REMEMBER TO REGISTER
WWW.STROMLTD.COM/GUARANTEE

THE FUTURE OF HEATING
IT’S ALL IN THE DETAILS...
Please read the whole manual before attempting installation and follow these installation instructions carefully following the correct operating instructions to ensure long life of this Strom Electric Boiler. These instructions must be conserved and given to any new user.

All boilers come with a full 2-year warranty from the date of registration unless purchased with a promotional warranty. The warranty relates to any manufacturing defects and covers the replacement of any faulty parts and labour costs. The warranty will not cover damage to the boiler through poor installation, and any consequent water damage or leaks into the boiler - All plumbing must be checked before the boiler is left with the end user for normal operation and water tightness. The warranty will not cover charges that have not been organised by Strom Ltd.

This appliance is not intended for use by anyone (including children) with reduced physical, sensorial or mental capacities, or lack of experience with the appliance, unless they have been given supervision or instruction by a competent person responsible for their safety.

**BY FITTING THIS BOILER YOU AGREE:**

- YOU HAVE CARRIED OUT ALL HEAT LOSS CALCULATIONS ON THE PROPERTY AND ARE SURE THAT THIS BOILER IS SUITABLE FOR THE APPLICATION.

- YOU HAVE CARRIED OUT A VOLTAGE AND LOAD TEST TO DETERMINE THE CORRECT Sized BREAKER IS USED.

- YOU HAVE CHECKED IN THE CASE OF THE COMBINATION BOILER THAT THE HOT WATER FLOW RATE IS SUFFICIENT FOR THE APPLICATION

- THAT THE BOILER IS FITTED IN A MANOR AND LOCATION WHERE IT CANNOT BE ACCESSED BY UNAUTHISED/UNQUALIFIED PERSONS.

- TO BE BOUND TO THE TERMS AND CONDITIONS ON THE LAST PAGE OF THIS MANUAL.
  - THE BOILER HAS BEEN RECEIVED IN GOOD CONDITION
This electric boiler must be fitted in accordance with the following: -
- The local building regulations
- UK building regulations

**BS EN 12828**
Heating systems in buildings: Design for water-based heating systems.

**BS EN 12831**
Heating systems in buildings: Method for calculation of the design heat load

**BS EN 14336**
Heating systems in buildings: Installation and commissioning of water-based heating systems

**BS7671**
Requirements for electrical installations. IEE Wiring Regulations. Seventeenth edition

**BS EN 7593**
Code of practice for treatment of water in heating systems

1. Load Check
   - A load check should be taken into consideration when installing high output boilers

2. Central heating design
   - Detailed recommendations are provided in BS EN 12828 and BS EN 6700

3. Location
   - The boiler can be installed in almost any location, but consideration should be given to the potential of frost or damp conditions, and to the future maintenance of the equipment. Clearance should be allocated for the removal of the front panel if necessary and for air flow into the boiler. The boiler must be installed in an upright position, failure to do so will invalidate the warranty The wall where the boiler is being sited should be strong enough to support the weight of the boiler when full.
## Electric Boilers

### BOILER SPECIFICATION

#### COMBINATION ALL ELECTRIC BOILER...

<table>
<thead>
<tr>
<th></th>
<th>SINGLE PHASE</th>
<th>THREE PHASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>230V</td>
<td>230V</td>
</tr>
<tr>
<td>Amps</td>
<td>32A</td>
<td>55A</td>
</tr>
<tr>
<td>Recommended Breaker</td>
<td>40A</td>
<td>62A</td>
</tr>
<tr>
<td>Recommended Cable Size</td>
<td>4mm²</td>
<td>63A</td>
</tr>
<tr>
<td>Max. Heating Pressure</td>
<td>1.5 Bar</td>
<td>62A</td>
</tr>
<tr>
<td>Min. Heating Pressure</td>
<td>0.5 Bar</td>
<td>63A</td>
</tr>
<tr>
<td>Voltage</td>
<td>230V</td>
<td>230V</td>
</tr>
<tr>
<td>Amps</td>
<td>27A</td>
<td>32A</td>
</tr>
<tr>
<td>Recommended Breaker</td>
<td>32A</td>
<td>40A</td>
</tr>
<tr>
<td>Recommended Cable Size</td>
<td>10mm²</td>
<td>40A</td>
</tr>
<tr>
<td>Max. Heating Pressure</td>
<td>1.5 Bar</td>
<td>10mm²</td>
</tr>
<tr>
<td>Min. Heating Pressure</td>
<td>0.5 Bar</td>
<td>3x4mm²</td>
</tr>
<tr>
<td>Voltage</td>
<td>400V</td>
<td>400V</td>
</tr>
<tr>
<td>Amps</td>
<td>18kW</td>
<td>14.4kW</td>
</tr>
<tr>
<td>Recommended Breaker</td>
<td>27A</td>
<td>32A</td>
</tr>
<tr>
<td>Recommended Cable Size</td>
<td>10mm²</td>
<td>3x6mm²</td>
</tr>
<tr>
<td>Max. Heating Pressure</td>
<td>1.5 Bar</td>
<td>3x6mm²</td>
</tr>
<tr>
<td>Min. Heating Pressure</td>
<td>0.5 Bar</td>
<td></td>
</tr>
</tbody>
</table>

*Recommended Breaker To Offer 30 Degree Temperature Rise Of Incoming Cold Mains Supply

#### SYSTEM ALL ELECTRIC BOILER...

<table>
<thead>
<tr>
<th></th>
<th>SINGLE PHASE</th>
<th>THREE PHASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>230V</td>
<td>230V</td>
</tr>
<tr>
<td>Amps</td>
<td>32A</td>
<td>55A</td>
</tr>
<tr>
<td>Recommended Breaker</td>
<td>40A</td>
<td>62A</td>
</tr>
<tr>
<td>Recommended Cable Size</td>
<td>4mm²</td>
<td>63A</td>
</tr>
<tr>
<td>Max. Heating Pressure</td>
<td>1.5 Bar</td>
<td>62A</td>
</tr>
<tr>
<td>Min. Heating Pressure</td>
<td>0.5 Bar</td>
<td>63A</td>
</tr>
<tr>
<td>Voltage</td>
<td>230V</td>
<td>230V</td>
</tr>
<tr>
<td>Amps</td>
<td>27A</td>
<td>32A</td>
</tr>
<tr>
<td>Recommended Breaker</td>
<td>32A</td>
<td>40A</td>
</tr>
<tr>
<td>Recommended Cable Size</td>
<td>10mm²</td>
<td>40A</td>
</tr>
<tr>
<td>Max. Heating Pressure</td>
<td>1.5 Bar</td>
<td>10mm²</td>
</tr>
<tr>
<td>Min. Heating Pressure</td>
<td>0.5 Bar</td>
<td>3x4mm²</td>
</tr>
<tr>
<td>Voltage</td>
<td>400V</td>
<td>400V</td>
</tr>
<tr>
<td>Amps</td>
<td>18kW</td>
<td>14.4kW</td>
</tr>
<tr>
<td>Recommended Breaker</td>
<td>27A</td>
<td>32A</td>
</tr>
<tr>
<td>Recommended Cable Size</td>
<td>10mm²</td>
<td>3x6mm²</td>
</tr>
<tr>
<td>Max. Heating Pressure</td>
<td>1.5 Bar</td>
<td>3x6mm²</td>
</tr>
<tr>
<td>Min. Heating Pressure</td>
<td>0.5 Bar</td>
<td></td>
</tr>
</tbody>
</table>

