"What is SubCooling?"

Subcooling is the difference between the measured temperature and the temperature at which the fluid would boil at a given pressure.

For example if the measured temp of 22(v) refrigerant is 110 ºF at 260 PSIG, then we can refer to the refrigerant pressure-temperature (PV) chart to see what the boiling temperature of the particular refrigerant is at 260 PSIG; In this case the chart reads 120º. Thus our subcooling is 10º (Computed as 120º - 110º = 10º).

PSIG	Temperature ºF		
	Yellow	*Green*	*Green*
	Refrigerant - (Sporlan Code)		
	12 (f)	*22(v)*	*124 (m)*
5*	-29	-43	3
4*	-28	-47	4
3*	-26	-45	6
~	~	~	~
250	156	117	188
260	159	120	192
275	163	124	196

Measured Temp=110º

120º - 110º = 10º

SubCooling = 10º

SUPERCOOL™ SLIDE RULE

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