

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

Form RPER 1.01

8 Mar 10

Contractor	•	REQUIRED ATTACHMENTS ¹				ATTACHED		
Mechanical License #	Manual J1 Form (and supporting worksheets):or MJ1AE Form² (and supporting worksheets):				Yes	No		
Building Plan #	Manual [OEM performance data (heating, cooling, blower):Manual D Friction Rate Worksheet:			Yes	No No		
Home Address (Street or Lot#, Bl	—— Duct dist	Duct distribution system sketch:				No		
HVAC LOAD CALCULAT	ION (IRC M1401	L.3)						
Design Conditions	•	·	Building C	onstruct	ion Infor	mation_		
Winter Design Conditions			Building					
Outdoor temperature		°F		n (Front doc	· -			
Indoor temperature		°F	North, East, West, South, Northeast, Northwest, Sout					
Total heat loss		Btu	Number of bedrooms					
Summer Design Condition	าร		Condition	ed floor are	ea	Sq Ft		
Outdoor temperature		°F	Number of occupants					
Indoor temperature		°F	Windows				Roof	_
Grains difference	Δ Gr @% F	Rh	Eave overhang depth		Ft	Kool		
Sensible heat gain	E	Btu	Internal shade				Eave	
Latent heatgain	E	Btu	Blinds, drapes, etc					Window
Total heatgain _	E	Btu	Number o	ofskylights			T	
HVAC EQUIPMENT SELE	CTION (IRC M	1401.3)						
Heating Equipment Data	ipment Data			Blower Data	1			
		ype			Heating CFM	-	CENA	
			ner, Heat pump, etc			riedting Crivi	-	CFIVI
						Cooling CFM		CFM
Heating output capacity Heat pumps - capacity at winter design	Btu	Sensible coo	ling capacity					
		Latent coolir	ig capacity		Btu			
Auxiliary heat output capacity	Btu	Total cooling	; capacity		Btu			
HVAC DUCT DISTRIBUTI	ON SYSTEM D	ESIGN (IRC	M1601.1)					
Design airflow	CFM	Longest supply	duct:	Γί		laterials Used (circle) Duct: Duct board, Flex, Sheet metal,		
External Static Pressure (ESP)	IWC	Longest return	duct:	Ft	Lined sheet metal,			
Component Pressure Losses (CPL)	IWC	Total Effective	e Length (TEL)	Ft	Branch Duct: Duct board, Flex, Sheet me		metal,	
Available Static Pressure (ASP)	IWC		Friction Rate:		Lined sheet			
ASP = ESP - CPL			= (ASP × 100) ÷ TEL	···		11		
I declare the load calculation, e above, I understand the claims						based on the	building pi	an listed
Contractor's Printed Name					Date			
Contractor's Signature								

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

¹The AHJ shall have the discretion to accept Required Attachments printed from approved ACCA software vendors, see list on page 2 of instructions.

² 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.