

~~Bruce Harley Energy Consulting LLC~~

~~605 Briggs Road, Stamford, CT 06907 Phone: 903-894-1719 Email: bruce@bruceharleyenergy.com~~

**Project Information**

For: ~~Kristen Anderson~~  
Arlington, MA

**Design Information**

	Htg	Clg	Infiltration	
Outside db (°F)	9	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	61	13	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	48	30		

**HEATING EQUIPMENT**

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

**COOLING EQUIPMENT**

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
(Unconditioned)	508	0	0	0	0
1st floor	898	17594	7623	348	348
2nd Floor	644	13988	6735	308	308
Basement	390	6310	0	0	0
Entire House	2440	37892	14357	656	656
Other equip loads		0	0		
Equip. @ 0.93 RSM			13367		
Latent cooling			1179		
<b>TOTALS</b>	<b>2440</b>	<b>37892</b>	<b>14546</b>	<b>656</b>	<b>656</b>

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

~~Bruce Harley Energy Consulting LLC~~

~~803 Boulder Road, St Albans, VT 05352 Phone: 802-691-1719 Email: bruce@bruceharleyenergy.com~~

### Project Information

For: Kristen Anderson  
Arlington, MA

### Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	9	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	61	13	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	48	30		

#### HEATING EQUIPMENT

Make	
Trade	
Model	
AHRI ref	
Efficiency	80 AFUE
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	348 cfm
Air flow factor	0.020 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

#### COOLING EQUIPMENT

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	0 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	348 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.93

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Dining	156	2627	1119	52	51
Entry	64	1492	411	30	19
Kitchen	174	3403	1059	67	48
Living	267	4041	2234	80	102
Office	124	4951	2215	98	101
Stair/hall	98	104	19	2	1
WC	16	976	565	19	26

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1st floor	898	17594	7623	348	348
Other equip loads		0	0		
Equip. @ 0.93 RSM			7097		
Latent cooling			596		
TOTALS	898	17594	7693	348	348

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~~Bruce Harley Energy Consulting LLC~~

~~895 Boulder Road, Stamford, VT 05332 Phone: 802-694-1719 Email: bruce@bruceharleyenergy.com~~

**Project Information**

For: Kristen Anderson  
Arlington, MA

**Design Information**

	Htg	Clg	Infiltration	
Outside db (°F)	9	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	61	13	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	48	30		

**HEATING EQUIPMENT**

Make	
Trade	
Model	
AHRI ref	
Efficiency	80 AFUE
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	308 cfm
Air flow factor	0.022 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

**COOLING EQUIPMENT**

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	0 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	308 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.92

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
2nd Hall	99	1220	863	27	39
Attic stair	16	61	27	1	1
Bath	49	2193	1244	48	57
Bed 2	159	3063	1370	67	63
MBed	231	5141	2450	113	112
Nursery	91	2309	780	51	36

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2nd Floor	644	13988	6735	308	308
Other equip loads		0	0		
Equip. @ 0.93 RSM			6270		
Latent cooling			583		
TOTALS	644	13988	6853	308	308

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



~~Bruce Barley Energy Consulting LLC~~

~~950 Boulder Road, Suite 101, Waltham, MA 01981 Phone: 800-894-1749 Email: bbarley@barleyenergy.com~~

**Project Information**

For: ~~Kristen Anderson~~  
Arlington, MA

**Design Information**

	Htg	Clg	Infiltration	
Outside db (°F)	9	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	61	13	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	48	30		

**HEATING EQUIPMENT**

Make	
Trade	
Model	
AHRI ref	
Efficiency	80 AFUE
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

**COOLING EQUIPMENT**

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	0 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Finished	390	6310	0	0	0
Basement	390	6310	0	0	0
Other equip loads		0	0		
Equip. @ 0.93 RSM			0		
Latent cooling			0		
<b>TOTALS</b>	<b>390</b>	<b>6310</b>	<b>0</b>	<b>0</b>	<b>0</b>

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