

CHART FOR MAINTAINING 50/50 COOLANT																					
FREEZE POINT (DEG. F OR DEG. C) VS. PERCENT ANTIFREEZE CONCENTRATE																					
PG deg F	32	27	25	20	16	10	4	-6	-16	-27	-38	-46	-46	-46	-46	-46	-46	-46	-46	PG	
EG deg F	32	25	20	15	10	5	-5	-12	-23	-34	-50	-65	-75	-84	-70	-55	-43	-30	-6	EG	
SYSTEM CAPACITY	0%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	100%	SYSTEM CAPACITY	
PG deg C	0	-3	-4	-7	-9	-12	-16	-21	-27	-33	-39	-60	-60	-60	-60	-60	-60	-60	-60	PG	
EG deg C	0	-4	-7	-9	-12	-15	-21	-24	-31	-37	-46	-54	-59	-64	-57	-48	-42	-34	-21	EG	
QUART, LITER, GALLON	DRAIN COOLANT, ADD ANTIFREEZE CONCENTRATE (QUARTS, LITERS, OR GALLONS).										DRAIN COOLANT, ADD WATER (QUARTS, LITERS, GALLONS)										QUART, LITER, GALLON
10	5.0	4.4	4.1	3.8	3.3	2.9	2.3	1.7	0.9	0	0.9	1.7	2.3	2.9	3.3	3.8	4.1	4.4	5.0	10	
12	6.0	5.3	4.9	4.5	4.0	3.4	2.8	2.0	1.1	0	1.1	2.0	2.8	3.4	4.0	4.5	4.9	5.3	6.0	12	
14	7.0	6.2	5.8	5.3	4.7	4.0	3.2	2.3	1.3	0	1.3	2.3	3.2	4.0	4.7	5.3	5.8	6.2	7.0	14	
16	8.0	7.1	6.6	6.0	5.3	4.6	3.7	2.7	1.5	0	1.5	2.7	3.7	4.6	5.3	6.0	6.6	7.1	8.0	16	
18	9.0	8.0	7.4	6.8	6.0	5.1	4.2	3.0	1.6	0	1.6	3.0	4.2	5.1	6.0	6.8	7.4	8.0	9.0	18	
20	10.0	8.9	8.2	7.5	6.7	5.7	4.6	3.3	1.8	0	1.8	3.3	4.6	5.7	6.7	7.5	8.2	8.9	10.0	20	
22	11.0	9.8	9.1	8.3	7.3	6.3	5.1	3.7	2.0	0	2.0	3.7	5.1	6.3	7.3	8.3	9.1	9.8	11.0	22	
24	12.0	10.7	9.9	9.0	8.0	6.9	5.5	4.0	2.2	0	2.2	4.0	5.5	6.9	8.0	9.0	9.9	10.7	12.0	24	
26	13.0	11.6	10.7	9.8	8.7	7.4	6.0	4.3	2.4	0	2.4	4.3	6.0	7.4	8.7	9.8	10.7	11.6	13.0	26	
28	14.0	12.4	11.5	10.5	9.3	8.0	6.5	4.7	2.5	0	2.5	4.7	6.5	8.0	9.3	10.5	11.5	12.4	14.0	28	
30	15.0	13.3	12.4	11.3	10.0	8.6	6.9	5.0	2.7	0	2.7	5.0	6.9	8.6	10.0	11.3	12.4	13.3	15.0	30	
32	16.0	14.2	13.2	12.0	10.7	9.1	7.4	5.3	2.9	0	2.9	5.3	7.4	9.1	10.7	12.0	13.2	14.2	16.0	32	
34	17.0	15.1	14.0	12.8	11.3	9.7	7.8	5.7	3.1	0	3.1	5.7	7.8	9.7	11.3	12.8	14.0	15.1	17.0	34	
36	18.0	16.0	14.8	13.5	12.0	10.3	8.3	6.0	3.3	0	3.3	6.0	8.3	10.3	12.0	13.5	14.8	16.0	18.0	36	
38	19.0	16.9	15.6	14.3	12.7	10.9	8.8	6.3	3.5	0	3.5	6.3	8.8	10.9	12.7	14.3	15.6	16.9	19.0	38	
40	20.0	17.8	16.5	15.0	13.3	11.4	9.2	6.7	3.6	0	3.6	6.7	9.2	11.4	13.3	15.0	16.5	17.8	20.0	40	
