

# Psychrométrie: Diagramme Air-Vapeur

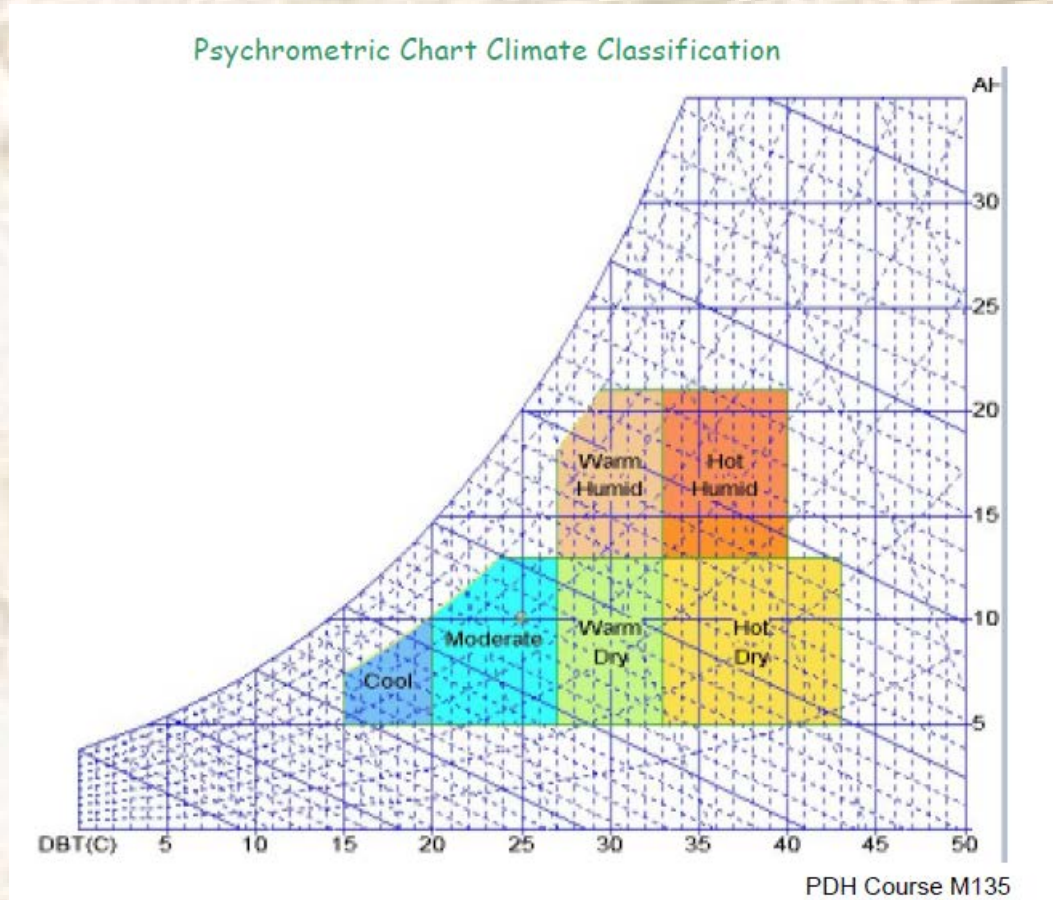
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