

GUTTER RUN-OFFS EXTEND AWAY

New Jersey Home Performance with ENERGY STAR®



Home Performance Audit/ Software Data Collection

Overtown and		Contractor:							
Customer:									
Street:									
City: Zip:			ck Incentive only						
Phone: (Home): (•						
Phone: (Work): ()			ck & 0% Loan						
Owner: UYes UNo/ Name:	· · · · · · · · · · · · · · · · · · ·		Insulation (may include duct seal, DHW & Insulation)						
Phone: ()			Insulation, HVAC- (must achieve 20%+ TES)						
Multi-Fam Dev:		□ Multi-Fa	mily Building Project						
Bldg: Unit #: #Units/Bld			ling units- Whole building ible for Auto-proceed						
usage for dwelling. Current Utility bill with 12-BPI Health & Safety Requirements: ANY	gas, oil, and/or propane). Must submit 12 consecutive months, or extent of occupation if <12 months, of all energy usage for dwelling. Current Utility bill with 12-month usage graph acceptable to submit. BPI Health & Safety Requirements: ANY ISSUES IDENTIFIED BELOW, AS "NEEDS WORK" MUST BE ADDRESSED PRIOR TO INSTALLING ANY ENVELOPE MEASURES. No Unvented fossil fuel appliances OK Remove/ Disable BPI does not allow unvented appliances								
No Unvented fossil fuel appliances	□ OK	☐ Remove/ Disable	BPI does not allow unvented appliances						
No Loose Asbestos Like Materials	□ OK	☐ No Blower Door Tests	No blower door if may be disturbed						
No Visible signs of Active Mold/ High Moisture	□ OK	☐ Requires Remediation	<10 sq ft mold can be cleaned						
No Exhaust fans vent to attic- vented outside with wall/ roof	□ ок	☐ Requires Repairs	May not vent to attic						
termination, pitched ¼ inch per ft, insulated R-7 in unconditioned Dryer Properly Vented to outside- vented to outside with			No foil or plastic flexible venting						
semi-rigid metal, insulated R-7 in unconditioned space	□ OK	☐ Requires Repairs	No foil of plastic flexible vertifing						
Existing Carbon Monoxide Alarm	□ OK	☐ Must Install	Must be at least one in home						
No Fuel Leaks	□ OK	☐ Requires Repairs	All leaks MUST be repaired						
Passed CAZ Worst-Case Depressurization Testing	□ ОК	☐ Requires Repairs	Must not exceed BPI limits						
Passed all Worst-Case Spillage, CO, and Draft Tests	□ OK	☐ Requires Repairs	Must pass all BPI combustion testing						
As per BPI- gas dryers venting MUST be metal and there must be at least one CO detector in the home or one must be installed as part of the Work Scope. If any of the above issues exist in the home, they must be addressed prior to installing air sealing and/ or insulation Moisture Survey: This checklist is provided for evaluating the moisture load of a home: The Moisture Survey checklist is provided as a reminder for the auditor to look for these when performing the audit; it is not required to fill this section in. Some items on the checklist add to moisture loads and some help to mitigate moisture. BPI requires moisture issues to be addressed prior to performing any shell work; for example- an indoor hot tub should be considered a moisture issue and should be addressed as part of work scope by installing mechanical ventilation and a central dehumidification system. Description of the work of the home, they must be addressed prior to installing air sealing and or installing air sealing and or installing and installing and installing mechanical ventilation and a central dehumidification system.									
PROPER SIZED GUTTERS ON HOUSE									
☐ GUTTERS ARE NOT CLOGGED ☐	NO UNVE	NTED COMBUSTION APPLIAN	CES VAPOR BARRIER ON EXPOSED DIRT						

