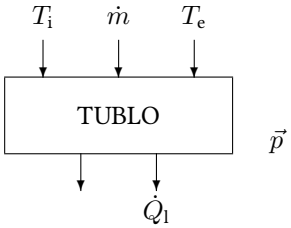
Block TUBLO

The TUBLO block calculates the heat losses through tubes using the radial heat loss coefficient and the total tube length.





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Inputs

1 Tube inlet temperature / °C
2 Fluid mass flow / kg s^{-1}
3 Adjacent air temperature / °C

Parameters

1 Radial heat loss coefficient of the isolated tube / W m^{-2} K^{-1}
2 Increase of heat losses through ageing and imperfect isolation / %
3 Heat capacity of the fluid / kJ kg^{-1} K^{-1}
4 Total length of tubes / m

Outputs

1 Tube outlet temperature / °C
2 Heat losses of the tube / kW

Strings

None