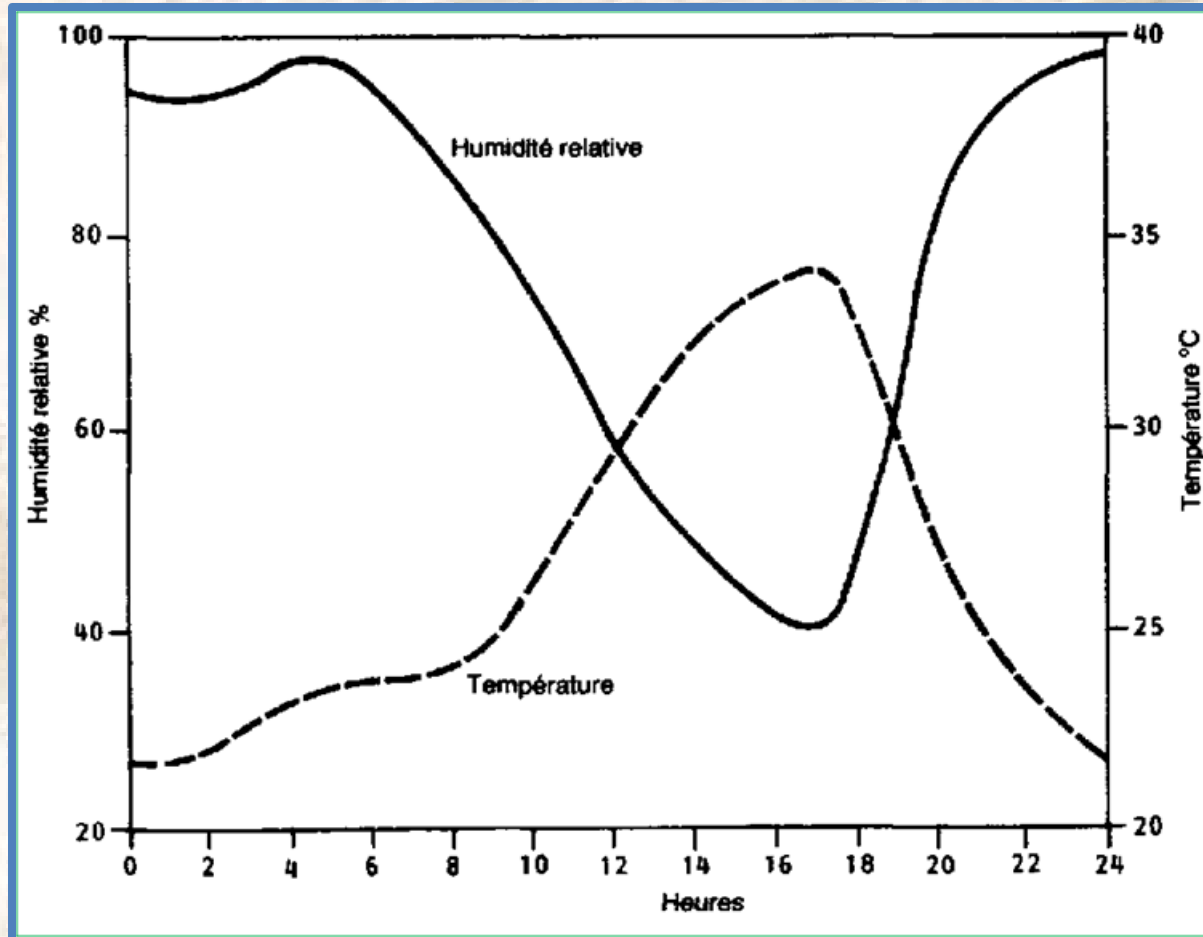
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# Matrice Air-Vapeur