☐ CENTRAL DEHUMIDIFCATION SYSTEM

☐ SUMP PUMP OPERABLE

	☐ PROPER FOUNDATION GRADING	□ W	HOLE HOUSE VENTIALTION PRESENT	☐ SUMP PUMP PIT HAS TIGHT COVER						
	☐ ADEQUATE ATTIC PASSIVE VENTS	□ PI	ROPER CONTROL OF HUMIDIFER	☐ HVAC CONDENSATE DRAINS OUTSIDE						
	☐ ATTIC VENT HIGH & LOW, NOT BLOC	KED 🗇 H	OMEOWNER PROPER USE OF HUMIDIFIER	☐ ADEQUATE CRAWL VENTIALTION						
	☐ EXHAUST FANS TERMINATE OUTSID	E 🛭 🗷 S0	OURCE VENTILATION BATHROOM	☐ BSMT/ CRAWLMECHICAL VENTILATION						
	☐ NO ROOF LEAKS	□ S0	OURCE VENTIALTION KITCHEN	☐ DRYER VENT TERMINATES OUTSIDE						
Βι	uilding Model- Program Softv	are Building M	Model Data Collection							
	Orientation: Front entrance of house fac	es:	□ North □NE □ East □SE	□South □SW □ West □NW						
			Standing outside with your back to fi	ront door, which way are you facing						
	Attachment: There is another dwelling a following building surfaces (e.g. Townhomes Duplex)		□ N/A □ Above □ Below □ Front □ Left □ Back	Right □ Right						
			Standing outside looking at the front door, on which side is an attachment							
	Buffered Walls: The following walls are buffered by an unconditioned space (e.g., ga		□ N/A □ Front □ Left □ Back □ Right Standing outside looking at the front door, on which side is a buffered wall							
	Walls: The building has Above Grade wal	ls that are	☐ Wood Frame ☐ Balloon ☐ Platform							
			☐ Masonry							
yout	Floors: Dwelling has floors that are over	(check all that apply)	☐ Unheated Basement ☐ U	nheated Crawlspace Slab						
La	(Uninsulated heating distribution in the base	ment = heated	☐ Heated Basement ☐ heated Crawlspace ☐ Overhang							
Building Layout	basement)		☐ Other unconditioned space (e	.g. garage)						
Bu	Almost all hasements are "heat.	 basement would be a basement to								
			led, insulated, <u>and</u> the ceiling of the	-						
	# Conditioned	Conditioned	Area (sq. Ft)-	ditioned Volume (cu. ft.)-						
	# Conditioned Floors	Conditioned Above Grade		ditioned Volume (cu. ft.)- ve Grade:						
	# Conditioned	Above Grade	sq ft Abov	cu ft						
	# Conditioned Floors	Above Grade Basement:	sq ft Abov	cu ft cu ft						
	# Conditioned Floors (Full Stories Above Grade) Note: Software- Only include the above grade sq ft and above grade volume on the	Above Grade Basement:	sq ft Abov	cu ft Basement: cu ft cu ft						
	# Conditioned Floors (Full Stories Above Grade) Note: Software- Only include the above	Above Grade Basement:	sq ft Abov	cu ft Basement: cu ft cu ft						
	# Conditioned Floors (Full Stories Above Grade) Note: Software- Only include the above grade sq ft and above grade volume on the Building Model Layout screen.	Above GradeBasement: (Do not include the	sq ft Above sq ft B sq ft B e Basement sq ft or Basement Volume in the Sc Total Volume (Use	cu ft Basement: cu ft cu ft						
	# Conditioned Floors (Full Stories Above Grade) Note: Software- Only include the above grade sq ft and above grade volume on the Building Model Layout screen.	Above GradeBasement: (Do not include the	sq ft Above sq ft B sq ft B e Basement sq ft or Basement Volume in the Sc Total Volume (Use	cu ft						
	# Conditioned Floors (Full Stories Above Grade) Note: Software- Only include the above grade sq ft and above grade volume on the Building Model Layout screen. # of Conditioned Floors: is the not grade stories in RHA	Basement: (Do not include the	sq ft Above sq ft B sq ft B e Basement sq ft or Basement Volume in the Sc Total Volume (Use	cu ft Basement: cu ft oftware) for BAS): cu ft cu ft cu ft						
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As per BP-ony fuel leaks must be repaired prior to any installations Combustion Appliance Testing: (Other appliances: gas logs, space heater, ovens, etc.) Combustion Appliance (Wile-in)				110111	e i ci ioi iiiai	100 11	IUI DI IDI	OI DII	111		
Combustion Appliance Testing: (Other appliances: gas logs, space heater, ovens, etc.) Combustion Appliance (Witle-in) CO ppm Un-Diluted Ambient CO ppm Vented to Outside ppm	Fuel L	eaks? • No • Yes:									_
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Combustion Appliance Testing: (Other appliances: gas logs, space heater, ovens, etc.) Combustion Appliance (Witto-in) CO ppm Un-Diluted Ambient CO ppm Un-Diluted ppm	Ac nor	PDI any fuel leaks must	ho rongiro	d prior	to any installat	ions					_
Combustion Appliance (Write-in) CO ppm Un-Diluted Ambient CO ppm Vented to Outside											
Period Pass Fail requires repair Period Poss Period Pass Fail requires repair Period			ing: (Oth	er app			ce heater, ove		ot CO nom	Vantad ta Outaida	
Default Values: Pain Pass Pail requires repair ppm No Yes	Combi	istion Appliance (write-in)							it co ppiii		
