

# Savings Report - 766 Shrewsbury

**Customer Name:** Paramount (on behalf of Magnatech USA LLC)

**Todays Date:** 02/14/23

**Dates of Trial:** 11/15/22 - 02/15/23

With Magnatech (A)		
Nov	Dec	2785
Dec	Jan	3362
Jan	Feb	2621
<b>Total Therms</b>		<b>8768.00</b>

Without Magnatech (B)		
Nov	Dec	3338
Dec	Jan	4952
Jan	Feb	4223
<b>Total Therms</b>		<b>12513.00</b>

## Degree Days Explained

Degree days are calculated by comparing the average temperature in a location to a baseline temperature, which is typically around 65 degrees Fahrenheit. If the average temperature is higher than the baseline temperature, the degree days are “cooling degree days,”

which means that energy will be needed to cool the building. If the average temperature is lower than the baseline temperature, the degree days are “heating degree days,” which means that energy will be needed to heat the building.

Total Consumption A	Total Consumption B
A = <b>8768.00</b>	B = <b>12513.00</b>
Using degree days figures from ‘closest weather station’ set at 16.5C. (www.Degreedays.net)	
Total Degree Days in Period A	Total Degree Days in Period B
Period A = <b>1024</b>	Period B = <b>1254</b>
Dividing total consumption by degree days = fuel burnt per degree day.	
Period A = <b>8.5625</b>	Period B = <b>9.9784689</b>
Reduction of consumption per HDD	
<b>HDD Reduction = -1.4159689</b>	
Reduction in Period A divided by Consumption in Period B *100 Gives you a percentage reduction figure:	
<b>Percentage Reduction = 14.2%</b>	
This proves a considerable reduction in fuel consumption over the comparable heating periods after the Magnatech units were installed.	

Weather Station Data KWRI_HDD_16.5C (1)	
<b>Description:</b>	Celsius-based heating degree days with a base temperature of 16.5 C
<b>Source:</b>	www.degreedays.net
<b>Accuracy:</b>	No problems detected
<b>Station:</b>	Maguire Air Force Base, NJ, US (74.59W,40.02N)
<b>Station ID:</b>	KWRI
<b>Month Starting:</b>	HDD 16.5
12-01-2021	293.5
01-01-2022	565.6
02-01-2022	395.4
<b>1254.5 TOTAL</b>	
12-01-2022	394.7
01-01-2023	310
02-01-2023	319.4
<b>1024.1 TOTAL</b>	