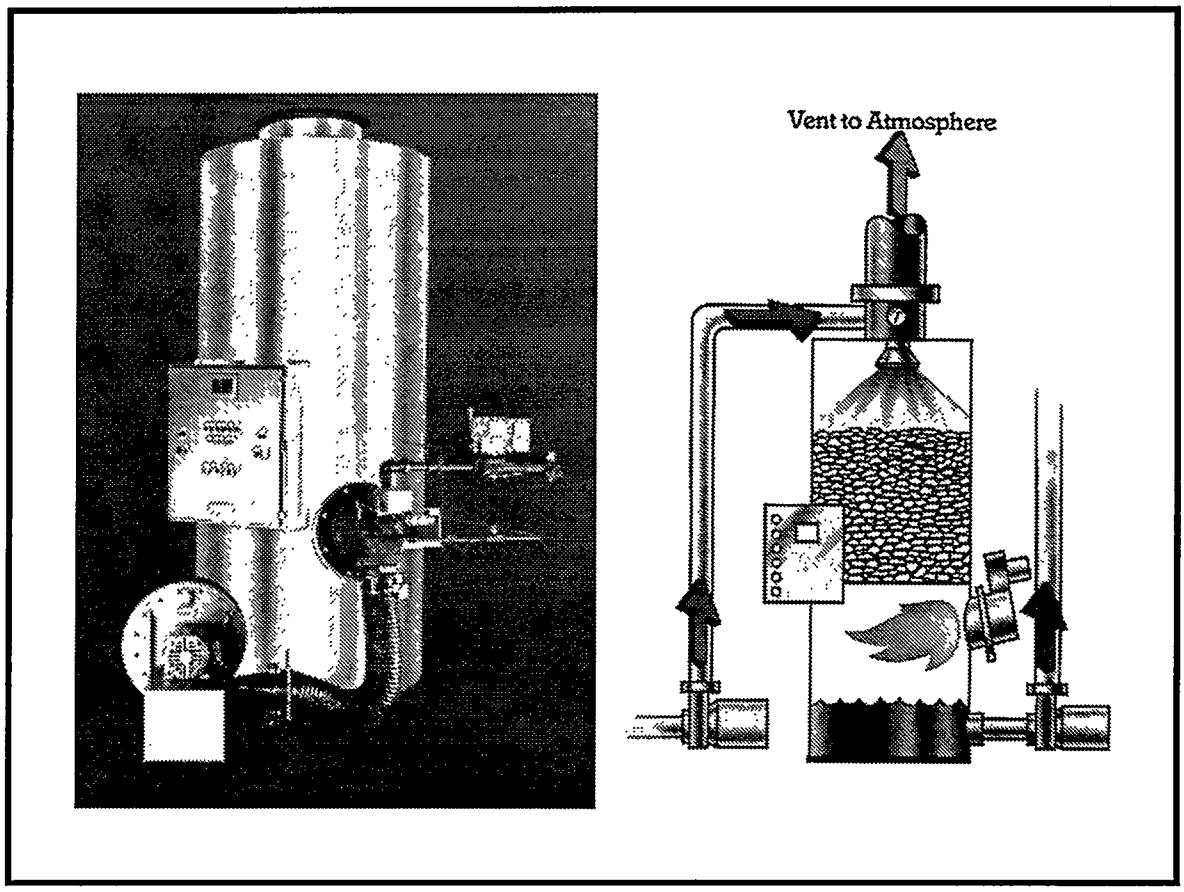

Figure 7.2 Illustration of Thermefficient-100®

The apportioning of energy savings by fuel type for the **Brandon replacement packing rings** was accomplished by using the distribution of sales of the packing rings by primary fuel of the turbines fitted. In addition, the average size of turbine capacity in the U. S. by coal, natural gas, and oil was utilized to complete the apportionment of total estimated energy savings (Energy Information Administration, 1991). The percentage of energy savings by fuel type for the packing rings is as follows:

- Coal — 78.7%
- Natural gas — 9.0%
- Oil — 12.3%

These percentages multiplied by total energy savings for the packing rings in 1992 result in the following energy savings in Btus X 10^{12}: for coal—15.9, natural gas —1.82, and oil—2.48.

The **Electronic Octane®** technology saved approximately 7.57 Btus X 10^{12} of gasoline in 1992. Approximately 2 barrels of crude oil are required to produce 1 barrel of refined gasoline. Therefore, 15.14 Btus X 10^{12} of crude oil was saved in 1992 due to this technology, which translates into 2.61 million barrels of crude oil saved.