*Recommended Breaker To Offer 30 Degree Temperature Rise Of Incoming Cold Mains Supply
## Electric Boilers

### WHATS IN THE BOX?

1. BOILER
2. INTEGRATED WALL MOUNTING BRACKET
3. WALL MOUNTING GUIDE
4. 3 x EXPANDING WALL BOLTS
5. INSTALLATION MANUAL
Electric Boilers

INSTALLATION SCHEDULE

Please ensure that all steps of the installation schedule are carried out in this order, and only this order. Failing to carry out the installation in this order may result in damage to the boiler and incorrect function of the system.

PRIOR TO INSTALLATION

1. HEAT LOSS CALCULATION.

Correctly calculate the correct size unit for the properties heating demand. We regret to inform you that after installation there is no way to boost the output of the unit so it is important you get the correct unit for the property. Strom are unable to assist with these calculations.

2. HOT WATER CALCULATION.

For combination units ensure that the boiler has a sufficient heat output to provide the correct temperature & flow of water required for the application. If you need help calculating this please contact Strom.

3. VOLTAGE & LOAD CALCULATION.

Typically the UK single phase supply is 230V, all our technical data is based on this, however you should do a measurement and correctly determine the correct input voltage, this will determine the size of breaker required. All our breaker recommendations are only that, and should be checked against your requirements.

4. MAINS WATER PRESSURE.

The maximum rated pressure of the units is 6bar, where water pressure is approaching this limit, or where dynamic pressure varies and may exceed this a pressure reducing set on the mains supply should be installed.

All of these considerations must be made prior to at least installation but preferably before purchase is made. Regretably once the box to the boiler has been opened we are unable to accept returns of the product unless the product is faulty or does not operate as advertised by Strom.

IMPORTANT

It is important that once you start installing the boiler you do not leave it unattended with power connected or water in the circuits unless the whole installation and all steps have been completed. If you intend to leave the boiler unattended without completing the installation you should ensure that no leaks are present or possible, and that the electric have been isolated.
### INSTALLATION

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Complete system piping.</td>
<td>12</td>
</tr>
<tr>
<td>2.</td>
<td>Wall mount the boiler.</td>
<td>23</td>
</tr>
<tr>
<td>3.</td>
<td>Connect, fill &amp; flush boiler</td>
<td>25</td>
</tr>
<tr>
<td>4.</td>
<td>Check all water connections</td>
<td>28</td>
</tr>
<tr>
<td>5.</td>
<td>Make electrical connection</td>
<td>29</td>
</tr>
<tr>
<td>6.</td>
<td>Wire an external thermostat</td>
<td>30</td>
</tr>
<tr>
<td>7.</td>
<td>Check electric connections</td>
<td>31</td>
</tr>
<tr>
<td>8.</td>
<td>Power on the boiler</td>
<td>32</td>
</tr>
<tr>
<td>9.</td>
<td>Set boiler parameters</td>
<td>33</td>
</tr>
<tr>
<td>10.</td>
<td>Set pump speed &amp; purge air</td>
<td>34</td>
</tr>
<tr>
<td>11.</td>
<td>Set DHW flow &amp; temperature</td>
<td>35</td>
</tr>
</tbody>
</table>

### POST INSTALLATION

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Program thermostat.</td>
<td>Refer to manufacturers manual</td>
</tr>
<tr>
<td>2.</td>
<td>Test heating &amp; hot water</td>
<td>36</td>
</tr>
<tr>
<td>3.</td>
<td>Complete check list</td>
<td>37</td>
</tr>
<tr>
<td>4.</td>
<td>Ask owner to register</td>
<td>Refer to <a href="http://www.stromltd.com/guarantee">www.stromltd.com/guarantee</a></td>
</tr>
</tbody>
</table>
1. Circuit breaker
2. Power access window
3. Heating system patented heat exchanger
4. Thermal cut-outs
5. Heating expansion vessel
6. Temperature sensor for heat flow
7. Temperature sensor for heat return
8. Automatic air vent (access behind pump)
9. Pump
10. Pressure gauge
11. Pressure sensor (linked to gauge)
12. Pressure & expansion relief valve
13. Heating system replenishing valve
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Circuit breaker</td>
<td>10</td>
<td>Pressure gauge</td>
</tr>
<tr>
<td>2</td>
<td>Power access window</td>
<td>11</td>
<td>Pressure sensor (linked to gauge)</td>
</tr>
<tr>
<td>3</td>
<td>Heating system patented heat exchanger</td>
<td>12</td>
<td>Pressure &amp; expansion relief valve</td>
</tr>
<tr>
<td>4</td>
<td>Thermal Cut-outs</td>
<td>13</td>
<td>Heating system replenishing valve</td>
</tr>
<tr>
<td>5</td>
<td>Heating expansion vessel</td>
<td>14</td>
<td>Thermal Cut-outs</td>
</tr>
<tr>
<td>6</td>
<td>Temperature sensor for heat flow</td>
<td>15</td>
<td>Domestic hot water heat exchanger</td>
</tr>
<tr>
<td>7</td>
<td>Temperature sensor for heat return</td>
<td>16</td>
<td>Temperature sensor for hot water outlet</td>
</tr>
<tr>
<td>8</td>
<td>Automatic air vent (access behind pump)</td>
<td>17</td>
<td>Temperature sensor for cold water inlet</td>
</tr>
<tr>
<td>9</td>
<td>Pump</td>
<td>18</td>
<td>Flow sensor for domestic hot water</td>
</tr>
</tbody>
</table>
Electric Boilers
SCREEN DIAGRAM

POWER BUTTON
Turns the boiler On or Off.

MENU BUTTON
Used by the installer to enter configuration mode.

INCREASE VALUE
Increases value such as temperature.

IGNITION
The boiler is currently heating up either for heating or hot water.

RETURN TEMPERATURE
The return temperature is too high.

RETURN TEMPERATURE
The return temperature has reached the temperature differential set by the installer.
INCREASE VALUE

Increases value such as temperature.

DECREASE VALUE

Decreases value such as temperature.

