

Mechanical License #

Building Plan #

Contractor

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

REQUIRED ATTACHMENTS¹

Manual J1 Form (and supporting worksheets): or MJ1AE Form² (and supporting worksheets): OEM performance data (heating, cooling, blower): Manual D Friction Rate Worksheet: Duct distribution system sketch:

ATTACHED										
Yes		No 🗌								
Yes		No 🗌								
Yes		No 🗌								
Yes		No 🗌								
Yes		No 🗌								

Home Address (Street or Lot#, Block, Subdivision)

HVAC LOAD CALCULA	TION (IRC M	11401.							
Design Conditions	Building Construction Information								
Winter Design Conditions				Building					
Outdoor temperature		c	°F		n (Front doc	· -			
Indoor temperature		c	۴			n, Northeast, N	orthwest, Southeast, S	Southwest	
Total heat loss		Bt	:u	Number o	f bedrooms				
Summer Design Condition	ns	_		Condition	ed floor area	a	Sq Ft		
Outdoor temperature		c	°F	Number o	of occupants				
Indoor temperature		c	۴	Windows	-				
Grains difference	∆ Gr @	% R	łh	Eave over	hang depth		Ft	Roof	
Sensible heat gain		Btu		Internal shade					
Latent heat gain		Btu Btu		Blinds, drapes, etc Number of skylights					
Total heat gain		_		Number d	or skylights				
HVAC EQUIPMENT SEL	ECTION (IF	RC M1	401.3)						
Heating Equipment Data		!	Cooling Equipm	<u>ient Data</u>			Blower Data		
Equipment type				nent type			Heating CFM	CFM	
Furnace, Heat pump, Boiler, etc. Model			Air Conditioner, Hea Model	it pump, etc					
							Cooling CFM	CFM	
Heating output capacity Heat pumps - capacity at winter design		Btu	Sensible cooling c	apacity		_ Btu			
heat pumps - capacity at writer design		3	Latent cooling cap	bacity		Btu			
Auxiliary heat output capacity	F	Btu	Total cooling capa	icity		Btu			
HVAC DUCT DISTRIBUT	ION SYST	EM D	ESIGN (IRC M16	501.1)					
Design airflow	CF	CFM Longest supply due		uct: Ft ^{Duct}		Duct Mate	t Materials Used (circle)		
External Static Pressure (ESP)	N	NC	Longest return duct		Ft	Trunk Du	ct: Duct board, Fl Lined sheet m	ex, Sheet metal, etal, Other (specify)	
Component Pressure Losses (CPL)			-		Ft				
· ·		Brar		Branch Du	Duct: Duct board, Flex, Sheet metal, Lined sheet metal, Other (specify)				
Available Static Pressure (ASP)	I\	WC	Friction Rate:		IWC		Lined sheet r	netal, Other (specify)	
ASP = ESP - CPL			Friction Rate = (ASP :						
I declare the load calculation, e above, I understand the claims							based on the b	building plan listed	
Contractor's Printed Name						Date			
– Contractor's Signature						_			
		- C	· · · · · · · · · · · · · · · · · · ·						

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

¹ The 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.