

Temperature Pressure Data

Pressure in PSIG

Temp.		MP39 R-401A		HP80 R-402A		HP62 R-404A	FX10 R-408A	FX56 R409A		AZ20 R-410A	R-22	R-123	R-134a	R-502	AZ-50 R-507	R-717
°F	°C	Liquid	Vapor	Liquid	Vapor	Liquid	Liquid	Liquid	Vapor							
-50	-45.6	—	—	—	—	0.6	1.6	<b>12.4</b>	<b>17.2</b>	5.0	<b>6.2</b>	<b>29.2</b>	<b>18.4</b>	<b>0.2</b>	1.0	<b>14.4</b>
-45	-42.8	—	—	—	—	2.7	1.1	<b>9.7</b>	<b>15.2</b>	7.0	<b>2.7</b>	<b>29.0</b>	<b>16.6</b>	1.9	3.0	<b>11.8</b>
-40	-40.0	<b>8.1</b>	<b>13.2</b>	6.8	6.3	5.0	3.3	<b>6.8</b>	<b>13.1</b>	11.6	0.5	<b>28.9</b>	<b>14.7</b>	4.1	5.5	<b>8.8</b>
-35	-37.2	<b>5.1</b>	<b>10.7</b>	9.6	9.1	7.6	5.6	<b>3.5</b>	<b>10.7</b>	14.9	2.6	<b>28.7</b>	<b>12.3</b>	6.5	8.2	<b>5.5</b>
-30	-34.4	<b>1.7</b>	<b>7.9</b>	12.6	12.1	10.4	8.2	0.0	<b>8.1</b>	18.5	4.9	<b>28.4</b>	<b>9.7</b>	9.2	11.1	<b>1.7</b>
-25	-31.7	1.0	<b>4.8</b>	16.0	15.4	13.4	11.0	2.0	<b>5.1</b>	22.5	7.4	<b>28.1</b>	<b>6.8</b>	12.1	14.3	1.2
-20	-28.9	3.0	<b>1.4</b>	19.6	18.9	16.8	14.1	4.1	<b>1.9</b>	26.9	10.1	<b>27.8</b>	<b>3.6</b>	15.3	17.8	3.5
-15	-26.1	5.2	1.2	23.6	22.9	20.5	17.5	6.5	0.8	31.6	13.2	<b>27.4</b>	<b>0.1</b>	18.8	21.7	6.2
-10	-23.3	7.7	3.3	27.9	27.1	24.5	21.2	9.0	2.8	36.8	16.4	<b>27.0</b>	2.0	22.6	25.8	9.0
-5	-20.6	10.3	5.5	32.6	31.7	28.8	25.2	11.8	4.9	42.5	20.0	<b>26.5</b>	4.1	26.6	30.3	12.3
0	-17.8	13.2	8.0	37.6	36.7	33.5	29.5	14.8	7.2	48.6	24.0	<b>25.9</b>	6.5	31.1	35.2	15.6
5	-15.0	16.3	10.7	43.1	42.1	38.6	34.2	18.1	9.7	55.2	28.2	<b>25.3</b>	9.1	35.9	40.5	19.5
10	-12.2	19.7	13.7	49.0	48.0	44.0	39.3	21.7	12.5	62.3	32.7	<b>24.6</b>	11.9	41.0	46.1	23.7
15	-9.4	23.4	16.9	55.3	54.2	49.9	44.8	25.5	15.4	70.0	37.7	<b>23.7</b>	15.1	46.5	52.2	28.3
20	-6.7	27.4	20.4	62.1	60.9	56.2	50.7	29.6	18.7	78.3	43.0	<b>22.8</b>	18.4	52.5	58.8	33.4
25	-3.9	31.7	24.2	69.3	68.1	63.0	57.0	34.0	22.2	87.2	48.7	<b>21.8</b>	22.1	58.8	65.8	38.8
30	-1.1	36.4	28.3	77.1	75.8	70.3	63.7	38.7	26.0	96.8	54.9	<b>20.7</b>	26.1	65.6	73.3	44.9
35	1.7	41.3	32.8	85.4	84.0	78.1	71.0	43.8	30.1	107.0	61.4	<b>19.5</b>	30.4	72.8	81.3	51.4
40	4.4	46.6	37.6	94.2	92.8	86.4	78.7	49.2	34.5	118.0	68.5	<b>18.1</b>	35.1	80.5	89.8	58.4
