

Project Information

For: "CUSTOM RESIDENCE/COLONIAL"
98 ALGER STREET, ADAMS, MA 01220

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	-4	86	Method	Tight
Inside db (°F)	72	70	Construction quality	
Design TD (°F)	76	16	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	33	33		

HEATING EQUIPMENT

Make MITSUBISHI ELECTRIC
Trade MITSUBISHI
Model MXZ-4C36NAHZ
AHRI ref 201754911

Efficiency 11.3 HSPF

Heating input
Heating output 45000 Btuh @ 47°F
Temperature rise 36 °F
Actual air flow 1200 cfm
Air flow factor 0.039 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = -8 °F

COOLING EQUIPMENT

Make MITSUBISHI ELECTRIC
Trade MITSUBISHI
Cond MXZ-4C36NAHZ
Coil SEZ/SVZ (VARIOUS)
AHRI ref 201754911

Efficiency 14.0 EER, 19.1 SEER

Sensible cooling 25200 Btuh
Latent cooling 10800 Btuh
Total cooling 36000 Btuh
Actual air flow 1200 cfm
Air flow factor 0.054 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.82

Backup:
Input = 9 kW, Output = 31065 Btuh, 100 AFLJE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BATH 1	56	1229	463	48	25
LAUNDRY	38	644	511	25	28
KITCHEN	256	3939	2416	154	132
LIVING ROOM	180	2126	2254	83	123
DINING ROOM	223	2231	2275	87	124
ENTRY	142	3097	1267	121	69
DEN	189	2940	1859	115	101
MASTER BED ROOM	156	2688	2276	105	124
BATH 2	124	2541	1371	99	75
BED ROOM 3	163	2104	1640	82	89
BED ROOM 4	144	2071	1619	81	88
STAIR/HALL(UPR)	120	1535	1411	60	77
BED ROOM 1	84	1083	1069	42	58
BED ROOM 2	140	2415	1620	95	88

Bold/italic values have been manually overridden

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

Entire House	2014	30641	22050	1200	1200
Other equip loads		0	0		
Equip. @ 0.91 RSM			20066		
Latent cooling			4945		
TOTALS	2014	30641	25011	1200	1200

Bold/italic values have been manually overridden

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



wrightsoft
A Johnson Controls Company

Right-Suite® Universal 2019 19.0.08 RSU13148
...rs\Courier\Documents\Wrightsoft HVAC\BR2018_rup Calc\MJB Front Door faces: N

2020-Dec-04 16:30:55

Page 2