

HARCO HENC8 MANUAL

(STEP BY STEP SOLUTIONS)

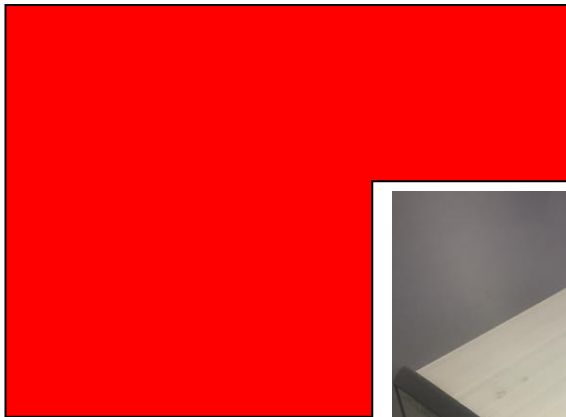


TABLE OF CONTENT

1. First firing of kiln with HENC8.
2. How to set in programmer – slow heat rate earthen ware bisque programme.
3. How to set in programmer – medium heat rate earthen ware glaze/pottery programme
4. How to set in programmer – earthenware glaze/pottery programme
5. How to set in programmer – stoneware mid fire programme
6. How to set in programmer – stoneware high fire programme
7. How to set in programmer – one shot firing program for primary schools
8. Operating instructions once programmer is set
9. Approximate comparisons for starting point of harco number to cones
10. Thermocouple
11. Warranty

1. FIRST FIRING OF KILN WITH HENC8

NB: If there is no energy regulator present, the firing rate is automatically set in the HENC8 to 100%.

Do not fit ceramic close off bungs to vent holes during dry out firing.

Allow kiln to cool completely before opening.

It is recommended that the electrical supply to your kiln be fitted with an isolating switch within close proximity of kiln so power can be turned off in case of an emergency or when kiln needs servicing. i.e. switch not attached to kiln but in close proximity of kiln.

It is further recommended that adequate ventilation be supplied to the kiln by way of a Tetlow ventilation system. If this is not fitted, the kiln should be in a well-ventilated position with exhaust fan to the atmosphere or similar.

The above is necessary as kilns during their firing cycle put out by-products from clay at the approximate rate of 50 – 1, some of these by-products can be in the form of steam acid vapours, lead vapours, etc., depending on clay, glazes, etc. being fired.

NB: It is recommended that the bung holders are closed off with the bungs at temperature below 750°C in the cast or biscuit firing. It is better to leave the bungs out for the entire firing rather than putting them in early. It is recommended that the first firing of a new kiln be a slow firing, with the kiln empty, to a temperature 10%-15% less than the maximum temperature of the kiln. This is to enable the cement to mature and to remove any moisture from the brickwork.

If the kiln is fitted with a Tetlow floor vent system, the bungs are to remain in the kiln at all times.

If the kiln is fitted with a Tetlow roof mount vent system, the bungs are to remain in and the roof bungs are to be left out.

2. HOW TO SET IN PROGRAMMER – SLOW HEAT RATE EARTHEN WARE BISQUE PROGRAMME

Slow Heat Rate Earthenware Bisque 1000°C

The following step by step programme instruction is for the program. Push Up button to suit required programme between 001 and 008 until programme number you require appears in window.

Push Enter button - programme number now selected.

(Harco cone light will now flash)

Push Up or Down button to select Harco cone number if required.

If Harco cone number not required set to number 000.

STAGE 1

Push Enter button, 1 appears in window

Push Temperature button.

Push Up button and hold till 100 appears.

Push Enter button.

Push Rate/Time button.

Push Up button till 20 appears.

Push Enter button.

Stage No 1 now set to ramp from ambient to 100°C at 20°C/hr = 5 HR

STAGE 2

Push Cycle button, 2 appears in window

Push Temperature button

Push Up button and hold till 700 appears

Push Enter button

Push Rate/Time button

Push Up button till 50 appears

Push Enter button

Stage No 2 now set to ramp from 100°C to 700°C at 50°C/hr = 12 HR

STAGE 3

Push Cycle button, 3 appears in window

Push Temperature button

Push Up button till 1000 appears.