ADMIN MENU

Used only under instruction by Strom.

DATE INDICATOR

CLOCK

Shows the current time as set during boiler setup.

TEMPERATURE

Shows the current temperature of the heating or hot water.

PUMP RUNNING

While lit solid the pump is running and is performing as expected.

FROST PROTECT

The boiler is too cold and is entering a defrost cycle in attempt to prevent damage to the boiler.

THERMOSTAT STATUS

While lit solid there is an external thermostat fitted and there is a demand for heat, while flashing their is either no thermostat fitted or no demand for heat.
Electric Boilers

SYSTEM PIPING

The boiler must be installed by a competent and certified plumber or heating engineer and systems should be designed to meet the current building regulations in force at the time of installation.

Strom Limited are not responsible for faulty installations which are performed by unqualified tradespeople.

DESIGN NOTES:

ISOLATION VALVES:
For ease of removal from the system, it is recommended that full bore isolation valves are fitted on the flow and return pipework from the boiler. Do not use standard ball valves, as this can restrict the flow in and out of the boiler and result in detrimental performance.

AUTOMATIC AIRVENTS
An automatic air vent is already built into the boiler. However, if the boiler is to be used in tandem with a hot water cylinder, an additional air vent should be fitted in the vicinity of the cylinder coil. An airvent should always be considered at the highest point in a system to aid in purging the system of any air.

AUTOMATIC BYPASS VALVE
An automatic bypass valve is integral to any system and MUST be installed as part of this installation. The ABV should be fitted to begin opening as the first valve, radiator, or actuator shuts in the system, this stops excess pressure from building in the system on the flow side. Failure to fit and set the ABV can result in poor performance and premature boiler failure.

WATER CONNECTIONS
For filling the heating system, reference should be made to BS EN 14336. There must be no connection between the central heating systems and the main water supply, and all local water bylaws must be observed. Any connection made between the mains water and heating system must be disconnected after use.

WATER PURGES
Install purges in the radiators and any high points in the heating system to aid in removing air.

DRAIN POINT
A drain point should be fitted at the lowest point of the heating system. It is not acceptable to drain the boiler through a safety valve as debris can prevent the correct operation of the valve.

HEATING EXPANSION VESSEL
An expansion vessel is fitted internally within the boiler to provide room for thermal expansion of water under regular operating conditions. However, if the system contains significant volumes of water, an additional heating expansion vessel should be fitted externally.
**HEAT ONLY BOILER**

**PROGRAMMER, ROOM THERMOSTAT & TRV’S - 2 PORT VALVE CONTROL (<150m²)**

Diagrams provided as guidance only, final design should be decided upon by a qualified plumber inline with current Part L guidelines.
Electric Boilers

PART L COMPLIANT LAYOUTS

HEAT ONLY BOILER
PROGRAMMER, ROOM THERMOSTAT & TRV’S - 3 PORT VALVE CONTROL (<150m²)

Diagram provided as guidance only, final design should be decided upon by a qualified plumber inline with current Part L guidelines.
HEAT ONLY BOILER
PROGRAMABLE ROOM THERMOSTAT & TRV’S - 2 PORT VALVE CONTROL (<150m²)

DIAGRAMS PROVIDED AS GUIDANCE ONLY, FINAL DESIGN SHOULD BE DECIDED UPON BY A QUALIFIED PLUMBER IN LINE WITH CURRENT PART L GUIDELINES.
Electric Boilers

PART L COMPLIANT LAYOUTS

HEAT ONLY BOILER
PROGRAMABLE ROOM THERMOSTAT & TRV’S - 3 PORT VALVE CONTROL (<150m²)

DIAGRAMS PROVIDED AS GUIDANCE ONLY, FINAL DESIGN SHOULD BE DECIDED UPON BY A QUALIFIED PLUMBER IN LINE WITH CURRENT PART L GUIDELINES.
COMBINATION BOILER
PROGRAMMER, ROOM THERMOSTAT & TRV’S - 2 PORT VALVE CONTROL (<150m²)

DIAGRAMS PROVIDED AS GUIDANCE ONLY, FINAL DESIGN SHOULD BE DECIDED UPON BY A QUALIFIED PLUMBER IN LINE WITH CURRENT PART L GUIDELINES.
Electric Boilers

PART L COMPLIANT LAYOUTS

HEAT ONLY BOILER
PROGRAMABLE ROOM THERMOSTAT & TRV’S - 2 PORT VALVE CONTROL (<150m²)

DIAGRAMS PROVIDED AS GUIDANCE ONLY, FINAL DESIGN SHOULD BE DECIDED UPON BY A QUALIFIED PLUMBER IN LINE WITH CURRENT PART L GUIDELINES.
HEAT ONLY BOILER
PROGRAMMABLE ROOM THERMOSTATS & TRV’S (150m²+)

Diagram:

- Boiler
- 2 Port
- 3 Port
- ABV
- Wheel Head Valve
- Lock Shield Valve
- Thermostatic Radiator Valve
- Room Stat
- Programmable Room Stat
- Multi Chan Prog
- Two Chan Prog
- One Chan Prog
- Cyl Stat
- Junct Box
- Wiring

Diagrams provided as guidance only, final design should be decided upon by a qualified plumber inline with current Part L guidelines.
HEAT ONLY BOILER
MULTI CHANNEL PROGRAMMER, ROOM THERMOSTATS & TRV’S (150m²+)

Diagram:

- Boiler
- 2 Port
- 3 Port
- ABV
- Wheel Head Valve
- Lock Shield Valve
- Thermostatic Rad Valve

Diagrams provided as guidance only, final design should be decided upon by a qualified plumber inline with current Part L guidelines.
COMBINATION BOILER
PROGRAMMABLE ROOM THERMOSTATS & TRV’S (150m²+)

DIAGRAMS PROVIDED AS GUIDANCE ONLY, FINAL DESIGN SHOULD BE DECIDED UPON BY A QUALIFIED PLUMBER IN LINE WITH CURRENT PART L GUIDELINES.
COMBINATION BOILER
TWIN ZONE PROGRAMMER, THERMOSTATS & TRV’S (150m²+)

DIAGRAMS PROVIDED AS GUIDANCE ONLY, FINAL DESIGN SHOULD BE DECIDED UPON BY A QUALIFIED PLUMBER IN LINE WITH CURRENT PART L GUIDELINES.
**IMPORTANT**

When choosing a location to mount the boiler it is important that you consider clearance, servicing the boiler, and safe and suitable operation.

The boiler should be fitted out of the reach of children, people of diminished responsibility, and people who may otherwise access the boiler internals without the proper skills and qualifications as opening the boiler should only be done by a qualified electrician after first isolating the electrical supply. If there is the possibility that the boiler could be opened without first isolating the electrical supply then you must install it in a fashion that prevents access to the boiler, such as a lockable cupboard.

