Maxflex V.52.01
Insulation Thickness Calculation Program

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Maxflex V.52.01

How to setup Maxflex V.52.01(CD Setup)

1. Insert Maxflex V.52.01 CD Disk into CD Drive and double click at **SetUp_Conduit.exe** file
2. Click on **Setup** button
3. Click Ok button till the installation process completed.
4. At this time. Maxflex V.52.01 has been installed. Go to **"Start"** button of Window taskbar, and then select **" All Program"**, and then click on the menu item **"Maxflex V.52.01"** or create short cut for Maxflex V.52.01 on desktop

Insulation Thickness Calculation Program

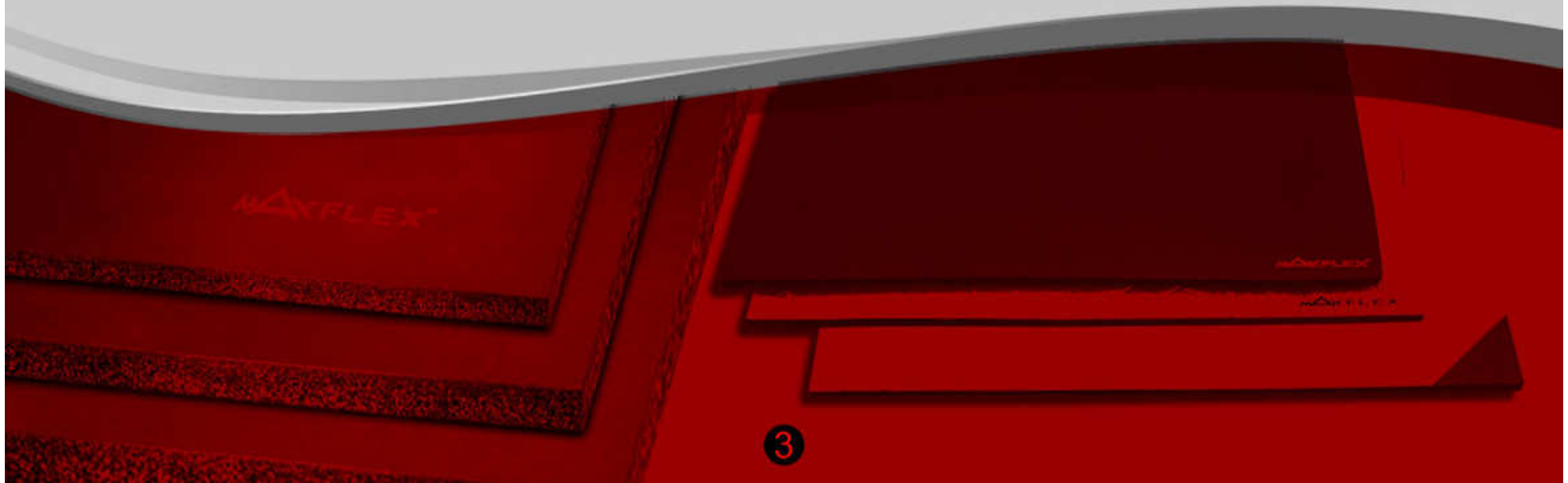
Objectives of Maxflex V.52.01 software.

1. Calculate Insulation Thickness for condensation control.
2. Calculate Surface Temperature of Insulation at specific condition.
3. Calculate temperature dropped along pipe and Holding time in storage tank.
4. Calculation for Multi-Layer of Insulation thickness.
5. Heat loss and Thickness Calculation for Hot work tank and pipe system.

Condensation Control Condition.

Calculation in based on heat transfer at steady state where heat transfer from surroundings to the insulation surface is equals to the heat transfer from surface to fluid in the pipe.

At specific humidity and Dry bulb temperature to prevent condensation, the surface temperature must be at least 1 °C above dew point temperature.



Example for calculate the condensation control.

Parameter :

Operating temperature (°C)	5
Relative Humidity (%)	70
Ambient Temperature (°C)	30
Pipe Size (mm)	54.1

Result :

Dew Point (°C)	24.1
Desingned Surface temperature (°C)	25.1
Calculate Insulation Thickness (mm)	12.27
Recommend Thickness (mm)	13
Heat Loss (W/m)	-12.11

Remark :

1. The Graph will show in calculation page and need to select insulation type and Cladding before click calculation button
2. Click "Excel" for generate calculation data to excel file
3. Click "Print" for print out to printer