

HATFIELD AND COMPANY

Energy & Safety Optimization



Hatfield and Company is a distributor and manufacturer's representative of leading technical products and solutions that help our customers improve efficiency and quality, and save money. We specialize in solutions for filtration, instrumentation, valves, safety, and other piping related products. We consider our customers to be our partners and we are committed to being fair, ethical, and honest... every time.

Hatfield and Company currently has Sales Offices located throughout the United States in Illinois, Indiana, Louisiana, Oklahoma, and Texas. We also service and provide technical products and solutions for customers in Alabama, Arkansas, Iowa, Kansas, Michigan, Mississippi, Missouri, New Mexico, Ohio, and Tennessee.

Corporate Office

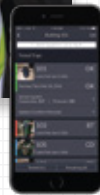
2475 Discovery Blvd
Rockwall, TX 75032

972.288.7625
972.289.9063 fax

MEASURE



Capture your data with SAGE® mobile app



Steam System Survey:

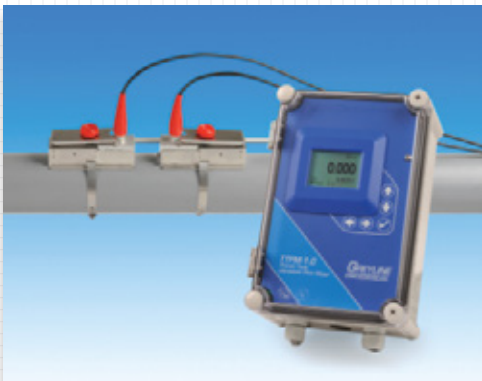
Capture your steam trap performance with SAGE® by Armstrong mobile. Now you can own your data & manage your trap population.

Thermal Survey: Identify the need for safety & energy optimization.



Hot Water Generators:

The key to right-sizing your system is to know your flow demand. Portable clamp-on measurement is the solution.



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ANALYZE

Steam Energy Analysis:

See your full steam system summary with SAGE® by Armstrong. Energy loss, hot water updates & alerts in real time.



Energy Survey Sample		Survey Date: 07/25/2016								
Client: Plant 1000		Project Status:								
Phase / Sheet: 07/25/2016		Fuel Cost (\$/MMBTU): 09.50								
Project Name: Sample Steam System		Steam Cost: 01.00								
Project Location: 123 Main St		Product Specifications: 200 LBS/HR								
Phase / Sheet: 0001		Insulation Thickness: 1.5								
Minimum Temp. #: 200		Insulation Type: (R) Values Pipe / Miscellaneous								
Item	Description / Location	Area (sq ft)	Material	Unit Cost (\$/sq ft)	Quantity	Total Cost (\$)	Material	Unit Cost (\$/sq ft)	Quantity	Total Cost (\$)
Main Boiler Room										
1	Wall, Galv, 100A	90	300	0760	21,600.00	\$3,881.06	3,334.95	\$236.02		
2	1" 304 SS Slip Check Valve	90	300	0760	30,402.20	\$4,424.30	3,473.31	\$266.46		
3	6" 304 SS Steam Drum (2" 10" Deep)	90	345	0760	195,201.00	\$13,132.40	10,281.76	\$1,194.10		
4	6" 304 SS Red Iron (2" 10" Deep)	90	300	0760	181,406.00	\$11,406.76	10,046.25	\$1,375.79		
Steam Header										
1	Wall, Galv, 100A	90	300	0760	21,600.00	\$3,881.06	3,334.95	\$236.02		
2	Wall, Galv, 100B	90	300	0760	21,600.00	\$3,881.06	3,334.95	\$236.02		
3	Flange, CS68	90	345	0760	18,274.53	\$1,219.24	1,221.02	\$129.22		
Steam Tunnel										
1	Exp. Jct, Single	90	342	1824	23,817.25	\$1,799.00	1,799.00	\$1,799.00		
2	Wall, Galv, 100B	90	342	1824	18,202.41	\$1,347.00	1,347.00	\$1,347.00		
3	Steel Flange Cap, 300A	90	338	1824	7,828.00	\$1,347.00	1,347.00	\$1,347.00		
FW Station to Deaerator										
1	Shower, 200P	110	325	0760	2,219.84	\$1,926.12	1,926.12	\$1,926.12		
2	Pressure Reducing Valve, 100A	110	325	0760	4,225.20	\$3,253.20	3,253.20	\$3,253.20		
3	Wall, Galv, 100A	110	315	0760	3,075.00	\$2,767.50	2,767.50	\$2,767.50		
4	Flange, 100A	110	318	0760	2,784.00	\$2,400.00	2,400.00	\$2,400.00		
5	Wall, Galv, 100A	110	315	0760	3,075.00	\$2,767.50	2,767.50	\$2,767.50		

