

Air Conditioning Contractors of America

Manual S (Residential Equipment Selection)



Project Information

Name:

City:

State: Altitude: Altitude Adjustment:

Cooling Design Information

Outdoor Design Temp: °F db Summer

Outdoor Design Temp: °F db Winter

Indoor Design Temp: °F db %RH °F wb

Manual J Load Calculations

Total Load	Sensible	Latent	SHR	Heat Loss
16834	14249	2585	0.846	

Airflow Calculations

Design TD for Airflow

Design Sensible CFM

OEM Information

Manufacturer: Furnace Model #:

Coil or Fan-Coil Model #: Condenser Model #: AFUE:

SEER: HSPF:

(A) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Lower CFM	Return Air (F wb)	Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	23,000	16,000	7,000	0.6957
Rated CFM @ Design RA Temperature	700	63	21,400	18,400	3,000	0.8598
Rated CFM @ Rated RA Temperature		62	21,000	19,000	2,000	0.9048

Outdoor Temperature = (F db)

(B) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Higher CFM	Return Air (F wb)	Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	23,000	17,000	6,000	0.7391
Rated CFM @ Design RA Temperature	900	63	21,400	20,200	1,200	0.9439
Rated CFM @ Rated RA Temperature		62	21,000	21,000		1

Outdoor Temperature = (F db)

Manufacturer's Cooling Performance Data (Interpolated)

Design CFM	Return Air (F wb)	Total BTUH	Sensible BTUH	Latent BTUH	SHR	
			18,577	2,823	0.8681	
			+ 119	- 119		
Capacity @ Design CFM / RA (F wb)	719.65	63	21,400	18,696	2,704	0.874
Equipment Capacity as a % of Design			127.12%	131.21%	104.61%	

Outdoor Temperature = (F db)

Manufacturer's Heat Pump Data

Capacity @ 47 °F db	Capacity @ 17 °F db	Balance Point	Supplemental Heat Required
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Manufacturer's Furnace Data

Input Capacity	Output Capacity	AFUE	Desired Temp. Rise	Calculated Airflow
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