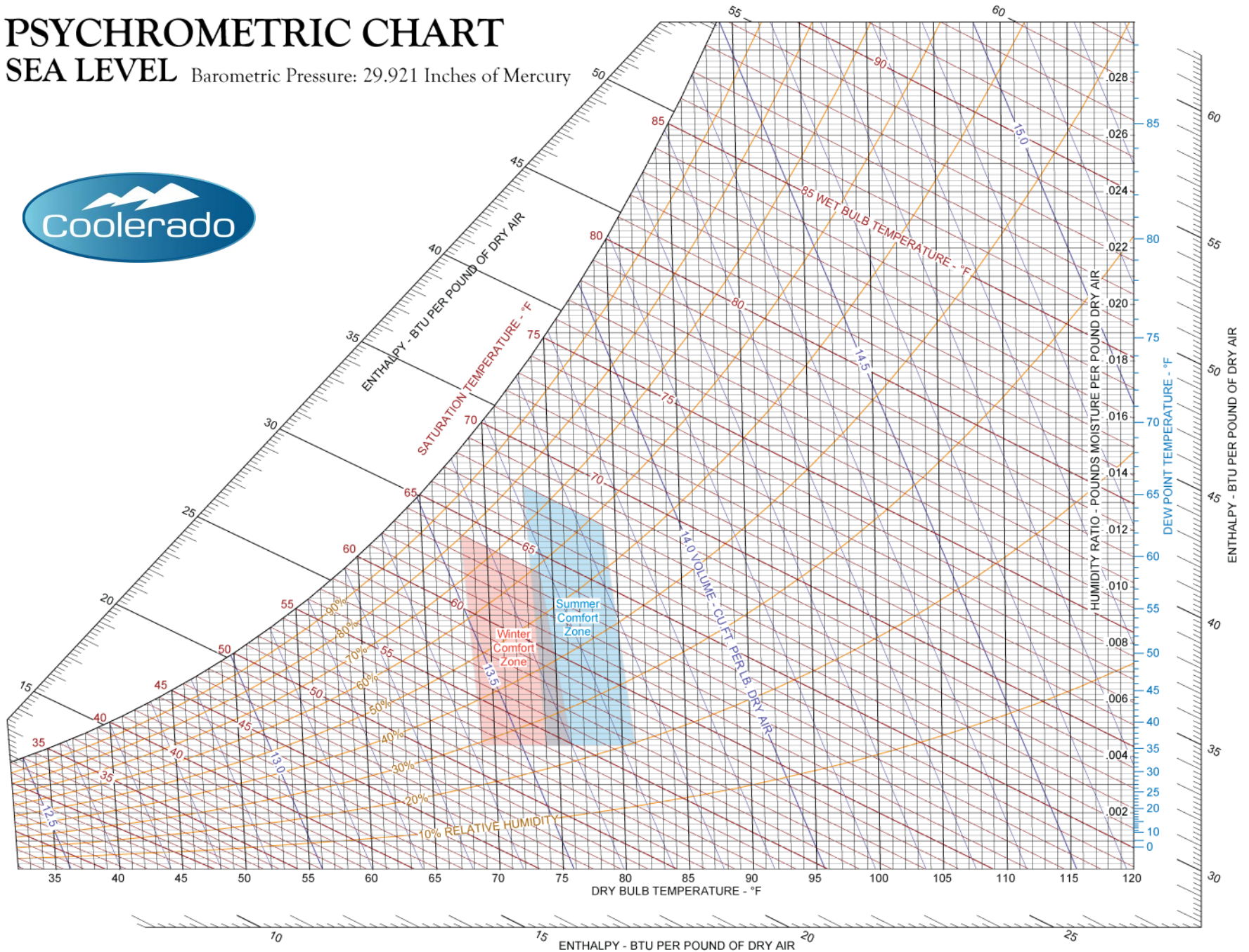


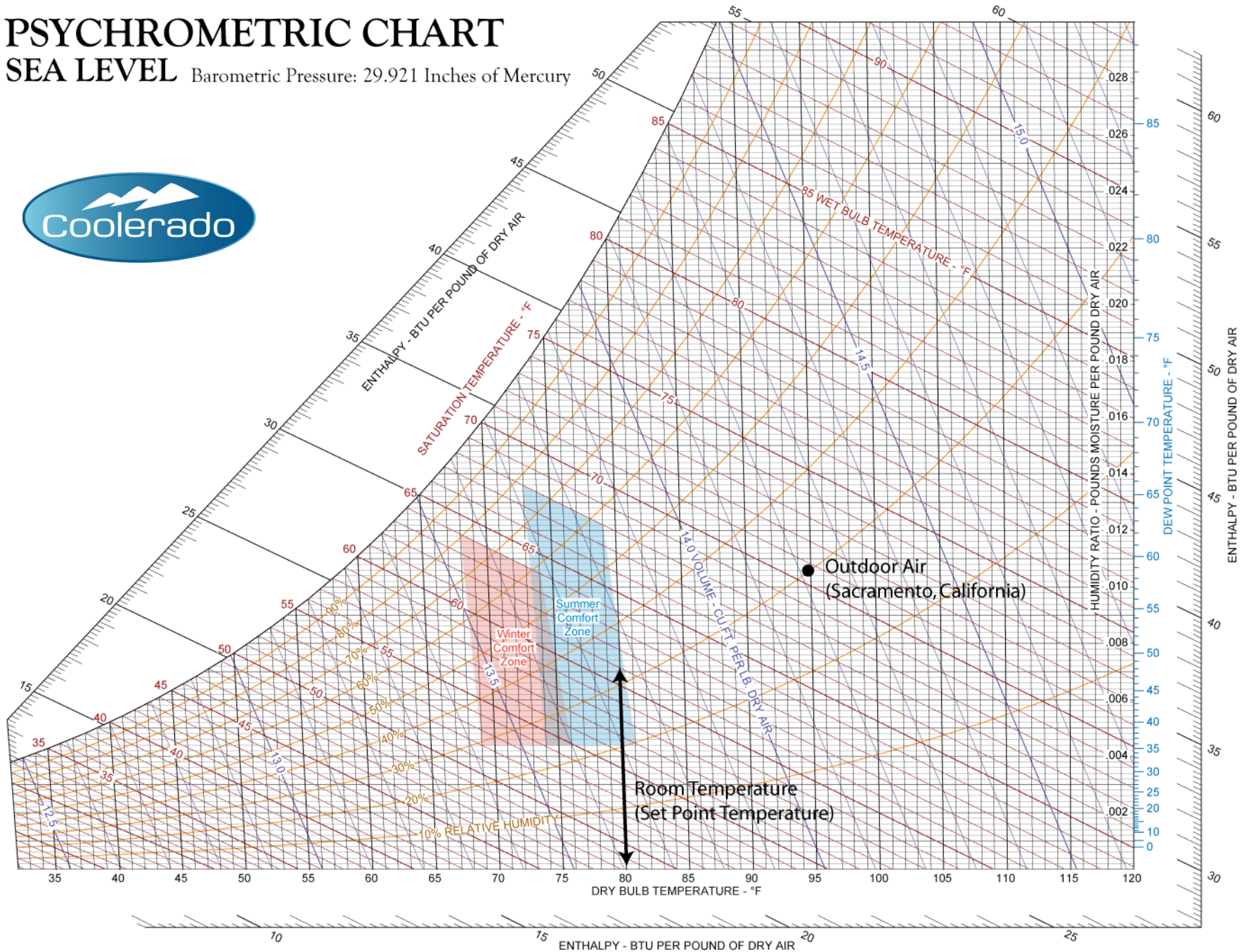
PSYCHROMETRIC CHART

