

In order to start design the project, please provide all initial required data.

## Pipeline data

1. **Operation voltage:** \_\_\_\_\_ V
2. **Pipe material:**  
Plastic  
Metal
3. **Pipe diameter without insulation:** \_\_\_\_\_ mm
4. **Insulation thickness:** \_\_\_\_\_ mm
5. **Coecient of thermal conductivity of insulation:** \_\_\_\_\_ W/(m·°C)
6. **Total length of pipeline:** \_\_\_\_\_ m  
*\* Or send the drawings of all pipelines.*
7. **Outside temperature:** \_\_\_\_\_ °C
8. **How many special equipment on the pipe:**  
Elbows: \_\_\_\_\_  
Valves: \_\_\_\_\_  
Flanges: \_\_\_\_\_  
Pumps: \_\_\_\_\_
9. **Type of liquid in the pipe:** \_\_\_\_\_
10. **Initial liquid temperature:** \_\_\_\_\_ °C
11. **Final liquid temperature:** \_\_\_\_\_ °C
12. **Steaming temperature:** \_\_\_\_\_ °C
13. **Density of pipe material:** \_\_\_\_\_ kg/m<sup>3</sup>
14. **Specic heat capacity of pipe material:** \_\_\_\_\_ kJ/(kg·°C)
15. **Density of liquid:** \_\_\_\_\_ kg/m<sup>3</sup>
16. **Specic heat capacity of liquid:** \_\_\_\_\_ kJ/(kg·°C)
17. **Desired heating time:** \_\_\_\_\_ h
18. **Desired heating elements:**  
Resistive cables: \_\_\_\_\_  
Self-limiting cables: \_\_\_\_\_
19. **Control system:**  
DEVlreg™ 130 / ECtemp 130  
DEVlreg™ 330 (5 - 45 °C) / ECtemp 330 (+5 - +45°C)  
DEVlreg™ 330 (-10 - +10 °C) / ECtemp 330 (-10 - +10°C)  
DEVlreg™ 330 (60 -160 °C)  
DEVlreg™ 316 / ECtemp 316  
DEVlreg™ 610 / ECtemp 610  
DEVlreg™ Multi
20. **Comments and Special Remarks:**