# Evolution journalière



# Vapeur d'eau

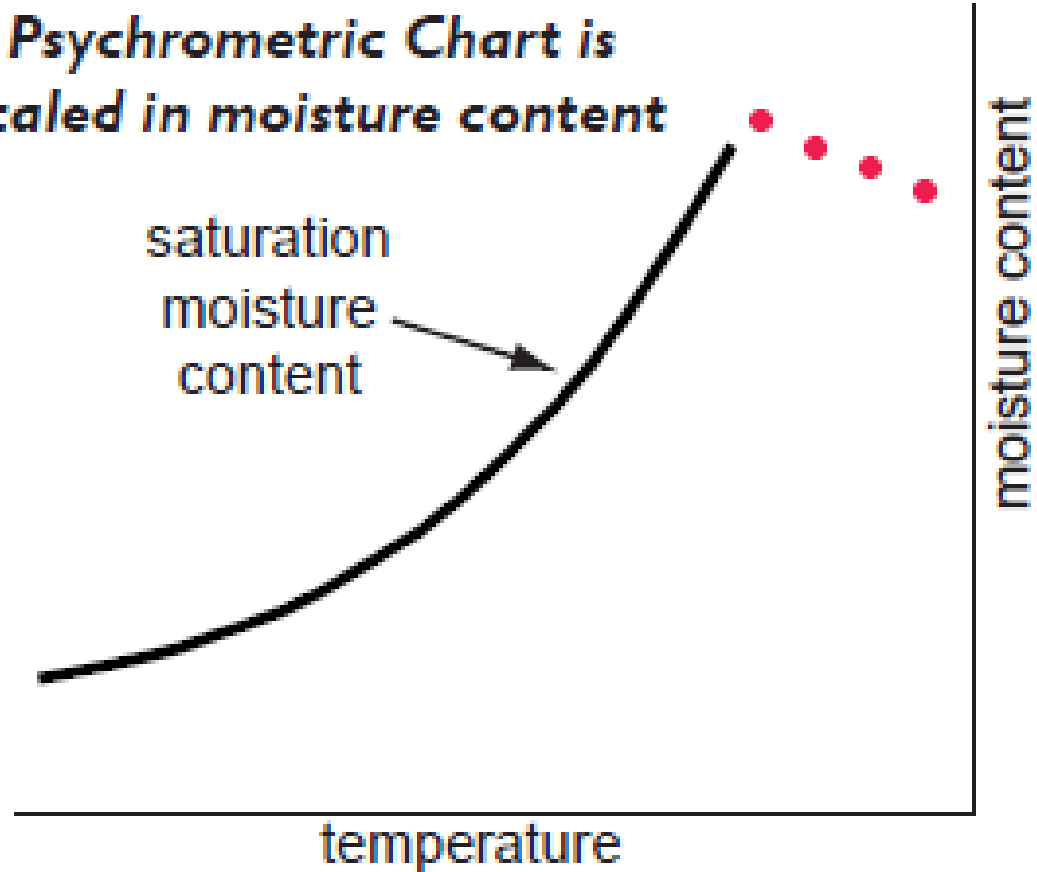
## Vapeur d'eau

- La vapeur d'eau s'associe avec l'air sec et forme de l'air humide
- La pression atmosphérique est autour de 95 à 105 Pa au niveau de la mer et varie en fonction des conditions climatiques
- Le standard international de l'atmosphère prend une valeur de référence de 101.325 kPa (1013.25 mbar)
- La pression atmosphérique de référence diminue en hauteur avec un taux de 0.013 kPa/m et augmente avec le même taux sous le niveau de la mer

# Teneur de l'air en humidité

Kg de vapeur d'eau/Kg d'air sec

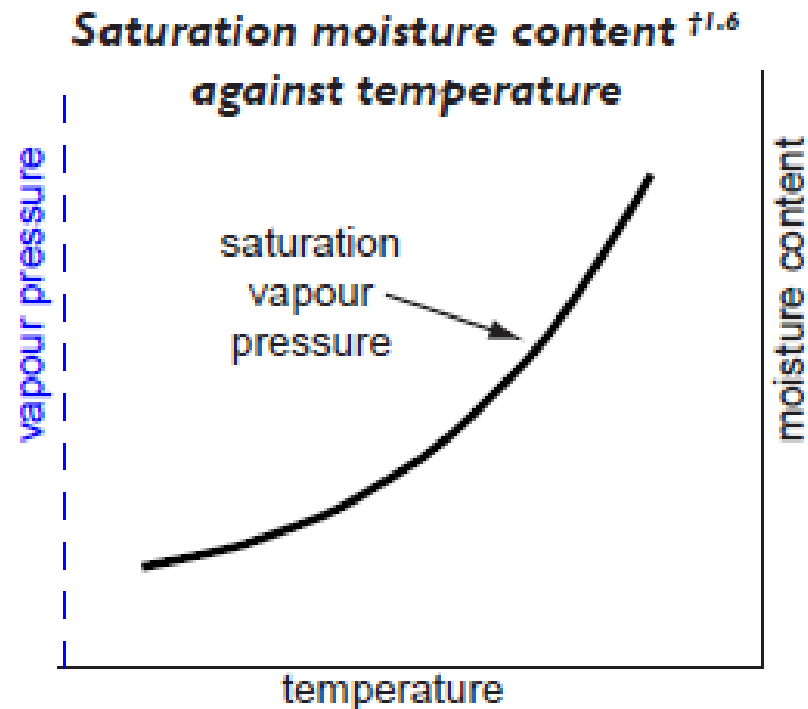
*For user convenience, the Psychrometric Chart is scaled in moisture content*