42	21.0	18.6	17.3	15.5	13.7	11.7	9.4	6.8	3.7	0	3.7	6.8	9.4	11.7	13.7	15.5	17.3	18.6	21.0	42	
44	22.0	19.5	18.1	16.5	14.7	12.6	10.2	7.3	4.0	0	4.0	7.3	10.2	12.6	14.7	16.5	18.1	19.5	22.0	44	
46	23.0	20.4	18.9	17.3	15.5	13.3	10.9	7.8	4.1	0	4.1	7.8	10.9	13.3	15.5	17.3	18.9	20.4	23.0	46	
48	24.0	21.3	19.8	18.0	16.0	13.7	11.1	8.0	4.4	0	4.4	8.0	11.1	13.7	16.0	18.0	19.8	21.3	24.0	48	
50	25.0	22.2	20.6	18.7	16.5	14.1	11.4	8.2	4.7	0	4.7	8.2	11.4	14.1	16.5	18.7	20.6	22.2	25.0	50	
52	26.0	23.1	21.4	19.5	17.3	14.9	12.0	8.7	4.7	0	4.7	8.7	12.0	14.9	17.3	19.5	21.4	23.1	26.0	52	
54	27.0	24.0	22.2	20.0	17.7	15.1	12.1	9.0	5.0	0	5.0	9.0	12.1	15.1	17.7	20.0	22.2	24.0	27.0	54	
56	28.0	24.9	23.1	21.0	18.7	16.0	12.9	9.3	5.1	0	5.1	9.3	12.9	16.0	18.7	21.0	23.1	24.9	28.0	56	
58	29.0	25.7	23.7	21.5	19.1	16.2	13.0	9.5	5.2	0	5.2	9.5	13.0	16.2	19.1	21.5	23.7	25.7	29.0	58	
60	30.0	26.7	24.7	22.5	20.0	17.1	13.8	10.0	5.5	0	5.5	10.0	13.8	17.1	20.0	22.5	24.7	26.7	30.0	60	
62	31.0	27.6	25.4	23.0	20.3	17.3	14.4	10.7	5.6	0	5.6	10.7	14.4	18.3	21.3	24.0	26.4	27.6	31.0	62	
64	32.0	28.4	26.1	23.5	20.6	17.5	14.8	11.0	5.8	0	5.8	11.0	14.8	19.4	22.7	25.5	28.0	30.2	34.0	64	
66	33.0	29.2	26.8	24.0	21.0	17.8	15.0	11.3	6.0	0	6.0	11.3	15.0	19.9	23.3	26.1	29.2	29.2	33.0	66	
68	34.0	30.0	27.5	24.5	21.3	18.0	15.2	11.6	6.2	0	6.2	11.6	15.2	20.4	24.0	26.8	29.2	30.0	34.0	68	
70	35.0	30.8	28.1	25.0	21.6	18.3	15.4	11.9	6.4	0	6.4	11.9	15.4	20.9	24.6	27.5	30.8	30.8	35.0	70	
72	36.0	31.6	28.7	25.5	22.0	18.6	15.6	12.0	6.5	0	6.5	12.0	15.6	21.4	25.1	28.1	31.6	31.6	36.0	72	
74	37.0	32.4	29.4	26.1	22.3	18.8	15.8	12.1	6.6	0	6.6	12.1	15.8	21.9	25.6	28.7	32.4	32.4	37.0	74	
76	38.0	33.2	30.1	26.7	22.6	19.0	16.0	12.2	6.8	0	6.8	12.2	16.0	22.4	26.1	29.4	33.2	33.2	38.0	76	
78	39.0	34.0	30.8	27.2	22.9	19.2	16.2	12.3	7.0	0	7.0	12.3	16.2	22.9	26.7	30.8	34.0	34.0	39.0	78	
80	40.0	34.8	31.5	27.7	23.2	19.4	16.4	12.4	7.2	0	7.2	12.4	16.4	23.4	27.2	30.8	34.8	34.8	40.0	80	
82	41.0	35.6	32.2	28.1	23.5	19.6	16.6	12.5	7.4	0	7.4	12.5	16.6	23.9	27.7	31.5	35.6	35.6	41.0	82	
84	42.0	36.4	32.9	28.4	23.8	19.8	16.8	12.6	7.6	0	7.6	12.6	16.8	24.4	28.1	32.2	36.4	36.4	42.0	84	
86	43.0	37.2	33.6	28.7	24.1	20.0	17.0	12.7	7.8	0	7.8	12.7	17.0	24.9	28.4	32.9	37.2	37.2	43.0	86	
