

Fuel Savings Comparison Using MPC Series Boilers [1]

Instructions:

1. Use table 1 to determine your expected annual fuel savings percent. (MPC thermal efficiencies are listed by size in table 2.)
2. Cross-reference the percent annual fuel savings with the appropriate MPC model number, along the left side of table 2. The corresponding amount is your estimated annual fuel savings (US dollars).

Example: Look at the shaded cells in table 1. The old boiler has a thermal efficiency of **83.5%**, the new boiler (in this case an MPC10) has an approximate thermal efficiency of **86.5%**. We would expect the MPC to be about **3.6%** more efficient than the existing boiler. Now use table 2 and cross-reference the model number (**MPC10**) with the gain in efficiency (4%). In this example, the customer would save approximately **\$2,529 annually** – an investment that will quickly pay for itself in most cases.

Thermal Efficiency Comparison

Thermal Efficiency Rating of Existing Boiler	86.0%						0.6%	1.2%	1.7%
	85.5%					0.6%	1.2%	1.8%	2.3%
	85.0%				0.6%	1.2%	1.8%	2.4%	2.9%
	84.5%			0.6%	1.2%	1.8%	2.4%	3.0%	3.6%
	84.0%		0.6%	1.2%	1.8%	2.4%	3.0%	3.6%	4.2%
	83.5%	0.6%	1.2%	1.8%	2.4%	3.0%	3.6%	4.2%	4.8%
	83.0%	1.2%	1.8%	2.4%	3.0%	3.6%	4.2%	4.8%	5.4%
	82.5%	1.8%	2.4%	3.0%	3.6%	4.2%	4.8%	5.5%	6.1%
	82.0%	2.4%	3.0%	3.7%	4.3%	4.9%	5.5%	6.1%	6.7%
	81.5%	3.1%	3.7%	4.3%	4.9%	5.5%	6.1%	6.7%	7.4%
	81.0%	3.7%	4.3%	4.9%	5.6%	6.2%	6.8%	7.4%	8.0%
	80.5%	4.3%	5.0%	5.6%	6.2%	6.8%	7.5%	8.1%	8.7%
	80.0%	5.0%	5.6%	6.3%	6.9%	7.5%	8.1%	8.8%	9.4%
	79.5%	5.7%	6.3%	6.9%	7.5%	8.2%	8.8%	9.4%	10.1%
79.0%	6.3%	7.0%	7.6%	8.2%	8.9%	9.5%	10.1%	10.8%	
		84.0%	84.5%	85.0%	85.5%	86.0%	86.5%	87.0%	87.5%
Thermal Efficiency Rating of Burnham Commercial MPC™									

Table 1

Model	GPH	Thermal Efficiency (Oil)	Annual Fuel Cost	Savings Guide									
				1%	2%	3%	4%	5%	6%	7%	8%	9%	10%
MPC4	3.6	87.3%	\$16,985	\$170	\$340	\$510	\$679	\$849	\$1,019	\$1,189	\$1,359	\$1,529	\$1,698
MPC5	5.5	86.9%	25,949	259	519	778	1,038	1,297	1,557	1,816	2,076	2,335	2,595
MPC6	7.1	86.8%	33,498	335	670	1,005	1,340	1,675	2,010	2,345	2,680	3,015	3,350
MPC7	8.7	86.7%	41,047	410	821	1,231	1,642	2,052	2,463	2,873	3,284	3,694	4,105
MPC8	10.2	86.7%	48,124	481	962	1,444	1,925	2,406	2,887	3,369	3,850	4,331	4,812
MPC9	11.8	86.6%	55,672	557	1,113	1,670	2,227	2,784	3,340	3,897	4,454	5,011	5,567
MPC10	13.4	86.6%	63,221	632	1,264	1,897	2,529	3,161	3,793	4,425	5,058	5,690	6,322
MPC11	15	86.6%	70,770	708	1,415	2,123	2,831	3,539	4,246	4,954	5,662	6,369	7,077
MPC12	16.6	86.5%	78,319	783	1,566	2,350	3,133	3,916	4,699	5,482	6,266	7,049	7,832
MPC13	18.2	86.5%	85,868	859	1,717	2,576	3,435	4,293	5,152	6,011	6,869	7,728	8,587
MPC14	19.8	86.5%	93,416	934	1,868	2,802	3,737	4,671	5,605	6,539	7,473	8,407	9,342
MPC15	21.5	86.5%	101,437	1,014	2,029	3,043	4,057	5,072	6,086	7,101	8,115	9,129	10,144
MPC16	23	86.4%	108,514	1,085	2,170	3,255	4,341	5,426	6,511	7,596	8,681	9,766	10,851
MPC17	24.5	86.4%	115,591	1,156	2,312	3,468	4,624	5,780	6,935	8,091	9,247	10,403	11,559
MPC18	26	86.4%	122,668	1,227	2,453	3,680	4,907	6,133	7,360	8,587	9,813	11,040	12,267

Table 2

[1] These figures are estimates only; other factors need to be considered to determine actual energy savings. Burnham Commercial is not responsible for actual results – Individual results may vary.

NOTE: Figures based on oil heat prices of \$3.259/gal with a heat content of 140,000 btu/gal and a 2,000 hour heating season. \$3.259/gal is based on EIA (Energy Information Administration) data as of 2/09/2009. The EIA is the statistical agency of the US Department of Energy.