

Residential Load Calculator

Change Location:Provo

Name of Development:Fairfield

Elevation (ft):4350

Annual heating Degree Days:6232

Design Condition (F):-8

BTU Content at Elevation:868

BTU Content 60 F 14.73 psia:995

Specific Gravity:0.56

Deration Factor:0.83

Atmospheric Pressure:12.6

Diversity Factor:0.9

Housing Info

Ave sq ft	Buildings	Floors	Category	Appartments
2000	50	2	Midscale	
3000	5	2	Midscale	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	

Monthly Heating Degree Days

January:1241

February:981

March:810

April:454

May:274

June:75

July:2

August:1

September:79

October:396

November:782

December:1137

Gas Appliance Inventory

Appliance	Efficiency	Input (kBtu/hr)	% of Houses
Furnace AFUE	80	121	100
Furnace AFUE	95	102	0
WaterHeater EF	0.51	40	100
WaterHeater EF	0.59	47	0
Range		50	0
Dryer		22	0
Fireplace		35	0
Grill		20	0
Gas Lights		2.1	0
Pool Heater		200	0

Luxury Specific Gas Appliances

Appliance	kBtu/hr/House	% of Houses
Boiler	1780	100
Furnace	175	26
Fireplace	344	100
Log	80	15
SpaceHeater	62	5
Unit Heater	115	0
PatioHeater	90	0
Infrared	180	0
Spa Heater	200	0
Pool Heater	400	0
Base Usage	15	100
Boiler Input	1035	70
Driveway Size	4500	(sqft)
Heat Rate	230	BTU/(hr-ft^2)
Full Load	500	Hours/Year

Ave Installed(kBtu/hr)

161

Ave Installed(MCFH)

0.185

Peak Hourly (MCFH)

3.857

Ave Hourly (MCFH)

2.857

Peak Day (MCF)

68.561

Total Units

55

Heat Loss (Dth/F)

0.756

Dth	Furnace	W-Heater	Range	Dryer	Fireplace	Grill	Lights	Pool	Heating	Snowmelt	Other	Total
January	938.24	158.51	0	0	0	0	0	0	0	0	0	1096.75
February	741.67	143.33	0	0	0	0	0	0	0	0	0	885
March	612.39	155.48	0	0	0	0	0	0	0	0	0	767.87
April	343.24	146.57	0	0	0	0	0	0	0	0	0	489.81
May	207.15	145.14	0	0	0	0	0	0	0	0	0	352.3
June	56.7	126.06	0	0	0	0	0	0	0	0	0	182.76
July	1.51	118.69	0	0	0	0	0	0	0	0	0	120.2
August	0.76	116.77	0	0	0	0	0	0	0	0	0	117.52
September	59.73	116.33	0	0	0	0	0	0	0	0	0	176.05
October	299.39	129.69	0	0	0	0	0	0	0	0	0	429.08
November	591.22	136.35	0	0	0	0	0	0	0	0	0	727.56
December	859.61	152.24	0	0	0	0	0	0	0	0	0	1011.85
Annual	4711.59	1645.22	0	0	0	0	0	0	0	0	0	6356.81

Calculate