

In accordance with ACCA Manual J

Report Prepared By:

For:

WEST HAVEN, CT

Design Conditions: Easton

Indoor:

Summer temperature: 70
 Winter temperature: 72
 Relative humidity: 50

Outdoor:

Summer temperature: 100
 Winter temperature: -10
 Summer grains of moisture: 84
 Daily temperature range: High

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
Whole House	894.8 sq.ft.	12,789	3,707	16,496 (1.5 tons)	23,268
Apt #3 - End Unit - Middle & Top Floors		12,789	3,707	16,496	23,268
Dining / Living Room	314 sq.ft.	3,845	1,409	5,254	9,092
Infiltration		817	489	1,306	4,923
- Tightness: Avg.; Winter ACH: 1.1 ; Summer ACH: .5					
Duct		0	0	0	433
- Supply below 120; Enclosed in unheated space; R-6					
People	4	1,200	920	2,120	0
Floor	314.3 sq.ft.	0	0	0	0
- Over conditioned space					
N Wall	78.8 sq.ft.	135	0	135	388
- Wood frame, with sheathing, siding or brick, R-19 5 1/2 in.; none					
Glassdoor	44 sq.ft.	878	0	878	1,983
- Sliding glass door; Double pane; Wood or vinyl frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Ceiling	314 sq.ft.	815	0	815	1,365
- Under ventilated attic; R-19 (4 - 6.5 inch); Dark					
Kitchen	100 sq.ft.	2,060	460	2,520	457
Infiltration		0	0	0	0
- Tightness: Avg.; Winter ACH: 1.1 ; Summer ACH: .5					
Duct		0	0	0	22
- Supply below 120; Enclosed in unheated space; R-6					
People	2	600	460	1,060	0
Miscellaneous		1,200	0	1,200	0

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For:

WEST HAVEN, CT

Design Conditions: New Haven

Indoor:

Summer temperature: 70

Winter temperature: 72

Relative humidity: 50

Outdoor:

Summer temperature: 84

Winter temperature: 0

Summer grains of moisture: 84

Daily temperature range: Medium

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
Whole House	581 sq.ft.	8,102	2,832	10,934 (1 tons)	22,165
Second Floor		8,102	2,832	10,934	22,165
Bathroom	40 sq.ft.	132	0	132	291
Infiltration		0	0	0	0
- Tightness: Poor; Winter ACH: 2.01 ; Summer ACH: .8					
Duct		6	0	6	38
- Supply above 120; Enclosed in unheated space; R-4					
Floor	40 sq.ft.	0	0	0	0
- Over conditioned space					
Ceiling	40 sq.ft.	126	0	126	253
- Under ventilated attic; R-11 (3 - 3.5 inch); Dark					
Bedroom	216 sq.ft.	2,401	918	3,319	8,408
Infiltration		358	458	816	4,630
- Tightness: Poor; Winter ACH: 2.01 ; Summer ACH: .8					
Duct		114	0	114	1,097
- Supply above 120; Enclosed in unheated space; R-4					
People	2	600	460	1,060	0
Floor	216 sq.ft.	0	0	0	0
- Over conditioned space					
S Wall	72.4 sq.ft.	115	0	115	469
- Wood frame, with sheathing, siding or brick; R-11 3 1/2 in.; none					
Window	23.6 sq.ft.	533	0	533	843
- Double pane; Vinyl frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Ceiling	216 sq.ft.	681	0	681	1,369
- Under ventilated attic; R-11 (3 - 3.5 inch); Dark					