

ISOLATION ROOM VENTILATION EVALUATION

Memorial Hospital
City, ST
April 1, 2008
Page 1

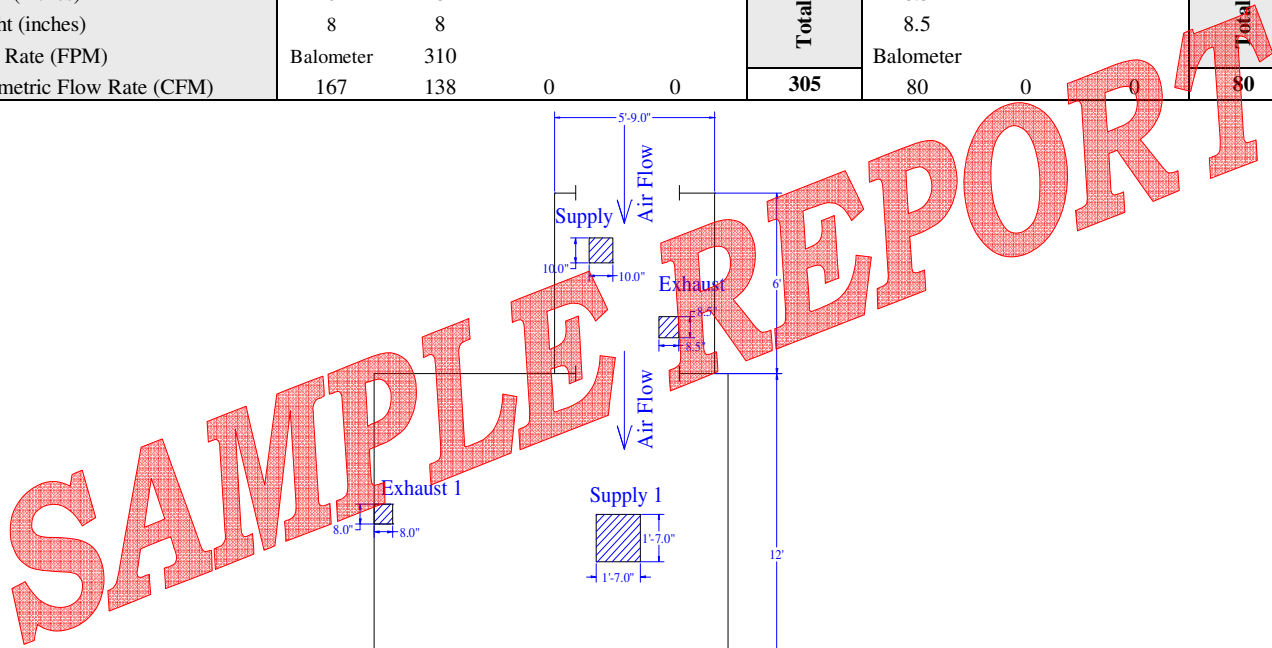
LOCATION: Isolation Room 325

SUPPLY AIR

#	Patient Room Air Supplies				Total (CFM)	Ante-Room Air Supplies			Total (CFM)
	1	2	3	4		1	2	3	
Wall, Floor, or Ceiling Vent	Ceiling				Total (CFM)	Ceiling			Total (CFM)
Width (inches)	19					10			
Height (inches)	19					10			
Flow Rate (FPM)	Balometer					Balometer			
Volumetric Flow Rate (CFM)	265	0	0	0	265	55	0	0	55

EXHAUST AIR

#	Patient Room Exhausts				Total (CFM)	AnteRoom Exhausts			Total (CFM)
	1	2	3	4		1	2	3	
Wall, Floor, or Ceiling Vent	Wall	Wall			Total (CFM)	Ceiling			Total (CFM)
Width (inches)	8	8				8.5			
Height (inches)	8	8				8.5			
Flow Rate (FPM)	Balometer	310				Balometer			
Volumetric Flow Rate (CFM)	167	138	0	0	305	80	0	0	80



AIR EXCHANGE RATES

Ideal Air Exchange Rate - Assuming Good Mixing

Location	Room Dimensions (ft)			Total Intake Flow (CFM)	Air Exchanges per Hour
	Length	Width	Height		
Patient Rm	12.75	12	9	305	13.3
Ante-Room	6	5.75	8	80	17.4

PRESSURE MONITOR

Manufacturer:	Triad		
Model:	384208		
Patient	Anteroom	Alarm	Alarm
Door	Door	Pressure	Status
Closed	Closed	-0.0119	Neg
Closed	Open	-0.0121	Neg
Open	Open	0.0001	Alarm
Open	Closed	0.0001	Alarm

NEGATIVE PRESSURE / FLOW

With Ante-Room

Between Patient Room & Ante-Room	+/- Pressure "H ₂ O	Between Ante-Room & Outside Corridor	+/- Pressure "H ₂ O	Between Patient Rm & Outside Corridor	+/- Pressure "H ₂ O
	Negative -0.0123		Negative -0.0102		N/A N/A

Without Ante-Room

ADDITIONAL INSPECTIONS

Dedicated Exhaust	<u>Yes</u> (Yes/No)	Penetration Seals	<u>Yes</u> (Yes/No)
Recirculating Room Unit	<u>No</u> (Yes/No)	Closely fit doors	<u>Yes</u> (Yes/No)
Relative Humidity	<u>39.1</u> %	Weather stripping or drop bottoms on doors	<u>Yes</u> (Yes/No)
Temperature	<u>78.1</u> °F	Exhaust is <u>15.0</u> % and <u>40</u> CFM greater than Supply	