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This online program calculates the typical properties of a point of a psychometric state. It will also provide a number of other thermodynamic properties not found on a typical psychometric diagram. To calculate properties, the user must enter either the height of the site (from which the average barometric pressure is calculated) or the actual barometric pressure. The user then enters the desired temperature of the dry lamp and one of the three wets: the relative humidity, the temperature of the wet lamp or the temperature of the dew point. At the end of the calculation, the user has the opportunity to switch from English to a system of SI units (or vice versa). Total Atmospheric Pressure Values: Sea Level Pressure - 14.7 psia / 101.3 kPa / 29.92 in Hg / 760 mmHg. (default when choosing Actual Pressure) Average barometric pressure in Daytona, OH - 14.18 psia / 97.7 kPa / 28.86 in Hg / 733 mm Hg Height site for Dayton, Ohio - 997 feet amsl (306 m) based on ASHRAE HOF. 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To calculate properties, the user must enter either the height of the site (from which the average barometric pressure is calculated) or the actual barometric pressure. The user then enters the desired temperature of the dry lamp and one of the three wets: the relative humidity, the temperature of the wet lamp or the temperature of the dew point. At the end of the calculation, the user has the opportunity to switch from English to a system of SI units (or vice versa). Total Atmospheric Pressure Values: Sea Level Pressure - 14.7 psia / 101.3 kPa / 29.92 in Hg / 760 mmHg. (default when choosing Actual Pressure) Average barometric pressure in Daytona, OH - 14.18 psia / 97.7 kPa / 28.86 in Hg / 733 mm Hg Height site for Dayton, Ohio - 997 feet amsl (306 m) based on ASHRAE HOF. (Default when choosing to lift) The user can override by default by selecting and entering a new value. This program is available for your use for free. However, no guarantee expressed or implied is given in relation to the accuracy or sufficiency of the information provided in the present, and the user must take all risks and responsibilities in relation to their use. Image copyright © 2006-2019 By Russell K. Marks, P.E. and ASHRAE Dayton Chapter. All rights are reserved. No part of this web page and related script can be produced, transmitted, transcribed, stored in the search system or translated into any language in any form without the author's explicit written consent. You read the free preview page 2 not displayed in this preview. Pound of wet air pound-da-pound of dry air lbf - pound of psia power - pound of power per square inch of absolute cf - cubic foot of wet air gr - grain (7000 grains and 1 pound of mass) oR - absolute temperature (Rankine degrees) This online program calculates the typical psychometric properties of the point of the state. 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