Use this section to write in the testing of appliances that are not listed, such as gas fireplace, etc. Note: BPI does not allow any air sealing or insulation to be installed in homes with unvented gas appliances (excluding ovens).									ppm	□ No □ Yes	
Use this section to write in the testing of appliances that are not listed, such as gas fireplace, etc. Note: BPI does not allow any air sealing or insulation to be installed in homes with unvented gas appliances (excluding ovens). CAZ Depressurization Zone #1 Limit: Location: (Circle the limit below) (Natural draft Individual DHW = -2) (Natural draft theater common with natural draft DHW = -3) (Induced draft heater common with natural draft DHW = -5) (Induced draft heater common with natural draft DHW = -5) (Induced draft individual heater = -15 (Powered vented DHW = -15) (Oil w/ barometric damper common with natural draft DHW = -5) (Induced draft individual heater = -15 (Powered vented DHW = -15) (Oil w/ barometric damper = -5) (Oil w/ high-static burner = -50) Wote: If you propose to ORPHAN the DHW, the limit at time of Test-out will be -2.0 The CAZ Depressurization Limits are from the BPI standards, compare the Net Pressure Change to these limits Worst Case: Bath exhaust Fans Kitchen Exhaust Clothes Dryer Attic Powered Ventilators Central Vacuum Alir Handler/s Bed Doors (+ Closed/ - Open) Basement Door Other Interior Doors Base Pressure Pascals (Fans off) Worst Case Press Pa (Fans on) Net Pressure Change Pascals (Worst-Case Pressure) CAZ WRT Outside Compare to CAZ Depressurization Pa.					_{ppm} □Pass	Fa	il requires repai	r	ppm	□ No □ Yes	
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CAZ Depressurization Zone #1 Limit: Location: (Circle the limit below) (Natural draft Individual DHW = -2) (Natural draft heater common with natural draft DHW = -3) (Induced draft heater common with natural DHW = -5) (Natural draft Individual heater = -15 (Powered vented DHW = -5) (Induced draft individual heater = -15 (Powered vented DHW = -5) (Induced draft individual heater = -15 (Powered vented DHW = -5) (Induced draft individual heater = -15 (Powered vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Powered Vented DHW = -5) (Induced draft individual heater = -15 (Power Vented Autoral DHW = -5) (Induced draft individual heater = -15 (Power Vented Autoral DHW = -5) (Induced draft individual heater = -15 (Power Vented Autoral DHW = -5) (Induced draft individual heater = -15 (Power Vented Autoral DHW = -15							_			e: BPI does not allo	w
(Natural draft Individual DHW = -2) (Natural draft heater common with natural draft DHW = -3) (Induced draft heater common with natural DHW=-5) (Natural draft Individual heater = -9) (Natural draft individual heater = -15) (Natural draft individual heater = -15 (Natural dr									-		
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Pa. Pasture unmber Pasture unmber unmber unmber Pasture unmber Pasture unmber unmber unmber unmber unmber unmber Pasture unmber unm	(Natu	ral draft Individual DHW = -2)	(Natural drai	ft heater	common with natur	al draft	DHW = -3) (Inc	luced draft h	neater commo	n with natural DHW= -5	5)
Note: If you propose to ORPHAN the DHW, the limit at time of Test-out will be -2.0 The CAZ Depressurization Limits are from the BPI standards, compare the Net Pressure Change to these limits Worst Case:	(Natura	al draft Individual heater = -5) (Natural draft	t heater i	w/ vent damper con	nmon w	ith natural draft	DHW = -5)	(Induced dra	ft individual heater = - 1	5)
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Worst Case:	Note:	If you propose to ORPH	IAN the D	HW, th	ne limit at time o	of Tes	st-out will be	-2.0			
Worst Case: Bath exhaust Fans Kitchen Exhaust Clothes Dryer Attic Powered Ventilators Central Vacuum Dair Handler/s Bed Doors (+ Closed/ - Open) Basement Door Other Interior Doors Base Pressure Pascals (Fans off) Worst Case Pres. Pa (Fans on) CAZ WRT Outside CAZ Depressurization Al) House closed up for winter conditions, usually a negative number Pa.									inge to the	se limits	
Base Pressure Pascals (Fans off) CAZ WRT Outside CAZ WRT Outsi	THE C	NE Depressanzation Emi	ts are from	n the B	rrstandards, co	лприг	e the Net me	SSUITE CITA	inge to the	se mmes	
Base Pressure Pascals (Fans off) CAZ WRT Outside Pa. A) House closed up for winter conditions, usually a negative number Water Heater (DHW): Default Values: R-value = 5 Energy Factor: Gas = 0.54 Oil = 0.51 Elec = 1 Castion Purely descriptive-has no impact of calculations Ask the homeown er or estimate based on Tank- standard Heat Pump Nat Gas Gas Atmospheric Power vented at unit Power vented at unit Power vented at unit Power vented at ext. Will Be Orphaned?	Worst	Case: Bath exhaust F	ans 🔲	Kitchen	Exhaust	othes I	Dryer 🖵 A	ttic Power	ed Ventilator	rs	ım
