the included temperature probe and remove the locking screw.
- ▶ Insert the DHW sensor (TAF) into the temperature probe ensuring the sensor is pushed all the way to the end.
- ▶ Refer to the schematics or hydraulic design to select the optimal port for the temperature probe.

## 9.3 DHW system

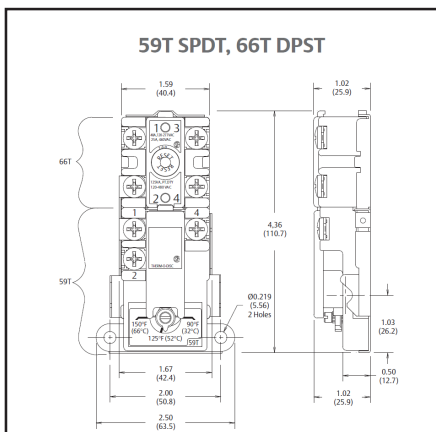
- ▶ Open all taps.
- ▶ Open the shut-off valve in the cold water feed line. Allow the system to fill and flush out all flux and debris from the installation.
- ▶ Close all taps.
- ▶ Open a downstream draw-off point until the appliance has filled up and the pipes are free of air.
- ▶ Check the function of the fitted accessories.
- ▶ Check that the DHW temperature on the heat pump control unit is displayed correctly.

### Heating system

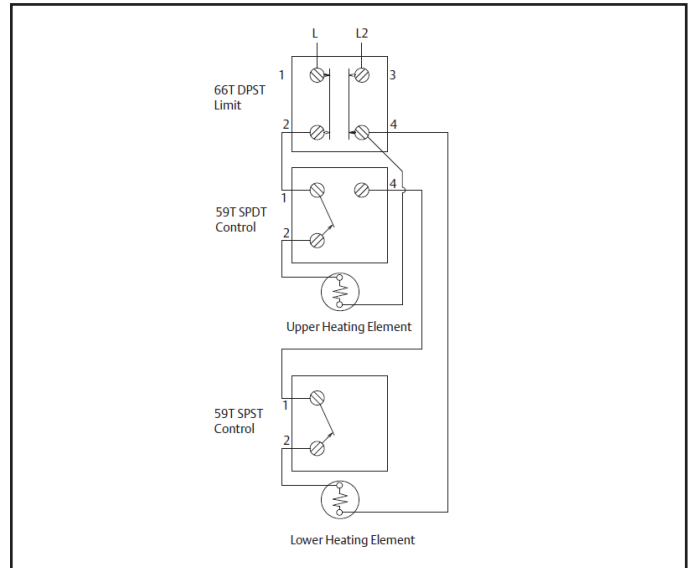
- ▶ Observe the operating and installation instructions of the heat pump.
- ▶ Vent the indirect coils after filling the heat pump system.

## 9.4 Connecting the Electric Element

The thermostats are typically connected for residential electrical storage water heater installations, using two heating elements for non-simultaneous operation. All thermostats sense the surface temperature of the water heater tank.



Dimensions are shown in inches and (millimeters)

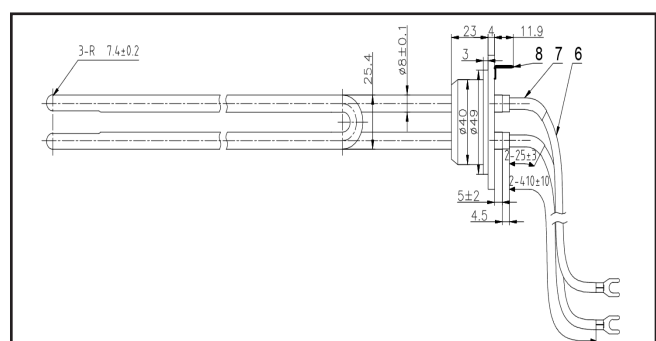
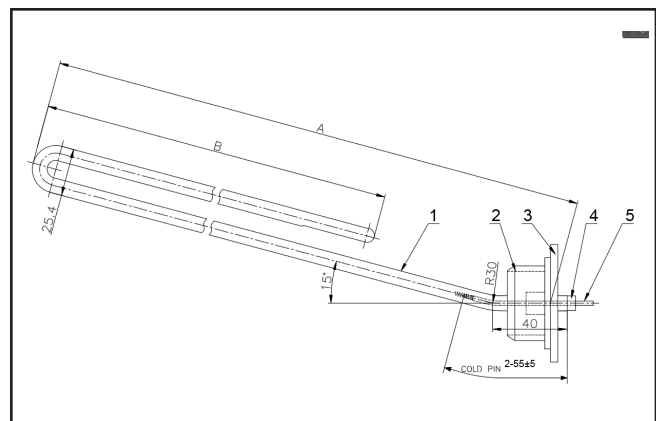