# Vapeur d'eau saturé

## Vapeur d'eau saturée versus température

Although the CIBSE Psychrometric Chart is derived on the basis of the relationship between vapour pressure and temperature, the published chart does not show vapour pressure but rather shows moisture (vapour) content against temperature as this is more useful to the user.

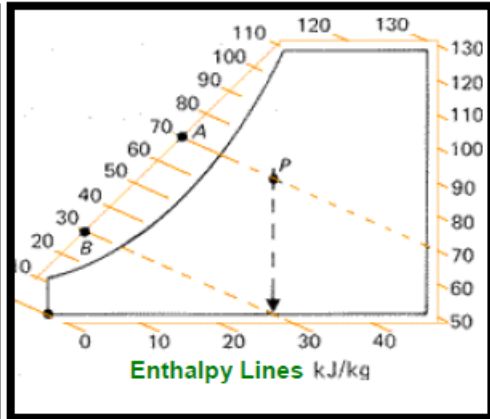
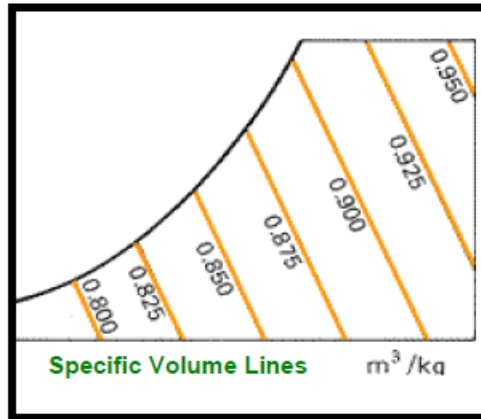
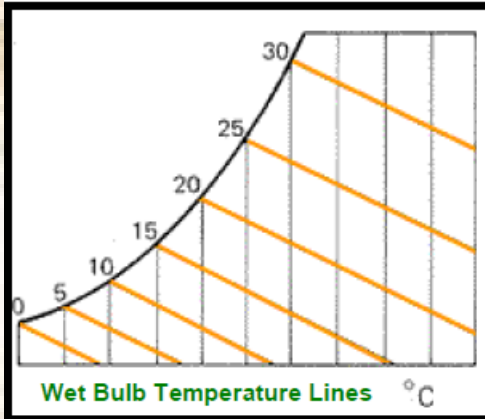
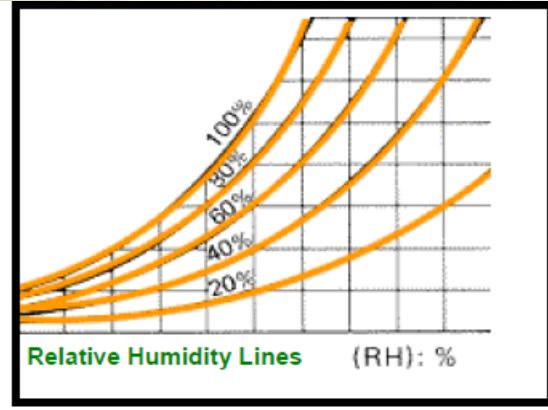
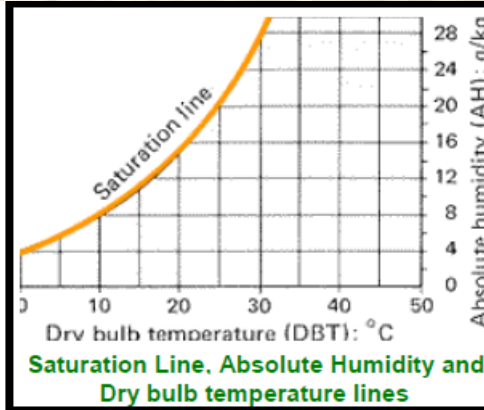


