

9. PSYCHROMETRIC CHARTS

A psychrometric chart graphically represents the thermodynamic properties of moist air.

The choice of coordinates for a psychrometric chart is arbitrary. A chart with coordinates of enthalpy and humidity ratio provides convenient graphical solutions of many moist air problems with a minimum of thermodynamic approximations. ASHRAE developed five such psychrometric charts. Chart 1 is shown as Figure 1; the others may be obtained through ASHRAE.

Charts 1, 2, and 3 are for sea-level pressure. Chart 4 is for 5000 ft altitude (24.89 in. Hg), and Chart 5 is for 7500 ft altitude (22.65 in. Hg). All charts use oblique-angle coordinates of enthalpy and humidity ratio, and are consistent with the data of Table 2 and the properties computation methods of Hyland and Wexler (1983a) and ASHRAE research project RP-1483. Palmatier (1963) describes the geometry of chart construction applying specifically to Charts 1 and 4.

The dry-bulb temperature ranges covered by the charts are

Charts 1, 4, 5	Normal temperature	32 to 120°F
Chart 2	Low temperature	-40 to 50°F
Chart 3	High temperature	60 to 250°F

Charts 6 to 9 are for 400 to 600°F and cover altitudes sea level, 2500 ft, 5000 ft, and 7500 ft. They were produced by Nilsson and Sauer (2002) and are available as a download with Gatley (2013).

Psychrometric properties or charts for other barometric pressures can be derived by interpolation. Sufficiently exact values for most purposes can be derived by methods described in the section on Perfect Gas Relationships for Dry and Moist Air. Constructing charts for altitude conditions has been discussed by Haines (1961), Karig (1946), and Rohsenow (1946).

Comparison of charts 1 and 4 by overlay reveals the following:

- The dry-bulb lines coincide.
- Wet-bulb lines for a given temperature originate at the intersections of the corresponding dry-bulb line and the two saturation curves, and they have the same slope.
- Humidity ratio and enthalpy for a given dry- and wet-bulb temperature increase with altitude, but there is little change in relative humidity.
- Volume changes rapidly; for a given dry-bulb and humidity ratio, it is practically inversely proportional to barometric pressure.

The following table compares properties at sea level (chart 1) and 5000 ft (chart 4):

Chart No.	db	wb	h	hF	rh	v
1	100	81	44.6	0.0186	45	14.5
4	100	81	49.8	0.0234	46	17.6

Figure 1 shows humidity ratio lines (horizontal) for the range from 0 (dry air) to 0.03 lb_w/lb_{da}. Enthalpy lines are oblique lines across the chart precisely parallel to each other.

Dry-bulb temperature lines are straight, not precisely parallel to each other, and inclined slightly from the vertical position. Thermodynamic wet-bulb temperature lines are oblique and in a slightly different direction from enthalpy lines. They are straight but are not precisely parallel to each other.

Relative humidity lines are shown in intervals of 10%. The saturation curve is the line of 100% rh, whereas the horizontal line for hF = 0 (dry air) is the line for 0% rh.

Specific volume lines are straight but are not precisely parallel to each other.

A narrow region above the saturation curve has been developed for fog conditions of moist air. This two-phase region represents a mechanical mixture of saturated moist air and liquid water, with the

two components in thermal equilibrium. Isothermal lines in the fog region coincide with extensions of thermodynamic wet-bulb temperature lines. If required, the fog region can be further expanded by extending humidity ratio, enthalpy, and thermodynamic wet-bulb temperature lines.

The protractor to the left of the chart shows two scales: one for sensible/total heat ratio, and one for the ratio of enthalpy difference to humidity ratio difference. The protractor is used to establish the direction of a condition line on the psychrometric chart.

Example 1 shows use of the ASHRAE psychrometric chart to determine moist air properties.

Example 1. Moist air exists at 100°F dry-bulb temperature, 65°F thermodynamic wet-bulb temperature, and 14.696 psia (29.921 in. Hg) pressure. Determine the humidity ratio, enthalpy, dew-point temperature, relative humidity, and specific volume.

Solution: Locate state point on chart 1 (Figure 1) at the intersection of 100°F dry-bulb temperature and 65°F thermodynamic wet-bulb temperature lines. Read **humidity ratio** $W = 0.00523$ lb_w/lb_{da}.

