

**5.3.8 Major Residential HVAC Equipment Lifetimes, Ages, and Replacement Picture**

<u>Equipment Type</u>	<u>Typical Service Lifetime Range</u>	<u>Average Lifetime</u>	<u>2005 Average Stock Age</u>	<u>Units to be Replaced During 2009 (1,000s)</u>
<b>Central Air Conditioners</b>	<b>8 - 14</b>	<b>11</b>	<b>8</b>	<b>5,354</b>
<b>Heat Pumps</b>	<b>9 - 15</b>	<b>12</b>	<b>8</b>	<b>1,260</b>
<b>Furnaces</b>				<b>2,750</b>
Electric	10 - 20	15	11	N.A.
Gas-Fired	12 - 17	15	11	2,601
Oil-Fired	15 - 19	17	N.A.	149
<b>Steam or Hot-Water Boilers (gas and oil)</b>	<b>20 - 40</b>	<b>N.A.</b>	<b>17</b>	<b>N.A.</b>

Note(s): Replacement values include smaller commercial building units. Gas/oil furnaces include wall furnaces.

Source(s): Appliance Magazine, A Portrait of the U.S. Appliance Industry, Sept. 2009, p. 38 for service and average lifetimes, and units to be replaced; ASHRAE, 1999 ASHRAE Handbook: HVAC Applications, Table 3, p. 35.3 for boilers service lifetimes; and EIA, Housing Characteristics 1990, May 1992, Table 7, p. 24 for 1990 average stock ages.