ASHRAE PSYCHROMETRIC CHART NO.1

NORMAL TEMPERATURE

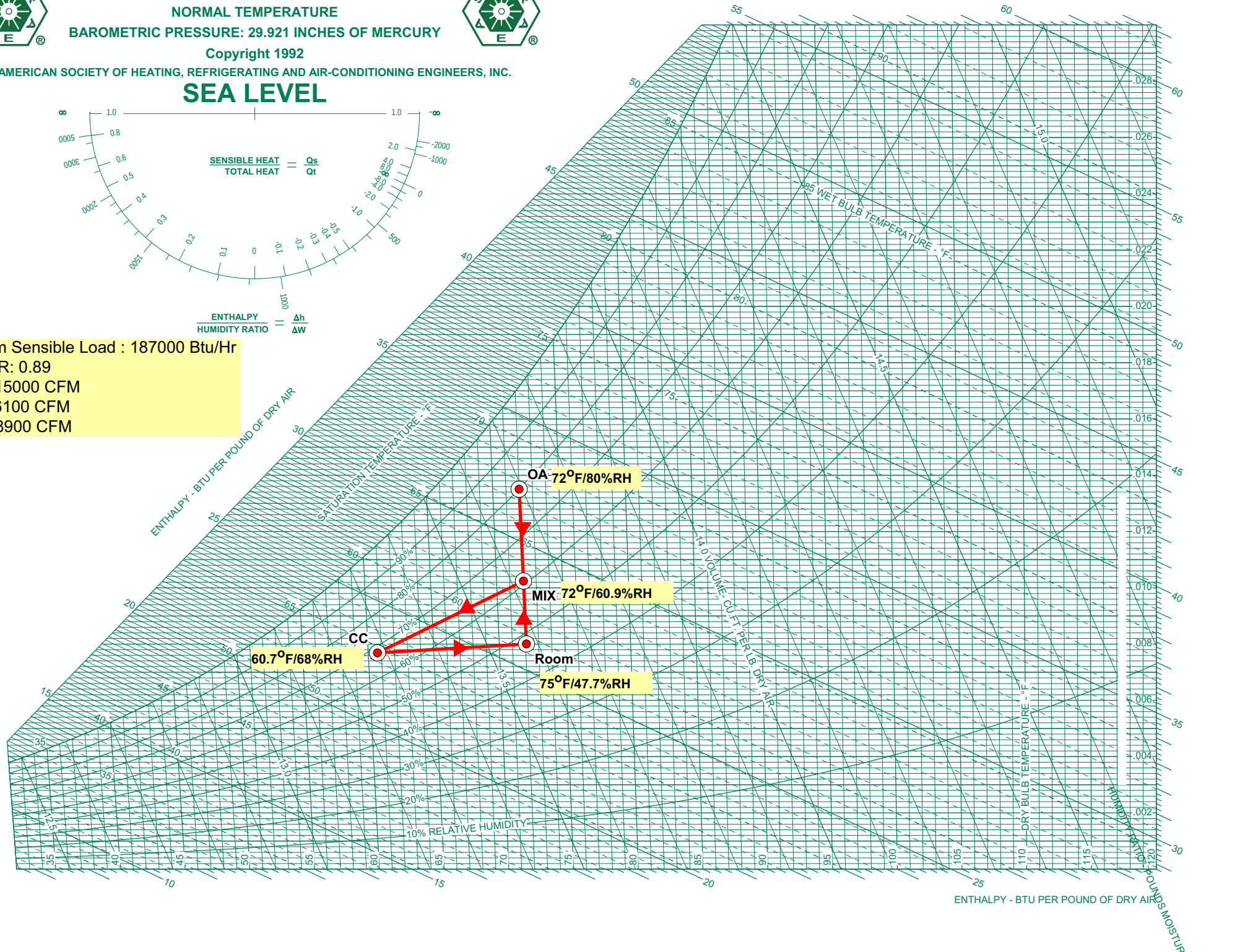
BAROMETRIC PRESSURE: 29.921 INCHES OF MERCURY

SEA LEVEL

SENSIBLE HEAT / TOTAL HEAT = Qs / Qt

ENTHALPY / HUMIDITY RATIO = Δh / ΔW

Room Sensible Load : 187000 Btu/Hr
RSHR: 0.89
SA: 15000 CFM
FA: 6100 CFM
RA: 8900 CFM