Push Enter button

Push Rate/Time button

Push Up button till 75 appears

Push Enter button

Stage No 3 now set to ramp from 700°C to 1000°C at 75°C/hr = 4 HR

STAGE 4

Push Cycle button, 4 appears in window

Push Cycle and hold until cycle over light or timer light flashes

Push Enter button

Stages No. 4, 5, 6, 7, 8 not required for this firing

TOTAL FIRING TIME

21 HR

3. HOW TO SET IN PROGRAMMER – MEDIUM HEAT RATE EARTHEN WARE GLAZE/POTTERY PROGRAMME

Medium Heat Rate Earthenware Bisque 1000°C

The following step by step programme instruction is for the program. Push Up button to suit required programme between 001 and 008 until programme number you require appears in window.

Push Enter button - programme number now selected.

(Harco cone light will now flash)

Push Up or Down button to select Harco cone number if required.

If Harco cone number not required set to number 000.

STAGE 1

Push Enter button, 1 appears in window

Push Temperature button.

Push Up button and hold till 100 appears.

Push Enter button.

Push Rate/Time button.

Push Up button till 25 appears.

Push Enter button.

Stage No 1 now set to ramp from ambient to 100°C at 25°C/hr = 4 HR

STAGE 2

Push Cycle button, 2 appears in window

Push Temperature button

Push Up button and hold till 700 appears

Push Enter button

Push Rate/Time button

Push Up button till 75 appears

Push Enter button

Stage No 2 now set to ramp from 100°C to 700°C at 75°C/hr = 8 HR

STAGE 3

Push Cycle button, 3 appears in window

Push Temperature button

Push Up button till 1000 .appears

Push Enter button

Push Rate/Time button

Push Up button till 100 .appears

Push Enter button

Stage No 3 now set to ramp from 700°C to 1000°C at 100°C/hr = 3 HR

STAGE 4

Push Cycle button, 4 appears in window

Push Cycle and hold until cycle over light or timer light flashes

Push Enter button

Stages No. 4, 5, 6, 7, 8 not required for this firing

TOTAL FIRING TIME

15 HR

4. HOW TO SET IN PROGRAMMER – EARTHEN GLAZE/POTTERY PROGRAMME

Earthenware Glaze/Pottery 1080°C

The following step by step programme instruction is for the program. Push Up button to suit required programme between 001 and 008 until programme number you require appears in window. Push Enter button - programme number now selected. (Harco cone light will now flash) Push Up or Down button to select Harco cone number if required. If Harco cone number not required set to number 000.

STAGE 1

Push Enter button, 1 appears in window
Push Temperature button.
Push Up button and hold till **600** appears.
Push Enter button.
Push Rate/Time button.
Push Up button till **150** appears.
Push Enter button.

Stage No 1 now set to ramp from ambient to 600°C at 150°C/hr = 4 HR

STAGE 2

Push Cycle button, 2 appears in window
Push Rate /Time button
Push Down button and hold till **15** appears
Push Enter button

Stage No. 2 now set - This is a soak stage, therefore no temperature increase will

occur. The soak duration is...15...mins = Soak Temperature 600°C .25 HR

STAGE 3

Push Cycle button, 3 appears in window
Push Temperature button
Push Up button till **1000** appears
Push Enter button
Push Rate/Time button
Push Up button till **120**.appears
Push Enter button

