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

Project Information								
lame				Outdoor Design Temperature - Summer				89
Address					Indoor Design Temperature - Summer			72
City					Indoor Design %RH - Summer			50
State		Zip Code			Outdoor Design Tempe	rature - 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 #				AFUE	
	Manufacturer		AHU/Coil#				SEER	
	Manufacturer		Condenser#				HSPF	
	Manufacturer		Package #				Fan Speed	Med
				Heat	Total	Sensible	Latent	SHR
	Manual J Load C	alculations		Loss	BTUH	BTUH	BTUH	
				14184	12878	11257	1621	0.874
	To internalate can	acitics antar the listed	conscition from the	e manufacturers cooling	norformanae abarto th	at are less than the design	nn tomporaturas horo	
Out DB per OEM Chart	86	cities, enter the listed		Return Air	Total	Sensible	Latent	
In DB per OEM Chart	72		Design CFM	(F wb)	BTUH	BTUH	BTUH	SHR
· · · · · · · · · · · · · · · · · · ·	acity from MFG table			64	12,050	9,833	2,217	0.82
Interpolated Capacity			553	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 72		Design CFM	Return Air	Total	Sensible	Latent	SHR
In DB per OEM Chart	ļ		01 111	(F wb)	BTUH	BTUH	BTUH	0.00
Capacity from MFG table Interpolated Capacity			553	64	11,154	9,101	2,053	0.82
Capacity from MFG table				63	10,764 9,984	9,182 9,345	1,582 639	0.85
Capacity Iron Inito table				01	9,904	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	Oill
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%	
Heat Pump Data (if applicable)			Capacity @ 47 °F db	Capacity @ 17 °F db	Balance Point	Supplimental Heat Required	Altitude Adjustments	
							1.00	
							Cap. @ 47 °F db	Cap. @ 17 °F db
						4.16	0	0
Select Furnace or Boiler Option			Input	Output	Altitude	Furnace		Oversing
Furnace Data (if applicable)			Capacity	Capacity	Adjustment	Capacity	% of Load	Limits
					1.00	0	0%	200%
Electric Furnace			KW Proposed		KW Required		% of Load	Oversizing Limits
			0.00		4.16		0%	175%
					<u> </u>			