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## Mollier Chart For Thermal Engineering

The Mollier diagram, also called the enthalpy (h) – entropy (s) chart or h-s chart, is a graphical representation of thermodynamic properties of materials. In general, it is a relationship between enthalpy (measure of the energy of a thermodynamic system), air temperature, and moisture content.

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An enthalpy-entropy chart, also known as the H-S chart or Mollier diagram, plots the total heat against entropy, describing the enthalpy of a thermodynamic system. A typical chart covers a pressure range of 0.01-1000 bar, and temperatures up to 800 degrees Celsius. It shows enthalpy  $H$  in terms of internal energy  $U$ , pressure  $p$  and volume  $V$  using the relationship  $H = U + pV$ .

## **Enthalpy-entropy chart - Wikipedia**

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The state of air with dry bulb temperature 21 °C and relative humidity 50% is indicated in the Mollier chart below: From the Mollier chart the enthalpy of the moist air is approximately 40 kJ/kg. The wet bulb temperature is approximately 14.5 °C. The specific humidity is approximately 0.0076 kg/kg. Alternatively - if the dry bulb temperature is 19 °C and the wet bulb temperature is 12 °C - the state of the air can be visualized in the Mollier chart like:

## **Mollier Diagram - Engineering ToolBox**

Figure 1.9(a) shows a Mollier diagram representing the expansion process through an adiabatic

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turbine. Line 1-2 represents the actual expansion and line 1-2 s the ideal or reversible expansion. The fluid velocities at entry to and exit from a turbine may be quite high and the corresponding kinetic energies significant.

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The enthalpy- entropy charts in Appendix B are Mollier Diagrams. It is used commonly in the design and analysis associated with power plants, steam turbines, compressors, and refrigeration systems. Mollier diagram is available in two basic versions: The SI/Metric Unit version and the US/Imperial Unit version.

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Figure A-9 T-s diagram for water Figure A-10 Mollier diagram for water ... Originally published in Tables of Thermal Properties of Gases, NBS Circular 564, 1955. 910 PROPERTY TABLES AND CHARTS cen2932x\_ch18-ap01\_p907-956.qxd 12/18/09 10:05 AM Page 910. 911 APPENDIX 1 TABLE A-2 Ideal-gas specific heats of various common gases (Concluded)

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