Base Pressure Pascals (Fans off) CAZ WRT Outside CAZ WRT Outsi		□Air Handler/s	П	Red Do			•	ment Doo		ther Interior Doors	
CAZ WRT Outside CAZ WRT Outside CAZ WRT Outside Pa. Pa. Pa. Pa. Pa. Pa. Pa. Pa			_	D00 D0	, or o (J PO(1)	— Daoc	minorit Booi		and interior Beere	
CAZ WRT Outside CAZ WRT Outside CAZ WRT Outside Pa. Pa. Pa. Pa. Pa. Pa. Pa. Pa	Rase	Pressure Pascals (Fans off)	Worst (Case Pres	s Pa (Fans on)		Net Pressi	ıre Change F	Pascals (Worst	-Case Pressure)	
Pase		` '			` ´						
A) House closed up for winter conditions, usually a negative number B) Turn on all exhaust applicable as listed above pressure across doors C) The Net Pressure Change = the difference between the Base and Worst Case Net Pressure = B-A Default Values: R-value = 5 Energy Factor: Gas = 0.54 Oil = 0.51 Elec = 0.54 Oil = 0.54 Oil = 0.54 Oil = 0.54 O											nair
applicable as listed above check pressure across doors Seconditions Common vented w/ heat?	4)					CLTI	- N-+ D				
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Water Heater (DHW): Default Values: R-value = 5 Energy Factor: Gas = 0.54 Oil = 0.51 Elec									Limits abov	ve	
Location Purely descriptive-has no impact of calculations Ask the homeown er or estimate based on Gallons Fair □ Poor Poor Ask the homeown er or estimate based on □ Tank- standard □ Heat Pump □ Tank- High Effic. □ On demand □ Tank- High Effic. □ On demand □ Tank- Indirect □ Tank- Poor □ Tank- Poor □ Tank- Poor □ Tank- Poor □ Power vented at unit □ No □ Yes Will Be Orphaned?			doo	rs			Net Pressure =	B-A			
Location Purely descriptive-has no impact of calculations Ask the homeown er or estimate based on Gallons Fair □ Poor Poor Ask the homeown er or estimate based on □ Tank- standard □ Heat Pump □ Tank- High Effic. □ On demand □ Tank- High Effic. □ On demand □ Tank- Indirect □ Tank- Poor □ Tank- Poor □ Tank- Poor □ Tank- Poor □ Power vented at unit □ No □ Yes Will Be Orphaned?											
Location Energy Factor Ask the homeown er or estimate based on Gallons Fair □ Poor Poor Ask the homeown er or estimate based on □ Tank- standard □ Heat Pump □ Tank- High Effic. □ On demand □ Tankless □ Indirect □ Oil R-value Gallons Benergy Factor Use the default value of R5 if not labeled Fair □ Poor Atmospheric □ Power vented at unit □ No □ Yes Will Be Orphaned?											
Purely descriptive-has no impact of calculations Ask the homeown er or estimate based on Good □ Fair □ Poor Good □ Fair □ Poor Factor Use the default value of R5 if not labeled Factor Use the default value of R5 if not labeled Factor On demand □ Heat Pump □ Tank- High Effic. □ On demand	Wat	<u>er Heater (DHW):</u>			Dei	fault V	alues: R-value	= 5 Energ	gy Factor: Gas :		= 0.88
Purely descriptive-has no impact of calculations Ask the homeown er or estimate based on Good Fair Poor R5 if not labeled Tank- standard Heat Pump Nat Gas Tank- High Effic. On demand Tank- High E	Locati	ion	≅A	ge	Condition			R-value	Gallons		
Purely descriptive-has no impact of calculations Ask the homeown er or estimate based on Good Fair Poor R5 if not labeled Grank- standard Heat Pump Tank- High Effic. Tank- High Effic. I Tank- High Effic. I Tank- I Indirect Ask the homeown er or estimate based on R5 if not labeled Atmospheric Power vented at unit No Yes Will Be Orphaned?								Use the			4
Purely descriptive-has no impact of calculations er or estimate based on Good Fair Poor R5 if not labeled Tank- standard Heat Pump Tank- High Effic. On demand Tankless Indirect Tankless Indirect Poor R5 if not labeled Atmospheric Common vented w/ heat? Power vented at unit No Yes Will Be Orphaned?											
estimate based on RS if not labeled For standard efficiency systems. Atmospheric Common vented w/ heat?				□ Good □	Fair	□ Poor					
Tank- standard Heat Pump Nat Gas Atmospheric Common vented w/ heat? Tank- High Effic. On demand Electric Power vented at unit No Yes Tankless Indirect Oil Power vented at ext. Will Be Orphaned?	calcula	tions				ı un	- 1 001				ter
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Tank- High Effic. On demand Indirect Selectric On Jankless On Indirect Power vented at unit On On Ondemand On Ondemand On Ondemand On Ondemand On Ondemand O		☐ Tank- standard ☐ F	leat Pump		☐ Nat Gas		☐ Atmospheric				
Tankless back-up			•			gu	☐ Power vente	d at unit	<u> </u>		
Tankless back-up Propane Sealed combustion No Yes (CAZ limit = -2.0)	ъ	•		ıel		enti					- ME
	Ty			Fu		V				•	

