

HVAC CERTIFIED LOAD CALCULATIONS

Version 2022-05-01

NOTE: This form is to be used by licensed mechanical contractors, architects or engineers registered in Virginia. This form is only to be used on residential, one and two family dwelling units. If there is more than one zone per dwelling unit, submit separate sheets for each. A copy with an original signature of these approved Certified HVAC load calculations is to remain on the job site for the inspector's reference. Failure to have a copy with an original signature on the job site may result in a rejected inspection. Homeowners performing calculations for their own home shall complete this form and submit it for review by PWC Plan Review.

IVILCI	ermit #		BLD Permit #			
1.	Owners Name:		House Type/Model:	House Type/Model:		
	Subdivision:		Total Area:	SF		
	Site Address:		Lot #:			
	Contractor:		Tele. #:			
	Designed under IRC	20 Code				
2.	Winter Design Conditions: Outside 0°F Inside 70°F	Total heat loss (calculated) = BTUH			
3.	Summer Design Conditions: Outside°FDB _	°FWB Ir	nside°FDB			
	Sensible Heat Gain (calculate Total Heat Gain (calculated) =					
4.	Equipment Data: A. Heating Input Output Type Fuel Type Flue	BTUH 	B. Cooling Coil Capacity Sensible Coil Capacity Total Type Equipment Model #			
		Static Pr	ntity CFM ress r Ton			
			Staff Use Only			



Owner	's Name:								
Site Ac	ldress:								
 All loads are calculated using Manual "J" or other approved methods. All unfinished areas are to be figured in load calculations. All ducts are to be designed, constructed and installed per International Residential Code All ductwork to be insulated to the current International Residential Code. Construction Data: (Use additional sheets as required). 									
ltem	Sq.Ft.		Construction Descri	ption	R-Value				
Exterio	or Wall			_					
Windo	WS			_					
Doors_		_		_					
Floors_		=		_					
Roof				_					
Perime	eter Insul	-		_					
Slab In	sul			_					
				_					
				_					

10. Air Distribution Data:

Room Name	Area-SF	CFM, Heat/Cool		Outlet	Branch Duct	Sensible Heatloss/Gain		Level*
		1						
		1						
		ļļ.						
		+ +						
		 						
		+						
		++						
		-						
		+ +						
		+						
		+						
		† †						
		† †						
		†						
		†						
Outdoor Air								
Totals								

*B = basement $1 = 1^{st}$ floor $2 = 2^{nd}$ floor

Development Services





Owner	's Name:			-			
Site Ad	dress:			_			
Air Dist	tribution Data (continued)						
Main D	ouct Sizes:						
Supply		Locatio	n				
Supply		Locatio	n				
Supply		Location	n				
Supply		Location	n				
Return		Location	n Grill				
Return		Location	n Grill	-			
Return		Location	n Grill	-			
Supply	Riser	Location	n				
Supply	Riser	Location	n				
Return	Riser	Location	n Grill	-			
Return Riser		Location	n Grill	-			
Outsid	e Air Duct	Location	n Size				
I certify	/ that all of the above information given w	vill meet all Virginia Ur	niform Statewide Building (ode Requirements			
_	:	_	_	oue riequi ements.			
_	cking this box, I agree to electronically signing this form.						
	Print/Type:						
	check and complete whichever of the foll						
	Master Mechanical Tradesman License # Virginia Registered Professional Enginee Virginia Registered Architect (stamp belo Homeowner	r (stamp below)					
Notes:	The County reserves the right to request a full HVAC heat loss, heat gain and energy envelope calculations and plans where they deem it necessary, as per the current Virginia Uniform Statewide Building code. Architect/Engineer Seal						
Heat Fa	actor = <u>(CFM Capacity of Equipment in He</u> (Total Heat Loss of the Ho	_	Architeco Engineer Sear				
Cooling	g Factor = <u>(CFM Capacity of Equipment in</u> (Total Sensible Heat Gain of t	_					
			Signature: Date: By checking this box, I agree to elect				