### 9.4.1 Switch actions

**SPST** – The switch opens the normally closed contacts on temperature rise. The contacts automatically return to the closed position when temperatures return to the reset point.

**Manual reset DPST** – The switch opens two sets of normally closed contacts on temperature rise to provide full power disconnect of both conductors.

The system holds the contacts open in the event the reset button is held in the depressed position in an attempt to defeat the manual reset function of the thermostat.



# INSTALLATION SPECIFICATION

## 10. Maintenance



### WARNING Electrocutation

Carry out all electrical connection and installation work in accordance with relevant regulations.

### 10.1 Checking the PTR valve

► Check the PTR Valve for tightness. Ensure the valve remains sealed under normal operation conditions and only releases pressure when needed.

### 10.2 Draining the appliance



### WARNING Burns

Hot water may escape during the draining process.

If the cylinder needs to be drained for maintenance or to protect the whole installation when there is a risk of frost, proceed as follows:

- Close the shut-off valve in the cold water line.
- Open the hot water taps on all draw-off points.
- Drain the appliance via the drain valve of the safety assembly.

### 10.3 Checking the anode

Regular inspection of the magnesium anode is advised. Poor water quality will lead to faster deterioration of the anode.

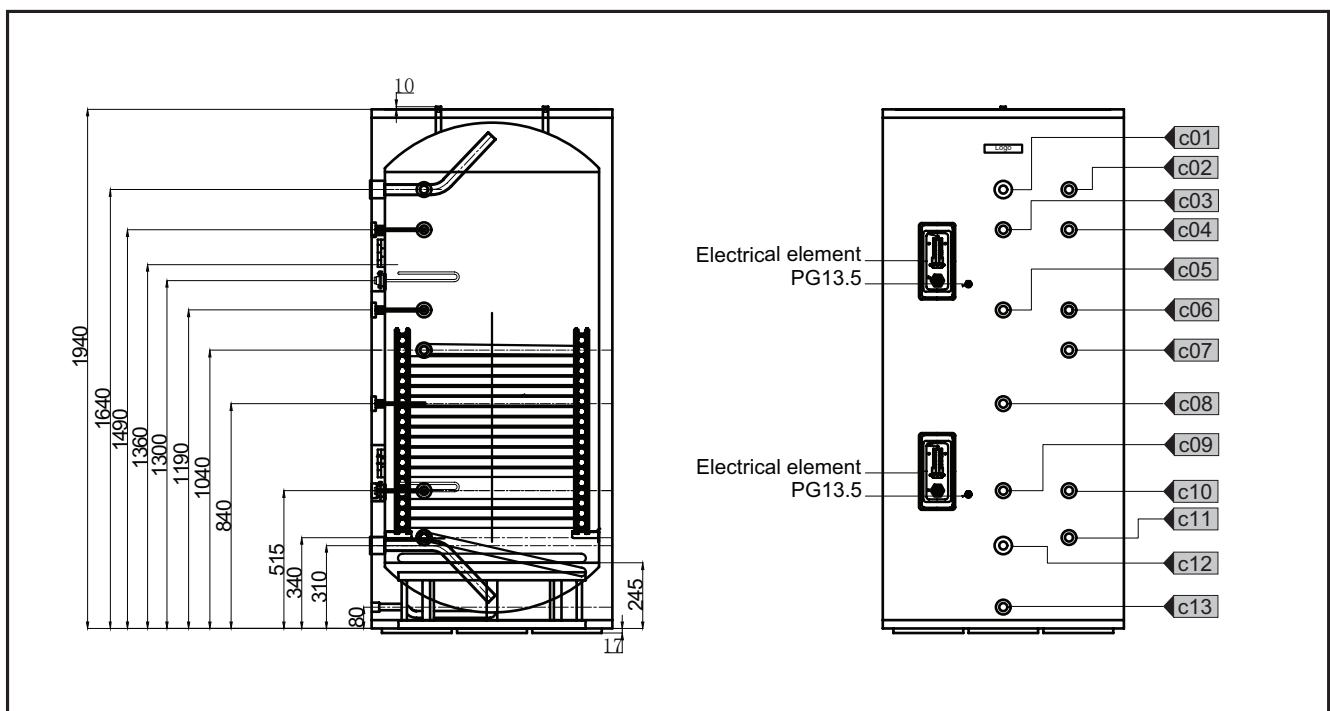
## 11. Specification

### 11.1 Dimensions and connections

#### SCE 800 WP

MODEL NO.	SCE 800 WP
Height	mm 1940
Diameter	mm 900
Tank volume	L 858
Coil capacity	L 29
Net Volume	L 829
Connection Size	G1 1/4"
Net Weight	kg 152
Max Operating Pressure	MPa 0.75
Max. Testing Pressure	MPa 1
Max. Water Temperature	°C 90°C

Part	SCE 800 WP
c01 Hot water outlet	G1 1/4"
c02 TP Valve Hole	G3/4"
c03 Temp sensor	G1/2"
c04 Mg Anode	G3/4"
c05 Temp sensor	G1/2"
c06 Circulation	G1"
c07 Heat Pump heating flow	G1 1/4"
c08 Temp sensor	G1/2"
c09 Temp sensor	G1/2"
c10c Circulation	G1"
c11 Heat Pump heating flow	G1 1/4"
c12 Cold water inlet	G1 1/4"
