

Load Short Form

Entire House

Absolute Mechanical Systems Inc.

Job:
Date: May 19, 2015
By: Kevin Gorgoglione

2 Quimby Rd., Brookline, NH 03033 Phone: 603-249-9800 Fax: 978-423-7122 CELL Email: kevin@absolutemechanical.com

Project Information

For: Bazzaboni Home Builders
64 Layrelcrest, Brookline, NH

Design Information

	Htg	Clg		Infiltration
Outside db (°F)	-3	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-tight
Design TD (°F)	73	13	Fireplaces	1 (Tight)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	51	23		

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)
Bedroom Lvl. A/H	d	1150	19124	8201	587	587
Main Lvl. A/H	d	1534	21578	11297	600	600
Entire House	d	2684	40702	19489	1187	1364
Other equip loads			3615	0		
Equip. @ 1.00 RSM				19489		
Latent cooling				2492		
TOTALS		2684	44317	21980	1187	1364

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

Load Short Form
Bedroom Lvl. A/H
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Moisture difference (gr/lb)	51	23		

HEATING EQUIPMENT

Make Rheem
 Trade RHEEM
 Model R92PA0401317MSA
 AHRI ref 6468401

Efficiency 92 AFUE
 Heating input 42000 Btuh
 Heating output 39000 Btuh
 Temperature rise 61 °F
 Actual air flow 587 cfm
 Air flow factor 0.031 cfm/Btuh
 Static pressure 0.70 in H2O
 Space thermostat

COOLING EQUIPMENT

Make Rheem
 Trade RHEEM
 Cond RA1318AJ1
 Coil RCF2417STAM
 AHRI ref 7507439

Efficiency 11.0 EER, 13 SEER
 Sensible cooling 12320 Btuh
 Latent cooling 5280 Btuh
 Total cooling 17600 Btuh
 Actual air flow 587 cfm
 Air flow factor 0.072 cfm/Btuh
 Static pressure 0.70 in H2O
 Load sensible heat ratio 0.91

ROOM NAME		Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Mstr. Suite	p	436	7030	3651	216	261
Bedrooms	p	714	12094	7025	371	503
Bedroom Lvl. A/H	d	1150	19124	8201	587	587
Other equip loads			1680	0		
Equip. @ 1.00 RSM				8201		
Latent cooling				778		
TOTALS		1150	20804	8979	587	587

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Main Lvl. A/H

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Design TD (°F)	73	13	Fireplaces	1 (Tight)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	51	23		

HEATING EQUIPMENT

Make Rheem
Trade RHEEM
Model R92PA0401317MSA
AHRI ref 6468401

Efficiency 92 AFUE
Heating input 42000 Btuh
Heating output 39000 Btuh
Temperature rise 60 °F
Actual air flow 600 cfm
Air flow factor 0.028 cfm/Btuh
Static pressure 0.70 in H2O
Space thermostat

COOLING EQUIPMENT

Make Rheem
Trade RHEEM
Cond RA1318AJ1
Coil RCF2417STAM
AHRI ref 7507439

Efficiency 11.0 EER, 13 SEER
Sensible cooling 12320 Btuh
Latent cooling 5280 Btuh
Total cooling 17600 Btuh
Actual air flow 600 cfm
Air flow factor 0.053 cfm/Btuh
Static pressure 0.70 in H2O
Load sensible heat ratio 0.87

ROOM NAME	Area (ft ²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Laundry/Lav	70	1335	753	37	40
Kitchen/Dinette	478	4766	2920	133	155
Mudroom	113	1199	252	33	13
Living Room	161	2431	882	68	47
Dining Room	182	1999	837	56	44
Foyer	168	1941	490	54	26
Family Room	362	7907	5161	220	274
Main Lvl. A/H	d 1534	21578	11297	600	600
Other equip loads		1935	0		
Equip. @ 1.00 RSM			11297		
Latent cooling			1713		
TOTALS	1534	23513	13010	600	600

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Bedrooms

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Design TD (°F)	73	13	Fireplaces	1 (Tight)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	51	23		

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)
Hall/Stairs	87	232	172	7	12
Bdrm. 3	177	2725	2393	84	171
Family Bath	90	1232	518	38	37
Bdrm. 4	182	3427	2403	105	172
Bdrm. 2	178	4478	1539	137	110
Bedrooms	p 714	12094	7025	371	503
Other equip loads		1010	0		
Equip. @ 1.00 RSM			7025		
Latent cooling			476		
TOTALS	714	13104	7501	371	503

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Load Short Form

Mstr. Suite

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Daily range	-	M		
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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)
Mstr. Closet	80	1726	474	53	34
Mstr. Bdrm.	266	4072	2659	125	190
Mstr. Bath	90	1232	519	38	37
Mstr. Suite	436	7030	3651	216	261
Other equip loads		670	0		
Equip. @ 1.00 RSM			3651		
Latent cooling			303		
TOTALS	436	7700	3954	216	261

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