

Project Collegeway March 2007

Apartment 419 equipped with regular **baseboard heaters** has been run for 20 days parallel to apartment 319 equipped with **Redwell Infrared heaters**

Both apartments are the same location and direction # 419 on the 4th floor, # 319 on the 3rd floor

Installed capacity: Apt. # 419 = 4750 Watt (baseboard) and Apt. # 319 2400 Watt (Redwell)

Date	Outside temp.	Thermostat set	Meter reading 419 kWh	Apt. 419 Baseboard Tot. 4.75 kW			Meter reading 319 kWh	Apt. 319 Redwell Infrared			Tot. 2.4 kW		
				2000 Watt	1500 Watt	1250 Watt		900 Watt	900 Watt	600 Watt			
				Diningroom	Livingroom	Bedroom				Diningroom	Livingroom	Bedroom	
All measurements taken arround midday				midwall deg. C	midwall deg. C	midwall deg. C				midwall deg. C	deg. C	deg. C	deg. C
9/3/07		20 deg. C	37900	22	20	22	21892	17	16	15	18	18	18
10/3/07	4	"		22.5	21	23		25	90	22.5	24	25	89
11/3/07	1	"		23	21	24		25	90	22	24	26.5	90
12/3/07	5	"	38056 (Diff. 156 kWh)	22.5	20	23.5	21982 (Diff. 90 kWh)	24.5	52	22.5	24	26	90
13/3/07	8	17.5 deg. C		21	19.5	22		22	21	20.5	22	23.5	23
14/3/07	11	"	38103 (Diff. 47 kWh)	21	20	22.5	21983 (Diff. 1 kWh)	21.5	21	21	22	23.5	23
15/3/07	3	"	38123 (Diff. 20 kWh)	21	19.5	21.5	21983 (Diff. 0 kWh)	22	21	21	23	23	24
16/3/07	-2	"		21.5	20.5	22.5		24.5	82	22.5	24	26.5	23
17/3/07	1	"		20.5	18.5	21		21.5	21	19	21	21.5	22
18/3/07	0	"		22	20	22.5		22	21	20	22	23	23
19/3/07	-1	"	38259 (Diff. 136 kWh)	21	19.5	23	22012 (Diff. 29 kWh)	23.5	87	20	22	23	22
20/3/07	-5	"		22	19.5	22.5		22.5	23	19.5	22	23	22
21/3/07	0	"		20.5	19	21.5		21.5	21	19.5	21	22	23
22/3/07	7	"		20.5	19	21		20.5	20	19.5	21	22	23
23/3/07	9	"	38407 (Diff. 148 kWh)	19.5	18.5	21.5	22037 (Diff. 25 kWh)	21.5	22	20	22	22	22
24/3/07	5	"		20.5	18.5	22		21	21	20	21	22	38
25/3/07	3	"		21	19.5	21		21.5	22	20.5	22	23	24
26/3/07	7	"		21	20.5	21.5		22.5	23	22	23	23.5	22
27/3/07	11	"		20.5	20	21.5		20.5	21	20.5	22	22	23
28/3/07	8	"		21	20	23		22	22	20.5	22	23	23
29/3/07	3	"	38517 (Diff. 110 kWh)				22042 (Diff. 5 kWh)						
Total power usage:			in 20 days 617 kWh				in 20 days 150 kWh						

						Total usage	Percentage Saved
apt 419	37900	38056	38103	38123	38407	38517	
apt 319	21892	21982	21983	21983	22037	22042	
Used 419		156	47	20	284	110	617
Used 319		90	1	0	54	5	150
Savings		66	46	20	230	105	467
Cost Savings @ 6.4 cent \$		4.22 \$	2.94 \$	1.28 \$	14.72 \$	6.72 \$	29.89

