

Fuel type BTU chart

Electricity 3,413 Btu / kWh

	\$ / kWh	\$ 0.070	\$ 0.075	\$ 0.080	\$ 0.085	\$ 0.090	\$ 0.095	\$ 0.120	\$ 0.125	\$ 0.130	\$ 0.135	\$ 0.140	\$ 0.145
System Efficiency (C.O.P. or EF)	82%	25.01	26.80	28.59	30.37	32.16	33.94	42.88	44.66	46.45	48.24	50.02	51.81
	85%	24.13	25.85	27.58	29.30	31.02	32.75	41.36	43.09	44.81	46.53	48.26	49.98
	92%	22.29	23.89	25.48	27.07	28.66	30.26	38.22	39.81	41.40	42.99	44.59	46.18
	100%	20.51	21.97	23.44	24.90	26.37	27.83	35.16	36.62	38.09	39.55	41.02	42.48
	150%	13.67	14.65	15.63	16.60	17.58	18.56	23.44	24.42	25.39	26.37	27.35	28.32
	180%	11.39	12.21	13.02	13.84	14.65	15.46	19.53	20.35	21.16	21.97	22.79	23.60
	200%	10.25	10.99	11.72	12.45	13.18	13.92	17.58	18.31	19.04	19.78	20.51	21.24
	225%	9.12	9.77	10.42	11.07	11.72	12.37	15.63	16.28	16.93	17.58	18.23	18.88
	250%	8.20	8.79	9.38	9.96	10.55	11.13	14.06	14.65	15.24	15.82	16.41	16.99
	275%	7.46	7.99	8.52	9.06	9.59	10.12	12.79	13.32	13.85	14.38	14.92	15.45
	300%	6.84	7.32	7.81	8.30	8.79	9.28	11.72	12.21	12.70	13.18	13.67	14.16
	325%	6.31	6.76	7.21	7.66	8.11	8.56	10.82	11.27	11.72	12.17	12.62	13.07
	350%	5.86	6.28	6.70	7.12	7.53	7.95	10.05	10.46	10.88	11.30	11.72	12.14
	375%	5.47	5.86	6.25	6.64	7.03	7.42	9.38	9.77	10.16	10.55	10.94	11.33
	400%	5.13	5.49	5.86	6.23	6.59	6.96	8.79	9.16	9.52	9.89	10.25	10.62
Represents ccASHP			Represents typical ASHP				Represents Electric Resistive						

Propane 91,500 Btu / gallon

	\$ / gal	\$ 0.60	\$ 0.65	\$ 0.75	\$ 0.95	\$ 1.40	\$ 1.50	\$ 1.60	\$ 1.65	\$ 1.70	\$ 1.90	\$ 2.00	\$ 2.10
System Efficiency (AFUE or EF)	55%	11.92	12.92	14.90	18.88	27.82	29.81	31.79	32.79	33.78	37.75	39.74	41.73
	65%	10.09	10.93	12.61	15.97	23.54	25.22	26.90	27.74	28.58	31.95	33.63	35.31
	75%	8.74	9.47	10.93	13.84	20.40	21.86	23.32	24.04	24.77	27.69	29.14	30.60
	80%	8.20	8.88	10.25	12.98	19.13	20.49	21.86	22.54	23.22	25.96	27.32	28.69
	90%	7.29	7.89	9.11	11.54	17.00	18.21	19.43	20.04	20.64	23.07	24.29	25.50
	92%	7.13	7.72	8.91	11.29	16.63	17.82	19.01	19.60	20.19	22.57	23.76	24.95
	95%	6.90	7.48	8.63	10.93	16.11	17.26	18.41	18.98	19.56	21.86	23.01	24.16
	98%	6.69	7.25	8.36	10.59	15.61	16.73	17.84	18.40	18.96	21.19	22.30	23.42

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	\$ 1.10	\$ 1.15	\$ 1.20
ncy ;)	60%	10.83	11.67	12.50	13.33	14.17	15.00	15.83	16.67	17.50	18.33	19.17	20.00
	65%	10.00	10.77	11.54	12.31	13.08	13.85	14.62	15.38	16.15	16.92	17.69	18.46

Fuel type BTU chart

System Efficiency (AFUE or EF)	75%	8.67	9.33	10.00	10.67	11.33	12.00	12.67	13.33	14.00	14.67	15.33	16.00
	80%	8.13	8.75	9.38	10.00	10.63	11.25	11.88	12.50	13.13	13.75	14.38	15.00
	82%	7.93	8.54	9.15	9.76	10.37	10.98	11.59	12.20	12.80	13.41	14.02	14.63
	90%	7.22	7.78	8.33	8.89	9.44	10.00	10.56	11.11	11.67	12.22	12.78	13.33
	92%	7.07	7.61	8.15	8.70	9.24	9.78	10.33	10.87	11.41	11.96	12.50	13.04
	95%	6.84	7.37	7.89	8.42	8.95	9.47	10.00	10.53	11.05	11.58	12.11	12.63

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	\$ 3.50	\$ 3.75	\$ 4.00
System Eff. (AFUE / EF)	55%	26.22	27.53	28.84	30.15	31.46	32.77	36.05	39.33	42.60	45.88	49.16	52.43
	60%	24.03	25.23	26.44	27.64	28.84	30.04	33.04	36.05	39.05	42.06	45.06	48.07
	70%	20.60	21.63	22.66	23.69	24.72	25.75	28.32	30.90	33.47	36.05	38.62	41.20
	80%	18.02	18.93	19.83	20.73	21.63	22.53	24.78	27.04	29.29	31.54	33.80	36.05
	85%	16.96	17.81	18.66	19.51	20.36	21.21	23.33	25.45	27.57	29.69	31.81	33.93

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

**AFUE - Annual Fuel Utilization Efficiency