What products are you regulating? Electric storage-type water heaters with a rated storage capacity of 50 to 454 litres.

Are you forcing me to replace my water heater? No. The regulation applies to voluntary purchases of new or replacement water heaters. Individuals can keep their existing water heaters for as long as they wish.

What is the regulated energy efficiency standard for those products? The standby loss (in watts) must be equal to or less than:

\[ 25 + (0.20 \times V) \]

for those having a top inlet and a rated volume of 50 to 270 litres

or

\[ (0.472 \times V) - 48.5 \]

for those having a top inlet and a rated volume of >270 and ≤454 litres

The maximum standby loss for water heaters with a bottom inlet is identical to existing federal standards set by Natural Resources Canada. The standby loss (in watts) must be equal to or less than:

\[ 40 + (0.20 \times V) \]

for those having a bottom inlet and a rated volume of 50 to 270 litres

or

\[ (0.472 \times V) - 33.5 \]

for those having a bottom inlet and a rated volume of >270 and ≤454 litres

Here is the new maximum Standby Loss levels for several common sizes:

<table>
<thead>
<tr>
<th>Rated Storage Capacity in litres (imperial gallons)</th>
<th>Maximum Standby Loss For Top Inlet</th>
<th>Maximum Standby Loss for Bottom Inlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>114 L (25 imp gal)</td>
<td>48</td>
<td>63</td>
</tr>
<tr>
<td>136 L (30 imp gal)</td>
<td>52</td>
<td>67</td>
</tr>
<tr>
<td>182 L (40 imp gal)</td>
<td>61</td>
<td>76</td>
</tr>
<tr>
<td>272 L (60 imp gal)</td>
<td>80</td>
<td>95</td>
</tr>
<tr>
<td>364 L (80 imp gal)</td>
<td>123</td>
<td>138</td>
</tr>
</tbody>
</table>

For a lookup table with all sizes, go to: www.empr.gov.bc.ca/EEC/Strategy/EEA/Pages/default.aspx

What are the new installation requirements for electric water heaters? Homeowners and installers should be aware that all electric storage-type water heaters must have a functioning heat trap installed at the inlet and outlet, or, in the case of bottom inlet water heaters, at the outlet.

In addition, all water heaters must be installed with R-4 (RSI 0.70) pipe insulation on the first 3.0 metres (9.8 ft) of exposed outlet piping downstream of the tank or heat trap and the first 3.0 m of exposed water inlet piping upstream of the tank or heat trap. If there is an


Electric Water Heaters

When will the regulation take effect? September 1, 2010

Can I sell my inventory of non-compliant products after the effective date? Any water heaters manufactured after September 1, 2010 must comply with the regulation. If you have unsold inventory of products manufactured before the effective date, they can still be sold legally in British Columbia after the effective date.

How can I tell if a product is compliant with efficiency regulations? Suppliers can ensure compliance with the standard by stocking only products that meet the maximum standby loss outlined above. If the manufacturer's product literature is not clear on this point, Natural Resources Canada has an electric water heater database which lists standby loss by model number.

Who enforces this regulation? The Ministry of Energy, Mines and Petroleum Resources is responsible for enforcing all regulated standards under the EEA.

What are the penalties for non-compliance? Under the EEA, the Ministry can conduct inspections to verify compliance with the Act and regulations. EEA enforcement begins with education and voluntary compliance measures. Ministry staff follow up on all complaints and other information respecting non-compliance, and communicate directly with industry participants to develop a compliance plan. The Ministry can also seek to have those who have contravened the legislation charged under the Offence Act. An offence can result in fines up to $2,000.

What do I do if I see a non-compliant product for sale or distribution? Please circulate this information bulletin to the retailer or distributor. You can also report infractions to Erik Kaye, Ministry of Energy, Mines and Petroleum Resources at 250-356-1507 or Erik.Kaye@gov.bc.ca.


Last Updated October, 2009