

ECO DESIGN EU 814/2013 & EUROPEAN ENERGY LABELLING DIRECTIVE 812/2013

ErP labelling of Standard Tanks & Calorifiers \leq 500 litres and 400 kW

All Ormandy Standard Calorifiers will be supplied with an Energy Label specifying the standing heat loss as measured in accordance with EN 12897. Such equipment will also carry a CE mark and EC declaration of Conformity. (Product Fiche).

Standard Heat Loss for Standard Range of Calorifiers				
Volume litre	Diameter mm	Insulation Thickness mm	Heat loss Watts	Energy Class
250	660	75	55.84	B
300	760	75	57.47	B
350	760	75	64.28	B
400	760	75	71.09	B
450	760	75	77.9	B
500	835	75	84.30	B

Mineral Wool Insulation c/w Stucco aluminium outer case.

A continued improvement process with regards the development of insulation has been embarked upon. This published data will be reviewed and updated as appropriate.

Where calorifiers are specified to be supplied unlagged the client will be responsible for meeting the requirements of EU814/2013 and EU812/2013. Ormandy cannot supply an energy label for unlagged calorifiers.

ErP labelling of Bespoke Tanks & Calorifiers \leq 500 litres and 400 kW

The bespoke range and complexity for site specific calorifiers required by the industry, renders the assignment of an Energy Label impracticable. In order to fall within the scope of the ERP the sales of a specific product must exceed 200 000 units throughout the internal European market. (UK Gov. Guidance notes 4/4/2014). This is an accumulative total not one calculated by a specific manufacturer. Industrial calorifiers are manufactured to meet specific site requirements influencing both geometry and pressure, to that end the sales numbers fall well below the European market requirement for inclusion under ERP.

If required, Ormandy Ltd can test unique site specific units in order to assign an energy label and Declaration of conformity. These tests, on average take between 4 to 5 days. Testing of unique site specific units must be agreed at time of order.

Calorifiers >500 l ≤ 2000 l

In order to provide accurate heat loss performance data, Ormandy Ltd have undertaken tests and measurements in accordance with EN 12897. Heat loss data has been measured against worse case geometry i.e. being a unit fitted with the largest battery, inspection opening and connection configuration. Ormandy Ltd can therefore provide heat loss data to reflect the maximum possible losses, these may not reflect the bespoke unit supplied but will rather provide a heat loss figure that will not be exceeded.

Volume Litre	Unlagged Diameter mm	Insulation Thickness mm	Heat loss Watts	Energy Class
700	750	75	128.1	n/a
800	750	75	132.6	n/a
900	800	75	130.4	n/a
1000	850	75	144.2	n/a
1200	900	75	156.3	n/a
1350	900	75	158.1	n/a
1500	900	75*	178.1*	n/a
1500	900	100	169.2	n/a
1800	1050	75*	208.2*	n/a
1800	1050	100	174.5	n/a
2000	1050	75*	228.3*	n/a
2000	1050	100	180.7	n/a

* These calorifiers will be withdrawn from our standard range by September 2017.

Ormandy Ltd can offer a wide range of insulation types and thicknesses please contact our Sales Department for further information.

From September 2017 products falling within the ErP will have a maximum standing heat loss not exceeding:

$$16.66 + [(8.33 \times (\text{Volume} \wedge 0.4)) \text{ Watts}]$$

Calorifiers > 2000 l

Calculated Heat loss data for larger calorifiers can be taken from the following table.

Volume Litre	Unlagged Diameter mm	Insulation Thickness mm	Heat loss Watts	Energy Class
2300	1150	75	275	n/a
2500	1200	75	298	n/a
3000	1200	75	395	n/a
3500	1350	75	458	n/a
4000	1350	75	517	n/a
4500	1350	75	577	n/a
5000	1450	75	638	n/a
6000	1450	75	757	n/a
7000	1680	75	875	n/a
8000	1680	75	994	n/a
9000	1680	75	1113	n/a
10000	1680	75	1232	n/a
12500	1830	75	1526	n/a
15000	1830	75	1824	n/a

The above data is based upon 75mm thick Mineral Wool insulation. Other forms and thicknesses of insulation are available, please contact our sales department for additional information.