Stage No 3 now set to ramp from 600°C to 1000°C at 120°C/hr = 3.3 HR

STAGE 4

Push Cycle button, **4** appears in window

Push Temperature button

Push Up button till **1000** appears

Push Enter button

Push Rate/Time button

Push Up button till **80** appears

Push Enter

Stage No 4 now set to ramp from 1000°C to 1080°C at 80°C/hr = 1 HR

STAGE 5

Push Cycle button, **5** appears in window

Push Rate/Time button

Push Down button till **10** appears

Push Enter button

Stage No. 5 now set - This is a soak stage, therefore no temperature increase will

occur. The soak duration is...10...mins = Soak Temperature 1080°C .17 HR

STAGE 6

Push Cycle button, **6** appears in window

Push Cycle and hold until cycle over light or timer light flashes

Push Enter button

Stage No. 6, 7, 8 not required for this firing

TOTAL FIRING TIME

8.72 HR

5. HOW TO SET IN PROGRAMMER – STONEWARE MID FIRE PROGRAMME

Stoneware mid fire 1200°C

The following step by step programme instruction is for the program. Push Up button to suit required programme between 001 and 008 until programme number you require appears in window.

Push Enter button - programme number now selected.

(Harco cone light will now flash)

Push Up or Down button to select Harco cone number if required.

If Harco cone number not required set to number 000.

STAGE 1

Push Enter button, 1 appears in window

Push Temperature button.

Push Up button and hold till **600** appears.

Push Enter button.

Push Rate/Time button.

Push Up button till **150** appears.

Push Enter button.

Stage No 1 now set to ramp from ambient to 600°C at 150°C/hr = 4 HR

STAGE 2

Push Cycle button, 2 appears in window

Push Rate/Time button

Push Up button till **15** appears

Push Enter button

Stage No. 2 now set - This is a soak stage, therefore no temperature increase will

occur. The soak duration is...15...mins = Soak Temperature 600°C .25 HR

STAGE 3

Push Cycle button, 3 appears in window

Push Temperature button

Push Up button till **1000** appears

Push Enter button

Push Rate/Time button

Push Up button till **120** appears

Push Enter button

Stage No 3 now set to ramp from 600°C to 1000°C at 120°C/hr = 3.3 HR

STAGE 4

Push Cycle button, **4** appears in window

Push Temperature button

Push Up button till **1200** appears

Push Enter button

Push Rate/Time button

Push Up button till **80** appears

Push Enter

Stage No 4 now set to ramp from 1000°C to 1200°C at 80°C/hr = 2.5 HR

STAGE 5

Push Cycle button, **5** appears in window

Push Rate/Time button

Push Up button till **10** appears

Push Enter button

Stage No. 5 now set - This is a soak stage, therefore no temperature increase will

occur. The soak duration is...10...mins = Soak Temperature 1200°C .17 HR

STAGE 6

Push Cycle button, **6** appears in window

Push Cycle and hold until cycle over light or timer light flashes

Push Enter button

Stage No. 6, 7, 8 not required for this firing

TOTAL FIRING TIME

10.22 HR

6. HOW TO SET IN PROGRAMMER – STONEWARE HIGH FIRE PROGRAMME

Stoneware High Fire 1280°C

The following step by step programme instruction is for the program. Push Up button to suit required programme between 001 and 008 until programme number you require appears in window. Push Enter button – programme number now selected. (Harco cone light will now flash) Push Up or Down button to select Harco cone number if required. If Harco cone number not required set to number 000.

STAGE 1

Push Enter button, 1 appears in window
Push Temperature button.
Push Up button and hold till **100°C** appears.
Push Enter button.
Push Rate/Time button.
Push Up button till **25** appears.
Push Enter button.

Stage No 1 now set to ramp from ambient to 100°C at 25°C/hr = 4 HR

STAGE 2

Push Cycle button, 2 appears in window
Push Temperature button
Push Up button and hold till **700°C** appears
Push Enter button
Push Rate/Time button
Push Up button till **75** appears
Push Enter button

Stage No 2 now set to ramp from 100°C to 700°C at 75°C/hr = 8 HR

STAGE 3

Push Cycle button, 3 appears in window
Push Temperature button
Push Up button till **1200°C** appears
Push Enter button
Push Rate/Time button
Push Up button till **100** appears
Push Enter button

