



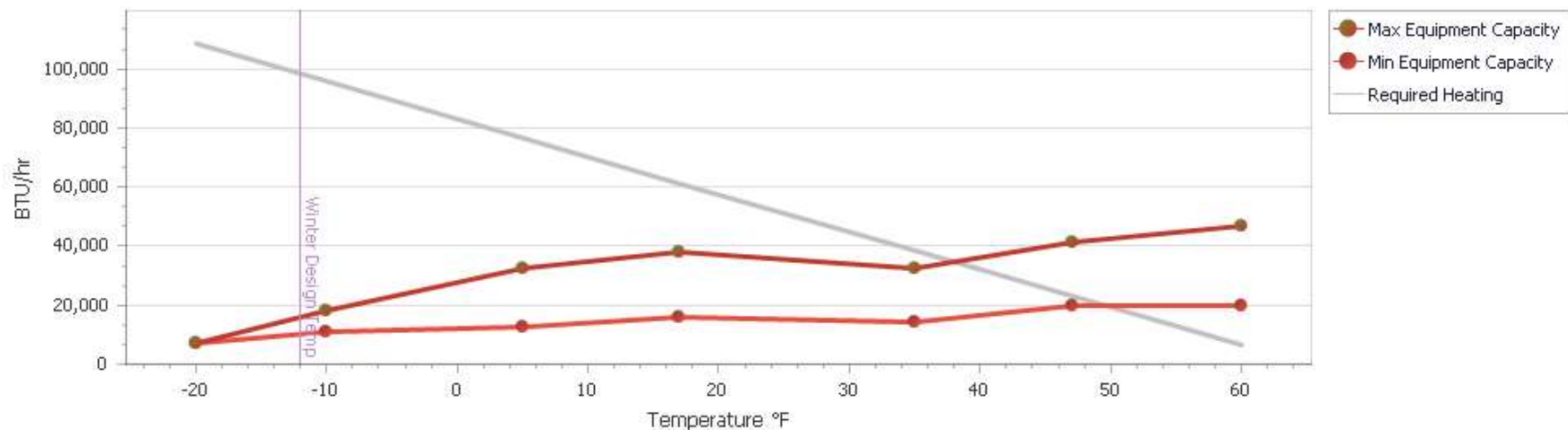
Pretty Good House	
Site ID: 6440	Heating: 29,300 BTU/hr
Area: 2,100 ft ²	Cooling: 15,100 BTU/hr
Climate: Ottawa AP	Latent: 3,900 BTU/hr

Site Information

Contractor Name	Kristopher Heiss	Contractor Company	n/a
Project Name	Pretty Good House	Subdivision	
Address 1	Corkery	Lot Number	
Address 2		Plan/Model Number	
State/Province	Ontario	Builder	
Zip/Postal Code		Year	2021
Default Insulation Level	2x4 poorly insulated	Weather Location	Ottawa AP

