

from its present temperature by -20 °C to achieve saturated conditions at the dew-point temperature. (Hint: The present temperature must cool down to the dew-point temperature for its water content to equal the air's water vapor capacity.)

6. Using the same air mass from Question 3, assume that it warms to 25°C on a hot afternoon and maintains the same specific humidity of 1.8 g/kg. What is the relative humidity of the air mass at this time? 19%. (Hint: Find the maximum specific humidity for air at 25°C.) Show your work:

$$RH = \frac{3.85 \text{ g/kg}}{20 \text{ g/kg}} \times 100 = 19\%$$

6. Assuming that a different air mass has a relative humidity of 40% at a temperature of 25°C, what is the actual humidity content, expressed as g/kg? 1.2 g/kg. Thus, by knowing relative humidity and air temperature, relative humidity provides us with an indirect method of determining the actual water vapor content of the air.

7. Compare an air mass over the hot, arid Sahara with an average specific humidity of 12 g/kg, to an air mass in the moist midlatitudes with an average of 6 g/kg specific humidity.

a) What is the relative humidity of a 40°C air mass with 12 g/kg specific humidity? 25%
 b) What is the relative humidity of a 10°C air mass with 6 g/kg specific humidity? 71%

8. Questions 8 through 11 show how relative humidity changes as cold, dry outside air is brought inside and warmed. Figure 12.1 shows that as air warms, the maximum specific humidity increases. Therefore, if the air warms but the amount of water vapor stays the same, its relative humidity decreases. Because of this, many people who live in climates with cold winters use humidifiers in their homes to make the air more comfortable.

a) After looking at Figure 12.1, given outside conditions of 0°C and a specific humidity of 1.8 g/kg, what is the relative humidity of the atmosphere?

$$\frac{1.8 \text{ g/kg}}{3.8 \text{ g/kg}} \times 100 = 47\% \quad | 61\%$$

b) What is the maximum specific humidity of air at 21°C?
 c) What would the relative humidity of that air be if you brought it inside your house and warmed the air to 21°C?

9. Building engineers recommend that for optimal comfort, inside air should be 21°C, with 50% relative humidity.

a) What is the specific humidity of air at 21°C with 50% relative humidity?
 b) How many grams of water vapor per kilogram of air would you need to add to bring the humidity up to 50% at 21°C, if the air initially had 1.8 g/kg of water vapor?

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M Woodhall

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