88	44.0	38.0	34.3	29.0	24.4	20.2	17.2	12.8	8.0	0	8.0	12.8	17.2	25.4	29.0	33.6	38.0	38.0	44.0	88	
90	45.0	38.8	34.9	29.3	24.7	20.4	17.4	12.9	8.2	0	8.2	12.9	17.4	25.9	29.3	34.3	38.8	38.8	45.0	90	
92	46.0	39.6	35.6	29.6	25.0	20.6	17.6	13.0	8.4	0	8.4	13.0	17.6	26.4	29.6	34.9	39.6	39.6	46.0	92	
94	47.0	40.4	36.3	29.9	25.3	20.8	17.8	13.1	8.6	0	8.6	13.1	17.8	26.9	29.9	35.6	40.4	40.4	47.0	94	
96	48.0	41.2	37.0	30.2	25.6	21.0	18.0	13.2	8.8	0	8.8	13.2	18.0	27.4	30.2	36.3	41.2	41.2	48.0	96	
98	49.0	42.0	37.7	30.5	25.9	21.2	18.2	13.3	9.0	0	9.0	13.3	18.2	27.9	30.5	37.0	42.0	42.0	49.0	98	
100	50.0	42.8	38.4	30.8	26.2	21.4	18.4	13.4	9.2	0	9.2	13.4	18.4	28.4	30.8	37.7	42.8	42.8	50.0	100	
(ROUNDED TO NEAREST WHOLE UNIT)																					
PG >>>>	+32F	+27F	+25F	+20F	+16F	+10F	+5F	-5F	-12F	-23F	-34F	-50F	CANNOT BE READ FROM REFRACTOMETER							PG	
EG >>>>	+32F	+25F	+20F	+15F	+10F	+5F	-5F	-12F	-23F	-34F	-50F	CANNOT BE READ FROM REFRACTOMETER							EG		
SYSTEM CAPACITY	0%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	100%	SYSTEM CAPACITY	
QUART, LITER, GALLON	0C	-3C	-4C	-7C	-9C	-12C	-16C	-21C	-27C	-33C	-39C	CANNOT BE READ FROM REFRACTOMETER							QUART, LITER, GALLON		
EG >>>>	0C	-3C	-4C	-7C	-9C	-12C	-16C	-21C	-27C	-33C	-39C	CANNOT BE READ FROM REFRACTOMETER							EG		
QUART, LITER, GALLON	DRAIN COOLANT, ADD ANTIFREEZE CONCENTRATE (QUARTS, LITERS, OR GALLONS).										DRAIN COOLANT, ADD WATER (QUARTS, LITERS, GALLONS)										QUART, LITER, GALLON
10	5	4	4	4	3	3	2	2	1	0	1	2	2	3	3	4	4	4	5	10	
12	6	5	5	5	4	3	3	2	1	0	1	2	3	3	4	5	5	5	6	12	
14	7	6	6	5	5	4	3	2	1	0	1	2	3	4	5	5	6	6	7	14	
16	8	7	7	6	5	5	4	3	1	0	1	3	4	5	5	6	7	7	8	16	
18	9	8	7	7	6	5	4	3	2	0	2	3	4	5	6	7	7	8	9	18	
20	10	9	8	8	7	6	5	3	2	0	2	3	5	6	7	8	8	9	10	20	
22	11	10	9	8	7	6	5	4	2	0	2	4	5	6	7	8	9	10	11	22	
24	12	11	10	9	8	7	6	4	2	0	2	4	6	7	8	9	10	11	12	24	
26	13	12	11	10	9	7	6	4	2	0	2	4	6	7	9	10	11	12	13	26	
28	14	12	12	11	9	8	6	5	3	0	3	5	6	8	9	11	12	12	14	28	
30	15	13	12	11	10	9	7	5	3	0	3	5	7	9	10	11	12	13	15	30	
32	16	14	13	12	11	9	7	5	3	0	3	5	7	9	11	12	13	14	16	32	
34	17	15	14	13	11	10	8	6	3	0	3	6	8	10	11	13	14	15	17	34	
36	18	16	15	14	12	10	8	6	3	0	3	6	8	10	12	14	15	16	18		