



Suva® refrigerants

Pocket Reference Guide For Use at 5,000 ft Elevations

Gauge Pressure psi	Temperature, °F				
	Suva® MP39	Suva® MP66	Suva® HP62	Suva® HP80	Suva® HP81
20*	-77	-80	-107	-109	-106
15*	-56	-59	-87	-89	-86
10*	-42	-45	-75	-77	-73
5*	-32	-35	-65	-67	-63
0	-23	-27	-57	-59	-56
2	-17	-21	-52	-54	-50
4	-12	-16	-47	-49	-45
6	-7	-11	-42	-44	-41
8	-3	-7	-38	-40	-36
10	1	-3	-34	-36	-33
12	5	1	-31	-33	-29
14	8	5	-27	-30	-26
16	12	8	-24	-26	-22
18	15	11	-21	-23	-19
20	18	14	-18	-21	-17
22	21	17	-16	-18	-14
24	24	20	-13	-15	-11
26	26	22	-10	-13	-9
28	29	25	-8	-11	-6
30	31	27	-6	-8	-4
32	33	30	-4	-6	-2
34	36	32	-1	-4	0
36	38	34	1	-2	2
38	40	36	3	0	4
40	42	38	5	2	6
42	44	40	7	4	8
44	46	42	8	6	10
46	48	44	10	7	12
48	50	46	12	9	13
50	51	47	14	11	15
52	53	49	15	12	17
54	55	51	17	14	18
56	57	53	18	16	20
58	58	54	20	17	22
60	60	56	22	19	23
62	61	57	23	20	25
64	63	59	24	22	26
66	64	60	26	23	27
68	66	62	27	24	29
70	67	63	29	26	30
72	69	65	30	27	32
74	70	66	31	28	33
76	72	67	33	30	34
78	73	69	34	31	35
80	74	70	35	32	37
85	77	73	38	35	40
90	80	76	41	38	43
95	83	79	44	41	46
100	86	82	47	44	48
105	89	85	49	46	51
110	92	88	52	49	53
115	94	90	54	51	56
120	97	93	57	54	58
125	99	95	59	56	61
130	102	97	61	58	63
135	104	100	64	60	65
140	106	102	66	63	67
145	109	104	68	65	70
150	111	106	70	67	72
155	113	108	72	69	74
160	115	110	74	71	76
165	117	113	76	73	78
170	119	114	78	74	79
175	121	116	80	76	81
180	123	118	81	78	83
185	125	120	83	80	85
190	126	122	85	82	87
195	128	124	87	83	88
200	130	125	88	85	90
210	133	129	92	88	93
220	137	132	95	91	96
230	140	135	98	94	100
240	143	138	101	97	102
250	146	141	104	100	105
260	149	144	107	103	108
270	152	147	109	106	111
280	155	150	112	108	114
290	157	153	114	111	116
300	160	155	117	113	119
310	163	158	119	116	121
320	165	160	122	118	124
330	167	163	124	121	126
340	170	165	127	123	128
350	172	167	129	125	131
360	175	170	131	127	133
370	177	172	133	129	135
380	179	174	135	131	137
390	181	176	137	134	139
400	183	178	139	136	141

* Inches mercury below one atmosphere

NOTE: Saturated vapor temperatures are shown for Suva® MP and Suva® HP refrigerants.

For Suva® MP39 and Suva® MP66, the average evaporator or condenser temperature will be approximately 4°F less than the saturated vapor temperature.

For Suva® HP80 and Suva® HP81, the average evaporator or condenser temperature will be approximately 1°F less than the saturated vapor temperature.

For Suva® HP62, the average evaporator or condenser temperature is within 0.5°F of the saturated vapor temperature; therefore, no correction is necessary.

This information is intended for the servicing of refrigeration equipment. For engineering calculations, contact DuPont to obtain detailed thermodynamic data.



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Gauge Pressure psi	Temperature, °F			
	HCFC 123	HCFC 124	HFC 134a	HFC 23
20*	6	-55	-75	-163
15*	33	-33	-54	-147
10*	50	-18	-40	-136
5*	63	-7	-30	-128
0	73	2	-22	-121
2	80	9	-16	-117
4	87	15	-11	-113
6	93	20	-6	-109
8	98	25	-2	-105
10	104	29	2	-102
12	108	33	6	-99
14	113	37	9	-96
16	117	41	13	-94
18	121	44	16	-91
20	125	47	19	-89
22	128	50	22	-87
24	132	53	24	-85
26	135	56	27	-83
28	138	59	29	-81
30	141	62	32	-79
32	144	64	34	-77
34	147	67	36	-75
36	150	69	38	-74
38	152	71	40	-72
40	155	73	42	-70
42	157	76	44	-69
44	160	78	46	-67
46	162	80	48	-66
48	164	82	50	-64
50	167	84	52	-63
52	169	86	54	-62
54	171	88	55	-60
56	173	89	57	-59
58	175	91	58	-58
60	177	93	60	-56
62	179	95	62	-55
64	181	96	63	-54
66	183	98	65	-53
68	185	99	66	-52
70	187	101	67	-51
72	188	103	69	-50
74	190	104	70	-48
76	192	106	72	-47
78	194	107	73	-46
80	195	109	74	-45
85	199	112	77	-43
90	203	115	80	-40
95	207	119	83	-38
100	210	122	86	-36
105	214	125	89	-34
110	218	128	92	-32
115	221	131	94	-29
120	224	134	97	-28
125	227	136	99	-26
130	230	139	102	-24
135	233	141	104	-22
140	236	144	106	-20
145	239	146	108	-18
150	242	149	110	-17
155	244	151	113	-15
160	247	153	115	-13
165	250	156	117	-12
170	252	158	119	-10
175	255	160	120	-9
180	257	162	122	-7
185	259	164	124	-6
190	262	166	126	-4
195	264	168	128	-3
200	266	170	130	-1
210	271	174	133	1
220	275	177	136	4
230	279	181	139	6
240	283	184	143	9
250	287	188	146	11
260	290	191	148	14
270	294	194	151	16
280	298	197	154	18
290	301	200	157	20
300	305	203	159	22
310	308	206	162	24
320	311	209	164	26
330	314	211	167	28
340	317	214	169	30
350	320	217	172	32
360	323	219	174	34
370	326	222	176	36
380	329	224	178	37
390	332	226	180	39
400	334	229	183	41

* Inches mercury below one atmosphere

Chemical Names and Formulas

Common Name	Chemical Name	Formula	Sea Level Boiling Point, °F
HCFC-123	2,2-dichloro-1,1,1-trifluoroethane	CHCl ₂ CF ₃	82.1
HCFC-124	2-chloro-1,1,1,2-tetrafluoroethane	CHClFCF ₃	10.3
HFC-134a	1,1,1,2-tetrafluoroethane	CH ₂ FCF ₃	-14.9
HFC-23	Trifluoromethane	CHF ₃	-115.7

DuPont Fluorochemicals
Wilmington, Delaware 19880-0711
(800) 235-SUVA