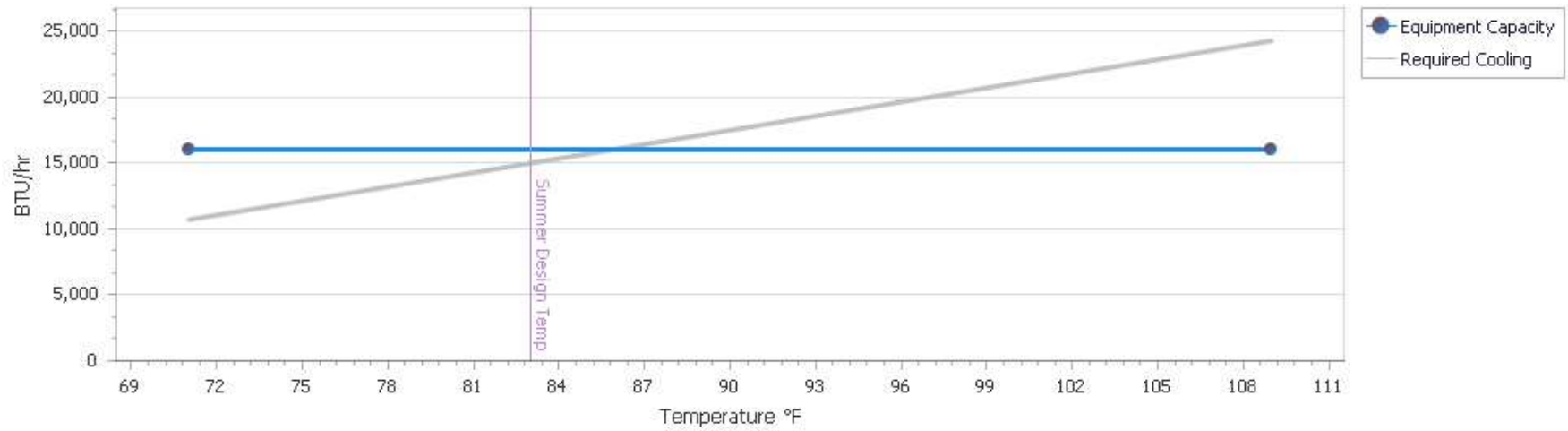
Required Heating

Balance Point Max capacity balances at: **38.0°** (34,600 BTU)
 Min capacity balances at: **49.5°** (19,800 BTU)

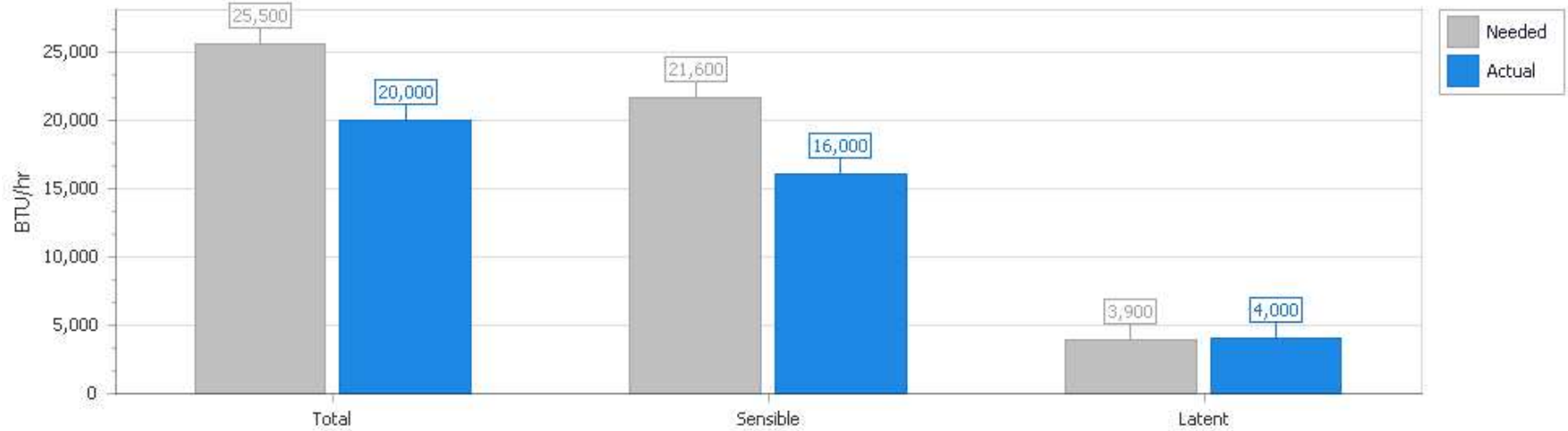


Required Cooling

Balance Point Capacity balances at: **85.6°** (16,000 BTU)



Required Cooling at Summer Design Temp (83°)



HVAC Design and Actual System Data

Heating System

Cooling System

Heat Pump Model (Make)

	Manufacturer	Model	Nominal size (BTU/hr)
Furnace	<input type="text"/>	<input type="text"/>	<input type="text"/>
Heat Pump or AC Condenser	<input type="text"/>	<input type="text"/>	<input type="text"/>
Fan Coil	<input type="text"/>	<input type="text"/>	<input type="text"/>

