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# Psychrometry Formulas

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# List of 45 Psychrometry Formulas

## Psychrometry

### 1) Wet Bulb Depression

$$\text{fx } \text{WBD} = t_{\text{db}} - T_{\text{w}}$$

[Open Calculator !\[\]\(a870788d6ed9b8fd294b7654a8c8526b\_img.jpg\)](#)

$$\text{ex } 96 = 110 - 14$$

## By-Pass Factor of Heating and Cooling coil

### 2) By-Pass Factor of Cooling Coil

$$\text{fx } \text{BPF} = \exp\left(-\frac{U \cdot A_c}{m_{\text{air}} \cdot c}\right)$$

[Open Calculator !\[\]\(6a9b39b98eb945faa14c645ec99e4eaa\_img.jpg\)](#)

$$\text{ex } 0.88032 = \exp\left(-\frac{50\text{W}/\text{m}^2\cdot\text{K} \cdot 64\text{m}^2}{6\text{kg} \cdot 4.184\text{kJ}/\text{kg}\cdot\text{K}}\right)$$

### 3) By-Pass Factor of Heating Coil

$$\text{fx } \text{BPF} = \exp\left(-\frac{U \cdot A_c}{m_{\text{air}} \cdot c}\right)$$

[Open Calculator !\[\]\(f1c5da15572e3e09d343161be98f508d\_img.jpg\)](#)

$$\text{ex } 0.88032 = \exp\left(-\frac{50\text{W}/\text{m}^2\cdot\text{K} \cdot 64\text{m}^2}{6\text{kg} \cdot 4.184\text{kJ}/\text{kg}\cdot\text{K}}\right)$$



#### 4) LMTD of Coil given By-Pass Factor

$$\text{fx } \Delta T_m = \frac{T_f - T_i}{\ln\left(\frac{1}{\text{BPF}}\right)}$$

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235\_img.jpg\)](#)

$$\text{ex } 1476.751 = \frac{345\text{K} - 105\text{K}}{\ln\left(\frac{1}{0.85}\right)}$$

#### 5) Mass of Air Passing over Coil given By-Pass Factor

$$\text{fx } m_{\text{air}} = -\left(\frac{U \cdot A_c}{c \cdot \ln(\text{BPF})}\right)$$

[Open Calculator !\[\]\(3e2231b1ad3ca8da8658228c00dd08e0\_img.jpg\)](#)

$$\text{ex } 4.706026\text{kg} = -\left(\frac{50\text{W}/\text{m}^2 \cdot \text{K} \cdot 64\text{m}^2}{4.184\text{kJ}/\text{kg} \cdot \text{K} \cdot \ln(0.85)}\right)$$

#### 6) Overall Heat Transfer Coefficient given By-Pass Factor

$$\text{fx } U = -\frac{\ln(\text{BPF}) \cdot m_{\text{air}} \cdot c}{A_c}$$

[Open Calculator !\[\]\(0d5ec72f61334709c3fc9450209b754f\_img.jpg\)](#)

$$\text{ex } 63.74805\text{W}/\text{m}^2 \cdot \text{K} = -\frac{\ln(0.85) \cdot 6\text{kg} \cdot 4.184\text{kJ}/\text{kg} \cdot \text{K}}{64\text{m}^2}$$



## 7) Sensible Heat given Out by Coil using By-Pass Factor

$$\text{fx } SH = \frac{U \cdot A_c \cdot (T_f - T_i)}{\ln\left(\frac{1}{\text{BPF}}\right)}$$

[Open Calculator !\[\]\(e78f798d4ea5c530c9db49e7d26e6b95\_img.jpg\)](#)

$$\text{ex } 4.7E^6 J = \frac{50W/m^2 \cdot K \cdot 64m^2 \cdot (345K - 105K)}{\ln\left(\frac{1}{0.85}\right)}$$

## 8) Surface Area of Coil given By-Pass Factor

$$\text{fx } A_c = - \frac{\ln(\text{BPF}) \cdot m_{\text{air}} \cdot c}{U}$$

[Open Calculator !\[\]\(05be7c7a8995decd503647c99211f7c2\_img.jpg\)](#)

$$\text{ex } 81.5975m^2 = - \frac{\ln(0.85) \cdot 6kg \cdot 4.184kJ/kg \cdot K}{50W/m^2 \cdot K}$$

