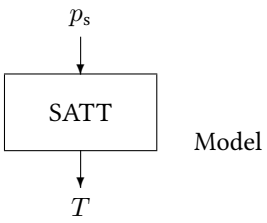
Block SATT

The SATT block returns water vapour saturation temperature (dew point temperature) as a function of pressure.





Model

Name	SATT
Function	st0009
Inputs	1
Outputs	1
Parameters	0 . . . [1]
Strings	0
Group	S

Inputs

1 Water vapour saturation pressure p_s / Pa

Outputs

1 Dew point temperature T / °C

Parameters

1 Mode

0 Y. O. Devres
Psychrometric properties of humid air: Calculation procedures
in: Applied Energy 48 1994 (accuracy: ± 5 %)

Strings

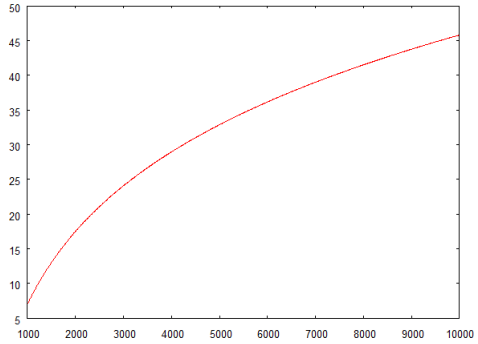
None

satt.vseit



The saturation temperature of water vapor is calculated after an approximation by Devres. The required water vapor saturation pressure is varied between 1000 and 10 000 Pa in steps of 10 Pa by a DO block.

A PLOT block shows the result.



See also Block SATP.