

Estimated for Summer/16.00 Hrs									
Space used for:		PRAYER HALL							
Length	40.7	Width	30	AREA	1221	0	12.1	14774	CFT
							DB	WB	RH
	AREA				LOAD	O.C	95	82	55
Glass N	0	SQFT	0	0	0	I.C	75.2		50
Glass S	0	SQFT	0	0	0	DIFF	19.8		
Glass E	0	SQFT	0	0	0	FRESH AIR			
Glass W	0	SQFT	0	0	0	172	People	5	CFM
						14774	Cu. Foot	2	AIR CH/HI
Wall N	0	SQFT	0	0	0				
Wall S	362	SQFT	24	0.36	3128				
Wall E	494	SQFT	20	0.36	3557		SHF	0.639315	
Wall W	0	SQFT	0	0	0		ADP	56.6	
					0				
Roof Sun	0	SQFT	0	0	0				
Sun Shaded	0	SQFT				HUMIDI RISE			15.81000
All Glass	0	SQFT	19.8	0	0				
Partition	0	SQFT	14.8	0	0	De humidified Air Qty.			TR
Ceiling	1221	SQFT	14.8	0.4	7228		5644		14.10949
Floor	1221	SQFT	14.8	0.53	9578				
Infiltration									
Out Side A	860	1.08	19.8	0.15	2759				
People	172			245	42140				
Light	1221	1.25	1	3.4	5189				
Eqp.Load	0.25		1000	3.4	850				
Appliances	1		200	3.4	680				
SENSIBLE HEAT SUB TOTAL					75108				
SAFTY 10%					7511				
SENSIBLE HEAT TOTAL					82619				
Infiltration									75 F
Out Side A	860	0.68	81.1	0.15	7114				ESHF
									1
People	172			205	35260				0.94
Light									0.87
Eqp.Load									0.78
Appliances									0.73
LATENT HEAT SUB TOTAL					42374		Notes..		
SAFTY 10%					4237		Light	1	Watt/Sqft
TOTAL LATENT HEAT					46612		Equip	0.25	KW
ROOM TOTAL HEAT					129230		Peoples	172	Nos
Sensi.Heat	860	19.8	0.85	1.08	15632		Computer	1	Nos

Eqp.Load									0.78
Appliances									0.73
LATENT HEAT SUB TOTAL					22032		Notes..		
SAFTY 10%					2203		Light	1	Watt/Sqft
TOTAL LATENT HEAT					24235		Equip	0.25	KW
ROOM TOTAL HEAT					122497		Peoples	81	Nos
Sensi.Heat	656	19.8	0.85	1.08	11924		Computer	0	Nos
Lat.Heat	656	81.1	0.85	0.68	30751				
GRAND TOTAL HEAT			165171		13.8				

Area	Occ	KW	Comp	TR	Deh Cfm	ADP F	Total Ac/H	%FA	
656	81	0.25	0.0	13.8	6712	56.6	20.46461	9.77297	

Estimated for Summer/16.00 Hrs									
Space used for:		prayer only							
Length	40.7	Width	43.3	AREA	1871	HT	12.1	22639	CFT
							DB	WB	RH
	AREA					O.C	95	82	55
Glass N	155	SQFT	39	0.56	3385	I.C	75.2		50
Glass S	155	SQFT	11	0.56	955	DIFF	19.8		
Glass E	0	SQFT	0	0	0	FRESH AIR			
Glass W	310	SQFT	158	0.56	27429	253	People	5	CFM
						22639	Cu. Foot	2	AIR CH/HI
Wall N	0	SQFT	0	0	0				
Wall S	0	SQFT	0	0	0				
Wall E	0	SQFT	0	0	0		SHF	0.701167	
Wall W	900	SQFT	28	0.36	9		ADP	56.6	
					X				
Roof Sun	0	SQFT	0	0	0				
Sun Shaded	0	SQFT				HUMIDI RISE			15.81000
All Glass	620	SQFT	19.8	1.13	13871.88				
Partition	0	SQFT	14.8	0	0	De humidified Air Qty.			TR
Ceiling	1871	SQFT	14.8	0.4	11076		10989		27.47325
Floor	1871	SQFT	14.8	0.53	14676				
Infiltration									
Out Side A	1265	1.08	19.8	0.15	4058				
People	253			245	61985				
Light	1871	1.25	1	3.4	7952				
Eqp.Load	0.25		1000	3.4	850				
Appliances	0		200	3.4	0				
SENSIBLE HEAT SUB TOTAL					146246				
SAFTY 10%					14625				

SENSIBLE HEAT TOTAL					160871				
Infiltration									75 F
Out Side A	1265	0.68	81.1	0.15	10464				ESHF
									1
People	253			205	51865				0.94
Light									0.87
Eqp.Load									0.78
Appliances									0.73
LATENT HEAT SUB TOTAL					62329		Notes..		
SAFTY 10%					6233		Light	1	Watt/Sqft
TOTAL LATENT HEAT					68562		Equip	0.25	KW
ROOM TOTAL HEAT					229433		Peoples	253	Nos
Sensi.Heat	1265	19.8	0.85	1.08	22993		Computer	0	Nos
Lat.Heat	1265	81.1	0.85	0.68	59298				
GRAND TOTAL HEAT			311724		26.0				

Area	Occ	KW	Comp	TR	Deh Cfm	ADP F	Total Ac/H	%FA	
1871	253	0.25	0.0	26.0	10989	56.6	29.12474	11.5112	

[illegible]

55 RH
ADP
57.8
57
56
54
52