Stage No 3 now set to ramp from 700°C to 1200°C at 100°C/hr = 5 HR

STAGE 4

Push Cycle button, **4** appears in window
Push Temperature button
Push Up button till **1280°C**
Push Enter button
Push Rate/Time button
Push Up button till **80** appears
Push Enter button

Stage No 4 now set to ramp from **1200°C** to **1280°C** at **80°C/hr** = **1 HR**

STAGE 5

Push Cycle button, **5** appears in window
Push Rate/Time button
Push Down button till **10** appears
Push Enter button

Stage No 5 now set – This is a soak stage, therefore no temperature increase will

occur. The soak duration is...**10**...mins = Soak Temperature **1200°C** .17 HR

Stage 6

Push Cycle button, **6** appears in window
Push Cycle button and hold until cycle over light or timer light flashes
Push Enter button

Stage NO.6, 7, 8 not required for this firing

TOTAL FIRING TIME **= 18.17HR**

7. HOW TO SET IN PROGRAMMER – ONE SHOT FIRING PROGRAM FOR PRIMARY SCHOOL

This firing will allow the clay to harden and will not accept a glaze but is hard enough to be painted over in acrylic or similar paints which have a clear varnish or similarly applied. This firing avoids the necessity to fire clay twice.

The following step by step programme instruction is for the program. Push Up button to suit required programme between 001 and 008 until programme number you require appears in window.

Push Enter button - programme number now selected.

(Harco cone light will now flash)

Push Up or Down button to select Harco cone number if required.

If Harco cone number not required set to number 000.

STAGE 1

Push Enter button, 1 appears in window

Push Temperature button.

Push Up button and hold till 100 appears.

Push Enter button.

Push Rate/Time button.

Push Up button till 20 appears.

Push Enter button.

Stage No 1 now set to ramp from ambient to 100°C at 20°C/hr = 5 HR

STAGE 2

Push Cycle button, 2 appears in window

Push Temperature button

Push Up button and hold till 700 appears

Push Enter button

Push Rate/Time button

Push Up button till 50 appears

Push Enter button

Stage No 2 now set to ramp from 100°C to 700°C at 50°C/hr = 12 HR

STAGE 3

Push Cycle button, 3 appears in window

Push Temperature button

Push Up button till 1000 appears

Push Enter button

Push Rate/Time button

Push Up button till 75 appears

Push Enter button

Stage No 3 now set to ramp from 700°C to 1000°C at 75°C/hr = 4 HR

STAGE 4

Push Cycle button, **4** appears in window

Push Temperature button

Push Up button till **1100** appears

Push Rate/Time button

Push Up button till **100** appears

Push Enter button

Stage No 4 now set to ramp from 1000°C to 1100°C at 100°C/hr = 1 HR

STAGE 5

Push Cycle button, **5** appears in window

Push Cycle and hold until cycle over light or timer light flases

Push Enter button

Stage No 5, 6, 7, 8 not required for this firing

TOTAL FIRING TIME

22 HR

8. OPERATING INSTRUCTIONS ONCE PROGRAMMER IS SET

SELECTING THE REQUIRED PROGRAM

There are 8 users settable PROGRAMS in the controller, which remain set even when the power is OFF.

Each PROGRAM contains 8 STAGES. (Details listed below).

- Turn ON the power, then push and release **RESET**
- **NOTE** The program light will be ON.
- During this section you may check the kiln temperature at any time by pushing and holding **TEMP**
- The PROGRAM NUMBER that was LAST SET **001** to **008** will be displayed.
- To CHANGE the program number push **UP** or **DOWN**
- Push **ENTER** when the desired PROGRAM is selected.
- The Harco number will appear in the display.

• CONE
BLINKING

SELECTING A HARCO NUMBER

IF YOU DO NOT REQUIRE A NUMBER SET TO **000**

Push **UP** or **DOWN** to select the number required.

(refer to HARCO NUMBER TABLES)

Push **ENTER** to go to Stage 1.