	Calculated	Specified
Total Heating Load	<input type="text" value="29,300"/>	<input type="text" value="0"/>
Sensible Cooling Load	<input type="text" value="15,100"/>	<input type="text" value="16,000"/>
Latent Cooling Load	<input type="text" value="3,900"/>	<input type="text" value="4,000"/>
Sensible Ratio	<input type="text" value="0.80"/>	<input type="text" value="0.80"/>
	Heating	Cooling
Blower Default (CFM)	<input type="text" value="324"/>	<input type="text" value="607"/>
Blower Override (CFM)	<input type="text"/>	<input type="text"/>

Building Characteristics

Conditioned Floor Area (sqft)	<input type="text" value="2,100"/>	Slab on Grade %	<input type="text" value="100"/>
Total Room Area	<input type="text" value="2,098"/>	Conditioned Basement %	<input type="text" value="0"/>
Wall Height	<input type="text" value="8.5"/>	Unconditioned Basement or Crawl Space %	<input type="text" value="0"/>
Bedrooms	<input type="text" value="3"/>		

Window Orientation

Room Name	↑ N	↗ NE	→ E	↘ SE	↓ S	↙ SW	← W	↖ NW	Door	Skylight
Touch Down area						10.5		7.0	14.0	
Washroom										
Utility & Laundry		7.5								
Flex Room		12.0								
Kitchen										
Dining Room						76.8				
Living Room						76.8				
Stairs				24.0						
Entrance		15.3							15.6	
Hallway								24.0		
Ensuite						10.5				
Walk-in Closet										
Master Bedroom						35.0				
Bedroom 2 (G)						27.0				
Bedroom 3 (A)		12.0		7.5						
Bathroom 2		7.5								
Office		12.0								

Total Window Square Footage (sqft)

Total Room (Floor) Square Footage (sqft)

Total Window to Floor Ratio (%)

Duct Characteristics

Duct Material

Attic %

Conditioned Area %

TEL Calculated

TEL Override

Blower CFM

Max CFM/Register

Friction Rate

Unconditioned Basement or Crawl Space %

Building Data












	Selected	Override
Heating 99% Dry Bulb	-8	-12
Cooling 1% Dry Bulb	83	
Winter Thermostat Setpoint (°F)	70	
Summer Thermostat Setpoint (°F)	75	
Daily Range	Medium	None
Summer Design Grains	21	
Elevation (ft)	413	
Latitude (°N)	45	
Indoor RH	50	
Number of People	4	3
Appliance/Lighting Load (BTU/hr)	2,400	3000
Internal Gains	3,320	3,690
Ventilation CFM	44	
Heating Duct Multiplier	0 %	
Cooling Duct Multiplier	0 %	
% Basement Below Grade	75 %	0 %
ASHRAE 152 Duct area default	<input type="checkbox"/>	
Heated slab on grade	<input type="checkbox"/>	