SEA LEVEL Barometric Pressure: 29.921 Inches of Mercury



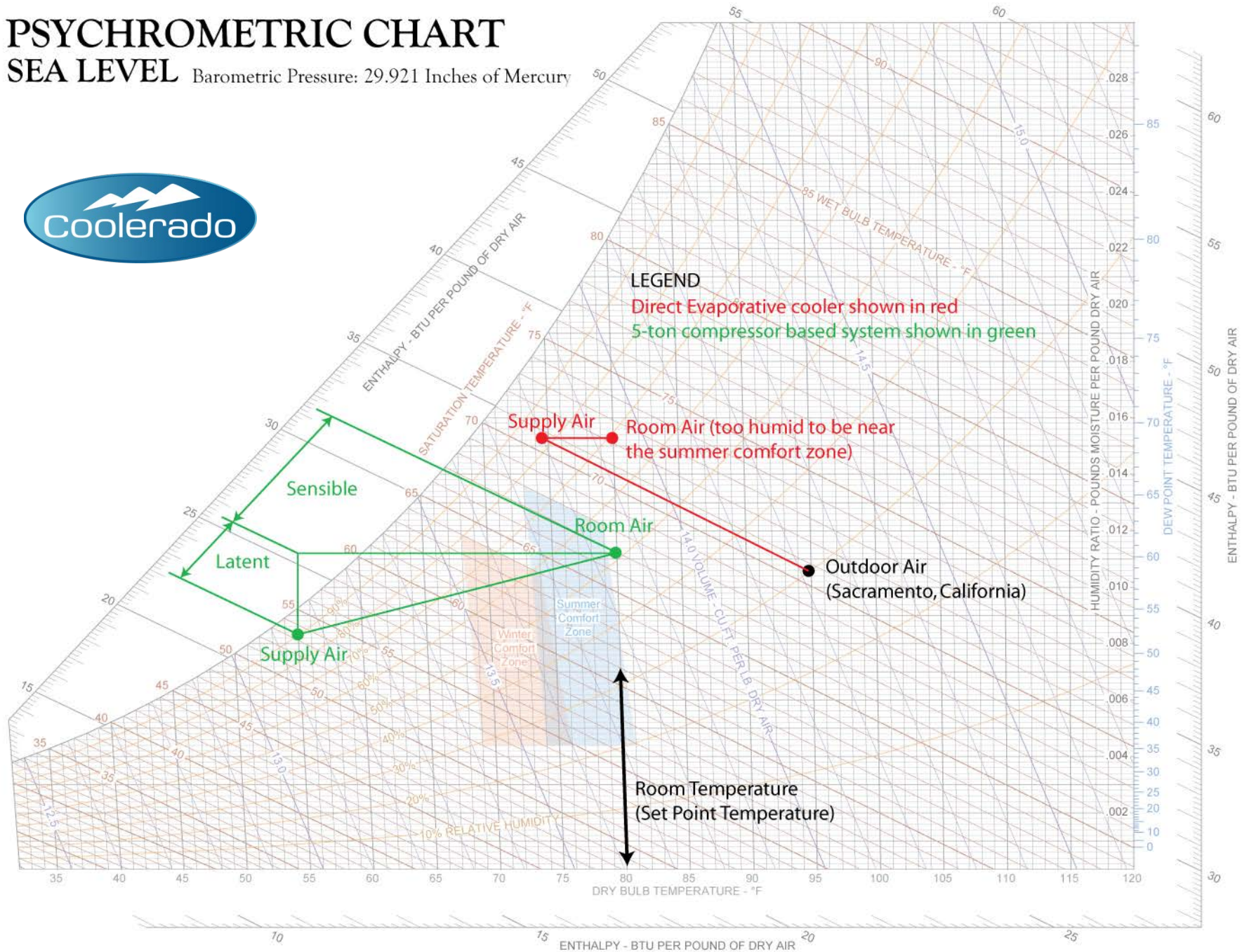
