

## Heating Appliance Worksheets – Retrofit Building Department: 604-990-2480, <u>building@dnv.org</u>, fax: 604-984-9683

	·	partment and add neet – Square Foo		GAS					
Job Address				GAS					
Completed	by								
Phone					Quality First #				
Signature					Date				
CALCULATIO	NS								
Step 1	Calculate <b>[</b>	Owelling Heat Load	=						
			sq ft X		BTUH/sq ft	=		втин	Α
Step 2	If home has	s a heated crawlspa	ce, calculate	Crawlspace Heat Load =	<del></del>	_			
			sq ft X		BTUH/sq ft	=		втин	В
	(Total heated	d area of crawlspace)		(Crawlspace Heat Load Fac	tor)	<u>.</u>		<u></u>	
Step 3	Base Heat	Load @ 55 <b>ºF DTD</b>	1	(Box A + Box B = Box C)				втин	С
Step 4		Itiply Base Heat Load (Box C) by Regional Temperature Adjustment (RTA) ctor from Design Temperature Chart  X 0.96						D	
Step 5	Regionally Adjusted Base Heat Load (Box C x Box D = Box E)			x C x Box D = Box E)		=		BTUH	Ε
Step 6	Add thermo	ostat <b>Setback Pick-</b>	up factor of	10%		L			
	0.10 x			BTUH in Box E		= [		втин	F
Step 7	If dwelling	heated with hot-wate	er appliance,	– skip Step 8; proceed to St	ер 9.	L			
Step 8		oad due to outdoor a duct and directly o	-	for combustion (B149.1 & R.A. Plenum	.2)				
	Ad	ld 3000 BTUH times	TRA factor (	Box D) = 3000 BTUH x _		=		втин	G
Step 9	Add Box E		IH for ∆nnlia	nce Selection		_		втин	Н
		. 3.4. 210				Ĺ		 Page 1 (	of 2

Document Number: 4067612

**REV 11/22** Document: 4067612



## Heating Appliance Worksheets – Retrofit Building Department: 604-990-2480, <u>building@dnv.org</u>, fax: 604-984-9683

Heating	Appliance Sele	ction Worl	sheet –	Forced A	ir Heating	System	GAS						
CALCULAT	TIONS												
				Total	Heated Flo	oor of Dwe	elling	=				Sq f	t
Step 1	(Box 4 – Heat Lo	ss Summary	Workshe	et)			=	:			втин		Α
Step 2	Use manufacture BTUH output of a										_		
	Make						Input	=			BTUH	В	
	Model						Output	=			BTUH	С	
	High A	Altitude			Т	wo-stage	furnace-siz	e to High	-0Fire I	nput and	Output		
Step 3	Selected Applian	ce Air Circul	ation (CFI	M):									
	Duct static Pressure @ .3" W.C. External Static Pressure (ESP)												D
	Add ESP (inches W.C.) per manufacturer's data for installed Cooling Coil =												Е
	Add ESP (inches	W.C.) per m	nanufactur	er's data fo	r installed H	High Efficie	ency Air Filt	er	=				F
	Total System ES	, .				J	,		_				G
			00X E + D(	,					-				
	Motor Speed Sel			@		ESP (B	ox G) = He	ating CFI	М				Н
Step 4	Temperature Rise Furnace OUTPUT = (Box C)			BTUH CFM x 1.1			=			F	ı		
•	HEATING CFM X 1.1 (Box H)					CFI	VI X 1.1			MPERATI	IDE DISE	_	
	Temperature Rise Range from Manufacturer's Technical Specifications								=	WIPERATO	JKE KISE	=	
	(Box 1) MUST fa	ll within this	range										
Step 5	Duct System Designed for Cooling:					CFM					CF	M	J
Olop 0	Back Gyotom Box	orgriou for Oc	,og			0			CO	OLING C			Ü
COOLING CAPACITY @ 400 CFM/TON		Tons	1.5	2.0	2.5	3.0	4.00	5.00	$\neg$	OLINO O			
		CFM	600	800	1000	1200	1600	2000					
Step 6	Retro-Fit Installa	tion (Attach v	vorksheet	s if required	by Inspec	tion Author	rity)	•			CF	-N/I	K
oreh o	Estimated Capacity of existing duct system											IVI	IX
									RF	TRO-FIT	CFM		

Page 2 of 2

Document Number: 4067612

**REV 11/22** Document: 4067612