SETTING UP THE SELECTED PROGRAM (Stages 1 to 8)

NOTE: Stage 1 is always an UP stage.

The STAGE NUMBER will appear **1** to **8**

Push and hold **TEMP** to read the temperature setting.

On release of **TEMP** you may now change the setting by pushing **UP** or **DOWN**.

Enter the TEMPERATURE setting by pushing **ENTER**

until the kiln temperature appears.

The type of stage set will be indicated.

IF THE TEMPERATURE THAT HAS BEEN SET IS:

HIGHER than the previous stage = UP STAGE SET

SAME as previous stage = SOAK/HOLD STAGE SET

LOWER than previous stage = DOWN STAGE SET

Push and hold **RATE/TIME** to read RATE or TIME setting.

UP or DOWN stage = RATE (degrees per hour)

SOAK/HOLD stage = time (minutes).

On release of **RATE/TIME** you may now set the RATE or TIME by pushing **UP** or **DOWN**.

Enter the RATE or TIME by pushing **ENTER** until the kiln temperature appears.

Push and release **CYCLE**.

(The NEXT stage number will be displayed).

REPEAT THIS SECTION UNTIL YOU HAVE SET ALL THE STAGES THAT YOU REQUIRE.

UP	SOAK	DOWN
0	0	0
One blinking		

WARNING: READ THIS

IF YOU HAVE SET ALL OF THE 8 STAGES, THE TIMER LIGHT WILL BE ON AND THE KILN TEMPERATURE WILL BE DISPLAYED.

IF **YES** – GO TO DELAY START TIME. IF **NO** – CONTINUE

Push and hold **CYCLE** until:

THE GREEN CYCLE OVERLIGHT APPEARS

Or

THE RED TIMER LIGHT APPEARS

Push and hold **ENTER** until the TIMER light appears.

(not necessary if the TIMER LIGHT is already ON)

You may now set the DELAY START TIME if required.

The DELAY START TIME allows the user to set a time that must elapse before the controller will start.

EXAMPLE:

It is now 7.00pm and you want the controller to start at 9.00pm, set the DELAY START TIME to the difference between the two times.

120 minutes (For minute settings)

2 hours (For hour settings)



DELAY START TIME

Push and hold **RATE/TIME** to read TIME.

Will read **000** before being set.

On release of **RATE/TIME** you may now set the DELAY START TIME by pushing **UP** or **DOWN**

(leave at **000** if not required)

WHEN YOU HAVE SET THE TIME YOU REQUIRE YOU MAY GO ON.

Push and release **CYCLE** to start.

START UP

The DELAY START TIME will appear in the display.

The CONTROL light will be OFF.

The controller will start the cycle when the TIME = **000**.

During the CYCLE you may check:

CURRENT STAGE NUMBER – Push **UP**

TEMPERATURE SETTING – Push **TEMP**

RATE/TIME SETTING – Push **RATE/TIME**

AUTOSTART

IF THE PROGRAM YOU HAVE SELECTED HAS ALREADY BEEN SET UP, YOU MAY USE THE AUTOSTART PROCEDURE

(1) Push and release **RESET**

(2) Push **UP** or **DOWN** to select the desired program number **001** to **008**

(3) Push and HOLD **ENTER** until the **HARCO NUMBER** appears and the BEEPER SOUNDS.

The controller will now AUTOMATICALLY run through the start up sequence and start.

NB: The time calculated is not held in the memory and must be calculated for each firing.

