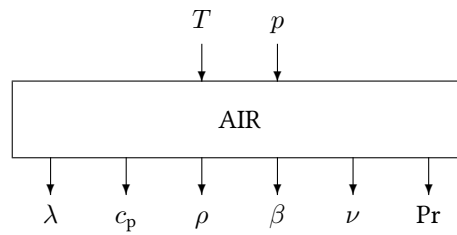


Block AIR

The AIR block handles properties of air as a function of temperature and pressure.

air



Name	AIR
Function	st0012
Inputs	2
Outputs	6
Parameters	0
Strings	0
Group	S

Inputs

- 1 Temperature T / °C
- 2 Pressure p / Pa

Outputs

- 1 Heat conductivity λ / W m⁻¹ K⁻¹
- 2 Specific heat capacity c_p / J kg⁻¹ K⁻¹
- 3 Density ρ / kg m⁻³
- 4 Heat expansion coefficient β / K⁻¹
- 5 Viscosity ν / m² s⁻¹
- 6 Prandtl number Pr

Parameters

None

Strings

None

air.vseit



Two **CONST** blocks provide a temperature of 20 °C and a pressure of 10^5 Pa. The **AIR** block calculates the properties which are displayed by a **SCREEN** block.

0.02512 1007.00000 1.18817 0.00341 0.15175E-04 0.72288