

# Overview

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We are replacing the heating system on one of our stirred tank storage tanks with a new apparatus. The previous one used a shell and tube heat exchanger. The new one will use a steam coil installed directly into the tank similar to a hot water heater in a house. Before we develop the control mechanism for the process, we need to know how the system behaves. Basically we need to know how fast the system can heat up and how this is affected by the quality of steam that we provide.