The **enthalpy** can be found by using two triangles to draw a line parallel to the nearest enthalpy line (30 Btu/lb_{da}) through the state point to the nearest edge scale. Read $h = 29.80$ Btu/lb_{da}.

Dew-point temperature can be read at the intersection of $W = 0.00523$ lb_w/lb_{da} with the saturation curve. Thus, $t_d = 40^\circ\text{F}$.

Relative humidity ϕ can be estimated directly. Thus, $\phi = 13\%$.

Specific volume can be found by linear interpolation between the volume lines for 14.0 and 14.5 lb³/lb_{da}. Thus, $v = 14.22$ ft³/lb_{da}.

10. TYPICAL AIR-CONDITIONING PROCESSES

The ASHRAE psychrometric chart can be used to solve numerous process problems with moist air. Its use is best explained through illustrative examples. In each of the following examples, the process takes place at a constant total pressure of 14.696 psia.

Moist Air Sensible Heating or Cooling

Adding heat alone to or removing heat alone from moist air is represented by a horizontal line on the ASHRAE chart, because the humidity ratio remains unchanged.

Figure 2 shows a device that adds heat to a stream of moist air. For steady-flow conditions, the required rate of heat addition is

$$\dot{Q}_2 = \dot{m}_{da} (h_2 - h_1) \quad (41)$$

Example 2. Moist air, saturated at 35°F, enters a heating coil at a rate of 20,000 cfm. Air leaves the coil at 100°F. Find the required rate of heat addition.

Solution: Figure 3 schematically shows the solution. State 1 is located on the saturation curve at 35°F. Thus, $h_1 = 13.01$ Btu/lb_{da}, $W_1 = 0.00428$ lb_w/lb_{da}, and $v_1 = 12.55$ ft³/lb_{da}. State 2 is located at

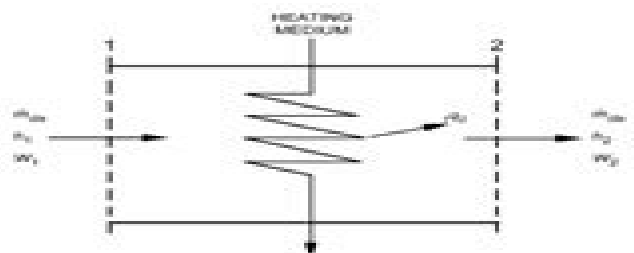


Fig. 2 Schematic of Device for Heating Moist Air

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Table of Contents Ashrae H Fundamentals Chapter 35

1. Understanding the eBook Ashrae H Fundamentals Chapter 35
 - The Rise of Digital Reading Ashrae H Fundamentals Chapter 35
 - Advantages of eBooks Over Traditional Books
2. Identifying Ashrae H Fundamentals Chapter 35
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ashrae H Fundamentals Chapter 35
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ashrae H Fundamentals Chapter 35
 - Personalized Recommendations
 - Ashrae H Fundamentals Chapter 35 User Reviews and Ratings
 - Ashrae H Fundamentals Chapter 35 and Bestseller Lists
5. Accessing Ashrae H Fundamentals Chapter 35 Free and Paid eBooks
 - Ashrae H Fundamentals Chapter 35 Public Domain eBooks
 - Ashrae H Fundamentals Chapter 35 eBook Subscription Services
 - Ashrae H Fundamentals Chapter 35 Budget-Friendly Options

6. Navigating Ashrae H Fundamentals Chapter 35 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ashrae H Fundamentals Chapter 35 Compatibility with Devices
 - Ashrae H Fundamentals Chapter 35 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ashrae H Fundamentals Chapter 35
 - Highlighting and Note-Taking Ashrae H Fundamentals Chapter 35
 - Interactive Elements Ashrae H Fundamentals Chapter 35
8. Staying Engaged with Ashrae H Fundamentals Chapter 35
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ashrae H Fundamentals Chapter 35
9. Balancing eBooks and Physical Books Ashrae H Fundamentals Chapter 35
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ashrae H Fundamentals Chapter 35
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ashrae H Fundamentals Chapter 35
 - Setting Reading Goals Ashrae H Fundamentals Chapter 35
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ashrae H Fundamentals Chapter 35
 - Fact-Checking eBook Content of Ashrae H Fundamentals Chapter 35
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
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