

TEMPERATURE CONVERSION CHART

RED NUMBERS refer to temperature, either in degrees Centigrade or Fahrenheit, which it is desired to convert into the other scale. When converting from Fahrenheit to Centigrade, read equivalent temperature in left column; when converting from Centigrade to Fahrenheit, find equivalent temperature in right column. These data were compiled by Dr. Albert Sauver and are reprinted by permission. Temperatures not listed may be determined by the formulae:

Degrees Centigrade = degrees Fahrenheit minus 32, times 5/9.

Degrees Fahrenheit = degrees Centigrade times 9/5, plus 32.



-70° to 650°



C.		F.	C.		F.	C.		F.
-57.0	-70	-94.0	- 1.1	30	86.0	46.1	115	239.0
-51.0	-60	-76.0	- 0.6	31	87.8	48.9	120	248.0
-46.0	-50	-58.0	0.0	32	89.6	51.7	125	257.0
-40.0	-40	-40.0	0.6	33	91.4	54.4	130	266.0
-39.4	-39	-38.2	1.1	34	93.2	57.2	135	275.0
-38.9	-38	-36.4	1.7	35	95.0	60.0	140	284.0
-38.3	-37	-34.6	2.2	36	96.8	62.8	145	293.0
-37.8	-36	-32.8	2.8	37	98.6	65.6	150	302.0
-37.2	-35	-31.0	3.3	38	100.4	68.3	155	311.0
-36.7	-34	-29.2	3.9	39	102.2	71.1	160	320.0
-36.1	-33	-27.4	4.4	40	104.0	73.9	165	329.0
-35.6	-32	-25.6	5.0	41	105.8	76.7	170	338.0
-35.0	-31	-23.8	5.6	42	107.6	79.4	175	347.0
-34.4	-30	-22.0	6.1	43	109.4	82.2	180	356.0
-33.8	-29	-20.2	6.7	44	111.2	85.0	185	365.0
-33.3	-28	-18.4	7.2	45	113.0	87.8	190	374.0
-32.8	-27	-16.6	7.8	46	114.8	90.6	195	383.0
-32.2	-26	-14.8	8.3	47	116.6	93.3	200	392.0
-31.7	-25	-13.0	8.9	48	118.4	96.1	205	401.0
-31.1	-24	-11.2	9.4	49	120.2	98.9	210	410.0
-30.6	-23	- 9.4	10.0	50	122.0	101.7	215	419.0
-30.0	-22	- 7.6	10.6	51	123.8	104.4	220	428.0
-29.4	-21	- 5.8	11.1	52	125.6	107.2	225	437.0
-28.9	-20	- 4.0	11.7	53	127.4	110.0	230	446.0
-28.3	-19	- 2.2	12.2	54	129.2	112.8	235	455.0
-27.8	-18	- 0.4	12.8	55	131.0	115.6	240	464.0
-27.2	-17	+ 1.4	13.3	56	132.8	118.3	245	473.0
-26.7	-16	3.2	13.9	57	134.6	121.1	250	482.0
-26.1	-15	5.0	14.4	58	136.4	123.9	255	491.0
-25.6	-14	6.8	15.0	59	138.2	126.7	260	500.0
-25.0	-13	8.6	15.6	60	140.0	129.4	265	509.0
-24.4	-12	10.4	16.1	61	141.8	132.2	270	518.0
-23.9	-11	12.2	16.7	62	143.6	135.0	275	527.0
-23.3	-10	14.0	17.2	63	145.4	137.8	280	536.0
-22.8	- 9	15.8	17.8	64	147.2	140.6	285	545.0
-22.2	- 8	17.6	18.3	65	149.0	143.3	290	554.0
-21.7	- 7	19.4	18.9	66	150.8	146.1	295	563.0
-21.1	- 6	21.2	19.4	67	152.6	148.9	300	572.0
-20.6	- 5	23.0	20.0	68	154.4	151.7	305	581.0
-20.0	- 4	24.8	20.6	69	156.2	154.4	310	590.0
-19.4	- 3	26.6	21.1	70	158.0	157.2	315	599.0
-18.9	- 2	28.4	21.7	71	159.8	160.0	320	608.0
-18.3	- 1	30.2	22.2	72	161.6	162.8	325	617.0
-17.8	0	32.0	22.8	73	163.4	165.6	330	626.0
-17.2	1	33.8	23.3	74	165.2	168.4	335	635.0
-16.7	2	35.6	23.9	75	167.0	171.2	340	644.0
-16.1	3	37.4	24.4	76	168.8	174.0	345	653.0
-15.6	4	39.2	25.0	77	170.6	176.8	350	662.0
-15.0	5	41.0	25.6	78	172.4	179.6	355	671.0
-14.4	6	42.8	26.1	79	174.2	182.4	360	680.0
-13.9	7	44.6	26.7	80	176.0	185.2	365	689.0
-13.3	8	46.4	27.2	81	177.8	188.0	370	698.0
-12.8	9	48.2	27.8	82	179.6	190.8	375	707.0
-12.2	10	50.0	28.3	83	181.4	193.6	380	716.0
-11.7	11	51.8	28.9	84	183.2	196.4	385	725.0
-11.1	12	53.6	29.4	85	185.0	199.2	390	734.0
-10.6	13	55.4	30.0	86	186.8	202.0	395	743.0
-10.0	14	57.2	30.6	87	188.6	204.8	400	752.0
- 9.4	15	59.0	31.1	88	190.4	207.6	405	761.0
- 8.9	16	60.8	31.7	89	192.2	210.4	410	770.0
- 8.3	17	62.6	32.2	90	194.0	213.2	415	779.0
- 7.8	18	64.4	32.8	91	195.8	216.0	420	788.0
- 7.2	19	66.2	33.3	92	197.6	218.8	425	797.0
- 6.7	20	68.0	33.9	93	199.4	221.6	430	806.0
- 6.1	21	69.8	34.4	94	201.2	224.4	435	815.0
- 5.6	22	71.6	35.0	95	203.0	227.2	440	824.0
- 5.0	23	73.4	35.6	96	204.8	230.0	445	833.0
- 4.4	24	75.2	36.1	97	206.6	232.8	450	842.0
- 3.9	25	77.0	36.7	98	208.4	235.6	455	851.0
- 3.3	26	78.8	37.2	99	210.2	238.4	460	860.0
- 2.8	27	80.6	37.8	100	212.0	241.2	465	869.0
- 2.2	28	82.4	40.6	105	221.0	254.4	490	914.0
- 1.7	29	84.2	43.3	110	230.0	267.6	515	959.0

