

Super Steam Vac Results

Sack Grades

The Super Steam Vac is the combination of IBS' expertise in super high vacuum applications integrated with Transphase's patented steambox technology for advanced Fourdrinier dewatering. The IBS PPG Super Steam Vac system is ideally suited for installation on fourdrinier machines producing sack grades and has achieved excellent results.

The SSV consisted of a dual or triple chamber Super High Vac flat suction box equipped with an IBS- Si-Nitride cover. The open area of the cover can be adjusted to allow fine tuning of the airflow through the cover.

The Transphase Z-Box steam box uses its patented design to provide uniform low velocity steam to ensure no sheet disturbance and minimum steam spillage. To guarantee an easy cleaning the Z-Box profiler features our innovative swivel retraction which pivots the box up to 60°. In addition, IBS supplies the interface cabinet to control the steam actuators. It features Festo CPX modules which can detect any air leakage or non-movement of the profiling actuators.



SSV in operation on a machine producing sack grade paper.

Machine configuration:

- Furnish: 100% Virgin SWD
- Freeness: 24°SR - 525CSF
- Base weight: 93 to 127 gsm - 50 to 75 #/3000ft²
- Sheet width: 6096mm - 240inches
- Speed: 853mpm - 2800fpm
- Vacuum configuration: Duovac @ 47/74.5 kPa – 13.9/22 inHg

Results:

- Elimination of 2 couch vacuum pumps
- Increased sheet temperature into the press from 54.5 to 71°C - 130 to 160°F.
- Increased sheet temperature into the dryer
- Reel moisture decreased by 1%
- Up to 5% reduction of total steam consumption
- Up to 6% speed increase