IMPORTANT

THE SETTINGS WILL BE DISPLAYED WITH A BEEP TO ALLOW YOU TO CHECK THAT YOUR SETTINGS ARE CORRECT AS FOLLOWS:

CHANGE TO STAGE 1	BEEP 1
BEEP TEMPERATURE SETTING	BEEP RATE SETTING
CHANGE TO STAGE 2	BEEP 2
BEEP TEMPERATURE SETTING	BEEP RATE/TIME SETTING
CHANGE TO STAGE 3	BEEP 3
BEEP TEMPERATURE SETTING	BEEP RATE/TIME SETTING
CHANGE TO STAGE 4	BEEP 4
BEEP TEMPERATURE SETTING	BEEP RATE/TIME SETTING
CHANGE TO STAGE 5	BEEP 5
BEEP TEMPERATURE SETTING	BEEP RATE/TIME SETTING
CHANGE TO STAGE 6	BEEP 6
BEEP TEMPERATURE SETTING	BEEP RATE/TIME SETTING
CHANGE TO STAGE 7	BEEP 7
BEEP TEMPERATURE SETTING	BEEP RATE/TIME SETTING
CHANGE TO STAGE 8	BEEP 8
BEEP TEMPERATURE SETTING	BEEP RATE SETTING
BEEP DELAY TIME 000	

THE CONTROLLER WILL NOW START.

WHEN CONTROLLER IS RUNNING

You may check the settings of the stage you are on simply by pushing the required button. The stage lights will blink until button released. The controller is not interrupted.

You may CHECK or CHANGE all settings with controller running by pushing and releasing CYCLE and going to **SETTING UP THE SELECTED PROGRAM**

The controller is not interrupted.

If the controller is in a SOAK STAGE pressing the RATE/TIME button will give you the TIME SET and then the reading will change to give you TIME GONE since entering the SOAK stage.

9. APPROXIMATE COMPARISONS FOR STARTING POINT OF HARCO NUMBERS TO CONES

As there is no reference that I can use except temperatures for my table I have set up below an approximation to cone numbers.
This may be used as a starting point for trial runs to arrive at the correct number to use in your application.

HARCO NO.	CONE NO.	HARCO NO.	CONE NO.
30	022	66	04
32	021	68	03
34	020	70	02
36	019	72	01
38	018	74	1
40	017	76	2
42	016	78	3
44	015	80	4
46	014	82	5
48	013	84	6
50	012	86	7
52	011	88	8
54	010	90	9
56	009	92	10
58	008	94	11
60	007	96	12
62	006	98	13
64	005	100	14

IMPORTANT

DO NOT ASSUME THAT THIS TABLE IS A DIRECT EQUIVALENT TO CONES.

SAFETY CHECKS

During normal operation the controller checks:

- (1) for thermocouple failure;
- (2) that thermocouple is in the kiln or furnace;
- (3) for shorts in thermocouple compensation lead
(checks (2) & (3) done over a time depending on rate set;
- (4) checks for kiln reaching temperature;
- (5) for relay circuit failure (which could cause BURNOUT)

STEPS (1), (2), (3) & (4) SOUND ALARM AND SHUT POWER OFF KILN.

Using the Harco Numbers

If you SET a HARCO NUMBER

Look up the approximate cone number in the HARCO tables and refer to the CONE TEMPERATURE in the cone suppliers table closest to the rate you are using.

ENTER a SOAK in your LAST STAGE at this temperature to be longer than the cut off by the HARCO number.

YOU MAY HAVE TO TRY A FEW TIMES TO GET IT RIGHT.

- (1) If the controller is CUT OFF by the HARCO number the CONE light will be BLINKING and the CYCLE OVER light will be ON.
- (2) If the controller is CUT OFF by the PROGRAM ENDING the CYCLE OVER light ONLY will be ON.

In case (2) LENGTHEN YOUR SOAK TIME.

Power Failure

On return of power the controller will:

- (1) Remain in the reset state if off for more than approx. 5 minutes;
- (2) Power to the kiln off. (To protect kiln from possible BURNOUT)

Otherwise the cycle will resume.

UP or DOWN

When pushing the UP or DOWN pushbutton, the reading changes slowly at first but increases its speed the longer the button is held. When the change is 100 counts from the original reading it will increment in 100's to allow fast changes. When you are close to the setting required release the pushbutton and press it again to slow down the rate of change.

Alarm State

When the controller goes into an ALARM STATE

- (a) The alarm light will blink.
- (b) An audible BEEPER will sound.
- (c) The CONTROL POWER from the controller will be OFF.