## Degree of Saturation

### 9) Degree of Saturation given Partial Pressure of Water Vapour

$$\text{fx } S = \frac{p_v}{p_s} \cdot \frac{1 - \frac{p_s}{p_t}}{1 - \frac{p_v}{p_t}}$$

[Open Calculator !\[\]\(626ce8ac21792b9405bfddfea8e0c96a\_img.jpg\)](#)

$$\text{ex } 0.148352 = \frac{60\text{Bar}}{91\text{Bar}} \cdot \frac{1 - \frac{91\text{Bar}}{100\text{Bar}}}{1 - \frac{60\text{Bar}}{100\text{Bar}}}$$



## 10) Degree of Saturation given Relative Humidity

[Open Calculator !\[\]\(bd1a142de767a21e5362c595f844a4ff\_img.jpg\)](#)

$$\text{fx } S = \Phi \cdot \frac{1 - \frac{p_s}{p_t}}{1 - \frac{\Phi \cdot p_s}{p_t}}$$

$$\text{ex } 0.126405 = 0.616523 \cdot \frac{1 - \frac{91\text{Bar}}{100\text{Bar}}}{1 - \frac{0.616523 \cdot 91\text{Bar}}{100\text{Bar}}}$$

## 11) Degree of Saturation given Specific Humidity

[Open Calculator !\[\]\(830769b31eeeaca920791081939ff8ba\_img.jpg\)](#)

$$\text{fx } S = \frac{\omega}{\omega_s}$$

$$\text{ex } 0.263158 = \frac{0.25}{0.95}$$

## 12) Partial Pressure of Water Vapor in Saturated Air given Degree of Saturation

[Open Calculator !\[\]\(47734e4656765d20df4fdbd5b7aff048\_img.jpg\)](#)

$$\text{fx } p_s = \left( \frac{1}{p_t} + \frac{S}{p_v} \cdot \left( 1 - \frac{p_v}{p_t} \right) \right)^{-1}$$

$$\text{ex } 88.23529\text{Bar} = \left( \frac{1}{100\text{Bar}} + \frac{0.2}{60\text{Bar}} \cdot \left( 1 - \frac{60\text{Bar}}{100\text{Bar}} \right) \right)^{-1}$$



### 13) Total Pressure of Moist Air given Degree of Saturation

$$fx \quad p_t = \frac{(S - 1) \cdot p_s \cdot p_v}{S \cdot p_s - p_v}$$

[Open Calculator !\[\]\(d3fb9f94af8b26d1c844efa9a98805b0\_img.jpg\)](#)

$$ex \quad 104.4976\text{Bar} = \frac{(0.2 - 1) \cdot 91\text{Bar} \cdot 60\text{Bar}}{0.2 \cdot 91\text{Bar} - 60\text{Bar}}$$

### Efficiency of Heating and Cooling coil

#### 14) Efficiency of Cooling Coil

$$fx \quad \eta = \frac{T_i - T_f}{T_i - T_c}$$

[Open Calculator !\[\]\(73002692dd5e7a64e60946be3158e719\_img.jpg\)](#)

$$ex \quad 16 = \frac{105\text{K} - 345\text{K}}{105\text{K} - 120\text{K}}$$

#### 15) Efficiency of Cooling Coil given By-pass Factor

$$fx \quad \eta = 1 - \text{BPF}$$

[Open Calculator !\[\]\(104fbf564e2e5a8fbd84f31656d114c7\_img.jpg\)](#)

$$ex \quad 0.15 = 1 - 0.85$$

#### 16) Efficiency of Heating Coil

$$fx \quad \eta = \frac{T_f - T_i}{T_c - T_i}$$

[Open Calculator !\[\]\(21226b58c700e5231ab98d27101bac58\_img.jpg\)](#)

$$ex \quad 16 = \frac{345\text{K} - 105\text{K}}{120\text{K} - 105\text{K}}$$



## 17) Efficiency of Heating Coil given By-pass Factor

$$\text{fx } \eta = 1 - \text{BPF}$$

[Open Calculator !\[\]\(9dfdaff1d86ba3c1f8353b4d1b61b8c5\_img.jpg\)](#)

$$\text{ex } 0.15 = 1 - 0.85$$

## Enthalpy of Moist air

### 18) Dry Bulb Temperature given Enthalpy of Moist Air

$$\text{fx } t_{\text{db}} = \frac{h - 2500 \cdot \omega}{1.005 + 1.9 \cdot \omega}$$