In terms of clearance Strom recommend at least 100mm from all fixed obstructions on all sides of the boiler.

Please ensure that the designated wall for mounting the boiler has the structural integrity to support the unit when full. The following guidance is provided for sound solid brick wall mounting, your mounting may vary.

1. Using a drill create 6 holes as per the including wall mounting diagram. The upper holes should be Φ8 diameter, and the lower holes Φ6.
2. Secure the 3 supplied Φ8 expansion bolts into the top three holes.
3. Hang the boiler from the top three bolts before securing the boiler to the wall using standard fastenings at the bottom.

4. Please make sure that the boiler is now firmly fixed in position and unable to move. Failure to secure the boiler may cause damage to the wall and boiler in the future.
MAKING CONNECTIONS:

- The connections for flow and return must be carried out according to the colour scheme and labelling marked on the boiler.
- The connections for mains water inlet and outlet must be carried out according to the colour scheme and labelling marked on the boiler.
- When tightening or loosening threaded connections, always use suitable tools such as open-end adjustable spanners. Do not use pipe wrenches, extensions or unsuitable tools that may cause damage or water leaks.
- High temperature flexible hoses are recommended for all connections, however if you are using irons please ensure that you secure both connections and do not apply more torque than necessary as you may split in the internal pipework of the boiler or weaken it, both will render the warranty void and increases the chances of a leak that would not be covered by the warranty.

HEATING FLOW & RETURN:

These connections are ¾” for connection to 22mm pipe. Suitable diameter service valves should be installed at the flow and return to allow the boiler to be isolated for maintenance without draining the entire heating system. We recommend flexi-hoses as overtightening irons may damage the boiler internals which is not covered under warranty.

HOT WATER INLET & OUTLET: (COMBINATION BOILERS ONLY)

These connections are 1/2” for connection to 15mm pipe with service valve on the inlet for flow restriction. We recommend flexi-hoses as overtightening irons may damage the boiler internals which is not covered under warranty.

PRESSURE RELIEF VALVE:

The boiler comes with a barb fitting for quick connection in temporary applications, however we recommend the removal of this to expose a 1/2” female connection, this can then be converted to 15mm copper pipe and discharged according to current building regulations.
Electric Boilers

WATER CONNECTIONS

FILLING POINT:

A convenient fill point has been added to the boiler called the “water replenishing valve”. A temporary connection should be made to this point when initially filling the boiler or topping the water pressure up. This must be closed once the system is up to pressure and the air has been purged. Alternatively, this can be left closed and a traditional filling loop can be used for filling of the heating system and replacing any water lost during servicing or bleeding the system. The filling loop should be installed in close vicinity to the boiler or connected to the water replenishing connection. The filling loop should be installed to current water regulations and should be removed after filling and the valves sealed with suitable caps.
FLUSHING:

The system must be flushed to 10% of mains PPM (chloride and otherwise) or lower to ensure that the water system is not detrimental to the lifespan of the boiler. If the boiler is being installed into an existing heating system, a power flush must be carried out on the radiators and pipework to remove any potential debris.

HEATING SYSTEM INITIAL FILL:

Ensure that both flow and return isolation valves fitted as part of your installation are fully open. Find the Automatic Airvent behind the pump and ensure that the cap is freely moving and not screwed down in the closed position. Connect the filling loop to the Water Replenishing connection, open the valve fully and allow the system to fill slowly until the pressure gauge reads between 1 and 1.5 bar, at which point the replenishing valve should be shut. Ensure that you add inhibitor to your system, refer the manufacturers guidance for diluation rates. For the moment please leave the filling loop connected until you have purged the air out of the system.

HOT WATER INITIAL FILL: (COMBINATION BOILERS ONLY)

Ensuring that the isolating valve before the cold water inlet is fully open, open all hot water taps on the hot water circuit 1 at a time and run until all air has ceased coming out of the tap, it is important to wait a moment until all spluttering has stopped. If any air remains in the hot water element of the boiler when power is turned on the water heating element can prematurely fail.
Electric Boilers
CHECK WATER CONNECTIONS

It is important not only to check for leaks on the pipework installed by yourself, but also to check the internals of the boiler for any leaks over a few hours after installing the boiler.

Every boiler is pressure tested inside our factory however after a long journey and installation it can sometimes be necessary to tighten connections when water escapes occur. Please do not unnecessarily tighten connections, or over tighten them, only as required in the few hours after initial installation.

If you are unable to check for leaks in the few hours after installation please drain down and only fill the system again when you have the time to do so. This applies to one circuit on a system boiler and both circuits on a combination boiler.
ELECTRICAL CONNECTIONS

Electric Boilers

POWER SUPPLY:

The supply cable to the boiler should be of sufficient size to carry the load capacity required. It should be wired through a linked isolator switch with minimum contact gaps of 3mm in every pole, and the system protected by a suitably rated circuit breaker.

It is essential that the boiler is properly earthed, and the wiring tested to current IEE regulations.

The following table shows the specification for the full selection of Strom Boilers, please check carefully your model and read off from the table below. Calculations should always be done to ensure that the information is correct for your circumstances, as variances in installations can change the breaker size and or cable size, for instance voltage varies from property to property and does not necessarily follow any regional variances.

<table>
<thead>
<tr>
<th>Rated Boiler Output</th>
<th>7kW</th>
<th>11kW</th>
<th>14.4kW</th>
<th>18kW</th>
<th>21kW</th>
<th>24kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single / Three Phase</td>
<td>Single</td>
<td>Single</td>
<td>Single</td>
<td>Three</td>
<td>Three</td>
<td>Three</td>
</tr>
<tr>
<td>Rated Voltage</td>
<td>230VAC</td>
<td>230VAC</td>
<td>230VAC</td>
<td>400VAC</td>
<td>400VAC</td>
<td>400VAC</td>
</tr>
<tr>
<td>Current (A) @ Rated Voltage</td>
<td>32</td>
<td>55</td>
<td>63</td>
<td>27.3</td>
<td>31.8</td>
<td>36.4</td>
</tr>
<tr>
<td>Minimum MCB/RCB (A)</td>
<td>40</td>
<td>63</td>
<td>63</td>
<td>32</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Minimum Cable Size (mm²)</td>
<td>4</td>
<td>10</td>
<td>10</td>
<td>3 x 4.0</td>
<td>3 x 6.0</td>
<td>3 x 6.0</td>
</tr>
</tbody>
</table>

The terminal connection block is at the top right-hand side of the boiler and is accessible via the removal of the front panel. The supply cable should be safely routed to this point through the cable entry point at the top of the right-hand panel of the boiler.

Ensure the connection cables are correctly wired into the correct terminals and are securely in position.

