

Temp (deg F)	R-454B BUBBLE	R-454B DEW	R-410A (psig)	R-32 (psig)	R-22 (psig)
0	46	43	48	49	24
5	52	49	55	56	28
10	59	56	62	64	33
15	67	63	70	71	38
20	75	71	79	80	43
25	84	79	88	89	49
30	93	88	97	99	55
35	103	97	108	110	62
40	113	108	119	121	69
45	124	118	131	133	76
50	136	130	143	146	84
55	149	142	156	160	93
60	163	155	171	174	102
65	177	169	186	190	111
70	192	184	202	206	121
75	208	200	219	223	132
80	225	216	236	242	144
85	243	234	255	261	156
90	262	252	275	281	168
95	282	271	296	303	182
100	303	292	318	326	196
105	325	314	342	350	211
110	349	336	366	375	226
115	373	360	392	401	243
120	399	386	420	429	260
125	426	412	448	459	278
130	454	440	478	490	297

All pressures psig. Blends: superheat -> use DEW, subcooling -> use BUBBLE.

R-410A glide < 0.5 deg F and R-32 / R-22 are pure or near-pure, so one column serves both.

TARGET SUPERHEAT

Fixed-orifice / piston systems:

Target SH = (3xIWB - 80 - ODB) / 2

IWB = indoor wet bulb temp

ODB = outdoor dry bulb temp

Example: IWB 67 deg F, ODB 95 deg F

$(3 \times 67 - 80 - 95) / 2 = 13$ deg F

TXV / EEV: charge by subcooling.

454B vs 410A: READ THIS

Close, but NOT interchangeable.

454B runs slightly LOWER pressures than 410A.

Never put one in a system built for the other. 454B is A2L - A2L-rated tools only.

After a leak, a blend's mix can shift as vapor escapes:

charge as LIQUID, by weight.



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Full PT chart - SH / SC calculators