[Open Calculator !\[\]\(3cb60d42b10e53f9522bb0b392c1c4cd\_img.jpg\)](#)

$$\text{ex } 1469.595 = \frac{2800\text{kJ/kg} - 2500 \cdot 0.25}{1.005 + 1.9 \cdot 0.25}$$

### 19) Enthalpy of Dry Air

$$\text{fx } h_{\text{dry}} = 1.005 \cdot t_{\text{db}}$$

[Open Calculator !\[\]\(0d7ca0919e6c47bbd874bfa0189fe22e\_img.jpg\)](#)

$$\text{ex } 110.55\text{kJ/kg} = 1.005 \cdot 110$$

### 20) Enthalpy of Moist Air

$$\text{fx } h = 1.005 \cdot t_{\text{db}} + \omega \cdot (2500 + 1.9 \cdot t_{\text{db}})$$

[Open Calculator !\[\]\(683dba75afe26e28cd4de5730b776760\_img.jpg\)](#)

$$\text{ex } 787.8\text{kJ/kg} = 1.005 \cdot 110 + 0.25 \cdot (2500 + 1.9 \cdot 110)$$



## 21) Specific Enthalpy of Water Vapor

$$\text{fx } h_{\text{dry}} = 2500 + 1.9 \cdot t_{\text{db}}$$

[Open Calculator !\[\]\(6605b201d6f14d9b3bcb8ab5f274d107\_img.jpg\)](#)

$$\text{ex } 2709\text{kJ/kg} = 2500 + 1.9 \cdot 110$$

## 22) Specific Humidity given Enthalpy of Moist Air

$$\text{fx } \omega = \frac{h - 1.005 \cdot t_{\text{db}}}{2500 + 1.9 \cdot t_{\text{db}}}$$

[Open Calculator !\[\]\(e8fb589d58dad1692debababa5e928b6\_img.jpg\)](#)

$$\text{ex } 0.992783 = \frac{2800\text{kJ/kg} - 1.005 \cdot 110}{2500 + 1.9 \cdot 110}$$

## Pressure of Water Vapor

### 23) Dry Bulb Temperature using Carrier's Equation

$$\text{fx } t_{\text{db}} = \left( (p_w - p_v) \cdot \frac{1544 - 1.44 \cdot T_w}{p_t - p_w} \right) + T_w$$

[Open Calculator !\[\]\(e9474ce1d70442456f8fe9c393ea149c\_img.jpg\)](#)

$$\text{ex } 231.6914 = \left( (65\text{Bar} - 60\text{Bar}) \cdot \frac{1544 - 1.44 \cdot 14}{100\text{Bar} - 65\text{Bar}} \right) + 14$$

### 24) Partial Pressure of Water Vapor

$$\text{fx } p_v = p_w - \frac{(p_t - p_w) \cdot (t_{\text{db}} - T_w)}{1544 - 1.44 \cdot T_w}$$

[Open Calculator !\[\]\(9db214d549b9aeebe72aa11d3a5c4b1a\_img.jpg\)](#)

$$\text{ex } 62.79504\text{Bar} = 65\text{Bar} - \frac{(100\text{Bar} - 65\text{Bar}) \cdot (110 - 14)}{1544 - 1.44 \cdot 14}$$





## 25) Saturation Pressure Corresponding to Wet Bulb Temperature

fx

$$p_w = \frac{p_v + p_t \cdot \left( \frac{t_{db} - T_w}{1544 - 1.44 \cdot T_w} \right)}{1 + \left( \frac{t_{db} - T_w}{1544 - 1.44 \cdot T_w} \right)}$$

