

## Rinsing Train Cars at Chemical Facility in Augusta, GA



*Eemax SpecAdvantage*

### Challenge

- Need to heat 30 GPM from 60°F to 120°F, which requires 263 kW (900,000 BTU/h) of power
- Washdown cycle time can be reduced 50% by using hot water
- Hose station is at the far end of the plant
- Piping of natural gas is complex and costly
- Natural gas fired boilers create explosion hazard
- Plant has steam but piping of steam and condensate would be in excess of \$60,000 in addition to the cost of the steam driven water heater
- Need a low maintenance solution that is simple to operate

### Solutions

Eemax application engineers were engaged to specify the system based on customer requirements.

The Eemax tankless units provide high volume hot water on-demand with little to no maintenance. Piping the heaters in parallel equates to 10 GPM flow through each heater resulting in only 6 PSI total pressure drop. The heaters are piped to a hose station 150 ft away. Simply opening a gate valve at the hose station activates the heaters. Like most industrial facilities, this plant had no issues locating adequate electric feeds.

Utilized qty(3) Eemax SpecAdvantagePhD AP108480 N4X FDS FP -108 kW (368,000 BTU/H), 480 volt, NEMA 4X (304 stainless) cabinet, fused disconnect switch, freeze protection, 140°F output

### Installer Benefits

- Simple piping schematic created by Eemax promotes proper installation
- Quick product delivery
- Easy installation – only cold water and electricity

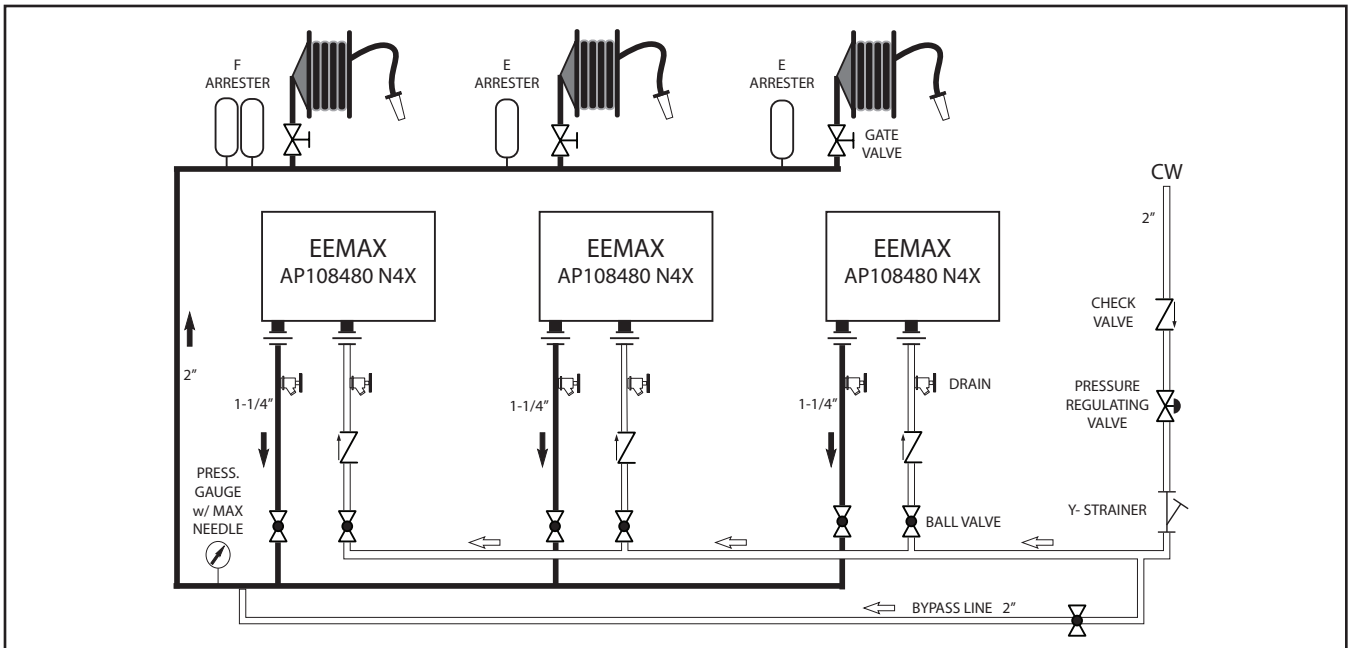
### User Benefits

- Lockable temperature output through the LCD control board
- Endless, on-demand hot water
- Easy operation

### Owner Benefits

- Utilizing electric heaters means no boiler maintenance, or maintenance associated with steam and condensate
- Using tankless means no costs associated with storing or circulating hot water
- Low cost installation compared to gas fired boilers or steam heating packages
- The tankless hot water package eliminates 2 hours of labor per day, saving \$25,000 per year

# 30 GALLON PER MINUTE PROCESS WATER FOR INDUSTRIAL WASHDOWN



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