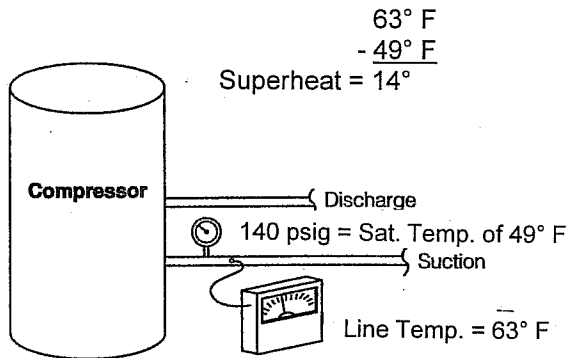




R-410a Example

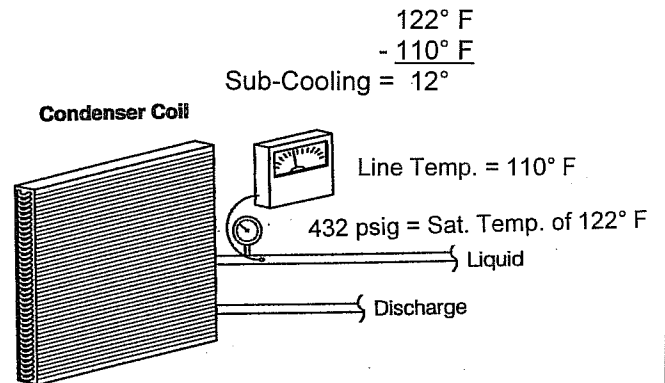
How to Determine Superheat

1. Determine suction pressure close to the compressor.
2. Use the Pressure Temperature Chart to determine saturation temperature at observed suction pressure. (Example: 140 psig = 49° F)
3. Measure the suction line temperature at the approximate location of pressure reading. (Example: 63° F)
4. Subtract the saturation temperature (step 2) from the suction line temperature (step 3). The difference is the amount of superheat. (Example: 63° F - 49° F = 14° of superheat)



How to Determine Sub-Cooling

1. Determine liquid pressure close to the condenser coil outlet.
2. Use the Pressure Temperature Chart to determine saturation temperature at observed liquid pressure. (Example: 432 psig = 122° F)
3. Measure the liquid line temperature at the approximate location of the pressure reading. (Example: 110° F)
4. Subtract the liquid line temperature (step 3) from the saturation temperature (step 2). The difference is the amount of sub-cooling.



° F	R-410a psig	° F	R-410a psig	° F	R-410a psig
7	58	41	120	75	220
8	60	43	125	78	230
10	62	45	130	81	240
11	64	47	135	84	250
12	66	49	140	86	260
14	68	51	145	90	275
15	70	53	150	94	290
16	72	55	155	97	305
17	74	56	160	100	320
19	76	58	165	104	335
20	78	60	170	107	350
21	80	62	175	110	365
24	85	63	180	113	380
26	90	65	185	117	400
29	95	66	190	120	420
31	100	68	195	124	440
34	105	70	200	127	460
36	110	71	205	130	480
38	115	73	210	134	500

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