# Insulon Technology TDS



 $\rm T_{\rm 2}$  Mean represents the average temperature on the exterior surface of the tube.

2 in. OD 1.86 in. ID

 $T_1$  Mean represents the average temperature on the interior surface of the tube.

 $\Delta T$  Represents the difference between the mean interior temperature and the mean exterior temperature.

## **U** Value Calculator

Sample One			
T₁ Mean	100°C	U	2.1 W/m <sup>2</sup> ·K
T <sub>2</sub> Mean	44.5°C	ΔT	55.6°C
Heat Loss	11.3 W		

24 in.

#### Sample Two

T₁ Mean	200°C	U	3.1 W/m²⋅K
T <sub>2</sub> Mean	80.0°C	ΔT	120.0°C
Heat Loss	36.3 W		

### Sample Three

T₁ Mean	300°C	U	4.8 W/m²⋅K
T <sub>2</sub> Mean	134.0°C	Δт	166.0°C
Heat Loss	77.3 W		

## Sample Four

T₁ Mean	400°C	U	7.0 W/m²⋅K
T <sub>2</sub> Mean	197.0°C	Δτ	203.0°C
Heat Loss	137.3 W		

Sample Five			
T <sub>1</sub> Mean	500°C	U	10.4 W/m²·K
T <sub>2</sub> Mean	284.6°C	Δт	215.4°C
Heat Loss	217.9 W		·



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