

HVAC LOAD CALCULATION - E20 FORM SHEET

PROJECT	TOWER BUILDING
LOCATION	U.A.E (ABU DHABI)
CLIENT	XYZ
CONSULTANT	ABC
126.00	

Item	Area or Quantity		Sun Gain or Temp. Diff.			Factor (U)	Btu/Hour	Watts
ROOM HEAT			$Q = U \cdot A \cdot \Delta T$					
ROOM SENSIBLE HEAT								
	Area			ΔT		U		
Solar Gain - Glass								
Glass - N		SqFt	x		x		0.00	
Glass - NE		SqFt	x		x		0.00	
Glass - E		SqFt	x		x		0.00	
Glass - SE	15.50	SqFt	x	13.00	x	0.30	60.45	
Glass - S		SqFt	x		x		0.00	
Glass - SW	11.62	SqFt	x	100.00	x	0.30	348.60	
Glass - W		SqFt	x		x		0.00	
Glass - NW		SqFt	x		x		0.00	
Skylight		SqFt	x		x		0.00	
Solar & Transmission Gain - Walls & Roof								
Wall - N		SqFt	x		F	x	0.00	
Wall - NE		SqFt	x		F	x	0.00	
Wall - E		SqFt	x		F	x	0.00	
Wall - SE	138.33	SqFt	x	37.50	F	x	0.05	259.37
Wall - S		SqFt	x		F	x	0.00	
Wall - SW	128.35	SqFt	x	35.50	F	x	0.05	227.82
Wall - W		SqFt	x		F	x	0.00	
Wall - NW		SqFt	x		F	x	0.00	
Roof	300.00	SqFt	x	45.50	F	x	0.05	614.25
Transmission Gain - Except Walls & Roof								
All Glass	27.10	SqFt	x	36.00	F	x	0.30	292.68
Partition	46.15	SqFt	x	31.00	F	x	0.50	715.33
Ceiling		SqFt	x		F	x	0.00	
Floor	300.00	SqFt	x	31.00	F	x	0.27	2,511.00
INFILTRATION AND BY PASSED AIR								
Infiltration		CFM	x	36.00	T Diff	x	1.08	0.00
Outside Air	28.00	CFM	x	36.00		x		130.64
Internal Heat								
People	2.00	Nos.	x	230.00	Btu/Hour Per Person			460.00
Lighting	300.00	SqFt	x	1.00	W/SqFt	x	3.41	1,023.00
Equipments	1.00			200.00	Watts	x	3.41	682.00
Power		kW/Hp	x					0.00

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