Temperature (°C)	10.0	20.0	30.0	40.0	50.0	60.0
Pressure (Pa)	1.23	2.34	4.24	7.38	12.33	19.92



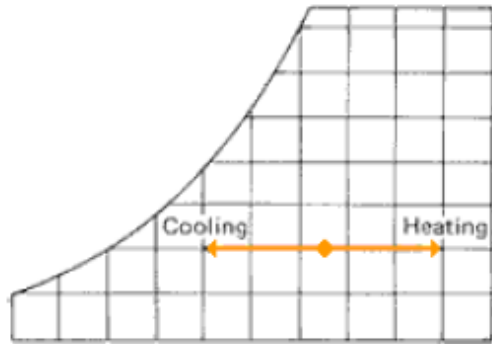
# Diagramme: Sept paramètres

1. Dry Bulb Temperature (DBT)
2. Wet Bulb Temperature (WBT)
3. Saturation Temperature
4. Relative Humidity
5. Humidity Ratio
6. Volume
7. Enthalpy

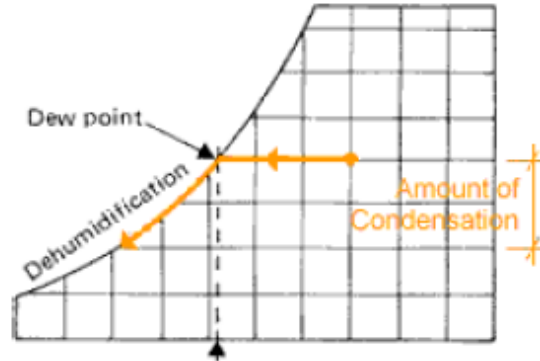




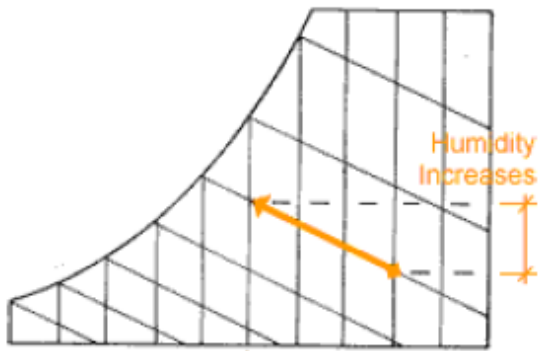
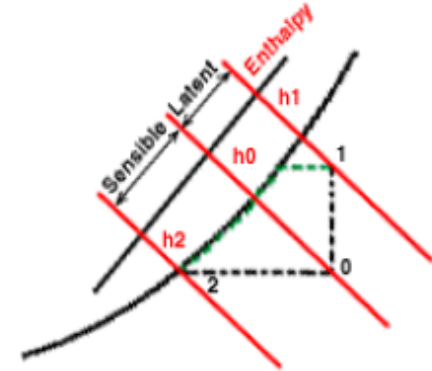
# Diagramme: Cinq processus



