



ThermaXX LLC Heat Loss Analysis

Job Name **TD TRAP CASE STUDY**
 Opp Number
 Date **4/23/2014**
 Ambient Temp **100**
 Cost/MMBTU **\$31.00**

REPORT SUMMARY:	
YEARLY SAVINGS IF INSULATED:	\$9,903.14
Total Insulation Jacket Cost:	\$10,970.00
Average Payback in Months:	13.29

	Therms Saved	Total Cost	Total Therms Saved	3,194.56
Jackets	3,194.56	\$10,970.00		
CO2 Greenhouse Reduction (MTons/yr)*			17.10	
				3,098.51

*CO2 reduction of 118 pounds (0.059 Tons) for every MMBtu of natural gas saved.

Item	Location 1	Description	Make	Flange Class	Nominal Pipe Size	Operating Temp °F	SF/ component	Hrs in service/yr.	Insulation Thickness	Bare BTU/hr/sf lost	Insulated BTU/hr/sf lost	Insulated Touch Temp °F	Dollars LOST per yr. if Uninsulated	Insulation cover Cost Each	Payback in Months	Total yearly savings if insulated	Pre Therms	Post Therms
1	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	0.50	350	4.19	8760	10mm	868.00	61.61	130	\$987.33	\$900.00	11.77	\$917.25	318.49	22.61
2	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	0.75	350	5.24	8760	10mm	847.30	64.13	132	\$1,204.73	\$900.00	9.70	\$1,113.54	388.62	29.41
3	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	1.00	350	6.28	8760	10mm	828.80	66.48	133	\$1,414.11	\$950.00	8.76	\$1,300.68	456.16	36.59
4	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	0.50	350	4.19	7200	10mm	868.00	61.61	130	\$811.50	\$900.00	14.33	\$753.90	261.77	18.58
5	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	0.75	350	5.24	7200	10mm	847.30	64.13	132	\$990.19	\$900.00	11.80	\$915.24	319.42	24.18
6	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	1.00	350	6.28	7200	10mm	828.80	66.48	133	\$1,162.28	\$950.00	10.66	\$1,069.05	374.93	30.07
7	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	0.50	350	4.19	5760	10mm	868.00	61.61	130	\$649.20	\$900.00	17.91	\$603.12	209.42	14.86
8	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	0.75	350	5.24	5760	10mm	847.30	64.13	132	\$792.15	\$900.00	14.75	\$732.19	255.53	19.34
9	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	1.00	350	6.28	5760	10mm	828.80	66.48	133	\$929.82	\$950.00	13.33	\$855.24	299.94	24.06
10	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	0.50	350	4.19	4320	10mm	868.00	61.61	130	\$486.90	\$900.00	23.88	\$452.34	157.06	11.15
11	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	0.75	350	5.24	4320	10mm	847.30	64.13	132	\$594.11	\$900.00	19.67	\$549.15	191.65	14.51
12	TD Trap Case Study	TD TRAP ASSEMBLY 3FT IN/3FT OUT	Spirax Sarco	npt	1.00	350	6.28	4320	10mm	828.80	66.48	133	\$697.37	\$920.00	17.21	\$641.43	224.96	18.04
														\$10,970.00		\$9,903.14	3457.96	263.40