45	7.2	52.4	42.7	104.0	102.0	95.4	87.0	54.9	39.2	130.0	76.0	<b>16.6</b>	40.0	88.7	98.9	66.1
50	10.0	58.5	48.2	114.0	112.0	104.7	95.8	61.0	44.3	142.0	84.0	<b>15.0</b>	45.4	97.4	109.0	74.3
55	12.8	65.0	54.1	124.0	123.0	114.7	105.1	67.6	49.8	156.0	92.5	<b>13.1</b>	51.2	107.0	119.0	83.2
60	15.6	71.9	60.4	136.0	134.0	125.3	115.1	74.5	55.6	170.0	101.6	<b>11.2</b>	57.4	116.4	130.0	92.6
65	18.3	79.3	67.2	147.0	146.0	136.6	125.6	81.8	61.9	185.0	111.0	<b>9.0</b>	64.0	127.0	141.0	102.8
70	21.1	87.1	74.4	160.0	158.0	148.6	136.8	89.5	68.6	201.0	121.4	<b>6.6</b>	71.1	138.0	154.0	113.8
75	23.9	95.4	82.1	173.0	171.0	161.2	148.7	97.7	75.8	217.0	132.0	<b>4.0</b>	78.6	149.0	167.0	125.5
80	26.7	104.0	90.2	187.0	185.0	174.6	161.2	106.4	83.4	235.0	144.0	<b>1.2</b>	86.7	161.0	180.0	138.0
85	29.4	114.0	98.9	202.0	200.0	188.8	174.4	115.5	91.5	254.0	156.0	0.9	95.1	174.0	195.0	151.4
90	32.2	123.0	108.0	218.0	215.0	203.7	188.4	125.2	100.2	274.0	168.4	2.5	104.2	187.4	210.0	165.5
95	35.0	134.0	118.0	233.0	232.0	219.4	203.1	135.3	109.4	295.0	182.0	4.2	113.8	201.0	226.0	180.6
100	37.8	145.0	128.0	251.0	249.0	235.9	218.7	146.0	119.2	317.0	196.0	6.1	124.1	216.2	244.0	196.7
105	40.6	156.0	139.0	269.0	267.0	253.4	235.0	157.2	129.6	341.0	211.0	8.1	134.9	232.0	252.0	213.9
110	43.3	169.0	151.0	288.0	286.0	271.7	252.1	169.0	140.6	365.0	226.4	10.3	146.3	247.9	281.0	231.8
115	46.1	181.0	163.0	308.0	305.0	290.9	270.2	181.4	152.3	391.0	243.0	12.6	158.4	265.0	301.0	251.0
120	48.9	195.0	176.0	328.0	326.0	311.1	289.1	194.4	164.7	418.0	260.0	15.1	171.1	282.7	322.0	271.1
125	51.7	209.0	189.0	350.0	347.0	332.3	308.9	208.0	177.8	446.0	278.4	17.7	184.5	301.0	344.0	292.5
130	54.4	224.0	203.0	372.0	370.0	354.5	329.7	222.3	191.6	476.0	296.8	20.6	198.7	320.8	368.0	314.9
135	57.2	239.0	218.0	396.0	393.0	377.8	351.5	237.2	206.3	507.0	317.0	23.6	213.6	341.0	393.0	338.8
140	60.0	255.0	234.0	420.0	418.0	402.2	374.3	252.9	221.8	539.0	337.3	26.8	229.3	362.6	419.0	363.5
145	62.8	272.0	250.0	446.0	443.0	427.7	398.1	269.3	238.2	573.0	359.0	30.2	245.7	385.0	446.0	390.2
150	65.6	299.0	267.0	472.0	470.0	454.4	423.0	293.0	286.4	608.0	381.0	33.8	263.0	408.4	475.0	417.4

