

## Eco Design & Energy Using Products (EuP) Directive - Circulating Pump Changes 2015

### Introduction.

Implemented within the European Union, the Eco Design and Energy Using Products (EuP) Directive aims to reduce the environmental impacts caused during the manufacture, use and disposal of a very wide range of energy using products. The directive does this by setting minimum requirements for certain energy consuming products, including heating appliances.

In order to meet the requirements of the EuP directive, all Warmflow kerosene-fired, Pre-Pumped, System and Combination boiler models manufactured after 01st August 2015 will include a Grundfos UPS2 energy efficient circulating pump (See Figure 1 opposite). This pump has an Energy Efficiency Index (EEI) of  $\leq 0.23$ .



Figure1: Grundfos UPS2 25-40/60

### Changes to Circulating Pump Part Nos.

Part numbers relating to the existing non EuP compliant and new EuP compliant pumps are as follows:

Part No.	Pump Description	Compliance Status
602	Grundfos UPS 25-60	Non EuP Compliant
4413	Grundfos UPS2 25-40/60	EuP Compliant

### Identifying the Pump Type Used.

There are a number of physical differences between the EuP compliant pump (Part No. 4413) and its predecessor which help to identify them. These are summarised below:

Part No. 602: Grundfos UPS 25-60 Pump	Part No. 4413: Grundfos UPS2 25-40/60
3-Position rotary speed selection switch	Pushbutton for speed and mode selection
Raised marks for speed selection indication	LEDs for speed selection identification
No reference to Energy Efficiency Index	EEI $\leq 0.23$

### Affected Warmflow Boiler Models.

The Warmflow kerosene-fired boiler models affected by the change to circulating pumps are as follows:

Utility Series (HE)			Kabin Pak Series (HE)		
Pre-Pumped	System	Combi	Pre-Pumped	System	Combi
UP70HE	US70HE	UC70HE	KP70HE	KS70HE	KC70HE
UP90HE	US90HE	UC90HE	KP90HE	KS90HE	KC90HE
UP120HE	US120HE	UC120HE	KP120HE	KS120HE	KC120HE
UP150HE			KP150HE		

### Pump Replacement Requirements.

#### Replacement Pumps - Compliance Requirements.

##### Replacing a circulating pump in appliances manufactured **AFTER** 01st August 2015.

In any appliance with a manufacturing date of 01<sup>st</sup> August 2015 or later, any replacement pump fitted must be EuP compliant and have an Energy Efficiency Index of  $\leq 0.23$ . This is a mandatory requirement. This requirement ensures that EuP compliant appliances remain within the regulations during their service life, even if a circulating pump should require replacement.

#### Replacement Pumps - Fitting Requirements.

##### Replacing the circulating pump in **Combi** appliances manufactured **BETWEEN** 01st August 2009 and 01st August 2015.

Due to the presence of a low pressure switch within the boiler, in the event of fitting an EuP compliant pump to a Warmflow combi boiler manufactured between the above dates, please refer to Warmflow document no. Q12-042 'Combi Control Box Wiring Modifications For EuP Pump Installation' contained within Combi EuP compliant pump installation kit which is available for sale on request (Part No.CPIK).

##### Replacing a circulating pump in appliances manufactured **BEFORE** 01st August 2015.

In any appliance with a date of manufacture which is prior to 01<sup>st</sup> August 2015, it is permissible to fit a non EuP compliant pump (until the year 2020). However, to enhance the energy use performance of the appliance, an EuP compliant pump should be fitted.

##### Replacing the circulating pump in all other boiler models (all dates of manufacture).

In all other boiler models, irrespective of date of manufacture, EuP compliant circulating pumps may be fitted directly to the appliance without the need for wiring modification.

For more information visit [www.warmflow.co.uk](http://www.warmflow.co.uk)