c13 Drain water	G1"



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# SCE TANK WARRANTY

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STIEBEL ELTRON solutions do not only convince with premium quality, but also outstanding reliability. If you encounter problems with one of our products, rest assured that our national service team will take care of it. We pride ourselves with great customer service as we consider this the basis for a long and successful partnership. For further information, please refer to the detailed warranty conditions listed below or contact our service team on 1800 153 351.

## Australian Consumer Law

1. 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 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.
2. The STIEBEL ELTRON warranty for the unit is in addition to any rights and remedies you may have under the Australian Consumer Law.
3. Without excluding or limiting any rights you may have under the Australian Consumer Law, any guarantees or warranties that would otherwise be implied by law are excluded. If your rights under the Australian Consumer Law can be limited, they are limited to the maximum extent permitted by the Australian Consumer Law.

## Who gives the warranty

4. The warranty is given by Stiebel Eltron (Aust) Pty Ltd (A.B.N. 82 066 271 083) of 294 Salmon Street, Port Melbourne, Victoria, 3207 (“we”, “us” or “our”).

## The unit

5. This warranty applies to STIEBEL ELTRON Buffer Tank, SCE 800 WP (the “unit”)

## The warranty period

6. The warranty period commences on the date of completion of the installation of the unit. Where the date of completion of installation is not known, then the warranty period will commence 2 months after the date of manufacture.
7. The warranty period for a unit used for commercial purposes is shown in the table below. Commercial purposes means that the unit is used for a non-domestic purpose and includes but is not limited to being used in a motel, hotel, mining camp or nursing home.

Component	Warranty period
All components	5 years from the date of completion of the installation of the unit.

