

# Nebraska Boiler Saves 25% on Manifold Costs Per Year Using Pre-Assembled Manifolds

## RESULTS

- 25% reduction in total manifold material cost
- Eliminated over 50 man-hours of labor
- 50% savings in manifold warranty claims
- Eliminated 42 purchase orders that cost the company over \$3,150



## APPLICATION

Natural circulation watertube boilers, economizers, hot water boilers, and heat recovery units.

## CUSTOMER

Nebraska Boiler - Lincoln, Nebraska

Nebraska Boiler builds natural circulation watertube boilers as well as economizers, hot water boilers and heat recovery units. They use pressure and differential pressure transmitters for boiler drum level, gas flow, steam flow, et cetera for monitoring and controlling equipment operation.

## CHALLENGE

In the past, Nebraska Boiler attempted to reduce their purchase price by procuring the transmitter and manifold separately. However, a cost analysis performed on pre-assembled manifolds versus the assembly of manifolds to transmitters locally produced unanticipated results. As a result of the analysis, Nebraska Boiler discovered that when they assembled the manifold to the transmitter themselves, they incurred extra cost from multiple purchase orders, additional inventory, labor for receiving and shipping material and labor for assembly. They also noticed a significant amount of cost for field support, installation and fit-up issues, and warranty expenses.

## SOLUTION

Nebraska Boiler has standardized on Rosemount transmitters for each pressure and differential pressure application in their equipment packages. They have also included pre-assembled manifolds into this standard to cut overall installed cost and eliminate excess inventory.

*“With Emerson providing a transmitter/manifold assembly, we realized a cost savings, considering engineering time, field support and warranty claims.”*

**Brian Vanis, Controls Manager, P.E.**



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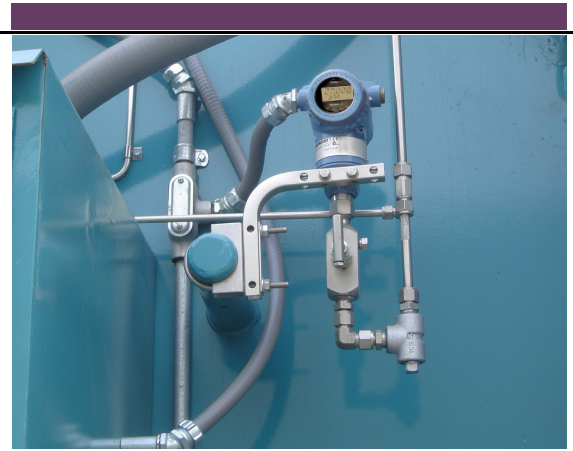
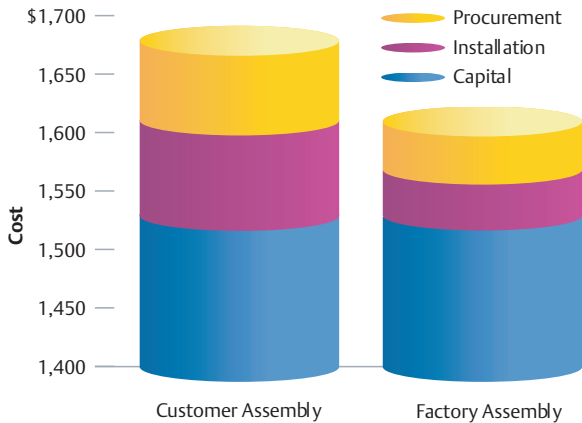
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Material cost for Nebraska Boiler to buy manifolds attached to Rosemount transmitters is an additional \$4,947 per year. But the reduction to shipping and receiving costs, field support costs, warranty claim costs, and PO costs saves Nebraska Boiler \$8,150 per year. This brings their annual savings to \$3,203 which is 25% of the total manifold material cost.

**25% Installed Cost Savings**



3051T with Inline Manifold measuring absolute pressure.

**RESOURCES**

**Emerson Process Management Power Industry**

<http://www2.emersonprocess.com/en-US/industries/Power/Pages/index.aspx>

**Rosemount Manifolds**

<http://www2.emersonprocess.com/en-US/brands/rosemount/Accessories/Pages/index.aspx>

**Nebraska Boiler Homepage**

<http://www.neboiler.com/>

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