

HEATEC BULLETIN

Product news from Heatec Inc., an Astec Company 5200 Wilson Road, Chattanooga, TN 37410 Phones 423-821-5200 800-235-5200 www.Heatec.com



Froedtert Malt uses Heatec heaters to process malt

Two Froedtert Malt facilities, one in Milwaukee, Wisconsin and one in Winona, Minnesota use Heatec three-pass heaters to make malt. The heaters heat thermal fluid pumped through heat exchangers to heat air for drying barley to produce the malt.

The three-pass design of the heaters yields an efficiency of 86% LHV and higher. Three-pass heaters have two coils, one inside another. Hot gasses from the burner pass through the center of the inner coil, turn and pass between the two coils, then turn and pass

between the outer coil and the heater shell. This design ensures that more heat is transferred to the helical coils and thermal fluid for increased efficiency.

Each heater features dual-circuit coils to allow a high flow rate of thermal fluid. One has a flow rate of 1,725 gpm. The other has a flow rate of 1,200 gpm.

The heater in Milwaukee outputs 32 million Btu/hour. An economizer in its exhaust stack boosts efficiency to 93% LHV.

The heater in Winona outputs 21 million Btu/hour and serves as a booster heater to boilers. When extra heat is required for making specialty malts, the Heatec heater adds 100 degrees F to the heat produced by the boilers.

Froedtert Malt processes graded barley into malt that is used worldwide in beer, distilled liquor, cereal and other foods.



Air passes through large heat exchangers (lower photo), then upward through drying rooms (upper photo).



Heatec 21 million Btu/hour 3-pass heater at Froedtert Malt in Winona, MN.



HEATEC
an Astec Company