

## The Specification code explained

The specification code is used to define the water heaters details .

The Part No for the water heater will not change, the specification code should be added to the product description on the purchase order to clarify the customers requirements.

Example purchase order: -

Quantity	Supplier Part No	Product Description	Date Required	Unit Price	Ext Price
4	90-106/10	24vdc, 2 litre water heater <i>Spec code - 106/10/C/0011/R/1/C</i>	01/01/2020	£	£

Example specification code: - 106/10/C/0011/R/1/C

Explanation of water heater Specification code - 24vdc, 2 litre, 30A, 700W water heater, no 'FP', no 'VS', yes 'AS', yes 'PH', painted red, fitted with a tap cover & fitted with conversion brackets

# Specification code : -   / x / xxxx / x / x / x

### Model

<b>105/10</b> (12vdc, 2 litre) -	Part No: - 90-105/10
<b>106/10</b> (24vdc, 2 litre) -	Part No: - 90-106/10
<b>105/15</b> (12vdc, 3 litre) -	Part No: - 90-105/15
<b>106/15</b> (24vdc, 3 litre) -	Part No: - 90-106/15
<b>105/20</b> (12vdc, 4 litre) -	Part No: - 90-105/20
<b>106/20</b> (24vdc, 4 litre) -	Part No: - 90-106/20

### Power

<b>A</b> (30A - 350W, 12vdc only)
<b>B</b> (60A - 700W, 12vdc only)
<b>C</b> (30A - 700W, 24vdc only)

### Colour

<b>R</b> (Red)
<b>W</b> (White)
<b>G</b> (Grey)
<b>B</b> (Blue)

### Tap cover

<b>0</b> (No tap cover)
<b>1</b> (Tap cover fitted)

### Brackets

<b>N</b> (Standard fixing brackets)
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### Frost Protection Mode - FP

- 0** (DISABLED)
- 1** (ACTIVE)

- If active, FP mode will work when the water heater is both off and on.
- FP mode will only work if the supply voltage is above 12.5vdc (12vdc model) or 24.4vdc (24vdc model)
- When the temperature of the water is below 3°C then FP mode initiates. This pulses a small amount of the current to the element, stopping the water from freezing.
- When the temperature of the water is above 3°C the FP mode terminates.

### Voltage Sensing Mode - VS

- 0** (DISABLED)
- 1** (ACTIVE)

- VS mode will only work when the water heater is switched on.
- VS mode will only allow the water heater to work when the supply voltage is above 12.5vdc (12vdc model) or 24.4vdc (24vdc model).
- If the supply voltage is below 12.5vdc (12vdc model) or 24.4vdc (24vdc model) then the water heater will not work until the supply voltage has increased to 12.5vdc (12vdc model) or 24.4vdc (24vdc model).

**\*This mode is recommended for standard battery protection\***

### Alternator Sensing Mode - AS

- 0** (DISABLED)
- 1** (ACTIVE)

- If both VS mode & AS mode are switched on then AS mode will over-ride VS mode.
- AS mode will only allow the water heater to work when the supply voltage is above 13.2vdc (12vdc model) or 24.8vdc (24vdc model).
- If the supply voltage is below 13.2vdc (12vdc model) or 24.8vdc (24vdc model) the water heater will not work until the supply voltage has increased to 13.2vdc (12vdc model) or 24.8vdc (24vdc model).

**\*This mode is recommended if the water heater is connected directly to the vehicles main battery\***

### Press To Heat Mode - PH

- 0** (DISABLED)
- 1** (ACTIVE)

- PH mode activates 'once only' heating cycles. Once the water heater has reached 93°C, the green Ready LED will illuminate. The green Ready LED will continue stay on as the water heater cools by 5°C. When the water temperature has reached 88°C the water heater will switch itself off.
- To activate another heat cycle the user will have to turn the water heater on again.

\*If all feature modes are disabled then the water heater will heat to 93°C, then keep the water at that temperature.