PSYCHROMETRIC CHART

SEA LEVEL Barometric Pressure: 29.921 Inches of Mercury



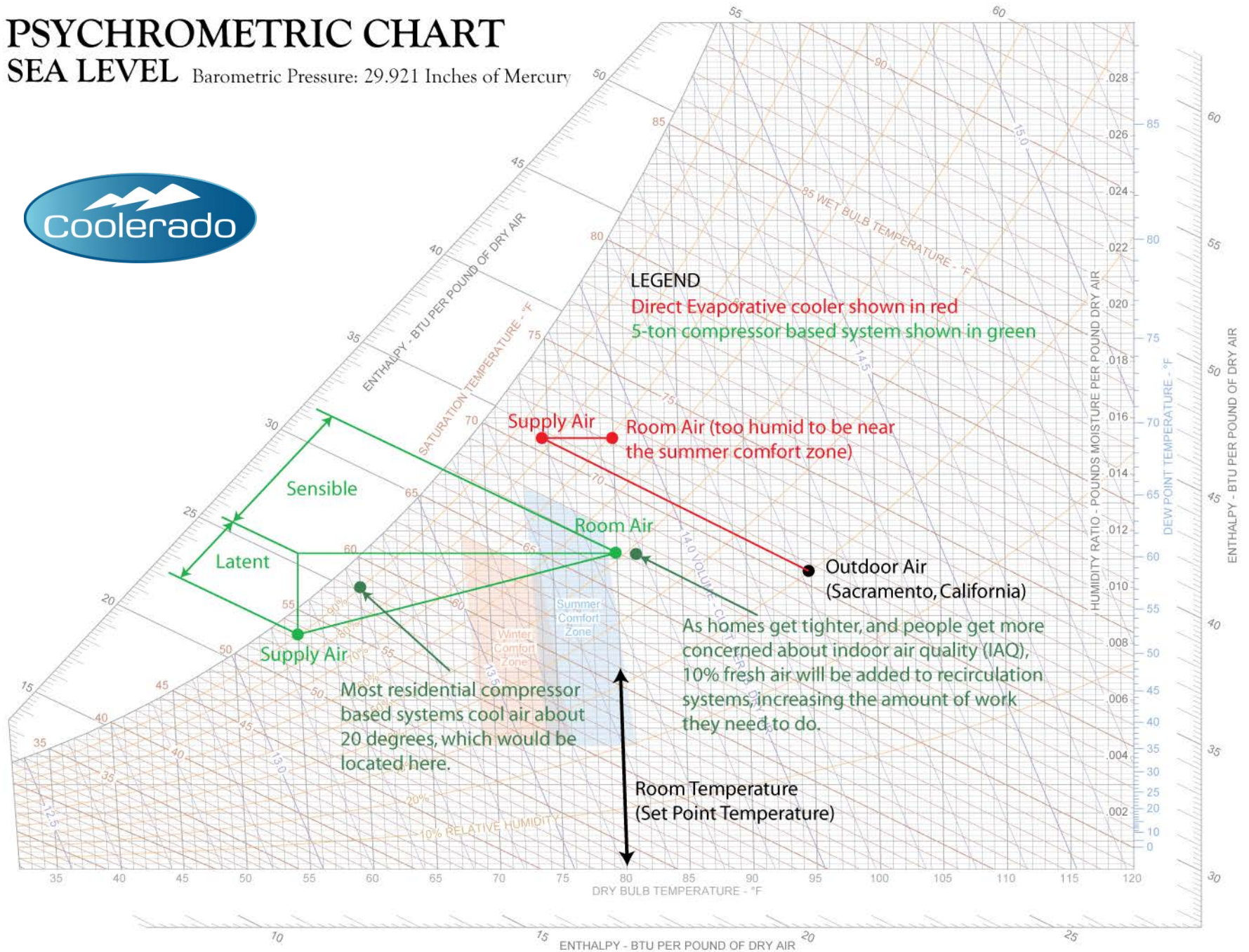