Tank-standard= atmospheric draft or electric >5 years old.

Tank-high effic. = gas power vented, sealed combustion, or elec < 5 years old

Tankless and Tankless back-up= a coil for DHW located within a boiler

Heatpump = a standalone heatpump tank- not desuperheaters

<u>On-Demand</u>= a instantaneous tankless system

Indirect = a storage tank with a coil inside as a zone off the boiler

<u>Common vented w/heat</u>?= Is the existing DHW common vented into same chimney

Will be Orphaned?= Auditor should predict ahead as to what conditions will exist at time of test-out to avoid issues

□ N/A- PVC Vent	Spillage (<1 minute)	CO (5 minutes) Undiluted	Draft (5 minutes) In Vent		
Worst Case (Fans On)	□Pass □Fail requires repair	ppm □Pass □Fail req repair	pa □Pass □Fail req repair		
Natural (if fails worst-case)	□Pass □Fail requires repair	ppm □Pass □Fail req repair	pa □Pass □Fail req repair		
BPI Requires repeat any test that failed in Worst-Case (WC) in Natural. IF fails under WC and passes natural- the WC pressure is case of failure, if fails Natural- then vent connector/chimney is cause	Any flue gas spillage must stop before 1-minute of run time	Fill in the ppm measured, measurement should be taken at steady state, typically after 5-minutes of run time	Fill in measured draft pressure in Pascals. Compare result to "Minimum draft at Outdoor Temp" listed above		

Note: You must record the CO ppm and draft pa pressure.