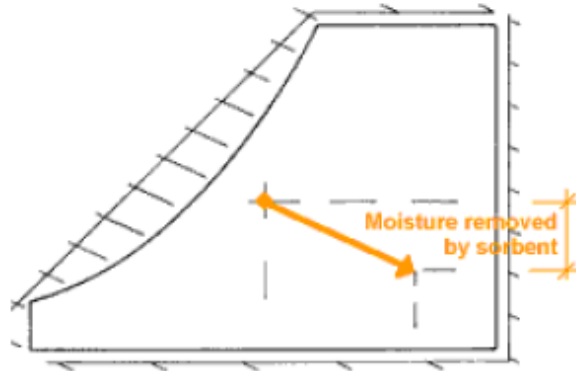
**Sensible Heating & Cooling Process**



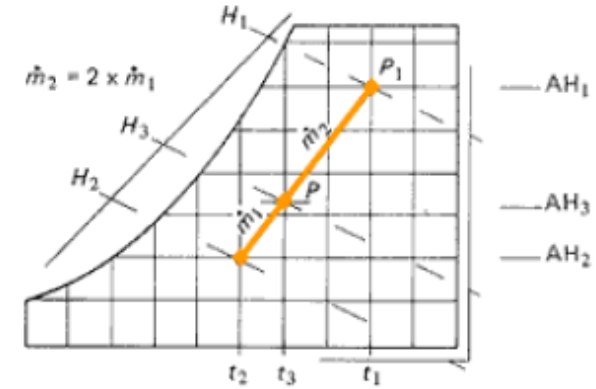
**Dehumidification By Cooling**



**Humidification (Evaporative Cooling)**



**Dehumidification ( By Absorbents)**

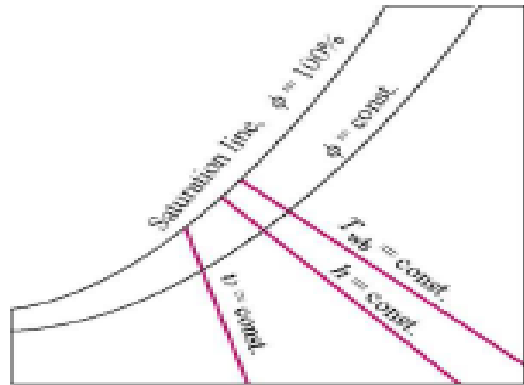


**Mixing Process**



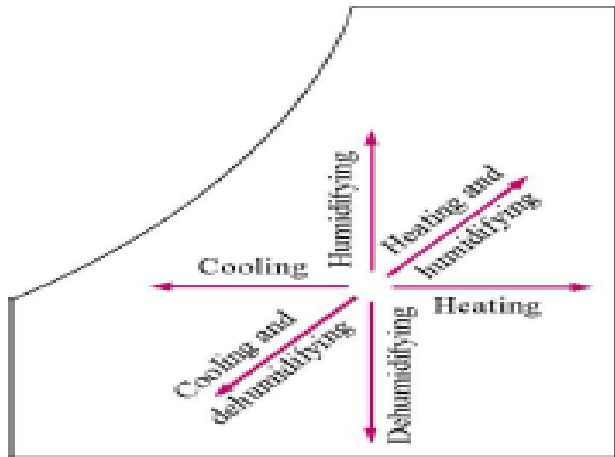
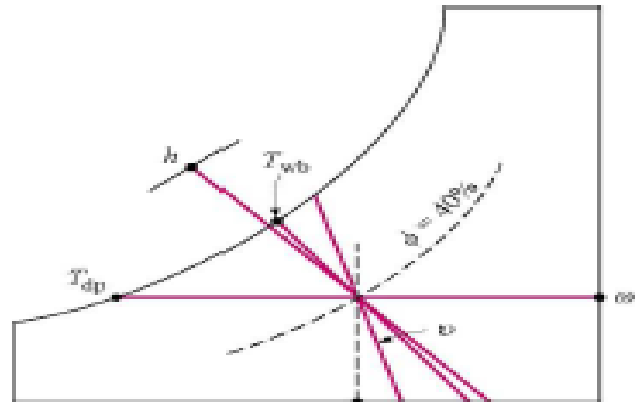