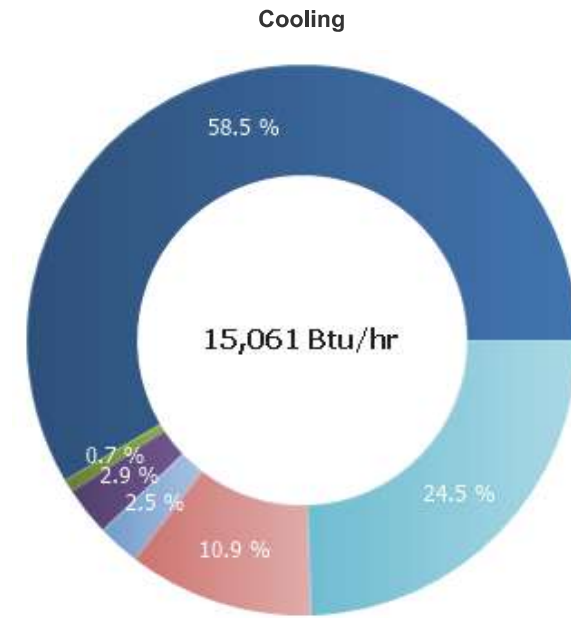
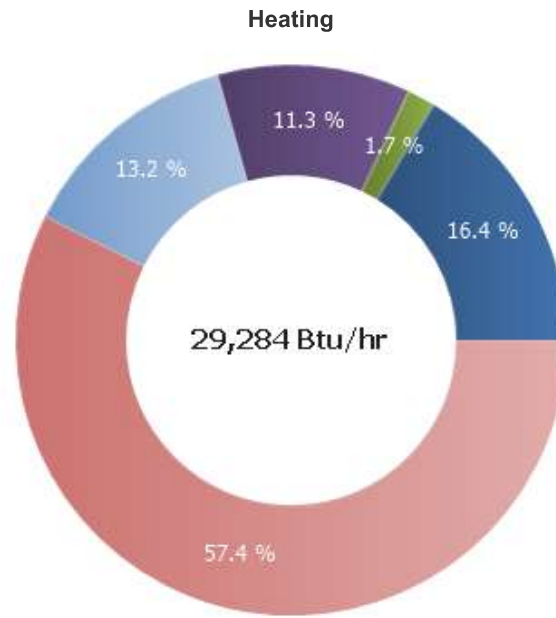
	Selected	Override
Additional Blower Load	1707	0
Internal Shade Coefficient	1.0	
Ceiling U-Value	0.081	estimated R-80
Floor U-Value	0.368	Frame Floor, R-30
Wall U-Value	0.240	estimated R-60
Basement Wall U-Value	0.148	estimated R-40
Basement Floor U-Value	0.025	Basement, R-3 or Higher
Slab U-Value	1.180	Slab, Horiz&Vert R-15
Door U-Value	0.500	0.200
Window U-Value	1.000	0.160
Window SHGC	0.870	0.300
Duct Insulation	(R-4)	None
Duct Leakage	Average	Tight
Heating ACH	0.700	0.600
Cooling ACH	0.400	0.600

Room Data and Loads

Room Name	Suggested Ducts	Actual Ducts	Duct Size	CFM/Duct	Actual CFM Measured	Floor Area	Ext. Length	Height Override	Uncond Ceiling	Uncond Floor	Heating Load	Cooling Load
Touch Down area	1		3	29		54	15.0	8.0	0 %	0 %	1,617	672
Washroom			3	0		25	0.0	8.0	0 %	0 %	46	48
Utility & Laundry	1		3	50		231	33.4	9.0	0 %	0 %	3,038	853
Flex Room	1		3	23		191	14.0	9.0	0 %	0 %	1,549	709
Kitchen			3	0		238	0.0	9.0	0 %	0 %	439	461
Dining Room	2		3	48		51	24.8	9.0	0 %	0 %	2,851	2,263
Living Room	2		3	49		188	27.4	9.0	0 %	0 %	3,300	2,550
Stairs	1		3	30		82	6.3	19.0	0 %	0 %	1,006	837
Entrance	1		3	37		91	20.0	9.0	0 %	0 %	2,086	681
Hallway	1		3	20		28	0.0	9.0	0 %	0 %	327	511
Ensuite	1		3	26		75	16.3	8.0	0 %	0 %	1,465	539
Walk-in Closet	1		3	9		59	6.0	8.0	0 %	0 %	553	160
Master Bedroom	1		3	49		243	24.8	8.7	0 %	0 %	2,714	1,562
Bedroom 2 (G)	1		3	46		196	28.0	8.0	0 %	0 %	2,743	1,286
Bedroom 3 (A)	1		3	44		190	27.6	8.0	0 %	0 %	2,617	1,001
Bathroom 2	1		3	17		70	10.7	8.0	0 %	0 %	1,007	360
Office	1		3	34		88	22.0	8.0	0 %	0 %	1,927	566
Total	17	0				2,100					29,284	15,061

Component Loads

	Heating	Cooling	Color
Windows	4,794	8,807	
Skylights	0	0	
Doors	485	112	
Walls	3,316	433	
Ceiling	0	0	
Floors	0	0	
Ventilation	3,873	378	
Infiltration	16,816	1,641	
Ducts	0	0	
Additional Blower		0	
Internal Gains		3,690	
Total:	29,284	15,061	



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