Open Calculator 

ex

$$62.3706\text{Bar} = \frac{60\text{Bar} + 100\text{Bar} \cdot \left( \frac{110 - 14}{1544 - 1.44 \cdot 14} \right)}{1 + \left( \frac{110 - 14}{1544 - 1.44 \cdot 14} \right)}$$

## 26) Total Pressure of Moist Air using Carrier's Equation

fx

$$p_t = \frac{(p_w - p_v) \cdot (1544 - 1.44 \cdot T_w)}{t_{db} - T_w} + p_w$$

Open Calculator 

ex

$$144.3667\text{Bar} = \frac{(65\text{Bar} - 60\text{Bar}) \cdot (1544 - 1.44 \cdot 14)}{110 - 14} + 65\text{Bar}$$

## 27) Wet Bulb Temperature using Carrier's Equation

fx

$$T_w = \frac{1544 \cdot (p_w - p_v) - t_{db} \cdot (p_t - p_w)}{1.44 \cdot (p_w - p_v) - (p_t - p_w)}$$

Open Calculator 

ex

$$-139.208633 = \frac{1544 \cdot (65\text{Bar} - 60\text{Bar}) - 110 \cdot (100\text{Bar} - 65\text{Bar})}{1.44 \cdot (65\text{Bar} - 60\text{Bar}) - (100\text{Bar} - 65\text{Bar})}$$



## Relative Humidity

### 28) Partial Pressure of Vapor given Relative Humidity

$$fx \quad p_v = \Phi \cdot p_s$$

[Open Calculator !\[\]\(339a16584d5da0f0a3ca4e9ec17bf6a1\_img.jpg\)](#)

$$ex \quad 56.10359\text{Bar} = 0.616523 \cdot 91\text{Bar}$$

### 29) Relative Humidity given Degree of Saturation

$$fx \quad \Phi = \frac{S}{1 - \frac{p_s}{p_t} \cdot (1 - S)}$$

[Open Calculator !\[\]\(6059a5aa8b4ca7bb793408023d6c6e42\_img.jpg\)](#)

$$ex \quad 0.735294 = \frac{0.2}{1 - \frac{91\text{Bar}}{100\text{Bar}} \cdot (1 - 0.2)}$$

### 30) Relative Humidity given Mass of Water Vapor

$$fx \quad \Phi = \frac{m_v}{m_s}$$

[Open Calculator !\[\]\(e3275251d0893157c3584e20c81dc3ba\_img.jpg\)](#)

$$ex \quad 0.6 = \frac{3\text{kg}}{5\text{kg}}$$

### 31) Relative Humidity given Partial Pressure of Water Vapor

$$fx \quad \Phi = \frac{p_v}{p_s}$$

[Open Calculator !\[\]\(eabd9f9ababee93effadc3b380fe65fd\_img.jpg\)](#)

$$ex \quad 0.659341 = \frac{60\text{Bar}}{91\text{Bar}}$$



### 32) Saturation Pressure of Water Vapor given Relative Humidity

$$fx \quad p_s = \frac{p_v}{\Phi}$$

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235\_img.jpg\)](#)

$$ex \quad 97.31997\text{Bar} = \frac{60\text{Bar}}{0.616523}$$

### Specific Humidity

#### 33) Maximum Specific Humidity

$$fx \quad \omega_{\max} = \frac{0.622 \cdot p_s}{p_t - p_s}$$

[Open Calculator !\[\]\(5361750c22c4e047a52f4eac1ec2d4cc\_img.jpg\)](#)

$$ex \quad 6.289111 = \frac{0.622 \cdot 91\text{Bar}}{100\text{Bar} - 91\text{Bar}}$$

