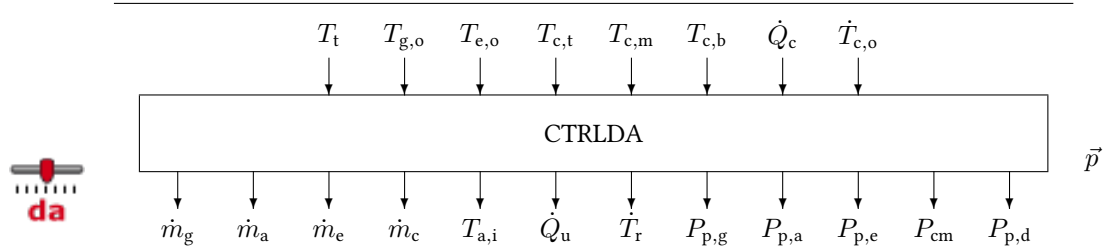


Block CTRLDA

The CTRLDA block simulates a real controller of a solar driven double effect absorption cooling machine.



Name	CTRLDA
Function	st0040
Inputs	8
Outputs	12
Parameters	14
Strings	0
Group	S

Inputs

- 1 Hot water storage temperature at top node / °C
- 2 Generator outlet temperature / °C
- 3 Evaporator outlet temperature / °C
- 4 Cold water temperature at top node / °C
- 5 Cold water temperature at middle node / °C
- 6 Cold water temperature at bottom node / °C
- 7 Cooling load / kW
- 8 Outlet temperature cooling tower / °C

Outputs

- 1 Controlled generator mass flow / kg s^{-1}
- 2 Controlled absorber mass flow / kg s^{-1}
- 3 Controlled evaporator mass flow / kg s^{-1}
- 4 Controlled mass flow cold distribution taken from cold storage / kg s^{-1}
- 5 Contolled absorber inlet temperature / °C
- 6 Not delivered cooling power / kW
- 7 Return temperature from load / °C
- 8 Electricity consumption generator pump / kW

- 9 Electricity consumption absorber pump / kW
- 10 Electricity consumption evaporator pump / kW
- 11 Electricity consumption ACM / kW
- 12 Electricity consumption cold distribution pump / kW

Parameters

- 1 Generator mass flow / kg s^{-1}
- 2 Absorber mass flow / kg s^{-1}
- 3 Evaporator mass flow / kg s^{-1}
- 4 Minimum generator inlet temperature / $^{\circ}\text{C}$
- 5 Generator minimum start up temperature / $^{\circ}\text{C}$
- 6 Absorber inlet set temperature / $^{\circ}\text{C}$
- 7 Cold distribution, supply temperature / $^{\circ}\text{C}$
- 8 Cold distribution, return temperature / $^{\circ}\text{C}$
- 9 Lower limit evaporator outlet temperature / $^{\circ}\text{C}$
- 10 Electricity consumption generator pump / kW
- 11 Electricity consumption absorber pump / kW
- 12 Electricity consumption evaporator pump / kW
- 13 Electricity consumption ACM / kW
- 14 Electricity consumption cold distribution pump / kW

Strings

None