Italics = inches Hg. Below 1 ATM

Temperature Pressure Data

Pressure in Bar

Temp.		MP39 R-401A		HP80 R-402A		HP62 R-404A	FX10 R-408A	FX56 R409A		AZ20 R-410A	R-22	R-123	R-134a	R-502	AZ-50 R-507	R-717
°F	°C	Liquid	Vapor	Liquid	Vapor	Liquid	Liquid	Liquid	Vapor							
-50	-45.6	—	—	—	—	0.0	0.1	<i>315.0</i>	<i>436.9</i>	0.3	<i>157.5</i>	<i>741.7</i>	<i>467.4</i>	<i>5.1</i>	0.1	<i>365.8</i>
-45	-42.8	—	—	—	—	0.2	0.1	<i>246.4</i>	<i>386.1</i>	0.5	<i>68.6</i>	<i>736.6</i>	<i>421.6</i>	0.1	0.2	<i>299.7</i>
-40	-40.0	<i>205.7</i>	<i>335.3</i>	0.5	0.4	0.3	0.2	<i>172.7</i>	<i>332.7</i>	0.8	0.0	<i>734.1</i>	<i>373.4</i>	0.3	0.4	<i>223.5</i>
-35	-37.2	<i>129.5</i>	<i>271.8</i>	0.7	0.6	0.5	0.4	<i>88.9</i>	<i>271.8</i>	1.0	0.2	<i>729.0</i>	<i>312.4</i>	0.4	0.6	<i>139.7</i>
-30	-34.4	<i>43.2</i>	<i>200.7</i>	0.9	0.8	0.7	0.6	0.0	<i>205.7</i>	1.3	0.3	<i>721.4</i>	<i>246.4</i>	0.6	0.8	<i>43.2</i>
-25	-31.7	0.1	<i>121.9</i>	1.1	1.1	0.9	0.8	0.1	<i>129.5</i>	1.6	0.5	<i>713.7</i>	<i>172.7</i>	0.8	1.0	0.1
-20	-28.9	0.2	<i>35.6</i>	1.4	1.3	1.2	1.0	0.3	<i>48.3</i>	1.9	0.7	<i>706.1</i>	<i>91.4</i>	1.1	1.2	0.2
-15	-26.1	0.4	0.1	1.6	1.6	1.4	1.2	0.4	0.1	2.2	0.9	<i>696.0</i>	<i>2.5</i>	1.3	1.5	0.4
-10	-23.3	0.5	0.2	1.9	1.9	1.7	1.5	0.6	0.2	2.5	1.1	<i>685.8</i>	0.1	1.6	1.8	0.6
-5	-20.6	0.7	0.4	2.2	2.2	2.0	1.7	0.8	0.3	2.9	1.4	<i>673.1</i>	0.3	1.8	2.1	0.8
0	-17.8	0.9	0.6	2.6	2.5	2.3	2.0	1.0	0.5	3.4	1.7	<i>657.9</i>	0.4	2.1	2.4	1.1
5	-15.0	1.1	0.7	3.0	2.9	2.7	2.4	1.2	0.7	3.8	1.9	<i>642.6</i>	0.6	2.5	2.8	1.3
10	-12.2	1.4	0.9	3.4	3.3	3.0	2.7	1.5	0.9	4.3	2.3	<i>624.8</i>	0.8	2.8	3.2	1.6
15	-9.4	1.6	1.2	3.8	3.7	3.4	3.1	1.8	1.1	4.8	2.6	<i>602.0</i>	1.0	3.2	3.6	2.0
20	-6.7	1.9	1.4	4.3	4.2	3.9	3.5	2.0	1.3	5.4	3.0	<i>579.1</i>	1.3	3.6	4.1	2.3
25	-3.9	2.2	1.7	4.8	4.7	4.3	3.9	2.3	1.5	6.0	3.4	<i>553.7</i>	1.5	4.1	4.5	2.7
30	-1.1	2.5	2.0	5.3	5.2	4.8	4.4	2.7	1.8	6.7	3.8	<i>525.8</i>	1.8	4.5	5.1	3.1
