



CASE STUDY

INDUSTRY: **TOBACCO**



CUSTOMER: Shanghai Gaoyang International Tobacco Co.

LOCATION: Shanghai, China

BACKGROUND: Shanghai Gaoyang International Tobacco Co. existing 44 gal/minute (10 m³) storage-type water heater deemed unsuitable as their main hot water system for the on-site communal showers. During winter, the water could not operate efficiently in extremely cold conditions. The customer attempted to solve the problem by adding heating coils, installing temperature regulators and PRV's, etc.; however there was no significant improvement.

SCOPE OF WORK: Armstrong International engineered and installed one Model 8120 Flo-Rite-Temp[®] instantaneous water heater with a maximum capacity of 145 gal/minute (33 ton/hr) for the user within a week of customer contact. The Flo-Rite-Temp[®] mixing unit manages the water flow through the heat exchanger based upon downstream hot water demand and eliminates the requirement for a modulating steam control valve. Capable of controlling outlet temperatures $\pm 4^{\circ}\text{F}$ ($\pm 2^{\circ}\text{C}$), the Flo-Rite-Temp[®] places user safety at forefront of system design. The hot water system has no issues reaching and maintaining the desired set point of 113°F (45°C) during colder months.

BENEFITS: Armstrong's Flo-Rite-Temp[®] solution not only relieved the customer of inconsistent, inaccurate water temperature issues, but also improved the safety of the group showers. The Flo-Rite-Temp[®]'s space-saving design, precise temperature control and ease of maintenance has also satisfied the customer.



Armstrong's Flo-Rite-Temp[®] Instantaneous Water Heater



Previous Storage Water Heater