IMPORTANT

**THE ALARM STATE SIGNIFIES THAT SOMETHING IS WRONG WITH THE SYSTEM,
NOT SOMETHING WRONG WITH THE CONTROLLER.**

10. THERMOCOUPLE

THE CONTROLLER IS MARKED AS BELOW:

K	Use only	CHROMEL/ALUMEL	TYPE K
R	Use only	PLATINUM/RHODIUM	TYPE R
N	Use only	NISIL/NICROSIL	TYPE N

The RED connector in the compensation lead is NEGATIVE.
Check connection by HEATING the end of the THERMOCOUPLE.
If READING DECREASES reverse the connections.

Direct Wiring the Controller

(Using the kiln or furnace relay)

- (1) Mount "CLIPSAL" 410 socket on kiln or furnace.
- (2) Connect ACTIVE (A2), NEUTRAL (N) & EARTH (E) to socket.
(mains supply for controller)
- (3) Disconnect controlled active line which goes to the kiln or furnace relay coil. (COIL MUST BE 240 VAC)
(Usually has a door switch and simmerstat in series with relay coil. Disconnected on active side of these.)
- (4) Connect wire to (A1) (controlled active) on the socket. THE CONTROLLER SHOULD BE READY TO BE PLUGGED IN. The simmerstat must be set to MAXIMUM. THE CONTROLLED ACTIVE FROM CONTROLLER IS RATED AT 240 VOLTS A.C. at 5 AMPS MAXIMUM.

Most Common Problems

- (1) ALARM SOUNDS WITHIN MINUTES (of starting) CHECK that CONTROL LIGHT is coming ON. **IF YES:**
 - (a) CHECK that DOOR SWITCH is operating.
 - (b) LISTEN for KILN CONTRACTOR closing.
 - (c) CHECK THERMOCOUPLE and CONNECTIONS to it.
- (2) NOT COMPLETING CYCLE (not reaching SET TEMPERATURE)
CHECK that CONTROL LIGHT IS ON. **IF YES:**
 - (a) Possible HEATING ELEMENT FAILURE.
 - (b) DOOR SWITCH opening with heat.
- (3) DISPLAY BLANK
CHECK that lights on controller are ON. **IF YES:**
 - (a) CHECK THERMOCOUPLE for open circuit.
 - (b) CHECK for bad connections to THERMOCOUPLE.**IF NO:**
CHECK POWER TO CONTROLLER.

11. WARRANTY

(Applicable only to products marketed and used within the Commonwealth of Australia.) Kiln has been thoroughly tested and inspected during manufacturing and is guaranteed against faulty materials and workmanship. Should there prove to be defective material or workmanship, within 12 months from date of purchase, it will be repaired free of charge, provided it is returned intact, freight paid to, Tetlow Kilns and Furnaces Pty Ltd. Naturally the warranty does not cover failure due to accidental damage, misuse, negligence, consequential damage, modification, or where the controller is not installed and operated in accordance with any statutory regulations, the appropriate installation code, or with details appearing on the controller rating plate. The warranty is valid wherever you live in Australia even if you move. For ready recognition of your warranty, record the date of purchase hereon and retain this for your record. Also retain proof of purchase as you may be asked to produce same in event of a service claim. This warranty is the sole guarantee by the manufacturers and they are not responsible for any other obligations assumed or expressed by any other person or persons. No other remedy shall be available to the buyer (except the conditions contained in this warranty) for damage to kilns, ware or property, lost profits, or lost sales or any other consequential or accidental loss.

If service is required on this equipment on site, a service charge will be made according to time taken at normal trade rates including travelling time.

In case repair under guarantee is claimed, this guarantee must be tendered. Please note that elements are not covered by guarantee.

**For further information, locate us at our website, www.tetlow.com.au
Do not hesitate to contact us at Tetlow Kilns and Furnaces at 03 8545 8296 or
info@tetlow.com.au**