Air Conditioning Contractors of America
Manual S (Residential Equipment Selection)

ACCA

Project Information

Name: 4430 9th St-v1, System 2
City: Washington
State: DC Altitude: 66 Altitude Adjustment: 1.00

Cooling Design Information

Outdoor Design Temp:	92	°F db	Summer		
Outdoor Design Temp:	20	°F db	Winter		
Indoor Design Temp:	75	°F db	50	%RH	63 °F wb

Manual J Load Calculations

Total Load	Sensible	Latent	SHR	Heat Loss
8777	6373	2404	0.726	61657

Airflow Calculations

Design TD for Airflow	21
Design Sensible CFM	276

OEM Information

Manufacturer: Weil McLain
Furnace Model #: CGA5 spdn
AFUE: 83.0
Coil or Fan-Coil Model #:
Condenser Model #:
SEER:
HSPF:

(A) Manufacturer's Cooling Performance Data

Outdoor Temperature = 95 (F db)

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				#DIV/0!
Rated CFM @ Design RA Temperature		63		#DIV/0!		#DIV/0!
Rated CFM @ Rated RA Temperature		62				#DIV/0!

(B) Manufacturer's Cooling Performance Data

Outdoor Temperature = 95 (F db)

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				#DIV/0!
Rated CFM @ Design RA Temperature		63		#DIV/0!		#DIV/0!
Rated CFM @ Rated RA Temperature		62				#DIV/0!

Manufacturer's Cooling Performance Data (Interpolated)

Outdoor Temperature = 95 (F db)

	Design CFM	Return Air (F wb)	Total BTUH	Sensible BTUH	Latent BTUH	SHR
				#DIV/0!	#DIV/0!	#DIV/0!
Excess Latent Capacity Calculation				+ #DIV/0!	- #DIV/0!	
Capacity @ Design CFM / RA (F wb)	**275.89**	**63**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**
Equipment Capacity as a % of Design			#DIV/0!	#DIV/0!	#DIV/0!	

Manufacturer's Heat Pump Data

Capacity @ 47 °F db	Capacity @ 17 °F db	Balance Point	Supplemental Heat Required
		65.0	18.07

Manufacturer's Furnace Data

Input Capacity	Output Capacity	AFUE	Desired Temp. Rise	Calculated Airflow
140,000	117,000	83.0	50	2,167