Energy Savings via Heat Storage Shutdown

The Environmental and Energy Systems division of Dürr Systems has developed a heat storage shutdown mode to optimize the energy savings from almost any off-production regenerative thermal oxidizer (RTO). According to the company, this mode is significantly more energy efficient than set-back or idle mode because, in each of these, there still remains considerable burner and electrical demand. The heat storage shutdown mode additionally enables the RTO fan and burner to be shut down while the unit stores its remaining heat energy in the combustion chamber and retains an elevated temperature from which to return to production-ready status. Depending upon the amount of time the unit is off-line, the combustion temperature only diminishes 300° to 600°F below set point so the RTO can rapidly return to production-ready temperatures.

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