



CASE NO. 02

BUILDING TYPE: _____

Nursing Home

NO. OF UNITS: 147

Bed Facility

LOCATION: 1240 Arbor Rd.

Winston-Salem, NC.

Tempering Valves provide *Safe and Accurate* temperature control at NC Nursing Home

PROBLEM: When maintenance personnel at Arbor Acres nursing home noticed erratic hot water temperatures during routine testing at the facility, they were immediately concerned. Like most health care facilities, Arbor Acres, a 75 acre nursing home and retirement community in Winston-Salem, NC, *closely* monitors domestic hot water temperatures. They know that erratic temperatures can pose a safety threat to patients. Furthermore, state licensing boards typically impose strict regulations on health care facilities regarding hot water temperatures.

Wayne Dodson, Director of Facility Services at Arbor Acres, turned to Bud Bodenheimer, of Bodenheimer Plumbing Service, Inc. for a solution. It didn't take long for the contractor to determine that failed mixing valves were at the root of Arbor Acres' hot water problems. The valves would have to be replaced.

SOLUTION: Dodson was concerned that the valves Bodenheimer chose be highly accurate and that they provide *long term* reliability. Clearly, he wanted to avoid the patient inconvenience and the problems that would result from another failed valve.

"Downtime is a serious issue when you consider the type of facility we are," said Dodson. "We didn't want to risk a shutdown".

With this in mind, Bud Bodenheimer recommended a Heat-Timer tempering valve to Mr. Dodson. He favored the Heat-Timer valve over other valves because he knew the manufacturer guaranteed a high degree of accuracy (± 2 degrees) over a wide range of load conditions.

Like other tempering valves, the Heat-Timer mixes hot and cold water to produce a desired outlet temperature. The key to Heat-Timer's accuracy is the extra large internal thermostat which maintains remarkably accurate outlet temperatures, even when inlet temperatures fluctuate.

Bodenheimer also appreciated the fact that the Heat-Timer valve operates over a wider range of inlet and outlet water temperatures than most other valves. In some cases, these wide temperature ranges can actually save a user the cost of an extra valve. Instead of using multiple valves in series to achieve a specific outlet temperature, a single Heat-Timer can often produce the desired temperature all on its own.

Two other characteristics of the Heat-Timer Tempering Valve make it an attractive selection to anyone involved in its installation or maintenance. First, it can be installed in any position, making installations less complicated. Second, the Valve is modular on the inside, so the internal parts can be replaced quickly and easily.

Bodenheimer installed two Heat-Timer valves at Arbor Acres. Much to the satisfaction of Wayne Dodson, installations went smoothly and required only minimum down-time. Most important, routine temperature checks now indicate consistent hot water temperatures throughout the facility.



John Sams (left) of Heat Transfer Sales discusses the Heat-Timer Tempering Valve installation with Bud Bodenheimer of Bodenheimer Plumbing Services, Inc.