#### 34) Partial Pressure of Dry Air given Specific Humidity

$$fx \quad p_a = \frac{0.622 \cdot p_v}{\omega}$$

[Open Calculator !\[\]\(b792654f2cef9719eabeb6c5be00811e\_img.jpg\)](#)

$$ex \quad 149.28\text{Bar} = \frac{0.622 \cdot 60\text{Bar}}{0.25}$$



### 35) Partial Pressure of Water Vapor given Specific Humidity

$$fx \quad p_v = \frac{p_t}{1 + \frac{0.622}{\omega}}$$

[Open Calculator !\[\]\(e78f798d4ea5c530c9db49e7d26e6b95\_img.jpg\)](#)

$$ex \quad 28.66972\text{Bar} = \frac{100\text{Bar}}{1 + \frac{0.622}{0.25}}$$

### 36) Specific Humidity given Mass of Water Vapor and Dry Air

$$fx \quad \omega = \frac{m_v}{m_a}$$

[Open Calculator !\[\]\(05be7c7a8995decd503647c99211f7c2\_img.jpg\)](#)

$$ex \quad 0.3 = \frac{3\text{kg}}{10\text{kg}}$$

### 37) Specific Humidity given Partial Pressure of Water Vapor

$$fx \quad \omega = \frac{0.622 \cdot p_v}{p_t - p_v}$$

[Open Calculator !\[\]\(fe3aebe81acea8d45108cd2768939da7\_img.jpg\)](#)

$$ex \quad 0.933 = \frac{0.622 \cdot 60\text{Bar}}{100\text{Bar} - 60\text{Bar}}$$

### 38) Specific Humidity given Specific Volumes

$$fx \quad \omega = \frac{v_a}{v_v}$$

[Open Calculator !\[\]\(899d8b7697d64725bf017d3296cfcf1b\_img.jpg\)](#)

$$ex \quad 0.4 = \frac{0.02\text{m}^3/\text{kg}}{0.05\text{m}^3/\text{kg}}$$



### 39) Total Pressure of Moist Air given Specific Humidity

$$fx \quad p_t = p_v + \frac{0.622 \cdot p_v}{\omega}$$

[Open Calculator !\[\]\(e2376d476d06eb31946dc01a69a4403a\_img.jpg\)](#)

$$ex \quad 209.28\text{Bar} = 60\text{Bar} + \frac{0.622 \cdot 60\text{Bar}}{0.25}$$

### Vapour Density

### 40) Dry Bulb Temperature given Vapor Density

$$fx \quad t_d = \frac{\omega \cdot (p_t - p_v)}{287 \cdot \rho_v}$$

[Open Calculator !\[\]\(8bba887393ca45b761e5cb49e755e762\_img.jpg\)](#)

$$ex \quad 108.885\text{K} = \frac{0.25 \cdot (100\text{Bar} - 60\text{Bar})}{287 \cdot 32\text{kg}/\text{m}^3}$$

### 41) Partial Pressure of Dry Air given Vapor Density

$$fx \quad p_a = \frac{\rho_v \cdot 287 \cdot t_d}{\omega}$$

[Open Calculator !\[\]\(0fb13ad0bfa3d86868cdd3883e5665b3\_img.jpg\)](#)

$$ex \quad 128.576\text{Bar} = \frac{32\text{kg}/\text{m}^3 \cdot 287 \cdot 350\text{K}}{0.25}$$




42) Partial Pressure of Vapor given Vapor Density 

$$fx \quad p_v = p_t - \left( \frac{\rho_v \cdot 287 \cdot t_d}{\omega} \right)$$

Open Calculator 

$$ex \quad -28.576\text{Bar} = 100\text{Bar} - \left( \frac{32\text{kg/m}^3 \cdot 287 \cdot 350\text{K}}{0.25} \right)$$

43) Specific Humidity given Vapor Density 

$$fx \quad \omega = \frac{\rho_v \cdot t_d \cdot 287}{p_t - p_v}$$

Open Calculator 

$$ex \quad 0.8036 = \frac{32\text{kg/m}^3 \cdot 350\text{K} \cdot 287}{100\text{Bar} - 60\text{Bar}}$$

44) Total Pressure of Moist Air given Vapour Density 

$$fx \quad p_t = \frac{287 \cdot \rho_v \cdot t_d}{\omega} + p_v$$

Open Calculator 

$$ex \quad 188.576\text{Bar} = \frac{287 \cdot 32\text{kg/m}^3 \cdot 350\text{K}}{0.25} + 60\text{Bar}$$