CABLE TYPE:

For ease of installation Strom always recommend a multi strand high temperature flexible cable such as HO7 cable, please consult your electrical distributor, and always make sure that size of cable is correct for the number of amps used as different cables can have different ratings at different core sizes.
Electric Boilers

CONNECTING EXTERNAL THERMOSTAT

Because no programming or temperature control can be done by the boiler itself it is necessary to fit an external thermostat. It is recommended that you fit time and temperature control in the form of separate programmer and thermostat(s) or in the form of all in one programmable thermostat(s). More information can be found on system types on page 11.

The following information is provided as a guide only and refers to Strom manufactured heating controls, however you should follow the guidance of the manufacturer when connecting the thermostat to the Strom Boiler. We regret that we cannot offer any wiring advice of competitor products, and can only refer in those circumstances to the connections on our boiler.

BOILER WIRING:

The PCB control board for the heating circuit is located in the right hand side of the boiler between the pump and the main electrical supply point.

1. Terminal Block
2. 6 Amp Fuse
3. Heating Power Board
4. Water Power Board
5. Water Outlet Temp. Sensor
7. Water Flow Sensor
8. Touch Control Panel
9. Pressure Switch
10. Heating Cut-out
11. Heating Flow Temperature
12. Heating Return Temperature
13. Buzzer
14. Heat Exchanger Power
15. Internal Memory Battery

THERMOSTAT WIRING:

All wiring must be carried out in accordance with current IEE BS7671 wiring regulations.

All electrical connections must be made by a qualified electrician.
It is important before powering on the boiler for the first time that all electrical connections are checked, this is not only your own connections but also the factory made ones too. Whilst all factory made connections are tested at the factory it is possible that during transit or installation connections may have come loose.

For Screwed connections please check for cable movement and tighten with a Screwdriver if necessary and for ribbons and push plastic connectors please gently apply pressure to make sure they are firmly seated. Please check the following connections:

1. The main power supply connections to the unit, both installer and factory made.
2. The spade connections labelled as number 14 on the PCB control board opposite.
3. The thermostat connections labelled as number 1 on the PCB control board opposite.
4. Push connectors labelled 3 - 12 if present on the PCB control board opposite.
5. All terminations on the heating element (these are the braided connections).
6. All connections made on the PCB above the heating element (these are braided connections).
7. All terminations on the hot water elements (these are the braided connections) - Combi only.
8. All earth terminations both factory made and installer made.
IMPORTANT

Before powering on the boiler for the first time please make sure you have completed the following:

1. All aspects of the manual proceeding this section have been completed as instructed.

2. The fitted thermostat or programmer is set to the off position, or where off is not possible the thermostat is set to the lowest possible temperature.

3. Make sure that any power isolators inside the boiler are turned on, the boiler casing is secured, and the lower flap is in the upright position.

4. The boiler can now be powered on by activating power at the breaker in the consumer unit. The boiler will initially power on in standby mode. The power button will bring the boiler out of standby mode, but for the time being leave the boiler in this mode so that the boiler settings can be configured.
The boiler has 3 key parameters that need to be set in order to make the boiler function correctly:

**CLOCK**
The time function displays the Time on the front of the boiler during normal operation, this helps the homeowner to confirm that the programmer has been programmed correctly by letting them see the time the boiler has become activated.

**BOILER FLOW TEMPERATURE**
The boiler flow temperature displays on the boiler as “HEAt”. The default position is 65°C, this should however be set to the design temperature of the heating system, in many cases on existing properties with standard radiator systems 65°C will be correct, however underfloor heating systems and low temperature radiator systems may be as low as 35°C. If this is not adjusted on set correctly the boiler may cycle and experience overheating problems. If a hot water cylinder is present most systems would be remain set at 65°C.

**BOILER DIFFERENTIAL**
The boiler differential temperature displays on the boiler as “dIFF”. When the boiler finally reaches the flow temperature set on the boiler the heat exchanger will turn off to allow heat to dissipate in the system. It will only fire again when the temperature drops by the number degrees set in this setting. For example if FLOW is set as 65°C and dIFF is set as 15°C when the boiler flow hits 65°C it will not reactivate until 50°C is reached. Default position for this setting is 15°C.

**CHANGING THE SETTINGS:**

To change the settings **with the boiler still in the standby position** press and hold the Menu button (see page 10) until “CLOCK” begins to flash, using the up and down button press set the time, pressing the menu button again to move from hours to minutes. If the boiler doesn’t enter the admin mode it is likely the boiler is not in the standby position, press and hold the power button until the boiler enters standby and try again.

Pressing the Menu button again will cause HEAt to be displayed, again using the up and down button set the heat output to the correct design temperature.

Finally press the Menu button again and dIFF will be displayed, finally using the up and down buttons for the final time set the heat differential of the boiler.

Press and hold the power button for a few seconds waiting for the boiler to beep and for the Admin menu to be exited.
Electric Boilers

SET PUMP SPEED & PURGE AIR

Before moving the boiler out of standby mode please check and complete the following actions:

1. The boiler has been properly configured in the previous step.
2. The airvent on the pump is open with the dust cap moving freely.
3. Set the pump to pump speed one, this for many installations should be adequate.

The boiler can no be activated, press and hold the power button until the boiler bleeps and exits standby mode. The first thing you will notice is the flashing Thermostat Status Symbol, this means that currently there is no demand from the thermostat for heating.

Activate the thermostat so that it is now calling for heat, the Thermostat Status Symbol should now remain static and lit. The pump will fire up and after a few seconds the ignition symbol should illuminate and heat should start being produced.

While the pump is running you should begin to purge all air from the system by bleeding all radiators and airvents in the system. Once bled the system should run almost silently with very little noise coming from the boiler or pump. Once all air is purged you can begin to alter the pump speed to suit your needs, normally a 15 to 20 degree differential between the flow and return is desirable, and the pump speed can be increased or decreased to achieve this differential.

You should also now take the time to set the Automatic Bypass Valve on the system, with all TRV’s on the system open and the pump set at the correct speed set the Autobypass Valve to only just closed, now confirm you have the correct setting by closing only one of the TRV’s, the bypass valve should now start to allow small amounts of water to pass.

Finally now that all the air has been purged from the system check the final pressure reading of the heating circuit, and top up if required. Once set please disconnect the filling loop or water supply to the water replenishment valve, and ensure that all connections are capped off until required again at a future date.
The hot water side of the electrical combination boiler relies on setting the correct flow rate of water going in to the unit, if the water going in to the unit is too fast then the unit will be unable to cope with the demand and the water will come out cold. You should aim to set your boiler to approximately the following flowrates, you can do this by restricting the isolation valve fitting on the cold water of the inlet during installation.

