Block RECEIV

The RECEIV block...

DUMMY



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Inputs

1. Concentrated radiation / $W\,m^{-2}$
2. Fluid inlet temperature / °C
3. Fluid mass / $kg\,s^{-1}$
4. Ambient temperature / °C
5. Time / s

Outputs

1. Fluid outlet temperature / °C
2. Fluid mass flow / $kg\,s^{-1}$
3. Chassis temperature / °C

Parameters

1. Area of receiver / m^2
2. Fluid heat capacity / $kJ\,kg^{-1}\,K^{-1}$
3. Convection loss coefficient / $W\,m^{-2}\,K^{-1}$
4. Emissivity of receiver
5. Transmission of cover
6. Absorption of receiver
7. Number of iterations

8 Product of chassis / $\mathrm{J\,K^{-1}}$
9 Heat transport coefficient / $\mathrm{W\,K^{-1}\,s^{-1}}$

Strings

None