CSI / O'BRIEN

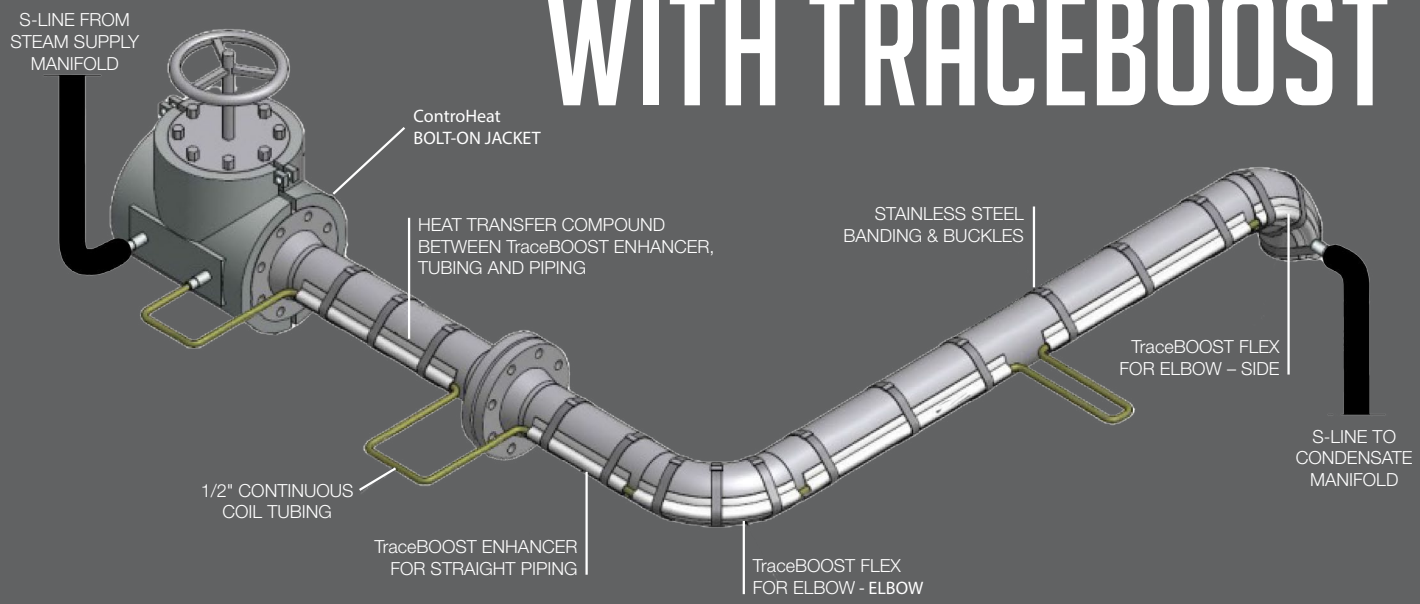
AMETEK®

TRACEBOOST

Enhanced Tube Tracing to Maximize Heat Transfer

ENHANCERS / TUBING / VALVE JACKETS / FLEX FOR ELBOW

MAXIMIZE OUTPUT WITH TRACEBOOST



A recent case study on bare tube vs TraceBOOST tracing delivered the following savings for our customer:

Reduced number of tracing circuits by

58%

768 conventional vs. 322 TraceBOOST

CapEX Cost Savings of

46.3%

$2.59M conventional estimate vs. $1.39M TraceBOOST system

OpEX 25 Year Cost Savings of

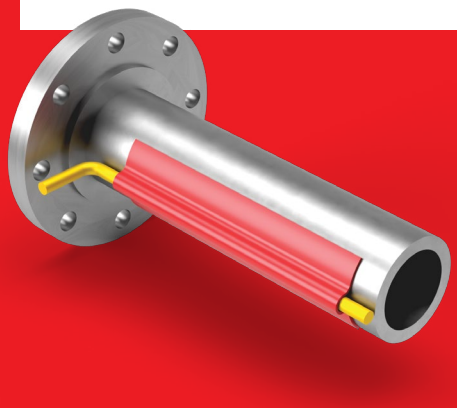
45%

$5.01M conventional estimate vs. $2.78M TraceBOOST system

Steam Consumption Savings of

45%

4,162 Kg/hr conventional estimate vs. 2,312 kg/hr TraceBOOST system



TraceBOOST system includes:

