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Single refrigeration

(psychrometric chart
introduction) Psychrometric

~~chart Use Psychrometric
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~~Chart~~ problems RK JAIN

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Fundamental of The
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Psychrometry is the science
dealing with the physical
laws of air - water
mixtures. When designing an
air conditioning system, the
temperature and moisture
content of the air to be
conditioned, and the same
properties of the air needed
to produce the desired air
conditioning effect, must be
known.

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~~Psychrometric Chart |
Psychrometry | Refrigeration
& Air ...~~

The Left Hand Side of the psychrometric chart is bounded by the saturation line. Figure 27.2 shows the schematic of a psychrometric chart. Psychrometric charts are readily available for standard barometric pressure of 101.325 kPa at sea level and for normal temperatures (0-50°C).

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~~Refrigeration and Air
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Psychrometric Chart first
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best non-ozone depleting
replacement for the most
commonly used
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Gaja and R.K. Andjus
(Yugoslavia) and W.G.
Bigelow (Canada). First

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~~Air Conditioning and
Refrigeration Timeline |
ashrae.org~~

The cooling capacity of the refrigeration system for this psychrometric facility should be oversized of about 1 tons of refrigeration (12,000 Btu/hr) at air temperature of -40[degrees]F. This additional capacity compensates for the heat transfer gain from the surrounding into the outdoor climate chamber when it operates below freezing temperature.

~~Design and heat transfer~~

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~~analysis of a new
psychrometric ...~~

comfort. This can be accomplished through use of psychrometric tables or a psychrometric chart. The tables are somewhat more accurate, but the chart is accurate enough for all practical purposes and is much easier to use. Before we start to explain the psychrometric chart, let us review a few of the principles on which it is based.

~~THE PSYCHROMETRIC CHART AND
ITS USE — RSES.org~~

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317-881-1277 web site:
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~~Temperature — Pressure Chart
for R 22, R 410A, R 407C, R~~

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important formulae and some
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Various refrigerant states identified on a pressure enthalpy chart. Please provide feedback on this module by selecting "Like" or "Dislike". Your feedback and...

~~Refrigeration — Pressure
Enthalpy Chart — refrigerant~~

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To calculate air psychrometric properties - Enter dry-bulb temperature (T) and any one of others.

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humidity ratio - grains of

moisture per pound of dr y

air w e t b l b, d e w p o i

n t , s a t u r a t i o n t

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Example - ° f barometric
pressure: 29.921 in. hg
psychrometric chart low
temperature i-p units sea
level

~~Low Temperature SEA LEVEL~~
~~Air Systems~~

$r = Pr^{1/3}$ where $Pr = Prandtl$
number for air (e.g., $Pr =$
 0.73 at 240 K $T =$ ambient
static temperature, K Fig. 3
Cabin Pressure Versus
Altitude Fig. 4

Psychrometric Chart for
Cabin Altitude of 2440 m 1 k
- 1 2 + -----M2 1r k - 1 2 +
-----M2

~~SI A19 Ch13 ASHRAE~~

A psychrometric chart is a
graph of the thermodynamic

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Parameters of moist air at a constant pressure, often equated to an elevation relative to sea level. The ASHRAE-style psychrometric chart, shown here, was pioneered by Willis Carrier in 1904. It depicts these parameters and is thus a graphical equation of state. The parameters are:

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