

GREEN-DRI™

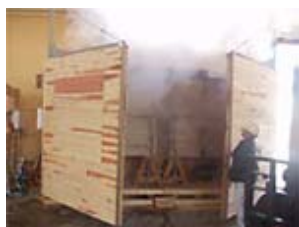
Biological Wood Dryer BDK-3000

Maximum Value, Minimum Loss, & Higher Quality

Biological Wood Dryer GREEN-DRI™ BDK-3000 is a revolutionary new dry kiln (actually not really a kiln since it does not cook the wood) now available to the North American wood industry. This innovative, economical wood dryer was developed from a biotechnological concept based on the Bound Water Transfer Theory. Professor Agre at the Johns Hopkins University School of Medicine was awarded the Nobel Prize for his discovery of "channels" that regulate and facilitate water molecule transport through cell membranes, a natural osmotic process essential to all living organisms. GREEN-DRI utilizes these water channels in cell membranes to biologically remove the water from wood. Wood and its cells will continue to function as a living organism for a time even after being cut. GREEN-DRI utilizes this natural process to push the water out. Not only the so called, "Free Water" in cell lumen, but also the "Bound Water" in the cell wall matrix is removed through the channels. In this way GREEN-DRI can dry wood much faster and more economically than the traditional method. (Example: 2 ¾" x 2 ¾" cross-section White Oak boards can be dried in 4 days from Green- 200% down to a less than 20% moisture content) Traditional wood drying kilns force the water out from the wood with a high temperature and forced air, anywhere from 175 to 300°F, rupturing the cells in the process. GREEN-DRI's operating temperature is relatively low at around 100° F. since thermal rupture is not desired or required to drive out the water. In GREEN-DRI, water is sweated out of the wood, as a natural cellular process. GREEN-DRI's double layer walls, ceiling, and floor are all made out of wood which makes it look and feel like the inside of a sauna because of the moisture and temperature. This wood construction is one of the key elements of this drying technology. It uses wood to dry wood, all natural and Green.

BENEFITS

- **LOW ENERGY CONSUMPTION**
(less than 10% of conventional kiln)
- **FASTER DRYING** (as much as 5 times)
- **LOW TEMPERATURE** (100°F = No cell damage)
- **LESS WOOD WASTE** (Less defect)
- **LESS VOC EMISSION**
- **ECONOMICAL** (Ideal for smaller mills)
- **CUSTOM DIMENSIONS** (and portable)
- **LESS WARPING / LESS CHECKS (CRACKS)**
- **NO DISCOLORATION (BEAUTIFUL!)**
- **STRONGER & LONG LASTING WOOD**



In operation



Kiln interior



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