Advanced Sealing

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Tube Seal

- Reformers, (SMR, SNR)
- Coker Heaters
- Vacuum Heaters
- Convection Heaters

- Reduce energy spend
- Improve performance
- Improve safety
- Increase reliability

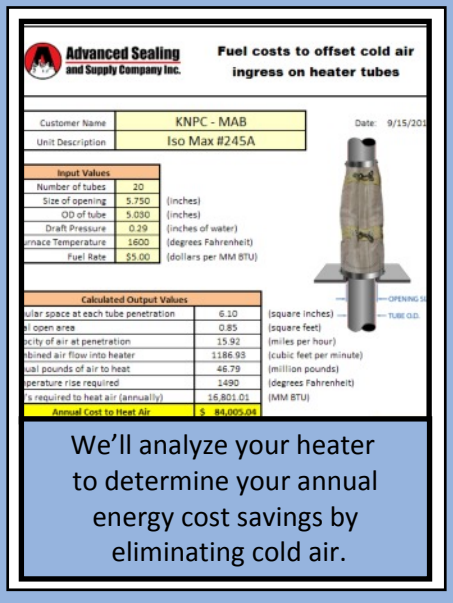
COLD AIR INGRESS IS NOW AVOIDABLE

Advanced Sealing & Supply Inc is pleased to present our engineered tube seal product. The above pictures show major improvements over competitor's products offered for this service. Unlike "Velcro" styles that often gap, our full top-to-bottom zipper ensures full and constant closure during thermal cycling. In addition, our fabric choices are more reliable and will not crumble due to heat exposure.

Design Features:

- Hot Side - Alumina fabric for temperatures >2,000 °F
- Middle Insulation Layer - 1/2" thick needled silica blanket
- Outside - Heat treated glass cloth, eliminates shrinkage
- Top and bottom hem protected with abrasion resistant Silica Tape
- Two spring steel strength hoops protected with abrasion coating

The use of our improved zipper closure, combined with Maxsil's needled blanket (non-crumbling due to absence of a carrier) assures long life and maximum value. Weatherproof materials are available where temperatures and environment permit.



Advanced Sealing and Supply Company Inc.

Fuel costs to offset cold air ingress on heater tubes

Customer Name	KNPC - MAB
Unit Description	Iso Max #245A

Date: 9/15/201

Input Values		
Number of tubes	20	
Size of opening	5.750	(inches)
OD of tube	5.030	(inches)
Draft Pressure	0.29	(inches of water)
urnace Temperature	1600	(degrees Fahrenheit)
Fuel Rate	$5.00	(dollars per MM BTU)

Calculated Output Values		
ular space at each tube penetration	6.10	(square inches)
l open area	0.85	(square feet)
city of air at penetration	15.92	(miles per hour)
bined air flow into heater	1186.93	(cubic feet per minute)
ual pounds of air to heat	46.79	(million pounds)
perature rise required	1490	(degrees Fahrenheit)
s required to heat air (annually)	16,801.01	(MM BTU)
Annual Cost to Heat Air	$ 84,005.04	

We'll analyze your heater to determine your annual energy cost savings by eliminating cold air.

Let us show you how much money you can save!