

## Residential Plans Examiner Review Form for HVAC System Design (Loads, Equipment, Ducts)

Form RPER 1.01 8 Mar 10

## County, Town, Municipality, Jurisdiction Header Information

Contractor		REQUIRED ATTACHMENTS <sup>1</sup> Manual J1 Form (and supporting worksheets):  or MJ1AE Form <sup>2</sup> (and supporting worksheets):				ATTACHED Yes □ No □		
Mechanical License #						No No		
Building Plan #	Manual I	<ul> <li>OEM performance data (heating, cooling, blower):</li> <li>Manual D Friction Rate Worksheet:</li> <li>Duct distribution system sketch:</li> </ul>			Yes Tes Tes	No		
Home Address (Street or Lot#, Bloo	ck, Subdivisio	n)	Ductuis	tribution syst	eiii sketcii.		163 <u> </u>	140
HVAC LOAD CALCULATION	ON (UMC 1	106.1)						
Design Conditions			Building C	onstruct	ion Infor	<u>mation</u>		
Winter Design Conditions			Building	l				
Outdoor temperature		°F	Orientatio	on (Front do	or faces)			
Indoor temperature		°F	North, East, West, South, Northeast,			Northwest, Southeast, Southwest		
Total heat loss		Btu	Number o	of bedrooms	•			
Summer Design Conditions			Condition	ned floor are	a	Sq Ft		
Outdoor temperature		°F	Number o	of occupants	5			
Indoor temperature		°F	Window	s			Doof	_
Grains difference	∆ Gr @	% Rh	Eave over	hang depth		Ft	Roof	
Sensible heat gain		Btu	Internal si	hade			Eave $\Pi$	
Latent heat gain		Btu		apes, etc			Depth	Window
Total heat gain		Btu	Number o	of skylights			T	
HVAC EQUIPMENT SELEC	TION							
Heating Equipment Data		C	ooling Equipment Data			Blower Data		
Equipment type		_	Equipment type					CFM
Furnace, Heat pump, Boiler, etc.		_	Air Conditioner, Heat pump, etc			Heating CFM		CI WI
Model		_	Model			Cooling CFM		CFM
Heating output capacity  Heat pumps - capacity at winter design	Bt	u	Sensible cooling capacity		Btu			
	itdoor conditions		Latent cooling capacity		Btu			
Auxiliary heat output capacity	Bt	u	Total cooling capacity		Btu			
HVAC DUCT DISTRIBUTION	ON SYSTE	M DE	SIGN (UMC 601.2)					
Design airflow	CFN	Л L	ongest supply duct:	Ft	Duct Mat	erials Used (circle	)	
External Static Pressure (ESP)	IW0	_	ongest return duct:	Ft	Trunk Duct: Duct board, Flex, Sheet meta Lined sheet metal, Other (s			
Component Pressure Losses (CPL)	IW	C 1	otal Effective Length (TEL)	Ft		t. Doorthoond I	Tarri Clara	
Available Static Pressure (ASP)	IW	$\boldsymbol{c}$	Friction Rate:	Branch D		Ouct: Duct board, Flex, Sheet metal, Lined sheet metal, Other (specify)		
ASP = ESP - CPL		•	Friction Rate = (ASP × 100) ÷ TEL					
I declare the load calculation, equabove, I understand the claims m						l based on the b	uilding p	lan listed
Contractor's Printed Name					Date			
Contractor's Signature					_			

## Reserved for use by County, Town, Municipality, or Authority having jurisdiction.

<sup>&</sup>lt;sup>1</sup> The AHJ shall have the discretion to accept Required Attachments printed from approved ACCA software vendors, see list on page 2 of instructions.

<sup>&</sup>lt;sup>2</sup> If abridged version of Manual J is used for load calculation, then verify residence meets requirements, see Abridged Edition Checklist on page 13 of instructions.