45) Vapour Density 

$$fx \quad \rho_v = \frac{\omega \cdot (p_t - p_v)}{287 \cdot t_d}$$

Open Calculator 

$$ex \quad 9.955202\text{kg/m}^3 = \frac{0.25 \cdot (100\text{Bar} - 60\text{Bar})}{287 \cdot 350\text{K}}$$



## Variables Used

- **$A_c$**  Surface Area of Coil (*Square Meter*)
- **BPF** By Pass Factor
- **c** Specific Heat Capacity (*Kilojoule per Kilogram per K*)
- **h** Enthalpy of Moist Air (*Kilojoule per Kilogram*)
- **$h_{dry}$**  Enthalpy of Dry Air (*Kilojoule per Kilogram*)
- **$m_a$**  Mass of Dry Air (*Kilogram*)
- **$m_{air}$**  Mass of Air (*Kilogram*)
- **$m_s$**  Mass of Water Vapor in Saturated Air (*Kilogram*)
- **$m_v$**  Mass of Water Vapor in Moist Air (*Kilogram*)
- **$p_a$**  Partial Pressure of Dry Air (*Bar*)
- **$p_s$**  Partial Pressure of Water Vapour in Saturated Air (*Bar*)
- **$p_t$**  Total Pressure of Moist Air (*Bar*)
- **$p_v$**  Pressure of Water Vapor (*Bar*)
- **$p_w$**  Saturation Pressure Corresponding to WBT (*Bar*)
- **S** Degree of Saturation
- **SH** Sensible Heat (*Joule*)
- **$T_c$**  Temperature of Coil (*Kelvin*)
- **$t_d$**  Dry Bulb Temperature (*Kelvin*)
- **$t_{db}$**  Dry Bulb Temperature in  $^{\circ}\text{C}$
- **$T_f$**  Final Temperature (*Kelvin*)
- **$T_i$**  Initial Temperature (*Kelvin*)









- $T_w$  Wet Bulb Temperature
- $U$  Overall Heat Transfer Coefficient (*Watt per Square Meter per Kelvin*)
- **WBD** Wet Bulb Depression
- $\Delta T_m$  Logarithmic Mean Temperature Difference
- $\eta$  Efficiency
- $v_a$  Specific Volume of Dry Air (*Cubic Meter per Kilogram*)
- $v_v$  Specific Volume of Water Vapor (*Cubic Meter per Kilogram*)
- $\rho_v$  Vapor Density (*Kilogram per Cubic Meter*)
- $\Phi$  Relative Humidity
- $\omega$  Specific Humidity
- $\omega_{max}$  Maximum Specific Humidity
- $\omega_s$  Specific Humidity of Saturated Air





# Constants, Functions, Measurements used








- **Function:** **exp**, exp(Number)  
*Exponential function*
- **Function:** **ln**, ln(Number)  
*Natural logarithm function (base e)*
- **Measurement:** **Weight** in Kilogram (kg)  
*Weight Unit Conversion* 
- **Measurement:** **Temperature** in Kelvin (K)  
*Temperature Unit Conversion* 
- **Measurement:** **Area** in Square Meter (m<sup>2</sup>)  
*Area Unit Conversion* 
- **Measurement:** **Pressure** in Bar (Bar)  
*Pressure Unit Conversion* 
- **Measurement:** **Energy** in Joule (J)  
*Energy Unit Conversion* 
- **Measurement:** **Heat of Combustion (per Mass)** in Kilojoule per Kilogram (kJ/kg)  
*Heat of Combustion (per Mass) Unit Conversion* 
- **Measurement:** **Specific Heat Capacity** in Kilojoule per Kilogram per K (kJ/kg\*K)  
*Specific Heat Capacity Unit Conversion* 
- **Measurement:** **Heat Transfer Coefficient** in Watt per Square Meter per Kelvin (W/m<sup>2</sup>\*K)  
*Heat Transfer Coefficient Unit Conversion* 
- **Measurement:** **Density** in Kilogram per Cubic Meter (kg/m<sup>3</sup>)  
*Density Unit Conversion* 



- **Measurement: Specific Volume** in Cubic Meter per Kilogram ( $\text{m}^3/\text{kg}$ )  
*Specific Volume Unit Conversion* 



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