If any of the test results above do not PASS BPI standards, repairs must be included in the Work Scope or the homeowner must have repairs completed <u>prior</u> to any installations of measures. Confirm any repairs by homeowner have actually resolved issue <u>before</u> proceeding with work. Passing under Natural conditions does not negate a Failed Worst-Case test, any fail must be appropriately addressed.

Heating System #1:

Lo	cation	% Loa	I % Space	Btu (output)	Make/ B	rand	Model #		≅ Age/ Year		
	ely descriptive-does affect calculations	-	systems – if three etc.		nput if ut not					Ask the homeowner or estimate based on condition.	ooling	
	☐ Furnace ☐ Wa		□ Nat Ga	=		~71%) ensing (90%)	, , ,		ng	☐ Atmospheric☐ Sealed combustion☐	0/	
Туре	☐ Elect Resist	lisso	□ Propan	ě	ا ق		Powe	er Combustion in RHA)	entii	☐ Induced Draft- (use	Heating	
1		Ŗ,		3 <1974 L	ow speed	(1725rpm)	□ >1974 H	igh speed (3450rpm)	γ	Power vented at unit)	Ĭ	
PVC	Use as guidelines for (%) AFUE: <1988 = ~71%, 1988 – 1991= ~74%, 1992 to present non-PVC vented = 80%, PVC vent= 90%											
For	Oil systems: <1974	E Low sp	eed burnei	; >197	'4 = High	speed						

Combustion Testing: Turn Heater On: (Turn up t-stat +10 degrees)

	1 7				
□ N/A- Power/ Sealed Vent	Spillage (<1 minute)	CO ppm (5 minutes) Undiluted	Draft pa (5 minutes) In Vent		
Worst Case (Fans On)	□Pass □Fail requires repair	ppm □Pass □Fail requires repair	pa □Pass □Fail requires repair		
Natural (if fails worst-case)	□Pass □Fail requires repair	ppm □Pass □Fail requires repair	pa □Pass □Fail requires repair		

Heating Distribution System:

Columns for supply/ return MUST total 100%

Туре	Hydronic	OR-	Air / Ducts -	% of To	otal DUCT System	is Located in Follow	wing areas	% Supply	% Return	R-value	
	☐ Baseboa	ard	☐Regular Velocity	Œ	Attic	□ Poorly vented	☐ Well vented			R-	ts
	☐ Radiato	r	☐ High velocity	OUTSIDE	Vented Crawlspace	☐ Crawlspace Ceil	ing Insulated			R-	. Duc
	☐ Steam _	_ pipe	(3" ducts) ECM Motor	DUCTS C	Enclosed crawlspace	□ Crawlspace Ceil□ Crawlspace Wal				R-	oling
	☐ Radiant		☐ Gravity	na	Garage					R-	ပ္ပိ
				DU	DUCTS INSIDE Conditioned Space- Basement					N/A	ating
For Rh	HA- The Pri	mary ur	conditioned duct loca	ation = th	ne Ducts Outsid	e line with the large	est % in the supp	y and return o	columns.		Heatir
Duct L	eak to Out	side	☐ Software D	refaults (25% of system airflow)				er Result (Attach Testing results)			

Hydronic Distribution System: only need to indicate type,

Water based systems: indicate "baseboard" or "radiator" or "radiant",

<u>Steam</u> based systems: indicate whether "1 or 2 pipe". Look at radiators, do they have a supply and return pipe? If Yes this is 2-pipe, if no, this is 1-pipe. Two pipe systems should be upgraded to water system for increased distribution system efficiency.

Air/ Ducts: Indicate type of system. Also need to indicate Locations; in the Supply and Return columns enter in the approx % of the total system that is located in the listed areas. For RHA, select the line from the "Ducts Outside" column that has the highest percentage for each column and enter as the "Primary Unconditioned Duct Location" in RHA. If 100% of ducts are in "Ducts Inside", enter as "No ducts in unconditioned spaces "in RHA.

