Block TCSTOR

The TCSTOR block...



DUMMY

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Inputs

1 Input temperature from collector(-field) Tci
2 Mass flow from collector(-field) mc
3 Input temperature from load TLi
4 Mass flow from load ml
5 Ambient temperature Ta
6 Time t

Outputs

1 Output temperature to collector(-field) Tco
2 Mass flow to collector(-field) mc
3 Output temperature to load TL0
4 Mass flow to load ml
5 Speicherinhalt
6 ???

Parameters

1 Tank volume V
2 Number of temperature nodes N
3 Tank diameter d

4	Specfic heat of oil c_{p}
5	Density of oil ρ
6	Loss coefficient U
7	Number of iterations it
8	Temperature of 'empty' tank Te

Strings

None