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(Six 2.5-Hour Sessions) Session

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time may be adjusted to accommodate your class size, schedule, and teaching style.

~~Temperature, pressure, Level and F~~

NIST uses a temperature of 20 °C (293.15 K, 68 °F) and an absolute pressure of 1 atm (14.696 psi, 101.325 kPa). This standard is also called normal temperature and pressure (abbreviated as NTP). Please note that these stated values of STP used by NIST have not been verified and require a source.

~~Standard conditions for temperature and pressure~~
~~Wikipedia~~

You probably always heard that the average human body

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temperature is 98.6 F. But the reality is that a "normal" body temperature can fall within a wide range, from 97 F to 99 F. It's usually lower...

~~Fevers and Normal Body Temperature: 98.6°F Is No Longer~~

~~...~~

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The following table translates the pressure setting on your pressure cooker to temperatures and pressure levels: Pressure Setting.

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Cooking Temperature. Pressure Level in Pounds per Square Inch (psi) High pressure. 250 degrees. 13-15 psi. Medium pressure. 235 degrees.

~~Temperature Pressure Ratios for Pressure Cooking—dummies~~

Table 1-6.—U.S. Standard

Atmosphere Heights and

Temperatures HEIGHTS TO

STANDARD PRESSURE AND

TEMPERATURE Altitude, feet

Pressure, hPa inches

Temperature, °C °F 0 1,000 2,000

3,000 4,000 5,000 6,000 7,000

8,000 9,000 10,000 11,000

12,000 13,000 14,000 15,000

16,000 17,000 18,000 19,000

20,000 21,000 22,000 23,000

24,000 25,000 1013.2 29.92

977.2 28.86 942.1 27.82 908.1

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26.82 875.1 25.84 843.1 24.90
812.0 23.98 781.8 23.09 752.6
22.22 724.3 21.39 696.8 20.58
670.2 19.79 644.4 19.03 619.4 ...

~~Table 1-6.U.S. Standard Atmosphere Heights and Temperatures~~

Field instrumentation to measure and monitor flow, level, pressure, temperature and analyze liquids. Depending on the application a field instrument is required to measure and control different automation processes. This is why our field instruments use different measuring principles to operate reliably and accurately in any situation.

~~Field instruments: Flow, level,
pressure, temperature ...~~

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STEAM TEMPERATURE PRESSURE
TABLE. SATURATED STEAM
TEMPERATURES. Temperature
Gauge Temperature Gauge
Temperature Gauge Temperature
Gauge Mercury Pressure
°F Pressure °F Pressure °F Pressure
°F Pressure Vacuum (P.S.I.A.)
(P.S.I.G.) (P.S.I.G.) (P.S.I.G.)
(P.S.I.G.) 29.74 0.089 32.0 0
212.0 135 358.3 285 417.2 29
0.451 76.5 2 218.5 140 360.8 290
418.7 28 0.942 99.7 4 224.4 145
363.4 295 420.2.

~~STEAM TEMPERATURE PRESSURE TABLE~~

With a temperature lapse rate of
−6.5 °C (−11.7 °F) per km
(roughly −2 °C (−3.6 °F) per 1,000
ft), the table interpolates to the
standard mean sea level values of

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15 °C (59 °F) temperature, 101,325 pascals (14.6959 psi) (1 atm) pressure, and a density of 1.2250 kilograms per cubic meter (0.07647 lb/cu ft).

~~International Standard
Atmosphere — Wikipedia~~

and the given atmospheric pressure "at sea level" makes really no sense. In SI units with dry air at 20°C (68°F), the speed of sound c is 343 meters per second (m/s). This also equates to 1235 km/h, 1125 feet per second (ft/s or fps), 666 knots, 767.3 miles per hour (mi/h or mph), 12.79 miles per minute (mi/min), 0.2131 miles per second (mi/s),

~~Speed of sound in air
temperature barometric pressure~~

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...

ISA (International Standard Atmosphere) and 1976 U.S. Standard Atmosphere define air density at the standard pressure 1013.25 hPa and temperature 15 °C as 1.225 kg/m³ or 0.0765 lb/ft³. Air density is affected not only by the temperature and pressure but also by the amount of water in the air.

~~Air Pressure, Density, and Temperature vs. Altitude in ...~~

NTP - Normal Temperature and Pressure. NTP is commonly used as a standard condition for testing and documentation of fan capacities: NTP - Normal Temperature and Pressure - is defined as air at 20°C (293.15 K, 68°F) and 1 atm (101.325 kN/m²,

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101.325 kPa, 14.7 psia, 0 psig, 29.92 in Hg, 407 in H₂O, 760 torr).

~~STP – Standard Temperature and Pressure & NTP – Normal ...~~

For example on a residential water heater the TPR is typically set to open at a pressure of 150 psi or if the water temperature reaches 210°F. On older water heaters using older TPR valves you may find the valve rated to open at 125 psi. [Click to enlarge any image]

~~Temperature / Pressure Relief Valve Test Procedures~~

Using ISA standards, the defaults for pressure and temperature at sea level are 101,325 Pa and 288 K.

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~~Air Pressure at Altitude Calculator~~ ~~—Mide Technology~~

The standard lapse rate in the lower atmosphere for each 1,000 feet of altitude is approximately 1 "Hg and 2 °C (3.5 °F). For example, the standard pressure and temperature at 3,000 feet mean sea level (MSL) is 26.92 "Hg (29.92 - 3) and 9 °C (15 - 6). Static pressure.

~~Aviation Glossary—Standard~~ ~~Atmosphere~~

Among adults, the average body temperature ranges from 97°F (36.1°C) to 99°F (37.2°C). Adults over age 65. In older adults, the average body temperature is lower than 98.6°F (37°C). Keep in mind...

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~~What Is the Normal Body Temperature: Babies, Kids, Adults~~

~~...~~

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A centrifugal compressor is tested at sea level at a temperature of 70°F and a pressure of 14.7 psia. The rotating speed is observed to be 15,000 rpm. It is to be employed for use at high altitude where the ambient temperature will be -15°F at 13.5 psia.

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