INC. VI1.1.AGE OF P1.ANDOME

RESIDENTIAL HVAC EQUIPMENT DESIGN WORKSHEET HEATING AND COOLING EQUIPMENT

House Address:	Permit #:	Date:					
Permit Applicant:	Phone:						
Requirements: R403.1.1 All thermostats are programmable R403.3.1 Ducts in unconditioned spaces are insulated 3" diameter insulated to ≥ R-8 in attics and ≥ R-6 elsewhere 3" diameter insulated to ≥ R-6 in attics and ≥ R-4.2 elsewhere R403.3.2.1 Air handler has manufacturer's designation of ≤ 2% air leakage when tested per ASHRAE 193 R403.3.3 Completed Duct and Envelope Testing Form will be submitted to the inspector R403.4 HVAC pipe insulation is R-3 minimum (e.g. hydronic systems, refrigerant lines) and outdoor insulation is protected R403.7 Manual J report, including heating and cooling design loads, is attached R403.7 Heating and cooling equipment have been selected in accordance with Manual S, based on loads calculated in accordance with Manual J (see below)							
Complete the following based on the attached Ma	nual J report:						
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:						
 Manual S. Specified cooling equipment cap whichever is greater. (Exception: Heat pum Manual S. Specified heating equipment cap whichever is greater 	ps may exceed the design load by 1.25	times or the next nominal size.)					
☐ RCNYS R303.4 Whole-house mechanical ve	ntilation worksheet has been complete	ed (see reverse)					

RESIDENTIAL HVAC DESIGN FORM WHOLE-HOUSE MECHANICAL VENTILATION DESIGN WORKSHEET

House Address:	_		Perr	nit #:			Date:		
Permit holder:	Phone:								
1. Fill in the cond	itioned floor area ar	nd number of bedrooms f	or the dv	velling:					
Conditioned Floor Area = ft ² Number of bedrooms =									
2. Circle the required airflow value on the table below:									
RCNYS Table M1505.4.3(1)									
Continuous Whole-House Mechanical Ventilation System Airflow Rate Requirements									
Dwelling Unit Floor	Number of Bedrooms								
Area	0-1	2-3	4-5		6	-7		>7	
(square feet) Airflow in CFM									
< 1,500	30	45	60		7	75		90	
1,501 – 3,000	45	60	75		9	0	1	105	
3,001 – 4,500	60	75	90		1	05		120	
4,501-6,000	75	90	105		1	20	1	135	
6,001 – 7,500	90	105	120		135		1	150	
> 7,500	105	120	135		150			165	
 3. Does the fan operate continuously or intermittently?									
F		ittent Whole-House Mech			_				
-		n Each 4-hour Segment	25%	33%	50%	66%	75%		
Fac	ctor		4.0	3.0	2.0	1.5	1.3		
 5. Enter the required airflow = CFM 6. R403.6.1. Fan efficacy. Enter the following information regarding the specified fan: 									
Rated fan airflow = CFM Fan make:									
HVI-rated fan efficacy =CFM/Watt									