Energy Survey Summary	
Total Heatloss - Bare (BTU/Year):	3,277,893,466.42
Total Heatloss - w/ Insulation (BTU/Year):	317,299,858.47
Heatloss Savings - w/ INSULTECH® (BTU/Year):	2,960,593,610.95
Total Annual Operating (Steam Cost) - Bare:	\$41,957.04
Total Annual Operating (Steam Cost) - w/ Insulation:	\$4,061.44
Annual (Steam Cost) Savings - w/ INSULTECH®:	\$37,895.60
* Lifetime (Steam Cost) Savings (15 Yrs):	\$537,402.96
Total Cost (INSULTECH® Blanket System):	\$26,231.01
Insulation (By Spacers):	\$4,600.00
Total Cost:	\$31,831.01
Payback (Months):	55
Number of Fittings:	45

Hot Water Monitoring:

Precision temperature control and monitoring with thermal flush programming. Complies with CMS mandate on Legionella.

Thermal Energy Loss Analysis:

Calculate energy loss and savings with reusable thermal jackets.



OPTIMIZE

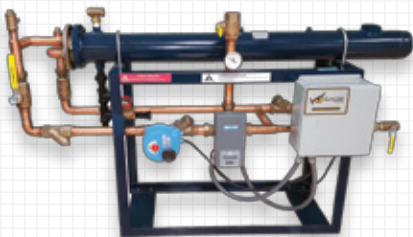


Steam Energy Optimization:

Minimize your energy losses and optimize your equipment performance with 24/7 monitoring through SAGE® by Armstrong.

Thermal Energy Optimization:

Protect your employees and provide long term energy savings with removable & reusable insulation jackets.



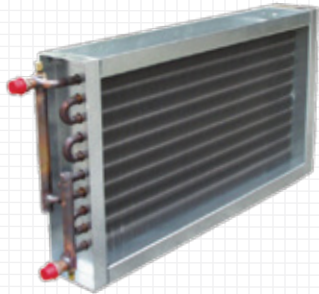
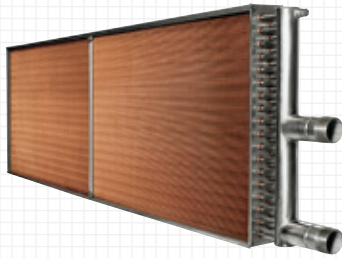
Hot Water Systems:

Customize a digital hot water generation system to meet your specific needs.



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HEAT EXCHANGE & CONDENSATE RECOVERY

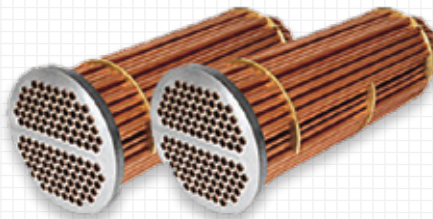


Coils

Optimize your system with custom heat transfer solutions tailored for your specific needs.

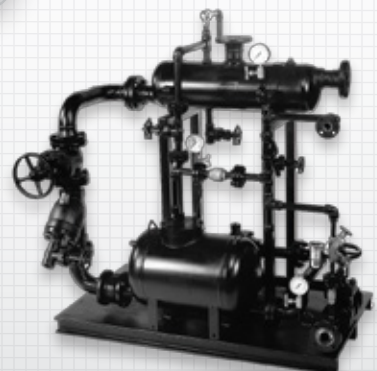


Plate & Frame Heat Exchangers

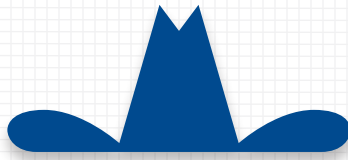


Shell and Tube bundles

Recovery systems to return your condensate efficiently.



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HATFIELD AND COMPANY

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