Air Condit	ioning Cor	itractors of	America •	Manual S 2nd	Edition (201	4) Residentia	I Equipment S	Selection	
Project Information					Design Information				
lame					Outdoor Design Temperature - Summer			94	
Address					Indoor Design Temperature - Summer			75	
City		Lincoln		Indoor Design %RH - Summer				50	
State	NE	Zip Code	68512	Outdoor Design Temperature - Winter					
System ID				Project Location Elevation				1188	
	System Type		Air-A	Air-Air, Cooling Only, Variable Speed Compressor, Cold Winter or No Latent Load					
Proposed Equipment	Manufacturer		Furnace # AFUE						
	Manufacturer	Mitsubishi	AHU/Coil#		SVZ-KP30NA		SEER	15.0	
	Manufacturer	Mitsubishi	Condenser#	SUZ-KA30NAHZ			HSPF	9.00	
	Manufacturer		Package #				Fan Speed	High	
				Heat	Total Sensible Latent		Latent		
Manual J Load Calculations				Loss	BTUH	BTUH	BTUH	SHR	
				34331	17340	13633	3707	0.786	
To inte	arnolate canacities	e antar the listed c	anacities from the	manufacturers cooling	n nerformance charte	that are less than the	design temperatures h	uero.	
Out DB per OEM Chart	To interpolate capacities, enter the listed capacities from the manufacturers cooling performance charts that are less than the design temperatures here OEM Chart 86 Design Return Air Total Sensible Latent								
In DB per OEM Chart	75		Design CFM	(F wb)	BTUH	BTUH	BTUH	SHR	
Capacity from MFG table			64	26,811	21,610	5,201	0.81		
Interpolated Capacity			875	63	26,262	22,174	4,088	0.84	
Capacity from MFG table				61	25,164	23,302	1,862	0.93	
To inter	nalata canacitica	antar the listed ser	acitics from the m	anufacturara caclina	norformanae abarta t	hat are greater than th	o docian tomporatura	hara	
Out DB per OEM Chart	95			Return Air	Total	Sensible	Latent	SHR	
In DB per OEM Chart	75		Design CFM	(F wb)	BTUH	BTUH	BTUH		
Capacity from MFG table		875	64	26,109	21,044	5,065	0.81		
Interpolated Capacity			63	25,578	21,597	3,981	0.84		
Capacity from MFG table			61	24,516	22,702	1,814	0.93		
Out DB per OEM Chart	94			Return Air	Total	Sensible	Latent		
In DB per OEM Chart	75		Design CFM	(F wb)	BTUH	BTUH	BTUH	SHR	
Interpolated Equipment Capacity		875	(1 W5)	B1011	21,661	3,993	0.84		
Excess Latent Capacity Calculation			63	25,654	143	143	0.01		
Mfg. Equipment Match-Up Adjustment Factor				1.00	1.00	-			
Altitude Adjustments				0.99	0.97				
Capacity @ Design Conditions				25,397	21,150	4,248	0.83		
Equipment Capacity as a % of Design				146.5%	155.1%	103.9%			
Oversizing Limits Heat Pump Data (if applicable)					187%		150%		
					10170				
			Capacity @ 47 °F db	Capacity @ 17 °F db	Balance Point	Supplimental Heat Required	Altitude Adjustments		
							0.		
						4.00	Cap. @ 47 °F db	Cap. @ 17 °F db	
			34,000	32,000	5.8	1.20	33320	31360	
Select Furnace or Boiler Option			Input Capacity	Output Capacity	Altitude Adjustment	Furnace Capacity	% of Load	Oversing Limits	
Furnace Data (if applicable)			,		0.96			200%	

KW Proposed

8.00

Electric Furnace

KW Required

10.06

% of Load

80%

Oversizing Limits

175%