



ANOTHER PROBLEM SOLVED!

INSTRUMENTATION FAILURE CAUSED BY SEASONAL VARIATIONS OF COMPRESSED AIR DEWPOINT

THE CHALLENGE

A Hot Rolled Steel Manufacturer was encountering problems with moisture in their air lines causing instrumentation failure and premature maintenance requirements. The moisture was caused by a varying compressed air dewpoint from summer to winter. Our expert was given a strict budget and asked to come up with a solution.

THE SOLUTION

Our application expert met with the Customer and evaluated the existing design and concluded that the dryer was not suited to operate in summer conditions. Our expert presented a seminar to the client and employees describing the limitation of the existing unit and cost calculations for alternatives. A Heatless Dryer with upgrade potential to Heat Reactivated was selected. This unit was within budget constraints and the problem of moisture in the air lines was eliminated.

THE RESULTS

- ▶ Improves Operational Efficiency
- ▶ Reduces Maintenance Costs

For more information on this solution or if you have a fluid handling challenge of your own - Contact a John Brooks Company Application Expert today!



STEEL MANUFACTURING | INSTRUMENTATION AIR ENERGY EFFICIENT HEATLESS DRYER

TECHNOLOGY UTILIZED

- Heatless Dryer
- 2500CHA complete with Pre and After Filter
- 15% Compressed Air Purge Rate
- Highest Design Reliability
- Longest Desiccant Life Design
- ADC Advanced Dryer Controls Monitor Moisture Load to Maximize Purge Loss
- Heatless Dryer Technology can be modified to Heat Reactivated eliminating Purge and Preventing the need to purchase additional Compressors

HOW IT WORKS

- Compressed Saturated Air Enters the Dryer and -40° F Dewpoint Air Exits
- 15% Purge Rate (Back Wash)
- -40° F Dewpoint Purge @ 100 PSI Expanded to 0 PSI Converts to -70° F Dewpoint
- -70° F Dewpoint Purge Air is Drier than Moisture Content on Desiccant and therefore Desiccant Regeneration takes place