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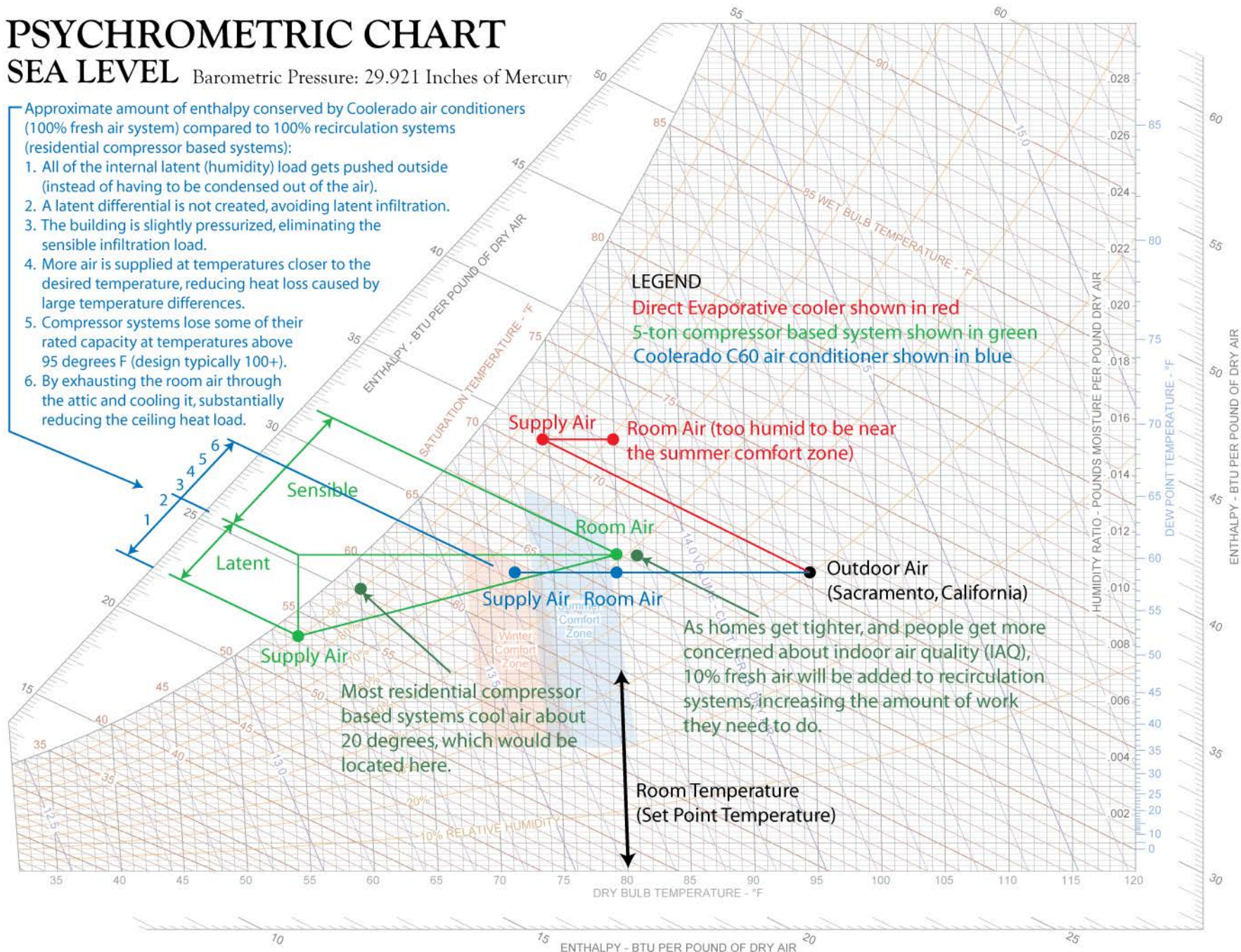


