

Fuel type BTU chart

Electricity		3,413 Btu / kWh			Storage	Dual Fuel	All Other			Summer
	\$ / kWh	\$ 0.045	\$ 0.050	\$ 0.055	\$ 0.060	\$ 0.065	\$ 0.070	\$ 0.090	\$ 0.1055	\$ 0.1196
System Efficiency (C.O.P. or EF)	82%	16.08	17.87	19.65	21.44	23.23	25.01	32.16	37.70	42.73
	85%	15.51	17.24	18.96	20.68	22.41	24.13	31.02	36.37	41.23
	92%	14.33	15.92	17.52	19.11	20.70	22.29	28.66	33.60	38.09
	100%	13.18	14.65	16.11	17.58	19.04	20.51	26.37	30.91	35.04
	150%	8.79	9.77	10.74	11.72	12.70	13.67	17.58	20.61	23.36
	180%	7.32	8.14	8.95	9.77	10.58	11.39	14.65	17.17	19.47
	200%	6.59	7.32	8.06	8.79	9.52	10.25	13.18	15.46	17.52
	225%	5.86	6.51	7.16	7.81	8.46	9.12	11.72	13.74	15.57
	250%	5.27	5.86	6.45	7.03	7.62	8.20	10.55	12.36	14.02
	275%	4.79	5.33	5.86	6.39	6.93	7.46	9.59	11.24	12.74
	300%	4.39	4.88	5.37	5.86	6.35	6.84	8.79	10.30	11.68
	325%	4.06	4.51	4.96	5.41	5.86	6.31	8.11	9.51	10.78
	350%	3.77	4.19	4.60	5.02	5.44	5.86	7.53	8.83	10.01
	375%	3.52	3.91	4.30	4.69	5.08	5.47	7.03	8.24	9.34
	400%	3.30	3.66	4.03	4.39	4.76	5.13	6.59	7.73	8.76

Represents ccASHP

Represents typical ASHP

Represents Electric Resistive

Propane		91,500 Btu / gallon								
	\$ / gal	\$ 0.55	\$ 0.65	\$ 0.75	\$ 0.85	\$ 1.40	\$ 1.50	\$ 1.60	\$ 1.65	\$ 1.70
System Efficiency (AFUE or EF)	55%	10.93	12.92	14.90	16.89	27.82	29.81	31.79	32.79	33.78
	65%	9.25	10.93	12.61	14.29	23.54	25.22	26.90	27.74	28.58
	75%	8.01	9.47	10.93	12.39	20.40	21.86	23.32	24.04	24.77
	80%	7.51	8.88	10.25	11.61	19.13	20.49	21.86	22.54	23.22
	90%	6.68	7.89	9.11	10.32	17.00	18.21	19.43	20.04	20.64
	92%	6.53	7.72	8.91	10.10	16.63	17.82	19.01	19.60	20.19
	95%	6.33	7.48	8.63	9.78	16.11	17.26	18.41	18.98	19.56
	98%	6.13	7.25	8.36	9.48	15.61	16.73	17.84	18.40	18.96

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Natural Gas

100,000 Btu / therm

		\$ / ccf	\$ 0.65	\$ 0.70	\$ 0.75	\$ 0.80	\$ 0.85	\$ 0.90	\$ 0.95	\$ 1.00	\$ 1.05
System Efficiency (AFUE or EF)	60%		10.83	11.67	12.50	13.33	14.17	15.00	15.83	16.67	17.50
	65%		10.00	10.77	11.54	12.31	13.08	13.85	14.62	15.38	16.15
	75%		8.67	9.33	10.00	10.67	11.33	12.00	12.67	13.33	14.00
	80%		8.13	8.75	9.38	10.00	10.63	11.25	11.88	12.50	13.13
	82%		7.93	8.54	9.15	9.76	10.37	10.98	11.59	12.20	12.80
	90%		7.22	7.78	8.33	8.89	9.44	10.00	10.56	11.11	11.67
	92%		7.07	7.61	8.15	8.70	9.24	9.78	10.33	10.87	11.41
	95%		6.84	7.37	7.89	8.42	8.95	9.47	10.00	10.53	11.05

Fuel Oil

138,700 Btu / gallon

		\$ / gal	\$ 2.00	\$ 2.10	\$ 2.20	\$ 2.30	\$ 2.40	\$ 2.50	\$ 2.75	\$ 3.00	\$ 3.25
System Eff. (AFUE / EF)	55%		26.22	27.53	28.84	30.15	31.46	32.77	36.05	39.33	42.60
	60%		24.03	25.23	26.44	27.64	28.84	30.04	33.04	36.05	39.05
	70%		20.60	21.63	22.66	23.69	24.72	25.75	28.32	30.90	33.47
	80%		18.02	18.93	19.83	20.73	21.63	22.53	24.78	27.04	29.29
	85%		16.96	17.81	18.66	19.51	20.36	21.21	23.33	25.45	27.57

*C.O.P - Co-efficient of Performance

**AFUE - Annual Fuel Utilization Efficiency

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\$ 0.12	\$ 0.13	\$ 0.14
42.88	46.45	50.02
41.36	44.81	48.26
38.22	41.40	44.59
35.16	38.09	41.02
23.44	25.39	27.35
19.53	21.16	22.79
17.58	19.04	20.51
15.63	16.93	18.23
14.06	15.24	16.41
12.79	13.85	14.92
11.72	12.70	13.67
10.82	11.72	12.62
10.05	10.88	11.72
9.38	10.16	10.94
8.79	9.52	10.25

\$ 1.90	\$ 2.00	\$ 2.10
37.75	39.74	41.73
31.95	33.63	35.31
27.69	29.14	30.60
25.96	27.32	28.69
23.07	24.29	25.50
22.57	23.76	24.95
21.86	23.01	24.16
21.19	22.30	23.42

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\$ 1.10	\$ 1.15	\$ 1.20
18.33	19.17	20.00
16.92	17.69	18.46
14.67	15.33	16.00
13.75	14.38	15.00
13.41	14.02	14.63
12.22	12.78	13.33
11.96	12.50	13.04
11.58	12.11	12.63

\$ 3.50	\$ 3.75	\$ 4.00
45.88	49.16	52.43
42.06	45.06	48.07
36.05	38.62	41.20
31.54	33.80	36.05
29.69	31.81	33.93