

PHYTOSANITARY STEAM CHAMBERS - PSC

WINDSOR PSC SYSTEMS:

Windsor PSC systems use “true” low pressure saturated steam for the phytosanitary heat treatment of DRY lumber. The Windsor PSC chambers are ideal for heat treating “dry beetle kill” lumber to meet International ISPM15 rules.

GENERAL:

Energy saving: The use of low pressure saturated steam inside the PSC chamber makes them highly thermal efficient. They will use about 1/3 of the thermal energy consumed by a conventional heat and vent kiln.

Improved grade: A significant advantage is that there will be no further drying of the lumber as the EMC inside the chamber is about 16%. This means that grade recovery will increase as distortion is reduced due to the prevention of “over drying”.

No electrical cost: Windsor PSC chambers do not have circulation fans i.e. there are no electricity bills normally associated with kiln technology.

Controls: Each Windsor PSC system is managed via a Dryspec S controls (PC/PLC) package. Dryspec is robust and easy to use.

Heating Mediums: We can use either steam, thermal oil or high pressure hot water as a heating medium. On sites where there is no central heat plant we can use direct gas fired technology or provide a package thermal oil heater (gas fired) on each chamber.

Construction: The chambers have a 100% aluminium and stainless steel construction.

In situations where waste water treatment facilities are limited the Windsor patented condensate recirculation system can be installed. This will dramatically reduce the amount of condensates generated.

