Standard Version

Project Title: Sample Project

 Project ID:
 30206
 Prepared By:
 W.T
 Sheet:
 1 of 1

 Project Manger:
 W.M
 Checked By:
 D.W.
 Date:
 2/4/18

100% OUTSIDE AIR UNIT COOLING & HEATING COILS SIZING

USING HUMIDITY RATIO

Project Description

NYC Area

Cooling Coil Load Estima	te		Remarks
Outside Air Temperature Dry Bulb	92.1	F	0.4% Condition
Outside Air Temperature Wet Bulb	74.4	F	
Outside Air Humidity Ratio =	0.0142	lb _w /lb _a	Auto Calculated
Cooling Coil Leaving Air Temperature Dry Bulb	55.0	F	
Cooling Coil Leaving Air Temperature Wet Bulb	53.0	F	
Cooling Coil Leaving Air Humidity Ratio =	0.0081	lb _w /lb _a	Auto Calculated
Unit Airflow	22,000	CFM	
Sensible Load =	881,496	Btu/hr	Btu/hr = 1.08 x CFM x ΔTdb
Latent Load =	653,976	Btu/hr	Btu/hr = 4840 x CFM x ΔHumidity Ratio
Total Cooling Load =	1,535,472	Btu/hr	
Total Cooling Load =	128	Tons	

Heating Coil Load Estimate		Remarks	
Outside Air Temperature Dry Bulb	11.0	F	99.6% Condition
Heating Coil Leaving Air Temperature Dry Bulb	95.0	F	
Unit Airflow	5,000	CFM	
Total Btu/hr =	453,600	Btu/hr	Btu/hr = 1.08 x CFM x ΔTdb
Total Heating Load =	454	MBH	

Notes:

Enter Your Notes Here	9
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ID: 30317 (J.Smith)