

Block TCSTOR

The TCSTOR block...



DUMMY

Name	TCSTOR
Function	pp0008
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Inputs

- 1 Input temperature from collector(-field) T_{ci}
- 2 Mass flow from collector(-field) $\dot{m}_c$
- 3 Input temperature from load T_{Li}
- 4 Mass flow from load $\dot{m}_l$
- 5 Ambient temperature T_a
- 6 Time t

Outputs

- 1 Output temperature to collector(-field) T_{co}
- 2 Mass flow to collector(-field) $\dot{m}_c$
- 3 Output temperature to load T_{Lo}
- 4 Mass flow to load $\dot{m}_l$
- 5 Speicherinhalt
- 6 ???

Parameters

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

- 4 Specific heat of oil c_p
- 5 Density of oil ρ
- 6 Loss coefficient U
- 7 Number of iterations it
- 8 Temperature of 'empty' tank T_e

Strings

None
