Massachusetts Whole-house Mechanical Ventilation Design Worksheet¹



House Address:	Permit #:	Date:	
Permit holder:	Phone:		
VERIFIER:			
Testing company:	Phone:		
Tester Name (print):			
Date:			
BPI or HERS Rater certification number: BPI no:	HERS Rater r	10:	
REQUIRED AIRFLOW (Q):			
Infiltration	n credit portion of equation is o	optional	
r	l		
$Q = .03 \text{ x CFA} + 7.5 \text{ x } (N_{br} + 1)$ -	$0.052 \ x \ Q_{50} \ x \ S \ x \ WSF$		
Dequired inputs	Ontional inputs		
<u>Required inputs:</u> CFA = Conditioned Floor Area = ft ²	<u>Optional inputs:</u> $Q_{ro} = Blower door test r$	result =	CEM50
N_{br} = Number of bedrooms =	Q ₅₀ = Blower door test result =CFM50 S = Building height factor =		
	WSF = Weather and shie		
Building Height Factor (S)	Meether and Chie	leliner Tretor	
Stories above grade plane123	Weather and Shie		
S 1.00 1.32 1.55	County	WSF	
	Barnstable Berkshire	0.60	
Heat or energy recovery balanced	Bristol	0.52	
ventilation system info:	Dukes	0.54	
An HRV or ERV system has been specified.			
HRV or ERV system rated airflow CFM	Essex Franklin	0.58	
Systems exceeding 300 cfm:	Hampden	0.49	
Cooling enthalpy recovery ratio%	Hampshire	0.59	
Heating enthalpy recovery ratio%	Middlesex	0.55	
Systems 300 cfm or less: Sensible recovery efficiency (SRE)%	Nantucket	0.61	
	Norfolk	0.52	
HVI-Rated fan efficacy =CFM/W	Plymouth	0.53	
	Suffolk	0.66	
	Worcester	0.59	

Required airflow (Q) = _____ CFM

QUALIFIED PERFORMANCE TESTING PROVIDERS:

Find qualified performance testers at:

https://www.masssave.com/-/media/Files/PDFs/Partners/Low-Rise_Certified-HERS-Rater-List.pdf

¹ This form is based on Section R403.6 Mechanical Ventilation – option 3. Other options include RESNET/ICC Standard 301 and ASHRAE 62.2-2019 or 62.2-2022

ENERGY CODE SUPPORT HOTLINE: 855-757-9717	EMAIL: ENERGYCODESMA@PSDCONSULTING.COM

WE ARE MASS SAVE*:









