State Diagram

Waiting for Request → (Request) → Checking for errors → (Errors Found) → Displaying Errors

Checking for errors → (no errors found) → Waiting for Tempreture input

Waiting for Tempreture input → (Tempreture) → Adjusting Tempreture

Adjusting Tempreture → (Reaching requested Tempreture) → Waiting for Filling type

Waiting for Filling type → (Autmatic Type) → Waiting for Water size input

Waiting for Filling type → (manual Type) → Serving Water

Waiting for Water size input → (water size specified) → Serving Water

Serving Water → (end)