<table>
<thead>
<tr>
<th>Rated Boiler Output</th>
<th>7kW</th>
<th>11kW</th>
<th>14.4kW</th>
<th>18kW</th>
<th>21kW</th>
<th>24kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Flowrate (LPM)</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>12</td>
<td>13</td>
</tr>
</tbody>
</table>

With the hot water tap open and running the temperature of the hot water outlet can now be set on the boiler by using the up and down button. The temperature cannot be adjusted without a hot tap being open. Remember this setting does not guarantee the output, it only sets the maximum possible output, the output temperature will rely on the flow rate going in to the boiler as above.
Electric Boilers

TESTING HEATING & HOT WATER

Before completing the installation checklist please take the time to check the Heating Circuit and Domestic Hot Water Circuit (Combi’s only). This final check is important to ensure that you do not have to reattend site at a later date to correct any issues.

HEATING TEST

1. Set the thermostat to a temperature approximately 4-5 degrees above current room temperature and ensure that the boiler fires.
2. Leave the boiler running for several minutes and check that the radiators are beginning to get warm.
3. After approximately 15 minutes check the temperature differential between the flow and return is approximately 15 to 20°C, if not please refer to setting the pump speed on page 34.
4. Wait until the thermostat reaches temperature and deactivates the boiler.
5. Now set the thermostat 4-5 degrees higher and waiting for a few minutes check to see if the boiler successfully fires again.
6. Return the thermostat to its required position to complete testing.

HOT WATER TEST

1. Open a hot water tap and ensure that the boiler fires.
2. Give the boiler a few minutes to reach temperature.
3. Check that the tap is outputting water at the correct temperature, if not please refer to setting the hot water flow and temperature on page 35.
4. Close the hot water tap to complete testing.
PLUMBER TO COMPLETE...

COMPANY NAME: ____________________________________________________________

PLUMBERS NAME: ___________________________________________________________

COMPANY ADDRESS: _________________________________________________________

COMPANY TELEPHONE: _______________________________________________________  

DATE OF INSTALLATION: ______/_____/______  PRODUCT CODE: ______________________

WAS THIS A EXISTING INSTALL OR NEW INSTALL?  [ ] EXISTING  [ ] NEW INSTALL

HOW MANY HEATING ZONES ARE INSTALLED?  1  [ ]  2  [ ]  3+  [ ]

HAS THE FILLING LOOP BEEN REMOVED & CAPPED OFF?  [ ] YES  [ ] NO

WAS AN ABV FITTED? AT WHAT SETTING?  [ ] YES  [ ] NO  SETTING: ______

WHAT IS THE HEATING PRESSURE SET AT?  ______ Bar

WHAT IS THE INCOMMING MAINS PRESSURE?  ______ Bar

WHAT HAS THE BOILER FLOW TEMPERATURE BEEN SET AT?  ______ °C

WHAT HAS THE BOILER DIFFERENTIAL TEMP. BEEN SET AT?  ______ °C

WHAT PUMP SPEED HAS BEEN SET ON THE BOILER?  ______

NOTES:

BY SIGNING YOU AGREE THAT YOU HAVE INSTALLED THE BOILER IN ACCORDANCE WITH THIS MANUAL AND THAT THE BOILER IS WORKING AS INTENDED WITHOUT ANY LEAKS AND ALL INSTALLER MADE AND FACTORY MADE CONNECTIONS HAVE BEEN CHECKED.

SIGNED: ___________________________  DATE: ___________________________
Electric Boilers

ELECTRICIANS CHECKLIST

ELECTRICIAN TO COMPLETE...

COMPANY NAME: 

ELECTRICIANS NAME: 

COMPANY ADDRESS: 

COMPANY TELEPHONE: 

DATE OF INSTALLATION: 

WHAT IS THE INCOMING MAINS VOLTAGE AT THE FUSE BOARD? VAC

WHAT IS THE INCOMING MAINS VOLTAGE AT THE APPLIANCE? VAC

WHAT SIZE BREAKER HAS BEEN FITTED FOR THE BOILER? AMPS

WHAT IS THE DRAW OF THE APPLIANCE FOR HEATING? AMPS

WHAT IS THE DRAW OF THE APPLIANCE FOR HOT WATER? AMPS

WHAT SIZE CABLE WAS INSTALLED TO THE APPLIANCE? . MM²

WHAT IS THE APPROXIMATE CABLE RUN TO THE BOILER? M

WHAT TYPE OF CABLE HAS BEEN USED? 

NOTES:

BY SIGNING YOU AGREE THAT YOU HAVE INSTALLED THE BOILER IN ACCORDANCE WITH THIS MANUAL AND THAT THE BOILER IS WORKING AS INTENDED WITHOUT ANY LEAKS AND ALL INSTALLER MADE AND FACTORY MADE CONNECTIONS HAVE BEEN CHECKED.

SIGNED: ____________________________ DATE: ____________________________
<table>
<thead>
<tr>
<th>ERROR CODE</th>
<th>POTENTIAL CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>E0</td>
<td>Heating system contains a lack of water or pressure is not sufficient for circulation.</td>
<td>Add treated water to the heating system and bring the pressure to a suitable level.</td>
</tr>
<tr>
<td></td>
<td>Water pressure switch is damaged.</td>
<td>Check the pressure for the system is above 1 bar, and then carry out a continuity test across the pressure sensor.</td>
</tr>
<tr>
<td></td>
<td>Loose connection for pressure switch.</td>
<td>Check the wiring and reseat connection if loose.</td>
</tr>
<tr>
<td>E1</td>
<td>Loose connections between heating outlet temperature sensor &amp; PCB</td>
<td>Check the wiring and reseat connection if loose.</td>
</tr>
<tr>
<td></td>
<td>Faulty temperature sensor for heating outlet.</td>
<td>Call Strom on 0333 344 24 74</td>
</tr>
<tr>
<td>E2</td>
<td>Loose connection between the heating return temperature sensor &amp; PCB</td>
<td>Check the wiring and reseat connection if loose.</td>
</tr>
<tr>
<td></td>
<td>Faulty temperature sensor for heating return.</td>
<td>Call Strom on 0333 344 24 74</td>
</tr>
<tr>
<td>E3</td>
<td>Heating system flow temperature overheating.</td>
<td>Check that there is sufficient system circulation. If the boiler has been set for temperatures in excess of 75°C please reduce to between 70 &amp; 75.</td>
</tr>
<tr>
<td>E4</td>
<td>Heat exchanger overheating.</td>
<td>The boiler will automatically begin circulating again once the heat exchanger has cooled.</td>
</tr>
<tr>
<td>E5</td>
<td>Flow sensor failure.</td>
<td>Call Strom on 0333 344 24 74</td>
</tr>
<tr>
<td></td>
<td>Pump failure.</td>
<td>Call Strom on 0333 344 24 74</td>
</tr>
<tr>
<td>E6</td>
<td>Loose connection between domestic hot water outlet temp. sensor &amp; PCB</td>
<td>Check the wiring and reseat connection if loose.</td>
</tr>
<tr>
<td></td>
<td>Faulty temp. sensor for domestic hot water outlet.</td>
<td>Call Strom on 0333 344 24 74</td>
</tr>
<tr>
<td>E7</td>
<td>Domestic hot water temperature greater than 73°C</td>
<td>Reduce temperature setting on the boiler, or increase the mains water flow rate.</td>
</tr>
<tr>
<td>E8</td>
<td>Loose connection between domestic hot water inlet temp. sensor &amp; PCB</td>
<td>Check the wiring and reseat connection if loose.</td>
</tr>
<tr>
<td></td>
<td>Faulty temperature sensor for domestic hot water inlet</td>
<td>Call Strom on 0333 344 24 74</td>
</tr>
</tbody>
</table>
## Electric Boilers