35	1.7	2.8	2.3	5.9	5.8	5.4	4.9	3.0	2.1	7.4	4.2	<i>495.3</i>	2.1	5.0	5.6	3.5
40	4.4	3.2	2.6	6.5	6.4	6.0	5.4	3.4	2.4	8.1	4.7	<i>459.7</i>	2.4	5.6	6.2	4.0
45	7.2	3.6	2.9	7.2	7.0	6.6	6.0	3.8	2.7	9.0	5.2	<i>421.6</i>	2.8	6.1	6.8	4.6
50	10.0	4.0	3.3	7.9	7.7	7.2	6.6	4.2	3.1	9.8	5.8	<i>381.0</i>	3.1	6.7	7.5	5.1
55	12.8	4.5	3.7	8.6	8.5	7.9	7.2	4.7	3.4	10.8	6.4	<i>332.7</i>	3.5	7.4	8.2	5.7
60	15.6	5.0	4.2	9.4	9.2	8.6	7.9	5.1	3.8	11.7	7.0	<i>284.5</i>	4.0	8.0	9.0	6.4
65	18.3	5.5	4.6	10.1	10.1	9.4	8.7	5.6	4.3	12.8	7.7	<i>228.6</i>	4.4	8.8	9.7	7.1
70	21.1	6.0	5.1	11.0	10.9	10.2	9.4	6.2	4.7	13.9	8.4	<i>167.6</i>	4.9	9.5	10.6	7.8
75	23.9	6.6	5.7	11.9	11.8	11.1	10.3	6.7	5.2	15.0	9.1	<i>101.6</i>	5.4	10.3	11.5	8.7
80	26.7	7.2	6.2	12.9	12.8	12.0	11.1	7.3	5.8	16.2	9.9	<i>30.5</i>	6.0	11.1	12.4	9.5
85	29.4	7.9	6.8	13.9	13.8	13.0	12.0	8.0	6.3	17.5	10.8	0.1	6.6	12.0	13.4	10.4
90	32.2	8.5	7.4	15.0	14.8	14.0	13.0	8.6	6.9	18.9	11.6	0.2	7.2	12.9	14.5	11.4
95	35.0	9.2	8.1	16.1	16.0	15.1	14.0	9.3	7.5	20.3	12.6	0.3	7.8	13.9	15.6	12.5
100	37.8	10.0	8.8	17.3	17.2	16.3	15.1	10.1	8.2	21.9	13.5	0.4	8.6	14.9	16.8	13.6
105	40.6	10.8	9.6	18.6	18.4	17.5	16.2	10.8	8.9	23.5	14.6	0.6	9.3	16.0	17.4	14.8
110	43.3	11.7	10.4	19.9	19.7	18.7	17.4	11.7	9.7	25.2	15.6	0.7	10.1	17.1	19.4	16.0
115	46.1	12.5	11.2	21.2	21.0	20.1	18.6	12.5	10.5	27.0	16.8	0.9	10.9	18.3	20.8	17.3
120	48.9	13.4	12.1	22.5	22.5	21.5	19.9	13.4	11.4	28.8	17.9	1.0	11.8	19.5	22.2	18.7
125	51.7	14.4	13.0	24.1	23.9	22.9	21.3	14.3	12.3	30.8	19.2	1.2	12.7	20.8	23.7	20.2
130	54.4	15.4	14.0	25.7	25.5	24.4	22.7	15.3	13.2	32.8	20.5	1.4	13.7	22.1	25.4	21.7
135	57.2	16.5	15.0	27.3	27.1	26.1	24.2	16.4	14.2	35.0	21.9	1.6	14.7	23.5	27.1	23.4
140	60.0	17.6	16.1	29.0	28.8	27.7	25.8	17.4	15.3	37.2	23.3	1.8	15.8	25.0	28.9	25.1
145	62.8	18.8	17.2	30.8	30.6	29.5	27.5	18.6	16.4	39.5	24.8	2.1	16.9	26.6	30.8	26.9
150	65.6	20.6	18.4	32.6	32.4	31.3	29.2	20.2	19.8	41.9	26.3	2.3	18.1	28.2	32.8	28.8

*Italics = mm Hg. Below 1 ATM*