Cooling System #1:

Туре:	☐ Central A	VC 🗆	Heat Pump	☐ Mini-Spl	it ductless	☐ None		
Location of Ir	ndoor coil	% Load	% Space	Capacity	Make/ Brand	Outdoor Model #	≅ Age/ Year	
							Ask the	
Purely descri	ptive-has	If two sys	stems –				homeowner	_
no impact of		50%, if th	ree 33%,	See below			or estimate	000
calculations		etc					based on	_
							condition	포

The energy use associated with Window unit use cannot be easily modeled and should not be entered into RHA.

Capacity is located in the Model number of the outdoor section, within the model number, typically near the middle of the number will be 18, 24, 30, 36, 42, 48 or 60. This is the nominal capacity in 1,000 btuh

Cooling Duct System:

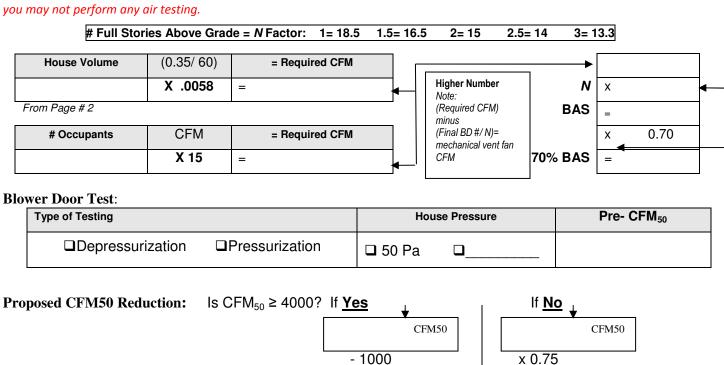
Shared with Heat System - No Yes-Skip this section Columns for supply/ return MUST total 100%									<u>0%</u>
Type Air / Ducts -		% of To	otal DUCT System	is Located in Follow	wing areas	% Supply	% Return	R-value	
□Regular Velocity		Σ	Attic	☐ Poorly vented	☐ Well vented			R-	cts
☐ High velocity		OUTSIDE	Vented Crawlspace	☐ Crawlspace Ceil	· ·			R-	. Duci
(3" ducts) ☐ ECM Motor		'n	Enclosed crawlspace	□ Crawlspace Ceil□ Crawlspace Wall				R-	oling
☐ Gravity		DUCT	Garage					R-	g/Coc
		DU	JCTS INSIDE	Conditioned Space	e- Basement			N/A	atin
For RHA– The Primary unconditioned duct location = the Ducts Outside line with the largest % in the supply and return columns.									
Duct Leak to Outside	☐ Software De	faults (25% of system a	irflow)	□ Duct Blaster	er Result (Attach Testing results)			

If the cooling distribution system is shared with the heating system, you do not need to fill this in, otherwise fill in the same manner as the heating system

Air Leakage- House Preparation for Blower Door Testing: (Confirm that the following items have been addressed) (Note: This list may not be all-inclusive, check all areas of the home prior to blower door testing)

□	FIREPLACE/ WOODSTOVE ASH COVERED		NO LOOSE DRYWALL/ PLASTER		NO VERMICULITE INSULATION
┚	WATER HEATER TURNED TO PILOT		SUSPENDED CEILING TILE DISPLACED		NO LOOSE ASBESTOS LIKE MATERIALS
□	T-STAT SET TO "OFF"/ FAN TO "AUTO"		INTERIOR DOORS OPEN		PETS SECURED
┚	EXHAUST FANS TURNED OFF	┚	CLOTHES DRYER TURNED OFF	┚	NO LOOSE SOOT PRESENT IN FLUES

The above checklist is a reminder to check these areas before setting up the blower door. If the home has vermiculite insulation, you may not perform any air testing.



