## HVAC EQUIPMENT DESIGN FORM

House Address:	Permit #: Date:					
Permit holder:	Phone:					
HVAC SYSTE	M SIZING AND SELECTION					
Heating and cooling equipment shall be selected in accordance with Manual S, based on loads calculated in accordance with Manual J.						
Design loads:	Equipment specifications:					
Design cooling load (Btu/h)	Cooling system output capacity	_ (Btu/h)				
	Cooling equipment make:	_				
	Cooling equipment model:	_				
Design heating load: (Btu/h)	Heating system output capacity:	(Btu/h)				
	Heating equipment make:					
	Heating equipment model:	_				
$\square$ Manual J report is attached						
☐ Manual S report is attached						
	d 1.15 times the design capacity or the next large as may exceed the design capacity by 1.25 times of					
☐ Specified heating equipment does not excee whichever is greater	ed 1.40 times the design capacity or the next larg	er nominal size,				
$\square$ Whole-house mechanical ventilation worksheet has been completed (see reverse)						

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House Address:		Permit #: Date:								
Permit holder:	it holder:Phone:									
		DUSE MECHANICAL V	-		WORKSH	EET				
1. Fill in the conditioned floor area and number of bedrooms for the dwelling:										
Conditioned Floor Area = ft <sup>2</sup> Number of bedrooms =										
2. Circle the required airflow value on the table below:										
IRC Table M1507.3.3(1)										
Continuous Whole-House Mechanical Ventilation System Airflow Rate Requirements										
Dwelling Unit Floor					1					
Area (square feet)	0-1	2-3	4-5 Airflow in	CENA	6	-7		>7		
< 1,500	30	45	60	CFIVI	-	<sup>7</sup> 5		90		
1,501 – 3,000	45	60	75			90		105		
3,001 – 4,500	60	75	90	_		105		120		
4,501 – 6,000	75	90	105			120		135		
6,001 – 7,500	90	105	120		135			150		
> 7,500	105	120	135		150			165		
<ul> <li>3. Does the fan operate continuously or intermittently?   Continuous   Intermittent</li> <li>4. If the fan is to be operated intermittently on a pre-set schedule, multiply the airflow value from Table M1507.3.3 (above) by the appropriate value in Table M1507.3.3(2) (below).</li> </ul>										
			e M1507.3.3							
Г		tent Whole-House N					750/	1		
<u> </u>	Run-time Percentage in Factor	Each 4-nour Segmer	1t 25%	<b>33%</b> 3.0	<b>50%</b> 2.0	<b>66%</b>	<b>75%</b> 1.3	-		
L	1 40001		4.0	3.0	2.0	1.5	1.5	J		
<ul><li>5. Enter the required airflow = CFM</li><li>6. Enter the following information regarding the specified fan:</li></ul>										
	Rated fan airflow = CFM									
HVI-rated fan efficacy = CFM/Watt Fan model:										