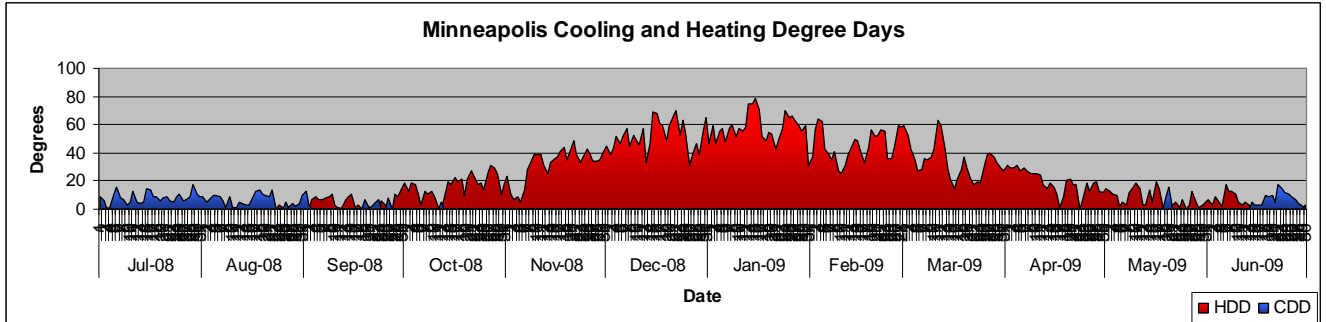
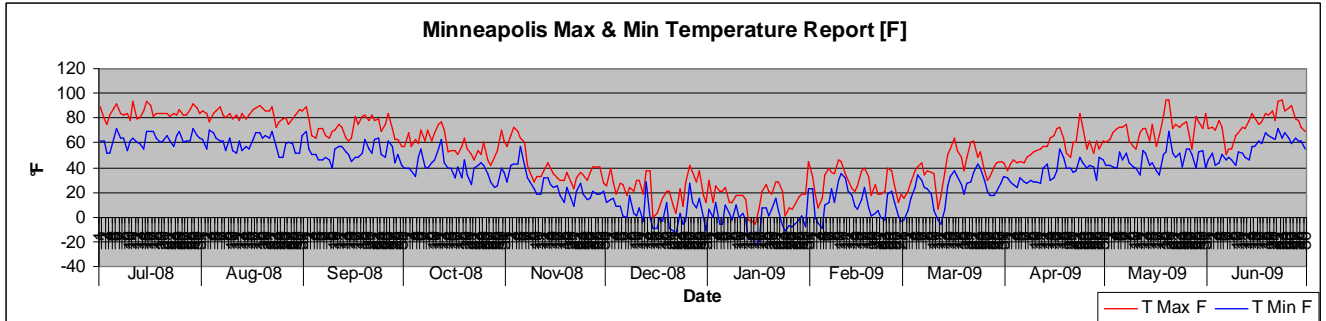