STATE POINT & PROCESS REPORT

Report Date: Thursday, April 17, 2008
Project Information:
Altitude: 0 (Feet)
Barometric Pressure: 29.921 (in.Hg)
Atmospheric Pressure: 14.696 (psia)

1. OA

STATE POINT DATA

Air Flow (Standard) (cfm)	Dry Bulb (°F)	Wet Bulb (°F)	Relative Humidity (%)	Humidity Ratio (lb/lb)	Specific Volume (cu.ft./lb)	Enthalpy (Btu/lb)	Dew Point (°F)	Density (lb/cu.ft.)	Vapor Pressure (in.Hg)	Absolute Humidity (gr/cu.ft.)
6,100	72.000	67.575	80.0	0.01351	13.689	32.041	65.4975	0.0741	0.6334	6.906

2. MIX

STATE POINT DATA

Air Flow (Standard) (cfm)	Dry Bulb (°F)	Wet Bulb (°F)	Relative Humidity (%)	Humidity Ratio (lb/lb)	Specific Volume (cu.ft./lb)	Enthalpy (Btu/lb)	Dew Point (°F)	Density (lb/cu.ft.)	Vapor Pressure (in.Hg)	Absolute Humidity (gr/cu.ft.)
15,000	72.044	62.967	60.9	0.01024	13.620	28.483	57.8200	0.0742	0.4827	5.263

Process: Air Mixing

State Point No. 1 Name	Air Flow Standard (cfm)	Dry Bulb (°F)	Humidity Ratio (lb/lb)		State Point No. 2 Name	Air Flow Standard (cfm)	Dry Bulb (°F)	Humidity Ratio (lb/lb)
OA	6,100	72.0	0.01351		Room	8,900	72.1	0.008

3. CC

STATE POINT DATA

Air Flow (Standard) (cfm)	Dry Bulb (°F)	Wet Bulb (°F)	Relative Humidity (%)	Humidity Ratio (lb/lb)	Specific Volume (cu.ft./lb)	Enthalpy (Btu/lb)	Dew Point (°F)	Density (lb/cu.ft.)	Vapor Pressure (in.Hg)	Absolute Humidity (gr/cu.ft.)
15,000	60.700	54.579	68.0	0.00769	13.276	22.931	50.0925	0.0759	0.3639	4.053

Process: Cooling Coil

Start Point Name	Total Cooling (tons)	Total Energy (Btu/hr)	Sensible Energy (Btu/hr)	Latent Energy (Btu/hr)	Dehumidification (lb/hr)	Sensible Heat Ratio	Enthalpy/ Humidity Ratio (Btu/lb / lb/lb)
MIX	-31.2	-374,732	-186,385	-188,347	-172.3	0.497	2,175

4. Room

STATE POINT DATA

Air Flow (Standard) (cfm)	Dry Bulb (°F)	Wet Bulb (°F)	Relative Humidity (%)	Humidity Ratio (lb/lb)	Specific Volume (cu.ft./lb)	Enthalpy (Btu/lb)	Dew Point (°F)	Density (lb/cu.ft.)	Vapor Pressure (in.Hg)	Absolute Humidity (gr/cu.ft.)
15,000	72.074	59.508	47.7	0.00800	13.573	26.044	51.1604	0.0743	0.3786	4.127

Process: Connect States

Start Point Name		Total Energy (Btu/hr)	Sensible Energy (Btu/hr)	Latent Energy (Btu/hr)	Moisture Difference (lb/hr)	Sensible Heat Ratio	Enthalpy/ Humidity Ratio (Btu/lb / lb/lb)
CC		210,108	186,986	23,122	21.3	0.890	N/A