## Warranty entitlement

8. You are only entitled to make a warranty claim under this warranty if:
  - 8.1. you own the unit or if you have the owner’s written consent to represent the owner of the unit;
  - 8.2. you contact us within a reasonable time of discovering the problem with the unit and in any event within 30 days;

## Warranty claim

9. To make a valid warranty claim you must provide us with the following information:
  - 9.1. the model number of the unit;
  - 9.2. a description of the problem with the unit;
  - 9.3. the name, address and contact details (such as phone number and e-mail address) of the owner;
  - 9.4. the address where the unit is installed and the location (e.g. in laundry);
  - 9.5. the serial number of the unit;
  - 9.6. the date of purchase of the unit and the name of the seller of the unit;
  - 9.7. the date of installation of the unit;
  - 9.8. a copy of the certificate of compliance when the unit was installed.
10. The contact details for you to make your warranty claim are:

Name: Stiebel Eltron (Aust) Pty Ltd  
Address: 294 Salmon Street, Port Melbourne VIC 3207  
Telephone: 1800 153 351 (8.00 am to 5.00 pm AEST Monday to Friday)  
Contact person: Customer Service Representative  
E-mail: [service@stiebel.com.au](mailto:service@stiebel.com.au)

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# SCE TANK WARRANTY

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11. We will arrange a suitable time with you to inspect and test the unit

## Warranty

12. Subject to the warranty exclusions, we will repair or replace, at our absolute discretion, a faulty component in your unit free of charge if it fails to operate in accordance with its specifications, and you make a valid warranty claim in accordance with this warranty, during the warranty period.

13. If we repair or replace a faulty component to your unit under this warranty, the warranty period is not extended from the time of the repair or replacement.

## Warranty exclusions

14. We may reject your warranty claim if:

14.1. the unit was not installed by a registered and suitably qualified tradesperson.

14.2. the unit was not installed and commissioned:

- a) in Australia;
- b) in accordance with the Operating and Installation Guide (which is available on the Stiebel Eltron Australia website and request);
- c) in accordance with the relevant statutory and other legal requirements of the State or Territory the unit is installed.

14.3. the unit has not been operated or maintained in accordance with the Operating and Installation Guide.

14.4. the unit does not bear its original Serial Number or Rating Label.

14.5. the unit was damaged by or is faulty due to any or any combination of the following:

- a) normal fair wear and tear;
- b) connection to an incorrect water supply, for example where the water is highly conductive; where the water has a mineral content with a TDS > 2500 mg/L; or where the Langelier Saturation Index (LSI) of the water is outside the range  $-1.0 < \text{LSI} < 0.8$  (The LSI is a numeric value indicating whether water is scale forming or corrosive. It factors in pH, total alkalinity, calcium hardness and water temperature);
- c) connection to water from a bore, dam or swimming pool;
- d) connection to an incorrect or faulty power supply;
- e) connection to faulty equipment, such as damaged valves;
- f) foreign matter in the water supply, such as sludge or sediment;
- g) corrosive elements in the water supply;
- h) accidental or malicious damage;
- i) act of God, flood, storm, fire, lightning strike, cyclones, earthquakes, natural disasters or other similar actions of the elements;
- j) excessive water pressure, negative water pressure (partial vacuum) or water pressure pulsation;
- k) wiring not to AS/NZS 3000 standards.

14.6. the unit was damaged before it was installed e.g. it was damaged in transit.

14.7. an unauthorised person has modified, serviced, repaired or attempted to repair the unit without our written consent.

14.8. non genuine parts other than those manufactured or approved by us have been used on the unit.

15. We may charge you:

15.1. for any additional transport costs if the unit is installed more than 30 kilometres from our closest authorised service technician.

15.2. for the extra time it takes our authorised service technician to access the unit for inspection and testing if it is not sited in accordance with the Operating and Installation Guide or not readily accessible for inspection.

15.3. for any extra costs of our authorised service technician to make the unit safe for inspection.

16. You must ensure that access to the unit by our authorised service technician is safe and free from obstruction.

17. Our authorised service technician may refuse to inspect and test the unit until you provide safe and free access to it, at your cost.

18. If we reject your warranty claim in accordance with clause 15, we may charge you for our authorised service technician's labour costs to inspect and test the unit.

19. In order to properly test the unit we may remove it to another location for testing.

STIEBEL ELTRON is committed to our policy of continual improvement, some features may have subsequently been changed or even removed. Our advisors will be happy to consult with you regarding the currently applicable equipment features. The images used in this data sheet are for reference only.

Phone 1800 153 351 [www.stiebel-eltron.com.au](http://www.stiebel-eltron.com.au)