



**PSYCHROMETRIC
CHART**
Normal Temperature
I-P Units
16 FEET

BAROMETRIC PRESSURE: 29.904 in. HG

Example economizer day shown in Boston, MA where the outside air is 55F/30%RH, the desired room condition is 72F/40%RH, and the desired supply air temperature is 55F.

If a steam humidifier was to be used, the economizer would be at or near 100% outside air and the humidifier load would be approximately double that of an adiabatic humidifier.

For the adiabatic system shown, the economizer adjusts to approximately 50% outside air because of the evaporative cooling. Since the outside air is reduced, the humidifier load is also reduced.

Weather Data Location:
BOSTON, MASSACHUSETTS, USA

Weather Hours

Blue	16 to 1
Light Blue	32 to 17
Light Green	48 to 33
Green	64 to 49
Yellow-Green	80 to 65
Yellow	96 to 81
Orange	112 to 97
Pink	128 to 113
Red	144 to 129

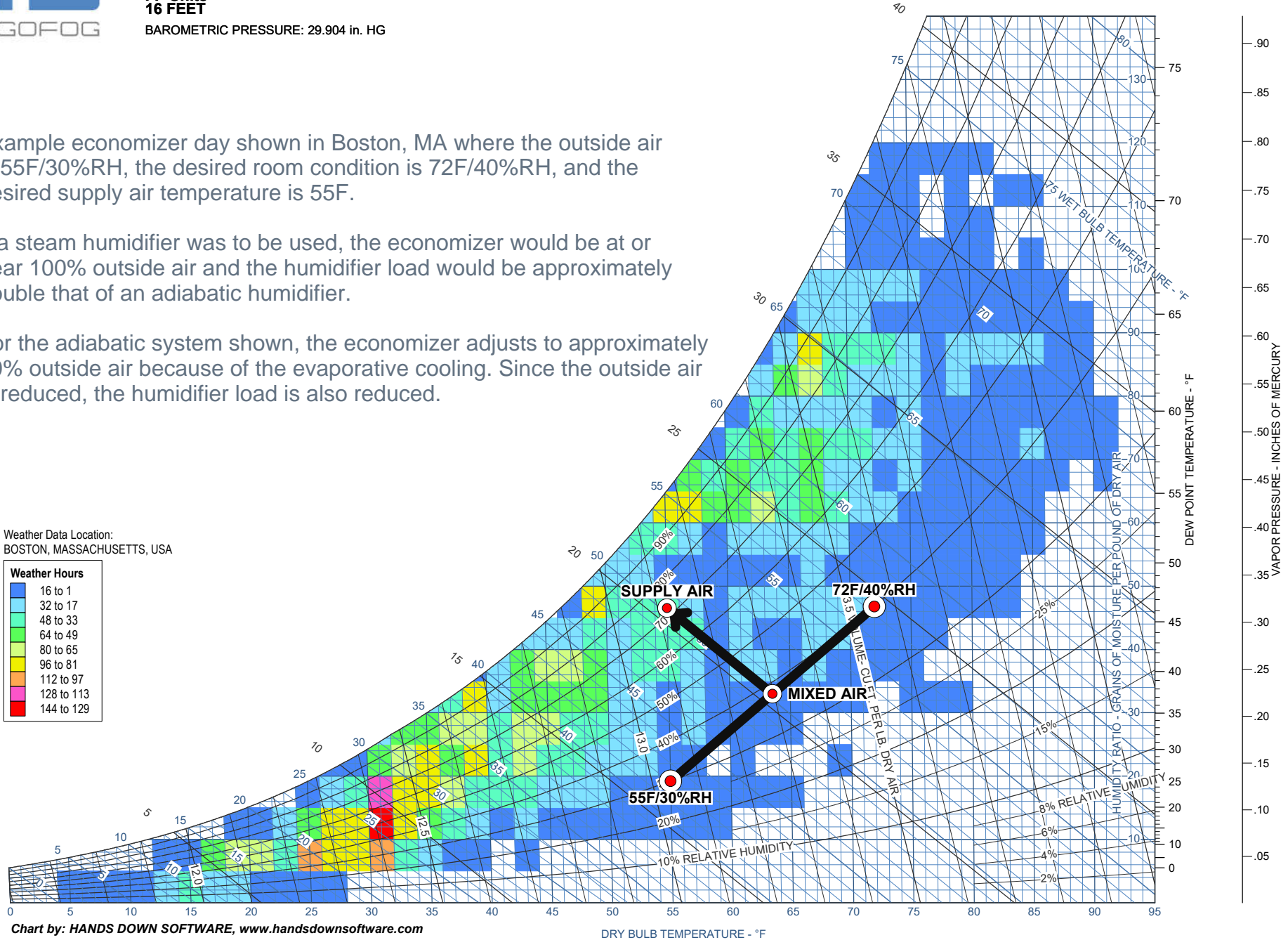


Chart by: HANDS DOWN SOFTWARE, www.handsdownsoftware.com

DRY BULB TEMPERATURE - °F