

1.033 mcf/dth
0.968 dth/mcf

FUEL COST COMPARISON

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FUEL	B.T.U./Gal.		EFF. %		COST		B.T.U./\$1.00	% COST COMPARISON
#2 Oil	140,000	×	.80	÷	.65	=	172,000	100% (Base)
#4 Oil	144,000	×	.80	÷	.60	=	192,000	89%
#5 Oil	145,000	×	.80	÷	.55	=	210,000	82%
#6 Oil	150,000	×	.80	÷	.50	=	240,000	72%
NAT. GAS	100,000/Therm	×	.76	÷	.40	=	190,000	91%
COAL	24M/Ton	×	.70	÷	\$60/Ton	=	240,000	72%
ELECT.	3412/KwHr.	×	1.0	÷	.08/KwHr.	=	42,650	404%

1 Blr HP = 34.5 lbs/steam/hr @ 212°F

1 Blr HP = 33,475 btu/hr = 9.8 KW

1 KW = 3412 Btu/hr = 1000 watts

1 electric HP = 746 watts

$$\text{AMPS (3 ph)} = \frac{\text{Watts}}{\text{Volts} \times 1.73}$$

$$\text{AMPS (1 ph)} = \frac{\text{Watts}}{\text{Volts}}$$

1 cu. ft. = 1728 cu. in. = 7.5 gal.

1 cu. ft. of water = 62.5 lb. @ 68°F

1 gal. of water = 8.3 lb. @ 68°F = 231 cu. in.

APPROX. STEAM PRESSURE VS. TEMPERATURE VALUES

Steam @	0 PSIG	212°F, 100°C
" @	10 PSIG	240°F, 116°C
" @	25 PSIG	267°F, 131°C
" @	35 PSIG	280°F, 138°C
" @	50 PSIG	298°F, 148°C
" @	75 PSIG	320°F, 160°C
" @	100 PSIG	338°F, 170°C
" @	125 PSIG	353°F, 178°C
" @	150 PSIG	366°F, 186°C
" @	200 PSIG	388°F, 198°C

BTU/hr = material wt. (lbs/Hr) x Temperature rise (°F) x specific heat

Spec. Ht. Water = 1.0

Spec. Ht. Oil = 0.5

90 ft³ NG. 11 GAL. PROPANE ~ 1 MCF