# Paramètres et processus

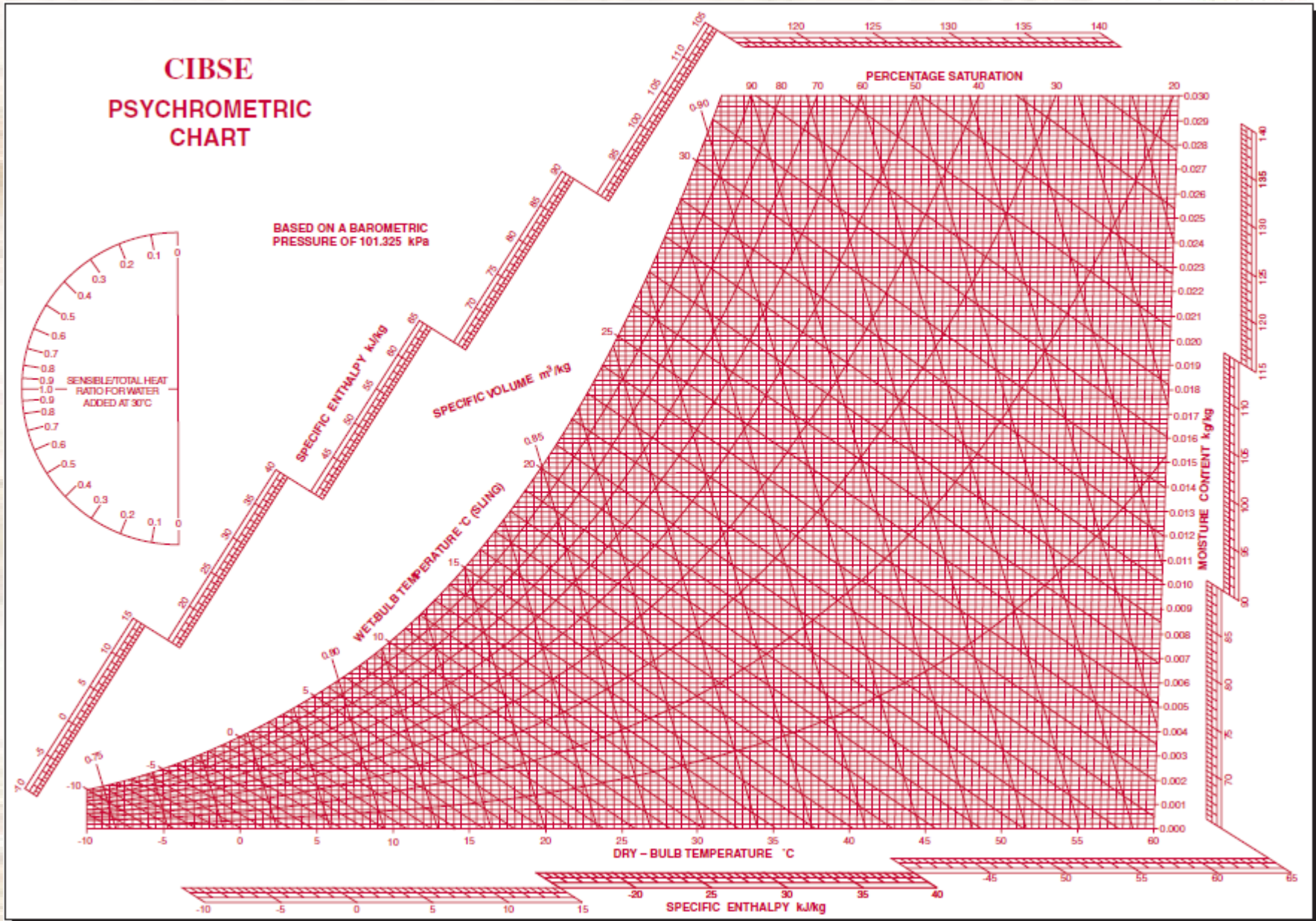


Dry-bulb temperature

Specific humidity,  $w$



# Diagramme





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موسم بحوث الفاكهة بالمغرب  
2014 - 2015  
البحوث في الفاكهة بالمغرب

2014 - 2014

100 سنة

في خدمة الفاكهة العالمية بالعالم

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