



**Project Information**

For: 54 Fellsmere Road, Newton Centre, MA 02459

Notes:

**Design Information**

Weather: Laurence G Hanscom, MA, US

**Winter Design Conditions**

Outside db 9 °F  
 Inside db 70 °F  
 Design TD 61 °F

**Summer Design Conditions**

Outside db 88 °F  
 Inside db 75 °F  
 Design TD 13 °F  
 Daily range M  
 Relative humidity 50 %  
 Moisture difference 30 gr/lb

**Heating Summary**

Structure 0 Btuh  
 Ducts 0 Btuh  
 Central vent (0 cfm) 0 Btuh  
 Humidification 0 Btuh  
 Piping 0 Btuh  
 Equipment load 0 Btuh

**Sensible Cooling Equipment Load Sizing**

Structure 6124 Btuh  
 Ducts 0 Btuh  
 Central vent (0 cfm) 0 Btuh  
 (none)  
 Blower 0 Btuh  
 Use manufacturer's data n  
 Rate/swing multiplier 0.93  
 Equipment sensible load 5701 Btuh

**Infiltration**

Method Simplified  
 Construction quality Average  
 Fireplaces 1 (Average)

**Latent Cooling Equipment Load Sizing**

Structure 610 Btuh  
 Ducts 0 Btuh  
 Central vent (0 cfm) 0 Btuh  
 (none)  
 Equipment latent load 610 Btuh

	Heating	Cooling
Area (ft <sup>2</sup> )	0	1364
Volume (ft <sup>3</sup> )	0	7502
Air changes/hour	0	0.24
Equip. AVF (cfm)	0	30

**Equipment Total Load (Sen+Lat)** 6312 Btuh  
 Req. total capacity at 0.85 SHR 0.6 ton

**Heating Equipment Summary**

Make  
 Trade  
 Model  
 AHRI ref  
 Efficiency 80 AFUE  
 Heating input 0 Btuh  
 Heating output 0 Btuh  
 Temperature rise 0 °F  
 Actual air flow 280 cfm  
 Air flow factor 0 cfm/Btuh  
 Static pressure 0 in H2O  
 Space thermostat

**Cooling Equipment Summary**

Make  
 Trade  
 Cond  
 Coil  
 AHRI ref  
 Efficiency 0 SEER  
 Sensible cooling 0 Btuh  
 Latent cooling 0 Btuh  
 Total cooling 0 Btuh  
 Actual air flow 280 cfm  
 Air flow factor 0.046 cfm/Btuh  
 Static pressure 0 in H2O  
 Load sensible heat ratio 0.91

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