

## 5. Applications

1. Connect the 'BOOST' and the 'TIMED ON' as required in Fig. 6,7 & 8.
2. Assemble the timer to the back plate by aligning the location pins on the top of the backplate with the cut outs provided on the clock body. Lock in position using a fixing screw.

### APPLICATIONS

This timer controls the use of cheap rate electricity during the night to heat the water in your tank for the following applications:

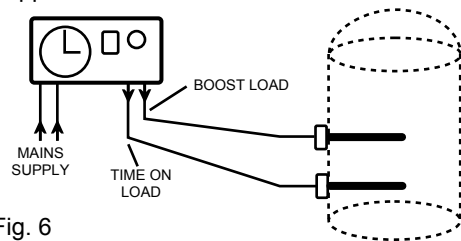


Fig. 6  
Two separate immersion heaters.

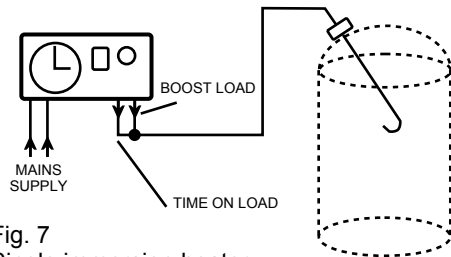


Fig. 7  
Single immersion heater.

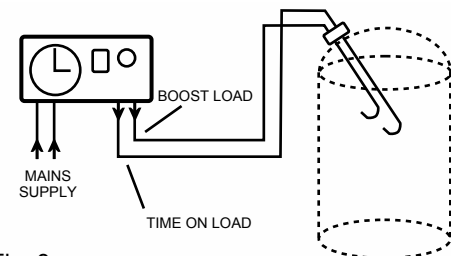


Fig. 8  
Dual immersion heaters.

## 6. Specification

Voltage: 220-240V AC 50Hz  
Temperature rating: -10 C to 55 C  
Max Current: 16A resistive / 2A inductive  
Boost: adjustable between 15 and 120 mins  
Fitting: Surface mounting  
Dims (mm): 86H x 155W x 55D  
Protection Category: IP20

Complies with European Norm  
EN 60730-1: 2011  
Automatic Electrical Controls for  
Household and similar use,  
and European Directives:  
LVD; EMC; RoHS

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**TFC Group LLP Tonbridge TN9 1TB**

# OPTIMUM

## ECONOMY 7 TIMER

For general purpose use

### Installer instructions

**OP-ECOSAVE** Economy 7 / Multi Tariff Timer  
Min switching 15 Minutes

1. **Notice**
2. **Installation**
3. **Surface / Box fitting**
4. **Wiring connections**
5. **Applications**
6. **Specification**

## 1. Notice

Please read the instructions fully before attempting installation.

### **IMPORTANT**

**This unit should be installed to current IEE wiring regulations. If in doubt consult a qualified electrician.**

- Timer must not be mounted on a flammable surface.
- Ensure that the timer does not come into contact with any combustible materials such as towels or bedding.
- Ensure at least a 300 mm air space is allowed around the timer.

## 2. Installation

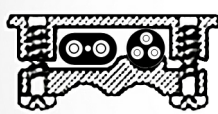
### **INSTALLATION**

**THIS TIMER SHOULD NOT BE FITTED ONTO A CONDUCTIVE SURFACE (i.e. METAL)**

*Before you begin the installation.*

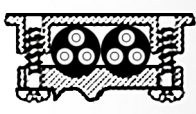
1. Disconnect the mains supply
2. The Dual Tariff Boost Timer is suitable for fixed wiring only.
3. The following cable cross sections are possible:

Fig. 1



3 x 2.5 mm<sup>2</sup>  
(2X) output

Fig. 2



3 x 4mm<sup>2</sup>  
(2X) output

## 3. Surface / Box fitting

1. Select the single or twin box fixing points on the plate.
2. If the timer is to be surface mounted: select the single or twin fixing points on the back plate.
3. Wire entry from rear, both sides possible.

### **Note:**

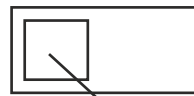
If connecting to terminals with stranded flex, the supplied crimp ferrules **MUST** be used.

Fig. 3



box

Fig. 4



box

## 4. Wiring Connections

1. Connect main cable as shown in Fig. 5 below.
2. Select desired flexible cable outlet to immersion heaters and using pliers remove the selected slot.
3. Clamp cables using attached cable clamp.

### **NOTE:**

Use the terminals 1 to 5 as identified.

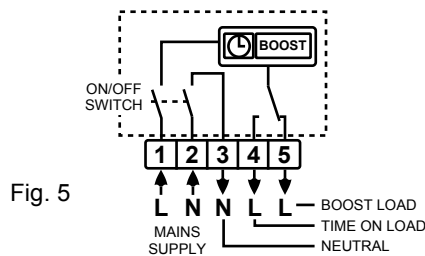


Fig. 5

## 5. Tamper proof cover

### FITTING THE SEE-THROUGH COVER

1. Once the see through cover is located, it can be removed using a screwdriver.
2. Align the bar on the edge of the cover with the groove at the lower end of the dial in the housing.
3. Remove the cover by applying a screwdriver between groove and cover.

Fig.3



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**OPTIMUM**

**ECONOMY 7  
TIMER**

For general purpose use

### User instructions

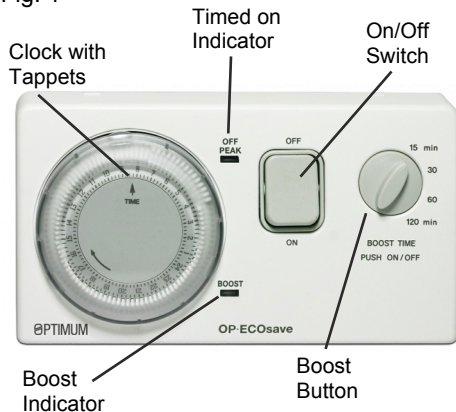
**OP-ECOSAVE** Economy 7 / Multi Tariff Timer  
Min switching 15 Minutes

1. **Product overview**
2. **Controls**
3. **Boost function**
4. **Setting the clock**
5. **Tamper proof cover**
6. **Specification**

## 1. Product Overview

### HEATER CONTROLLER AT A GLANCE

Fig. 1



## 2. Controls

### TIMED ON INDICATOR

The indicator glows when the 'TIMED ON' output is active.

### BOOST INDICATOR

The indicator glows if the 'BOOST SWITCH' is used.

### ON/OFF SWITCH IS IN 'OFF POSITION'

The settings of the 'TIMED ON' and 'BOOST' time period are not activated the clock runs but the heater is Disconnected.

### SWITCH IS IN 'ON POSITION'

The settings of the 'TIMED ON' and 'BOOST' time period are activated and the water will be heated during the 'TIMED ON' time period.

## 3. Boost Function

### BOOST BUTTON

1. This button is only needed if you need extra hot water during the day time 'PEAK' time.
2. Choose your boost time (adjustable between 15 & 120 minutes). Press the 'BOOST BUTTON' once for switching ON.
3. If you want to interrupt the boost function before the boost time is completed: Press the 'BOOST BUTTON' again.

### CHANGING THE 'TIMED ON' PERIOD

To set the time on period, move the tappets for the 'TIMED ON' time period to the outer position of the dial. The minimum switching time is 15 minutes.

## 4. Setting the clock

### SETTING THE TIME OF DAY

Turn the dial in the direction of the arrow (clockwise) until the correct time of day is exactly opposite the time set marker on the clock face (24 hr clock).

Fig. 2

