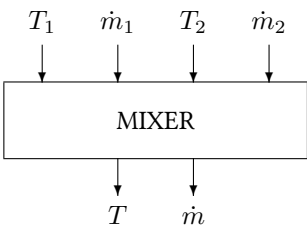


Block MIXER

The MIXER block simulates a mixing valve for two fluids of different temperature and mass flow but with the same specific heat capacity.



Name	MIXER
Function	st0034
Inputs	4
Outputs	2
Parameters	0
Strings	0
Group	S

Inputs

- 1 Temperature fluid 1 / °C
- 2 Mass flow fluid 1 / kg s⁻¹
- 3 Temperature fluid 2 / °C
- 4 Mass flow fluid 2 / kg s⁻¹

Outputs

- 1 Mixed temperature / °C
- 2 Total mass flow / kg s⁻¹

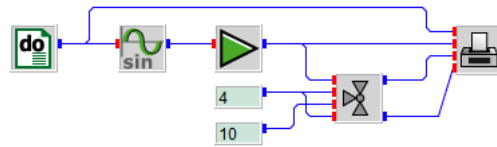
Parameters

None

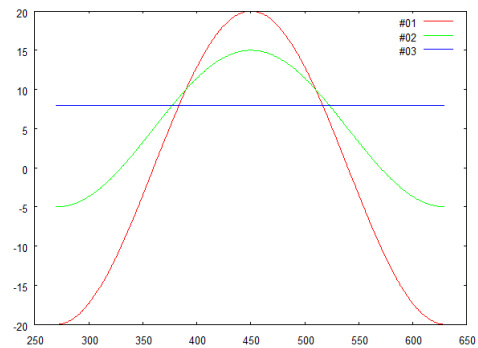
Strings

None

mixer.vseit



Two fluids at a constant mass flow of 4 kg/s each are mixed by a [MIXER](#) block. While the one is held constant at 10 °C the other follows a sine wave between -20 and $+20$ °C. The result can be observed by the [PLOT](#) block.



The total mass flow is 8 kg/s, of course.