Increase the number of units / hours in the software until the proposed CFM50 is achieved

CFM50

CFM50

Note: Maximum Proposed reduction for credit toward TES is 1000 CFM50. If the proposed Air Flow < Bas, you must recommend mechanical ventilation, if < 70% BAS you must propose and install mechanical ventilation as part of or before proceeding with any additional measures. This is the BPI standard for minimum air flow, if the Proposed Air Flow is below BAS you must "Recommend installation of mechanical ventilation", if below the 70% BAS you must include the installation of mechanical ventilation in the Work Scope

In RHA, increase Air Sealing Units until Proposed under Air Flows is ≈ to above Proposed Air Flow result

Proposed Air Flow

Notes:			

Insulation/ Air Sealing:

(Must record details for minimum 1-Attic/ Ceiling, 1-Above Grade Wall, and 1-Foundation for Building Model)

Insulation Types:			Quality	Voids In Software		
N = None	ICY = Icynene	CE = Cellulose	Good = No Gaps or Compression	None		
FG = Fiberglass Batt	RF = Rigid Foam Board	P = Spray polyurethane	<u>F</u> air = $> 2 \frac{1}{2}$ % to 5 % of area has no insulation	~0.25"		
BFG = Blown FG	CR = Cross Batt	R= Rock/ Mineral wool	Poor = not enclosed in walls	~0.50"		

Attic Venting Rate:

Code = 1 sq ft net free area of vent for each 300 sq ft of attic floor- (Gross vent area / 2 ≈net free area)

Attic Floor sq ft / 300 = x 144 =(A) Minimum REQUIRED square inches net free vent area
Existing square feet of gross vent area= x 72 =(B) Estimated square inches net free vent area
(A) = required net free vent area square inches

Attics/ Ceilings: Flats/ Slopes/ Kneewall

Location	Framing	Area Sq. Ft.	Ins. Type	Thickness	Quality	R- Value	
Purely descriptive-has no impact of calculations	2 x @ O.C. Typical framing dimensions, most framing is 2-inches thick, by X-inches wide and are typically spaced at 16 or 24	The area in square feet	See table above	Actual measure d typical minimum thickness of insulation	G F See table above	Rated R-	Ins Attic / Roof

Insulated kneewalls are considered to be "poor" quality if the insulation is not enclosed on all six sides. BPI requires any insulation that is installed in walls to be enclosed on all six sides

✓ = NEEDS WORK

SEAL TOPPLATES TO DRYWALL	TIN & FIRE CAULK AT FLUE/ CHIMNEY CHASE				
SEAL TOPPLATE PENETRATIONS	INSULATE AND SEAL ACCESS	□PANEL □STAIR			
DRAFTBLOCK AT CHASES/ SOFFITS/ DROPS	FIRE BOX RECESSED LIGHTS (DRYWALL, METAL)				
DUCT EXHAUST FANS TO OUTSIDE	FIRE BLOCK GAP AT FIRE WALLS (REQUIRES CODE APPROVAL)				

The above check boxes can be used to define a Work Scope and a material list.

Firebox recessed lights= Install an airtight box over the light fixture constructed of non-combustible materials (no foam). Fire rated walls between attached units should be sealed with fireproof materials (No foam).

Above Grade Walls: Siding Type: Insulatio										ition		
	Location			Framing		NET Area Sq. Ft.	Ins. Type	Thickness	Quality	R- Value	0	Ī
	Exterior		2 x	@	O.C.			ln.	F	R-		d

Framed Floors: Insulation										
	Location		Framin	g	Area Sq. Ft.	Ins. Type	Thickness	R- Value		
	Over Garage (Buffered)	2 x	@	O.C.			ln.	R-	/ uo	
	Over Crawlspace (Buffered)	2 x	@	O.C.			ln.	R-	ındatic	
	Band Joists (Buffered)	2 x	@	O.C.			ln.	R	Fou	

[&]quot;Buffered?" is the wall a buffered wall? Buffered walls are walls between heated spaces and unheated unvented enclosed spaces (such as garages and some sunrooms).

Foundation Walls & Slabs:										
	Location/ Type	Length- Linear Feet	Area- Square Feet	Ins. Type	Thickness	R- Value	u			
	Basement Walls (Buffered)				ln.	R-	ndatic			
	Crawlspace Walls (Buffered)				ln.	R-	Ins-			

Basements are considered to be conditioned spaces and are typically inside the pressure boundary of the home, therefore homes with walk-out steps leading to bilco doors should have an exterior grade door framed out and installed at the basement wall. All dirt floors in crawl-spaces should have 6-mil plastic installed as a vapor barrier