Air Conditioning Contractors of America • Manual S 2nd Edition (2014) Residential Equipment Selection

Project Information				Design Information				
Name	-				Outdoor Design Temperature - Summer			89
Address					Indoor Design Temperature - Summer			72
City					Indoor Design %RH - Summer			50
State	Zip Code				Outdoor Design Temperature - Winter			6
System ID					Project Location Elevation			150
	System Type		Air-Air, Heat Pump, Variable Speed Compressor, Cold Winter or No Latent Load					
Proposed Equipment	Manufacturer		Furnace #	An An, near 1 and, variable opeca compressor, cold writer of the Later			AFUE	
	Manufacturer						SEER	
	Manufacturer		Condenser #				HSPF	
	Manufacturer		Package #	Fan Spec		Fan Speed	Med	
				lleet	Tetal	Letent		
Manual J Load Calculations				Heat	Total	Sensible	Latent	SHR
				Loss	BTUH	BTUH	BTUH	0.974
				14184	12878	11257	1621	0.874
	cities, enter the listed	capacities from the	e manufacturers cooling performance charts that are less than the design temperatures here					
Out DB per OEM Chart	86		Design	Return Air	Total	Sensible	Latent	SHR
In DB per OEM Chart	72		CFM	(F wb)	BTUH	BTUH	BTUH	
Capacity from MFG table			553	64	12,050	9,833	2,217	0.82
Interpolated Capacity				63	11,660	9,950	1,710	0.85
Capacity from MFG table				61	10,880	10,184	696	0.94
To interpolate capacities, enter the listed capacities from the manufacturers cooling performance charts that are greater than the design temperatures here								
Out DB per OEM Chart	95		Design	Return Air	Total	Sensible	Latent	SHR
In DB per OEM Chart	72		CFM	(F wb)	BTUH	BTUH	BTUH	
Capacity from MFG table				64	11,154	9,101	2,053	0.82
Interpolated Capacity			553	63	10,764	9,182	1,582	0.85
Capacity from MFG table				61	9,984	9,345	639	0.94
Out DB per OEM Chart	89		Design	Return Air	Total	Sensible	Latent	SHR
In DB per OEM Chart	72		CFM	(F wb)	BTUH	BTUH	BTUH	SHK
Interpolated Equipment Capacity			553	63	11,361	9,694	1,667	0.85
Excess Latent Capacity Calculation						23	23	
Mfg. Equipment Match-Up Adjustment Factor					1.00	1.00		
Altitude Adjustments					1.00	1.00		
Capacity @ Design Conditions					11,361	9,717	1,644	0.86
Equipment Capacity as a % of Design					88.2%	86.3%	101.4%	
Oversizing Limits					216%		150%	
							Altitude Adjustments	
Heat Pump Data (if applicable)			Capacity @ 47 °F db	Capacity @ 17 °F db	Balance Point	Supplimental Heat Required	1.00	
							Cap. @ 47 °F db	Cap. @ 17 °F db
						4.16	0	0
Select Furnace or Boiler Option Input				Output	Altitude	Furnace		Oversing
Electric Furnace			Capacity	Capacity	Adjustment	Capacity	% of Load	Limits
					1.00	0	0%	200%
			KW Proposed		KW Required		% of Load	Oversizing Limits
			0.00		4.16		0%	175%
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