# Minneapolis, MN

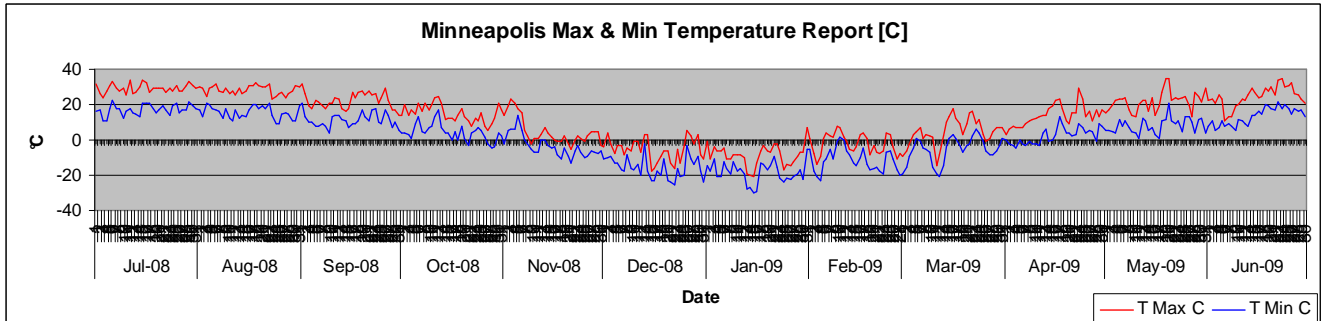
## Weather Charts



Avg. T°[F] per month



Avg. T°[C] per month



## Weather Breakdown

Month/Yr	hrs/yr <46[F]	Avg[F] <46[F]	hrs/yr <60[F]	Avg[F] <60[F]	HDD/yr	CDD/yr	hrs/yr >65[F]	Avg[F] >65[F]	hrs/yr >75[F]	Avg[F] >75[F]
	3,936	22	5,952	32	8,183	647	2,136	72	432	79
Month	hrs <46 [F]	Avg[F] <46	hrs <60 [F]	Avg[F] <60	HDD	CDD	hrs >65 [F]	Avg[F] >65	hrs >75 [F]	Avg[F] >75
Jul-2008	0		0		1	253	720	73	192	79
Aug-2008	0		0		4	189	672	72	96	78
Sep-2008	0		336	56	137	47	240	70	24	78
Oct-2008	216	40	672	47	501	5	24	70	0	
Nov-2008	600	29	720	33	954	0	0		0	
Dec-2008	744	13	744	13	1,608	0	0		0	
Jan-2009	744	8	744	8	1,775	0	0		0	
Feb-2009	672	20	672	20	1,263	0	0		0	
Mar-2009	648	29	744	31	1,052	0	0		0	
Apr-2009	312	39	672	45	564	1	24	66	0	
May-2009	0		432	54	225	26	72	74	24	81
Jun-2009	0		216	56	99	126	384	73	96	79

The City Heating Season chart depicts the normal months of the year when your sites heating system is in operation. It is not unusual in many areas of the country that your normal site heating system may operate prior to October or after May. When the AMS Waste Heat Recovery Unit is in operation will be up to the individual site regulated by temperature setting.

City Heating Season		
Heating Mo's	Hr's ≤60F <sup>o</sup>	Avg F <sup>o</sup> ≤60
Oct-2008	672	47
Nov-2008	720	33
Dec-2008	744	13
Jan-2009	744	8
Feb-2009	672	20
Mar-2009	744	31
Apr-2009	672	45
May-2009	432	54
<b>Total</b>	<b>5,400</b>	<b>31</b>

## Cost Savings

These are examples only. There are many variables that affect the actual outcomes. These would include GPM, temperature of incoming liquid and make-up, fan cfm, size restrictions, current cost of current heating fuel and type of plant heat used. Each AMS Waste Heat Recovery Package Unit is tailor designed to your specific site and needs so that we get the most MMBTU's from your waste heat, heat that is currently going out the stack. Many times, depending upon a sites waste heat availability, multiple units can be deployed multiplying the savings.

Fuel cost/unit	\$7.5000
Fuel BTU/unit	1000000
Efficiency rating of heater	65.00%
<b>Total effective cost of heat in MMBTU**</b>	<b>\$11.54</b>

Example 1:

MMBTU/hr	0.430
hrs ambient temp <60 deg F/yr	5400
Cost of heat/MMBTU**	\$11.54
<b>Total savings/yr</b>	<b>\$26,792.31</b>

Example 2:

MMBTU/hr	0.713
hrs ambient temp <60 deg F/yr	5400
Cost of heat/MMBTU**	\$11.54
<b>Total savings/yr</b>	<b>\$44,425.38</b>

\*\*Cost of heat in MMBTU: Assumption: Gas Fuel Steam Heat at \$7.50/unit