Psychrometric diagram

Thermodynamic process





Usual form of this diagram

The fog range above the saturation line, isn't used



Red axis: specific enthalpy

Blue: one of the enthalpy lines

Values written at the saturation line and right below too

h=61 kJ/kg







Red axis: the dry temperature values

Blue line: the 20°C isotherm

Dotted line: a 20 °C elongation of the fog isotherm

dry bulb temperature

















Reading the

Third: find their crossing. This is the real state of the air



The relative humidity is 56% You can see the 50 and the 60 values close to the arrow tip







Reading the





You can see on the vertical axis: humidity ratio (mixing ratio) 10 g/kg



You can see on the vertical axis: **Dew point** temperature 14°C



You can see on the vertical axis: Partial pressure 12 mmHg=1670 Pa





DBT = dry bulb temperature