

## Fuel type BTU chart

<b>Electricity</b>		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	\$ 0.12	\$ 0.13	\$ 0.14
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	42.88	46.45	50.02	
	85%	15.51	17.24	18.96	20.68	22.41	24.13	31.02	36.37	41.23	41.36	44.81	48.26	
	92%	14.33	15.92	17.52	19.11	20.70	22.29	28.66	33.60	38.09	38.22	41.40	44.59	
	100%	13.18	14.65	16.11	17.58	19.04	20.51	26.37	30.91	35.04	35.16	38.09	41.02	
	150%	8.79	9.77	10.74	11.72	12.70	13.67	17.58	20.61	23.36	23.44	25.39	27.35	
	180%	7.32	8.14	8.95	9.77	10.58	11.39	14.65	17.17	19.47	19.53	21.16	22.79	
	200%	6.59	7.32	8.06	8.79	9.52	10.25	13.18	15.46	17.52	17.58	19.04	20.51	
	225%	5.86	6.51	7.16	7.81	8.46	9.12	11.72	13.74	15.57	15.63	16.93	18.23	
	250%	5.27	5.86	6.45	7.03	7.62	8.20	10.55	12.36	14.02	14.06	15.24	16.41	
	275%	4.79	5.33	5.86	6.39	6.93	7.46	9.59	11.24	12.74	12.79	13.85	14.92	
	300%	4.39	4.88	5.37	5.86	6.35	6.84	8.79	10.30	11.68	11.72	12.70	13.67	
	325%	4.06	4.51	4.96	5.41	5.86	6.31	8.11	9.51	10.78	10.82	11.72	12.62	
	350%	3.77	4.19	4.60	5.02	5.44	5.86	7.53	8.83	10.01	10.05	10.88	11.72	
	375%	3.52	3.91	4.30	4.69	5.08	5.47	7.03	8.24	9.34	9.38	10.16	10.94	
400%	3.30	3.66	4.03	4.39	4.76	5.13	6.59	7.73	8.76	8.79	9.52	10.25		

<b>Propane</b>		91,500 Btu / gallon												
		\$ / gal	\$ 0.70	\$ 0.80	\$ 0.90	\$ 1.00	\$ 1.10	\$ 1.20	\$ 1.30	\$ 1.35	\$ 1.50	\$ 1.60	\$ 1.70	\$ 1.80
System Efficiency (AFUE or EF)	55%	13.91	15.90	17.88	19.87	21.86	23.85	25.83	26.83	29.81	31.79	33.78	35.77	
	65%	11.77	13.45	15.13	16.81	18.50	20.18	21.86	22.70	25.22	26.90	28.58	30.26	
	75%	10.20	11.66	13.11	14.57	16.03	17.49	18.94	19.67	21.86	23.32	24.77	26.23	
	80%	9.56	10.93	12.30	13.66	15.03	16.39	17.76	18.44	20.49	21.86	23.22	24.59	
	90%	8.50	9.71	10.93	12.14	13.36	14.57	15.79	16.39	18.21	19.43	20.64	21.86	
	92%	8.32	9.50	10.69	11.88	13.07	14.26	15.44	16.04	17.82	19.01	20.19	21.38	
	95%	8.05	9.20	10.35	11.50	12.65	13.81	14.96	15.53	17.26	18.41	19.56	20.71	
	98%	7.81	8.92	10.04	11.15	12.27	13.38	14.50	15.06	16.73	17.84	18.96	20.07	

<b>Natural Gas</b>		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
System Efficiency (AFUE or EF)	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	
	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	

<b>Fuel Oil</b>		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

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