

# Project Planning Electric Boiler and Tank Heating Systems

**1. General Information**

1.0 Quotation for company \_\_\_\_\_  
1.1 Street / P.O. Box \_\_\_\_\_  
1.2 Country/Post Code/City \_\_\_\_\_  
1.3 Phone \_\_\_\_\_  
1.4 Fax \_\_\_\_\_  
1.5 Editor \_\_\_\_\_ Dep. \_\_\_\_\_ Extension \_\_\_\_\_  
1.6 Quotation date \_\_\_\_\_  
1.7 Owner of plant \_\_\_\_\_  
1.8 Address \_\_\_\_\_  
1.9 Editor \_\_\_\_\_ Dep. \_\_\_\_\_ Extension \_\_\_\_\_

**2. Boiler/Tank Information**

2.0 Boiler/tank diameter m \_\_\_\_\_  
2.1 Boiler/tank height / -length (please attach drawings) m \_\_\_\_\_  
2.2 Boiler/tank material \_\_\_\_\_  
2.3 Boiler/tank wall thickness mm \_\_\_\_\_  
2.4 Boiler/tank inner coating \_\_\_\_\_  
2.5 Position: vertical  foots   
horizontal  plane ground   
2.6 Type of support \_\_\_\_\_  
2.7 roof: flat  cambered   
ground: flat  cambered   
2.8 If conical, cone height m \_\_\_\_\_  
2.9 Min. liquid level m \_\_\_\_\_  
Norm. liquid level m \_\_\_\_\_  
2.10 Insulation material \_\_\_\_\_  
2.11 Insulation thickness mm \_\_\_\_\_  
2.12 Coefficient of thermal conductivity of insulation W/mK \_\_\_\_\_  
**Please indicate in case of temperature rise:**  
2.13 Spec. heat of boiler/tank-material kJ/kgK \_\_\_\_\_  
2.14 Spec. weight of boiler/tank-material kg/dm<sup>3</sup> \_\_\_\_\_

**3. Product Information**

3.0	Product		_____
3.1	Medium		_____
3.2	Spec. weight	kg/m <sup>3</sup>	_____
3.3	Spec. heat	kJ/kgK	_____
3.4	Heat of fusion	J/kg	_____
3.5	Desired constant temperature of product	°C	_____
3.6	Max. ambient temperature	°C	_____
3.7	Min. ambient temperature	°C	_____
3.8	Wind speed	m/s	_____
<b>3.9</b>	<b>Temperature rise of product</b>		_____
	A. Starting temperature	°C	_____
	B. Final temperature	°C	_____
	C. Desired period of temperature rise	h	_____

**4. Electrical Data**

4.0	Existing voltage	V	_____	Hz	_____
4.1	Installation in hazardous area	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
	if yes, temperature class			T	_____
<b>4.2</b>	<b>Certificates and Approvals</b>				
	VDE		_____		
	PTB		_____		
	TÜV		_____		
	Others		_____		

**5. Temperature Limiting Values**

5.0	Max. temperature of insulation	°C	_____
5.1	Max. temperature of boiler/tank	°C	_____
5.2	Max. temperature of coating	°C	_____
5.3	Max. temperature of product	°C	_____
5.4	Will the boiler/tank be flushed?		
	If yes, at which temperature	°C	_____