



HT Sanitizer

www.HTSanitizer.com



FORMULA FOR SUCCESS TODAY AND IN THE FUTURE FOR WOOD PACKAGING SOLUTIONS:

Wood Product **Sanitization** = ISPM-15 HT + Sterilization

In a single pass or charge, our patented and scientifically proven technology, can Heat Treat for ISPM-15 certification and sterilize wood packaging products by drying surfaces to a moisture content of less than 20% for **mold prevention** in quick cycle run times resulting in a low cost of treatment of products.





THE HT SANITIZER STERILIZING & HT (SANITIZATION) PATENTED TECHNOLOGY & BENEFITS

- Scientifically proven ISPM-15 HT and sterilization for mold prevention treatment (Sanitization)
- Sterilization (Drying) treatment of product results in clean, dry surfaces with majority moisture content readings below 20% after cool down
- Proven ISPM-15 compliant HT solution in operation since 2011
- Formal testing with Timber Products Inspection (TPI) occurred and in July 2019 the American Lumber Standards Committee reviewed test results and ratified the HT Sanitizer to run in a continuous mode (Flow Thru) as an ISPM-15 HT solution
- Supports Lean Manufacturing vision with the opportunity to configure the HT Sanitizer in flow thru mode in line with other production equipment
- Product after treatment cycles does not exhibit water stains, especially near the bottom of products and minimal to no degradation in structure occurs
- High temperature along with pressurized air flow in the HT Sanitizer oven produces sanitized product in short run times resulting in lower treatment costs and a higher capacity output of product compared to other solutions in the industry
- The HT Sanitizer's pressurized forced air technology will get consistent temperatures in all places of your products
- Temperature data loggers, software and proposed processes for maintaining ISPM-15 certification are included
- Eliminates the need to buy expensive kiln-dried lumber to manufacture products for mold prevention
- Reduce your inventory and facilities footprint of products if drying on site with fans or outside air for mold prevention
- Use the HT Sanitizer's excess capacity to sterilize or HT for other companies to increase revenues, even HT firewood
- Target and grow future revenues by capturing business of new companies requiring dry, mold-free products
- Machine is designed and maintained in a 3-D CAD tool to drive future product development, improvements of high quality



MACHINE SPECIFICATIONS

- Constructed of quality, heavy duty materials for long life
- Outside Machine Height is 12.5', Width 8', Length of oven is 25', In feed deck is 10', and out feed deck is 10'; inside dimension of oven is 5.5' wide by 9' high
- Approximate weight is 20,000 lbs
- Machine requires 480 volt, 3 phase, 300 amp electrical service; electricity is cleaner and more safe than other energy sources with no harmful chemicals and residues
- Powered with efficient 3-phase frequency drive motor
- The oven's main insulator is Fibrex insulation used in applications up to 1900°F; it keeps the heat in while the outside of the oven remains cool to the touch
- A large blower fan exists on top of the oven that draws air from inside the oven and blows the air back down across the many heating elements in the pressurized airboxes located on both sides of the oven; then the hot air is blown through the many holes in the airbox into the product as it moves through the oven
- The machine has no puddling inside the oven
- Air curtains over oven entrance and exit doors minimize loss of heat for incoming and exiting products saving time and money
- 2 81X kiln chains are placed 36" on center to accommodate product and weather high heat
- Simple user interface and display control panel is easy to operate power, machine heat, conveyor, blower fan & air curtains
- Can run machine in batch mode or in continuous flow thru mode (product on conveyor always in motion at a speed predetermined for treatment cycle time)
- Product is placed on in feed deck and travel through entrance doors and exit on the out feed deck
- The machine can be configured to "flip flop" infeed and outfeed decks based on placement inside your building
- The HT Sanitizer can be moved in the future as your business and operations footprint changes
- The machine is designed to reside indoors resulting in more consistent performance since it is out of the weather elements, especially in winter climates
- Our company has low cost options to protect machine if floor space is at a premium



HT SANITIZER COMPANY NEWS & EVENTS

Events In Process - Stayed Turned For Future Updates

- Firewood drying to reduce moisture content
- Lumber pre-drying to quickly reduce moisture content to free up capacity for final kiln drying
- Machine product development improvements to reduce treatment times

December 2019 - American Lumber Stands Committee (ALSC) Flow Thru ISPM-15 HT Ratification

- Formal flow thru testing and data collection was done with Timber Products Inspection (TPI) completed in April 2019. Key result was oven temperatures were consistent throughout the treatment cycle.
- Formal testing to run different species and product thicknesses was performed with the ALSC and TPI to confirm treatment times and adherence to ISPM-15.
- All testing results concluded running HT Sanitizer in continuous flow thru mode was effective for ISPM-15 HT solution and the machine and process to do so was certified.

December 2019 – New Rebranding Company & Machine Name Change

- A new marketing rebranding strategy was launched and effective July 1st the company named is now Wiedemeier Wood Dryers LLC and the machine is named the HT Sanitizer to more accurately describe the machine technology and capabilities

June 2017 – Scientific Mold Prevention Treatment Assessment & Testing

- In March 2017, White & Company President Marshall (Mark) White in conjunction with the Virginia Tech Center for Packaging and Unit Load Design successfully completed an assessment on the HT Sanitizer machine and technology for sterilizing and heat treating pallets (add link to report results summary)
- In Design May 2017 Mark White in conjunction with the Virginia Tech Center for Packaging and Unit Load and the HT Sanitizer team successfully conducted formalized testing focused on pallet sterilization and mold control (add link to report results summary)
- Supplier Spotlight Pallet Enterprise article published in June 2017

October 2017 – New Company Launch to Manufacture & Sell Machine

Other Key Events

- First machine manufactured and sold for ISPM-15 pallet HT solution in 2011
- Machine designed and created by Tom and his son Troy Wiedemeier in 2007 as a HT solution for firewood



Simple, General Weekly Maintenance (new tab?)

- On a weekly basis vacuum the interior oven to remove any loose debris and build up.
- Grease the 2 blower fan fittings are located to the left of the control panel (see picture below).
- Grease the 4 grease fittings for the conveyor; 1 in each corner at the end of the infeed and outfeed decks.

