



CASE STUDY

INDUSTRY: HOSPITALITY



CUSTOMER: ITC Grand Chola

LOCATION: Chennai, India



BACKGROUND: Armstrong International designed, supplied, and commissioned two complete digital hot water systems, condensate return packages, and pressure reducing stations for the new ITC Grand Chola Hotel. The system was designed to be fully redundant, providing hot water for 600 rooms including the standard and presidential suites in this brand new seven-star hotel.

SCOPE OF WORK: Armstrong is responsible for the operation and maintenance of the utilities, which include two Digital-Flo® water heaters, one with a capacity of 75gpm (17m3/hr), and the other capable of 141.7gpm (32.2m3/hr), two boilers as well as complete steam and condensate systems. The two Brain DRV80s used in the project are fully digital recirculating valves designed specifically to be the primary water temperature controller in a continuously pumped recirculating hot water system.

Armstrong will employ and manage a team of engineers, operators, technicians, and maintenance personnel to efficiently run site operations. Armstrong will identify future utility improvement opportunities and recommend cost saving solutions.

- BENEFITS:**
- **Safety:** Constant and accurate water temperature prevents potential scalding.
 - **Accuracy:** Outlet temperature to system is +/- 2°F
 - **Simplicity:** Constant steam pressure prevents stall, therefore, no pump trap is required; instantaneous water supply does not require storage tanks; and a single integral digital control valve (DRV80) replaces multiple components.
 - **Connectivity:** The Brain and BrainScan™ communicate through an onboard status display and remotely through a Building Automation System to provide self diagnostics, alarms and temperature trending.