- Straight pipe enhancers
- Flexible fitting enhancers
- Heat transfer compound
- Installation banding & tools

Options (available upon request):

- Continuous coiled tubing
- Pre-insulated tubing for steam supply & condensate return
- Bolt-on heating jackets for valves & equipment
- Tubing straighteners

Benefits

- Maximizes heat transfer from conventional tube tracing
- Ideal for applications requiring multiple tracer runs
- Delivers maximum efficiency in tube tracing systems
- Reduces overall system cost
- Improves thermal performance
- Lowers circuit count

Applications

- Any pipe heating application where more than one tube tracer is required
- Single traced process lines exhibiting poor performance

Process Examples

- Heavy Oil
- SDS & FCC Units
- Acrylic Acid
- Asphalt
- Caprolactam
- Delayed Cokers
- Visbrakers

SUPERIOR ADVANTAGES

TraceBOOST significantly enhances heat transfer over conventional tube tracing systems - improving efficiency up to 4x - by converting from convective to conductive heating.

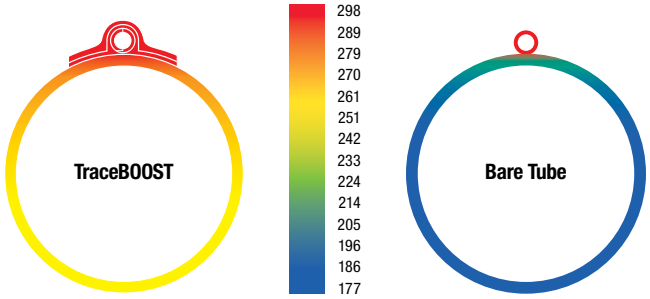
CSI offers complimentary thermal modeling for both new and existing systems, ensuring optimal technology selection and system design to meet specific process performance requirements.

TraceBOOST is suitable for both liquid and select vapor process applications, reducing system complexity by requiring fewer circuits and associated components.

TraceBOOST systems can incorporate coiled tubing designs, minimizing the number of field unions and contributing to lower installation costs, maintenance requirements, and improved overall system reliability.

TraceBOOST is best suited for pipe heating applications with a minimum temperature difference of 70° F (40° C) between the heating medium (steam) & the process. Consult CSI for other applications to determine appropiate technology selection.

TraceBOOST & Bare Tube Temperature Contour Comparison



TraceBOOST Advantages

- Reduced Capital Cost (Typically 30-70%)
- Reduced Installation Time
- Increased Energy Efficiency
- Reduced Annual Operating Cost
- Increased System Reliability

TRACEBOOST PART NUMBERS

Part Number	Description
TraceBOOST Straight Tracer (RIGID)	
TB-010	Tracer for 0.75" - 1.5" Pipe. (130'/Box)
TB-020	Tracer for 1.5" - 2.5" Pipe. (130'/Box)
TB-040	Tracer for 3" - 5" Pipe. (130'/Box)
TB-080	Tracer for 6" and Larger Pipe. (130'/Box)
TraceBOOST Fitting Tracer (FLEXIBLE)	
TB-040-FLEX	Fitting Tracer for 3" - 5" Pipe (5'/stick)
TB-080-FLEX	Fitting Tracer for 6" and Larger Pipe (5'/stick)
Tracer Tubing Coiled (feet)...specify length	
BCA4	½" OD X 0.035" wall welded 316SS Bare Tracer Tubing
BCF4	½" OD X 0.035" wall seamless 316SS Bare Tracer Tubing
Tracer Tubing Stick (feet)…sold in 20ft lengths	
BCA4	½" OD X 0.035" wall welded 316SS Bare Tracer Tubing
BCF4	½" OD X 0.035" wall seamless 316SS Bare Tracer Tubing
S-Line Pre-insulated Tubing…specify length	
SA4	½" OD X 0.035" wall welded 316SS S-Line Insulated Tubing
SF4	½" OD X 0.035" wall seamless 316SS S-Line Insulated Tubing

Alternate material/sizes available upon request

Consult www.csiheat.com for additional resources, including Coverage Chart and BOM Calculator to build your own system.

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