### FAULT FINDING

<table>
<thead>
<tr>
<th>Fault Code</th>
<th>Description</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>E9</td>
<td>Poor water circulation</td>
<td>Please check pump speed, air locks, autobypass valve setting.</td>
</tr>
<tr>
<td></td>
<td>Faulty Temperature Sensor</td>
<td>Call Strom on 0333 344 24 74</td>
</tr>
<tr>
<td></td>
<td>Loose PCB Connection</td>
<td>Check both ends of all pcb connections are fitted correctly and sat in firmly.</td>
</tr>
<tr>
<td>EA</td>
<td>Power supply to the boiler is too high.</td>
<td>Check supply voltage &amp; correct. Re-check all wiring to the unit.</td>
</tr>
<tr>
<td></td>
<td>Power supply failure.</td>
<td>Re-check all wiring to the unit.</td>
</tr>
<tr>
<td></td>
<td>Loose connection from the control board to main PCB.</td>
<td>Check the wiring and reseat connection if loose.</td>
</tr>
<tr>
<td></td>
<td>Display board failure.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indicators on the control panel are off.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Control panel is not registering touch commands.</td>
<td>Display board failure.</td>
</tr>
<tr>
<td></td>
<td>Heating temperature is low/the device is not heating up.</td>
<td>Heating element failure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thermal cut-out failure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Triac burnout</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Control board failure</td>
</tr>
<tr>
<td></td>
<td>The hot water for the showers/taps is not hot enough.</td>
<td>The mains water flow rate is too high.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reduce water flow to a suitable level to allow element to heat incoming water. If problem persists please contact Strom on 0333 344 24 74.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The temperature setting for the boiler is too low.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adjust the temperature setting via the control panel on the boiler.</td>
</tr>
</tbody>
</table>
Strom electric boilers do not require particular maintenance other than the following:

The heating system must be filled and maintained when the water is cold, between a pressure of 1 – 1.5 bar. Frequent refilling of the system can cause scaling, corrosion and damage to a heating system and should be avoided wherever possible. Regular pressure loss could be indicative of a leak within the system and should be investigated.

UNDER NO CIRCUMSTANCES SHOULD THE BOILER BE SWITCHED ON WHEN THE SYSTEM IS DRY.

The boiler contains an installed frost-protection program. For this to operate, power must be supplied to the boiler at all times. Anti-freeze can be added to the heating system (no more than 20% by volume) if the boiler is going to be stood unused for long periods of time. Otherwise, the boiler should be disconnected from the electricity supply and the system fully drained to avoid any frost damage.
Electric Boilers

WARRANTY INFORMATION

All Strom products are supplied in accordance with standard Terms & Conditions (available on request or via our website). This Policy also applies in addition to our terms and conditions to any Strom Electric Boilers and by fitting this product you are agreeing to be bound by these Terms & Conditions and this Policy. This Policy sets out the Warranty Period and exclusions which apply to Electric Boilers, for other products please see our website or their corresponding manuals. This Policy is subject to our Standard Terms and Conditions and should be read in conjunction with those terms. We reserve the right to amend this policy at any time.

Warranty Details:
Subject to the exclusions set out below and any applicable points in our Terms and Conditions, faulty parts and products will be replaced or repaired free of charge by Strom, or one of its representatives during the applicable Warranty Period. Where work is carried out by personnel not associated with Strom, or without Strom’s knowledge we will be unable to cover the associated costs, parts, and labour charges. If Strom or its representatives are unable to attend your property in a timely manor we reserve the right to allow third parties to undertake the work once a pre-agreed cost has been agreed with Strom directly (agreements via third parties will not be accepted).

Exclusions:
1. This policy only applies where:
   i. The product is installed and used strictly in accordance with the Terms and Conditions and the instructions supplied with the product; and
   ii. the failure is not due to accident, misuse, abuse, unsuitable water conditions (including contaminants or inappropriate water pressure), limescale build up, or to any alteration, modification or repair by any party not expressly nominated by Strom.
   iii. Unsuitable water conditions include:
       a) Private water supplies that are not regulated by water authorities
       b) Hard water that is left untreated
       c) Water additives that lead to product corrosion
       d) The absence of corrosion inhibitor in heating circuits

2. This warranty does not cover damage resulting from non-operation of the product or consequential damage to any other goods, furnishings or property.

3. This warranty does not apply to any consumables associated with the product.

4. Installations that have not been carried out by person/s that do not hold the relevant qualifications required in their field to carry out the works undertaken (we reserve the right to ask for a copy of the electrical installation certificate)

5. Warranties are non-transferable and must be purchased as new from one of our distributors.

Warranty Periods:
All Strom Boilers comes with a standard out of box warranty of 1 year, however by completing the included guarantee procedure (please see warranty label) the warranty will be extended to 2 years free of charge.
CONDITIONS OF SALE

1. DEFINITIONS

1.1 "Buyer" means the person who accepts a quotation of the Company for the sale of the Goods or whose order for the Goods is accepted by the Company.

1.2 "Company" means Strom Limited.

1.3 "Contract" means terms and conditions of sale set out in this document and any other written or oral agreements in writing accepted by the Company and the Buyer.

1.4 "Goods" means the goods to be supplied under this Contract.

1.5 "Price" means the price for the Goods including transport and insurance (if any).

1.6 "Purchase Order" means the written order for the Goods, which shall govern the Contract to the exclusion of any other terms, subject to the Company's terms and conditions.

1.7 "Sale" means the sale of the Goods and the handing over of possession of the Goods to the Buyer by the Company.

1.8 "VAT" means value added tax.

2. BASIS OF SALE

2.1 The Company will sell and the Buyer will purchase the Goods in accordance with:

2.1.1 the Company's quotation if provided and accepted by the Buyer;

2.1.2 the Company's offer which is not accepted by the Buyer; or

2.1.3 the Company's offer which is not accepted by the Buyer.

