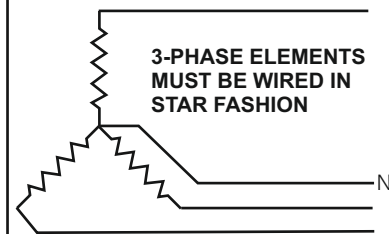


### 3 PHASE ELEMENTS



### ELEMENTS AND THERMOSTATS

WH9	3kw	1 phase 18" & stat pocket
WH9A	3kw	1 phase 14" & stat pocket
WH9B	3kw	1 phase 9" & stat pocket
WH9D	4kw	1 phase 14" & stat pocket
WH9F	3kw	1 phase 11" & stat pocket
WH10	4.8kw	1 phase 18" & stat pocket
WH10A	4.8kw	3 phase 18" & stat pocket
WH11	6kw	1 phase 18" & stat pocket
WH12	6kw	3 phase 18" & stat pocket
WH12A	9kw	3 phase 18" no stat pocket

WH13

Hi Range Stat 30° - 110/120°

**TO SET DIGITAL CLOCK (every day use)**  
See clock's manual for other settings.  
**THIS IS A 24 HOUR CLOCK**

**POWER CUTS.** If you have a power cut,  
**ALWAYS** check and if necessary re-set  
the "current time" settings of the clock.

To reset the clock, lift and open the see-through window protecting the display.

1) These are actually analogue electric clocks turned through 90 degrees. They have the benefit of battery back-up, and should retain their accuracy over periods up to 72 hours without power.

2) Each segment represents 15 minutes.

3) Set the clock to the current time by using a fingertip to rotate it in a clockwise (vertically downwards) direction.

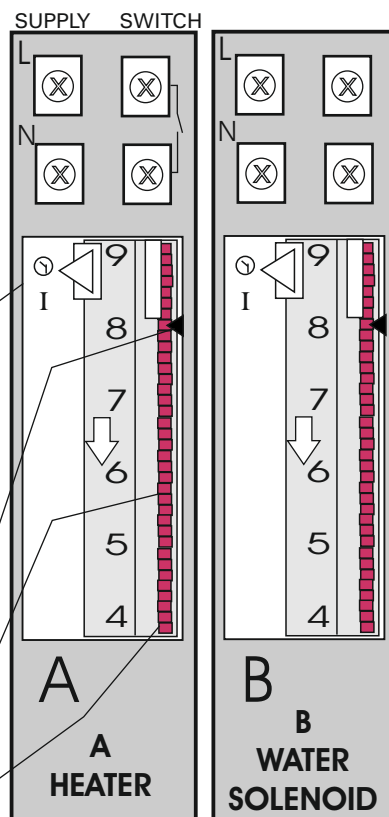
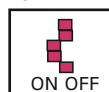
4) To set an ON period, push the segments to the left for each 15-minute "ON" period that you require.

#### MANUAL CONTROL

TWO POSITION SLIDER CONTROL  
CONTROLLED BY CLOCK

ELEMENT ON PERMANENTLY

Current Time  
Segments (in  
OFF position)



## "All STAINLESS STEEL" DAIRY WATER HEATER



## INSTRUCTIONS Installation & Maintenance

Cotswold Dairy Equipment Co Ltd  
Avenue 3 Station Lane  
Witney Oxford OX28 4BP  
UK

Tel +44 (0)1993 774567  
Fax +44 (0) 1993 771776  
e-mail sales@cotswold-dairy.co.uk  
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MADE IN ENGLAND

## COTSWOLD WATER HEATER

Cotswold's wide range of Water Heaters include the following features:-

- ❑ all stainless-steel construction including inner tank and outer cabinet
- ❑ high quality internal insulation for maximum economy, (including lid)
- ❑ connects direct to mains water supply
- ❑ uses long-life "incoloy" elements, including 3-phase
- ❑ special sizes shapes and specifications to order
- ❑ square inner vessel for minimum size with maximum volume
- ❑ standard sizes 30 to 300 gallons, (135 litres to 1350 litres) special sizes available
- ❑ designed specifically for agricultural use.

### SPECIFICATION

**CAPACITY:** 30 - 300 gallons

**CONTROLLER:** Control Box and time clocks, contactor.

**WATER OUTLET:** 1 1/4" BSP up to 120 gallons  
1 1/2" BSP 150 gallons plus

**OVERFLOW & STEAM:** as water outlets

**WATER INLET:** 15mm compression fit

**ELEMENT:** Incoloy stainless steel 3 to 9Kw single or three phase (multiple elements on larger units, max 27Kw (3 x 9kw))

*\*Our Incolloy elements carry a 6 month warranty from date of installation, all other components and the heater itself carry 12 months warranty.*

Please note: on individual units position and/or size of fittings may vary.

### SETTING THE TEMPERATURE

Unless otherwise specified, Cotswold Water Heaters are fitted with a rod-thermostat and a front-mounted analogue thermometer.

The tolerances inherent in these designs mean that a direct reading of the thermometer or the 'stat graduations can be out by around 5° in either direction (a 10° swing or hysteresis).

If greater accuracy is required, we recommend "tuning in" the 'stat over a few day using a separate digital thermometer as a reference.

(A digital 'stat version is available (to special order)

## IMPORTANT INSTALLATION INFORMATION

### SUPPORT THE TANK.

Heaters up to 50 gallons are fitted with back support bars. Due to heater weight when filled, these bars should be supplemented by additional support. Stainless steel stands are available for all models. When installing in a loft, ensure that the weight of a **full** heater can be supported.

