

### Physical Properties of Refrigerants

### R417A

Environmental Classification	HFC
Molecular Weight	106.7
Boiling Point (°C), 101.3KPa	-51.7
Critical Pressure (psia)	586.71
Critical Temperature (°C)	189.08
Critical Density (lb./ft <sup>3</sup> )	32.32
Liquid Density, 30°C, ( KG / M <sup>3</sup> )	1166
Vapor Density (bp, lb./ft <sup>3</sup> )	2.3
Specific Heat, Liquid, 30 °C, ( KJ / KG .K )	1.45
Specific Heat Vapor (1atm, 20 °F, BTU/lb. °F)	0.856
Ozone Depletion Potential (CFC 11 -1.0)	0
Global Warming Potential (CO <sub>2</sub> = 1.0)	2346
ASHRAE Standard 34 Safety Rating	A1

### Pressure- Temp Chart

Temp °C	R417A psig	
	Bub	Dew
-50	-57	-42
-48	-52	-36
-46	-46	-29
-44	-40	-21
-42	-33	-13
-40	-25	-4
-38	-18	5
-36	-9	15
-34	1	26
-32	10	38
-30	21	50
-28	33	63
-26	45	78
-24	59	93
-22	73	110
-20	88	127
-18	105	145
-16	122	164
-14	141	185
-12	161	207
-10	181	229
-8	203	254
-6	227	279
-4	251	306
-2	278	334
0	305	364
2	334	395
4	365	429
6	398	463
8	431	499
10	467	537
12	504	577
14	544	618
16	584	661
18	628	707
20	672	754
22	720	803
24	769	855
26	821	909
28	874	965
30	930	1022
32	989	1083
34	1049	1146
36	1113	1211
38	1179	1279
40	1247	1349
42	1319	1422
44	1393	1498
46	1470	1576
48	1550	1657
50	1633	1742
52	1719	1829
54	1809	1919
56	1902	2013
58	1997	2109
60	2097	2209

This information is believed to be accurate and reliable but is provided for guidance only.

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