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manufacturing company, inc.

MANSFIELD, OHIO

the *special* thermostat you need
may be a Stevens *standard*..

ULTIMHEAT
VIRTUAL MUSEUM

• The Stevens thermostats listed are just a few from the largest line of bimetal thermostats in the industry. So even if you have an unusual problem in thermostat design, check with Stevens first. Chances are a *standard* Stevens thermostat will satisfy all your performance, size, cost and delivery problems.

FEATURES	Type S	TYPE SA	TYPE R	TYPE W	TYPE M	TYPE C
STYLES						
Non-Adjustable	Yes	Yes	Yes	Yes	Yes	Yes
Adjustable	Yes	Yes	Yes	Yes	No	No
Manual Reset	No	Yes	No	No	No	No
Single Pole Double Throw	Yes	Yes	No	No	No	No
Positive Acting	Yes	—	Yes	—	—	Yes
Snap Acting	No	Yes	No	Yes	Yes	No
Open	Yes	Yes	No	No	Yes	Yes
Enclosed	No	No	Yes	Yes	Yes	Yes
Hermetically Sealed	No	No	No	No	Yes	Yes
ADJUSTABLE TEMPERATURE RANGE, Maximum						
	650° F.	650° F.	650° F.	650° F.	—	—
OPERATING TEMPERATURE, Maximum						
	650° F.	650° F.	650° F.	650° F.	450° F.	300° F.
DIFFERENTIAL between opening and closing (as measured on bimetal)						
Maximum (open or close)	App. 15° F.	150° F.	App. 15° F.	50° F.	400° F.	App. 5° F.
Minimum (open or close)	App. 5° F.	10° F.	App. 5° F.	5° F.	8° F.	App. 5° F.
CALIBRATING LIMITS						
Standard	±10° F.	±10° F.	±10° F.	±10° F.	±5° F.	±5° F.
Special	±5° F.	±5° F.	±5° F.	±5° F.	±3° F.	±3° F.
RATING (Non-Inductive Load)						
115 Volts a.c.	15 amps.	15 amps.	15 amps.	12 amps.	8 amps.	5 amps.
230 Volts a.c.	10 amps.	15 amps.	10 amps.	8 amps.	4 amps.	2 amps.
28 Volts d.c.	15 amps.	15 amps.	15 amps.	12 amps.	—	5 amps.
ANGLE OF ROTATION, Maximum						
	300°	300°	300°	300°	—	—
MOUNTING						
	Single Stud	Single Stud	See Bulletin F-2003	See Bulletin L-6395	See Bulletin F-2009	See Bulletin L-6934
VIBRATION RESISTANCE						
	Fair	Good	Fair	Good	Good	Good
CORROSION RESISTANCE						
Standard	Good	Good	Good	Good	Good	Good
Hermetically Sealed	No	No	No	No	Excellent	Excellent
HIGH ALTITUDE PERFORMANCE						
	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
SIZE						
	See Bulletin F-2006	See Bulletin L-6397	See Bulletin F-2003	See Bulletin L-6395	See Bulletin F-2009	See Bulletin L-6934

*Will interrupt 150 amps. 12 volts d.c.

“REFER TO DESCRIPTIVE LEAFLETS FOR UP TO DATE INFORMATION ON RATINGS, TEMPERATURES AND DIFFERENTIALS.”

MARK YOUR PRINTS -- STEVENS THERMOSTATS OR EQUAL

Note: All above ratings are conservative and may change, according to the application. Thermostats shown approximately half size.

have no

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