

## DEWPOINT WITH PRESSURE VARIATION

When you increase or decrease the pressure, the ratio of the grains of water vapor over the pressure stays the same.

20 grains/cubic feet @ 100psig depressurized to atmosphere will give approximately 2.5 grains/cubic feet.

$$\frac{\text{grain}A}{\text{pressure}A} = \frac{\text{grain}B}{\text{pressure}B}$$

or

$$\frac{\text{grain}A \times \text{pressure}B}{\text{pressure}A} = \text{grain}B$$

Where the pressure is always calculated at atmospheric (add 14.7 to gauge reading).