2.2 The Company does not make any commitment or document a request for or accept a change in the contract price or payment terms.

2.3 Any variation to these Conditions (including any special terms and conditions agreed in writing by the Company and the Buyer) shall be effective only if in writing.

2.4 No agent or employee of the Company or its employees or agents to the Buyer or its employees or agents as to the storage application or use of the Goods or of its products is authorized to confirm the Company's Statements or representations or to agree to any oral statement or written permission of an authorized office of the Company and such return shall be subject to payment for the re-stocking charges, transport and all other costs incurred by the Company.

3. THE PRICE AND PAYMENT

3.1 The Price quoted by the Company shall be exclusive of VAT which shall be added in accordance with the current VAT legislation.

3.1.1 The Company's quoted price which shall only be valid for 30 days from its date unless extended in writing by the Company or the Buyer requiring such extension.

3.1.2 where no price has been quoted the Price listed in the then current price list of the Company shall be applicable.

3.1.3 In the event that the Company decides to amend the prices quoted by the Company, the Buyer will be notified in writing and in the event of no response from the Buyer the goods will be considered to be unsold.

3.2 All prices and the price of the Goods are exclusive of any sales tax, duty, or other charges or expenses incurred by the Company in connection with the delivery of the Goods to the Buyer.

3.3 Any other sum payable by the Buyer to the Company is exclusive of any applicable Value Added Tax, which the Buyer shall additionally be liable to pay in accordance with the Schedule of Rates.

3.4 All prices and the price of the Goods are to be paid to the Company within 30 days after the date of invoice unless otherwise agreed in writing by the Company and the Buyer.

3.5 The Company shall charge interest on any overdue balance from the date of invoice until settlement at the then current base rate of interest.

3.6 In the case of any free or discount price goods, the Buyer must pay the full price for the remainder of the order or the full price on delivery of such order.

4. PAYMENT TERMS

4.1 The Price, less any discount and all other charges, shall be paid to the Company in full and free of all charges (including VAT).

4.2 No order which has been accepted by the Company may be cancelled by the Buyer without the agreement in writing of the Company and on terms that any costs, expenses, and materials used shall be charged to the Buyer except with the agreement in writing of the Company and on terms that any costs, expenses, and materials used shall be charged to the Buyer.

4.3 The Buyer agrees to pay the Price for the Goods and all other charges due on the date due or in default of payment of the Price, then the interest on such due date for the full amount of any overdue payment, which shall be charged at the then current base rate of interest from time to time until payment is made, shall be payable by the Buyer to the Company.

4.4 No interest shall accrue on any overdue balance from the date of invoice until settlement at the then current base rate of interest.

5. DELIVERY

5.1 The Goods may be delivered by the Company in advance of the Date of Delivery and the Company shall be entitled to deliver the Goods to the Buyer or its nominee or agent at the Buyer's premises or to any other place in the UK as the Buyer may direct (or as the Company may choose) at the Buyer's risk and cost and the Company will only be liable for the Buyer if it fails to deliver the Goods in accordance with this clause 5.

5.2 The Buyer shall be responsible for the Goods and any costs incurred by the Company in the event that the Goods are not held or collected by the Buyer or its nominee or agent as soon as possible after delivery.

5.3 The Buyer shall pay all reasonable costs (including insurance) of returning the Goods to the Company's premises, or to any other place in the UK as the Company may choose.

6. RISK AND REJECTION TITLE

6.1 Goods supplied by the Company shall be at the Buyer's risk immediately upon delivery to the Buyer or to its nominee or agent.

6.2 The Buyer shall be entitled to reject the Goods if any defect or failure has been notified to the Buyer or if any defect or failure has occurred to the extent agreed in writing by the Company and the Buyer.

6.3 The Buyer shall be entitled to reject the Goods if the Goods are not in accordance with the description or do not correspond with the samples or if the Goods are not of the quality agreed.

6.4.1.4 the Buyer reasonably apprehends that any of the events mentioned above has occurred, has arisen, or is likely to occur or not to occur or not to be complied with.

6.5 The Buyer hereby grants to the Company an irrevocable license to enter at any time any property or premises occupied by the Buyer or in the possession of the Buyer or in the possession of any person or firm of whom the Buyer has given the Company authority to act on its behalf to search for, identify, and seize any Goods and/or other personal property in connection with this contract, to remove any such Goods and/or other personal property from such property or premises at the Buyer's risk and cost to the Company, and to retain the same.

6.6 The Buyer should report any loss or damage to the Company as soon as practicable after the occurrence of such loss or damage.

7. WARRANTIES AND LIABILITY - FOR PRODUCTS INSTALLED IN THE UK ONLY

7.1 The Company warrants to the Buyer that the Goods are and shall remain free from defects in material and workmanship for a period of 24 months from delivery to the Buyer, unless a longer period is agreed in writing by both parties.

7.2.1 if any defect or failure is claimed by the Buyer to have occurred to the Goods after delivery, the Buyer shall give the Buyer written notice of the same within 7 days of the buyer discovering the defect or failure.

7.2.3 the Company shall not be liable for any consequential damage(s) occurred to the Goods arising from any information, drawing, design or specification supplied by the Buyer.

7.3 The Company shall not be liable for any damage to the Buyer or any other loss or damage to the Buyer or to any third party in the event that the Goods are not delivered to the Buyer or in the event that the Goods are delivered to the Buyer and are not in accordance with the description or do not correspond with the samples or if the Goods are not of the quality agreed.

7.4.1.4 the Buyer reasonably apprehends that any of the events mentioned above has occurred, has arisen, or is likely to occur or not to occur or not to be complied with.

7.5 Subject as expressly provided in these Conditions all other warranties, conditions, representations, or terms whether implied by statute or common law or otherwise are hereby excluded.

7.6 If the Company fails to deliver the Goods for any reason other than the Company's reasonable care or skill, the Company shall only be liable to the Buyer for and the Company's liability shall be limited to the payment of the Price for the Goods in full or, at the Buyer's option, the replacement of the Goods or the return of the Price.

7.7 Subject to clause 11.3 the Company shall have no liability for any defect or failure and the Buyer shall be bound to pay the Price if the Goods had been delivered in accordance in clause 11.2 the Company shall have no liability for any defect or failure and the Buyer shall be bound to pay the Price if the Goods had been delivered in accordance in clause 11.2 the Company shall have no liability for any defect or failure and the Buyer shall be bound to pay the Price if the Goods had been delivered in accordance in clause 11.2 the Company shall have no liability for any defect or failure and the Buyer shall be bound to pay the Price if the Goods had been delivered in accordance in clause 11.2 the Company shall have no liability for any defect or failure and the Buyer shall be bound to pay the Price if the Goods had been delivered in accordance.
THE FUTURE OF HEATING
IT’S ALL IN THE DETAILS...