### DO NOT RESTRICT OR BLOCK THE OVERFLOW OR STEAM OUTLET.

These outlets allow air into the tank as water is removed, and if they are blocked the inner tank may implode.

### SCALE CONTROL

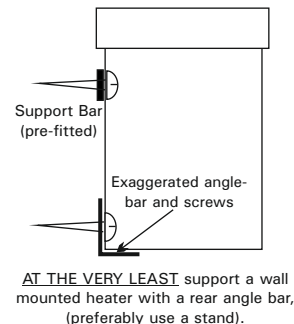
In hard water areas, a scale prevention device should be used and a water strainer fitted.

### MAINTAIN WATER PRESSURE AT THE INLET.

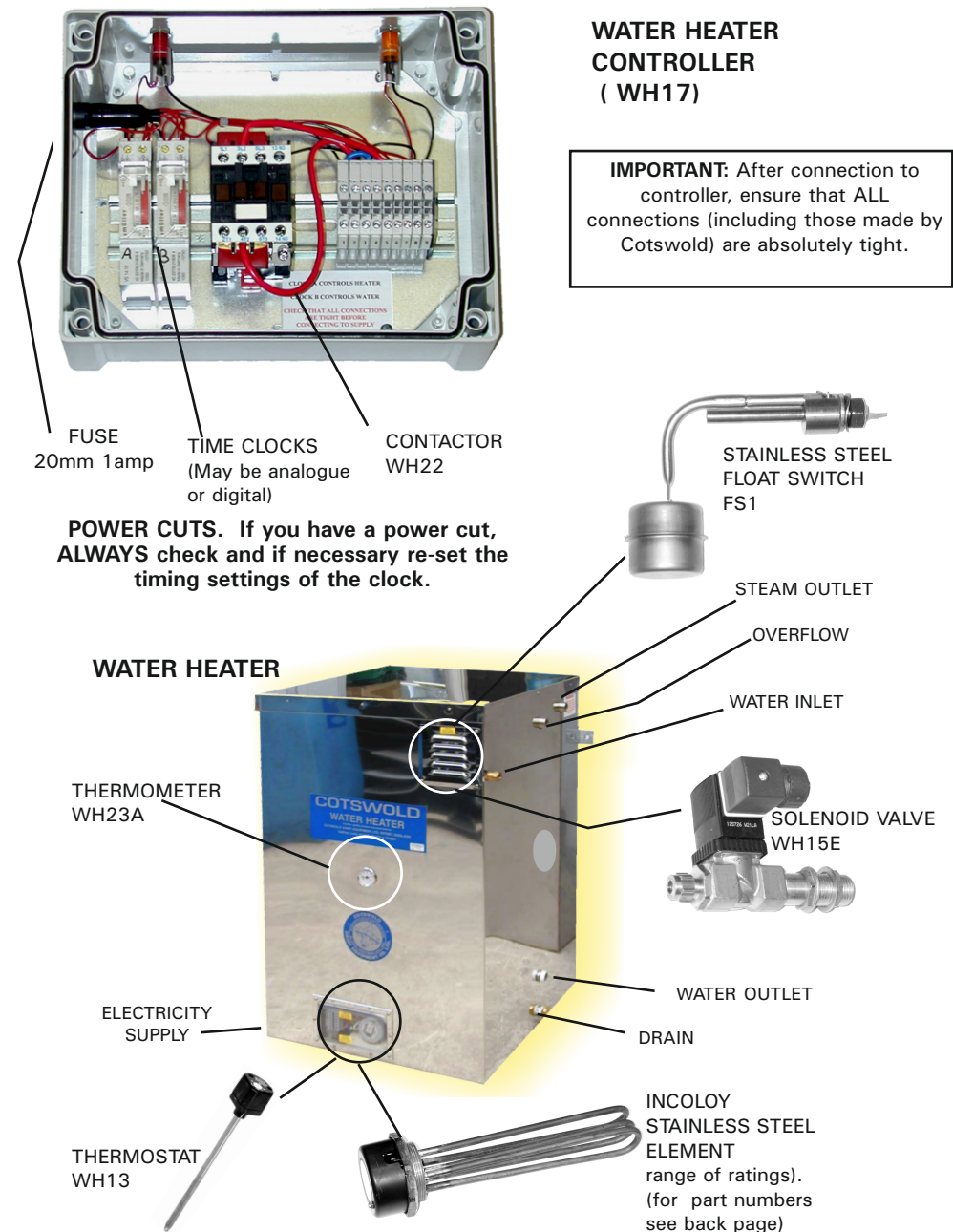
A common cause of solenoid valve failure is starvation of sufficient water. The cold water inlet is controlled by an electrically operated solenoid valve suitable for water pressures between 0 and 150 psi (0 - 10 BAR). It is important that this pressure is maintained **EVEN WHEN OTHER TAPS OR APPLIANCES ARE OPERATING**, otherwise the solenoid may overheat.

### CONTROL BOX

The controller can be mounted on a wall adjacent to the heater, or can be screwed directly to the heater housing. Connect the mains supply to the controller, and the controller to the heater.



## WATER HEATER PARTS - EXPLODED VIEW



### WATER HEATER CONTROLLER (WH17)

**IMPORTANT:** After connection to controller, ensure that ALL connections (including those made by Cotswold) are absolutely tight.

**POWER CUTS.** If you have a power cut, **ALWAYS** check and if necessary re-set the timing settings of the clock.