PSYCHROMETRIC CHART

SEA LEVEL Barometric Pressure: 29.921 Inches of Mercury

Approximate amount of enthalpy conserved by Coolerado air conditioners (100% fresh air system) compared to 100% recirculation systems (residential compressor based systems):

1. All of the internal latent (humidity) load gets pushed outside (instead of having to be condensed out of the air).
2. A latent differential is not created, avoiding latent infiltration.
3. The building is slightly pressurized, eliminating the sensible infiltration load.
4. More air is supplied at temperatures closer to the desired temperature, reducing heat loss caused by large temperature differences.
5. Compressor systems lose some of their rated capacity at temperatures above 95 degrees F (design typically 100+).
6. By exhausting the room air through the attic and cooling it, substantially reducing the ceiling heat load.



LEGEND
 Direct Evaporative cooler shown in red
 5-ton compressor based system shown in green
 Coolerado C60 air conditioner shown in blue

Supply Air Room Air (too humid to be near the summer comfort zone)

Room Air
 Supply Air Room Air
 Outdoor Air (Sacramento, California)

As homes get tighter, and people get more concerned about indoor air quality (IAQ), 10% fresh air will be added to recirculation systems, increasing the amount of work they need to do.

Most residential compressor based systems cool air about 20 degrees, which would be located here.

Room Temperature (Set Point Temperature)