

## Clark County Department Of Building SFR, Main Electrical Service/Sub Panel Calculation Worksheet

VA (a)	
VA (b)	
VA (c)	
VA (d)	
VA =VA (1)	
VA	
VA	
VA	
VA	
(4 or more appliances, a demand factor of 75% may be u	used)
=VA (3)	
VA VA VA VA = VA (4)	
(may be reduced per Table 220.55)	
VA	
@ 100% = VA (5)	
=VA (6)	
VA = VA(7)	
VAVA (6)	
otal: Add line (1) through (8) = VA (9)	
0	
	VA (b) $VA (c)$ $VA (d)$ $VA$ $VA$ $VA$ $VA$ $VA$ $VA$ $VA$ $VA$



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3. Dryer       from line 3 =         4. Cooking Equipment       from line f =         Sub Total: $(d+e+3+f) =$ []         First 10,000 VA @ 100%       []         Remaining       VA @ 40%       []         5. Heating or A/C       line 5 =       []         7. Other Loads:       from line 7 =       [k]	Optional calculation: Artic	le 220.82 NEC:		
2. Fixed Appliancesfrom line $e =$ 3. Dryerfrom line $3 =$ 4. Cooking Equipmentfrom line $f =$ Sub Total: $(d+e+3+f) =$ First 10,000 VA @ 100%(g)RemainingVA @ 40%5. Heating or A/Cline $5 =$ 7. Other Loads:from line $7 =$ Add 20 Amps at 240 voltsline $8 =$ Total: $(g+h+i+J+k) =$ VA 10)Calculated Load for Service = Line (10)/240	1. General Load [220.82(B)(1-4)	from line d =		
4. Cooking Equipment from line f = Sub Total: $(d+e+3+f) = First 10,000 VA @ 100% (g) Remaining VA @ 40% (h) 5. Heating or A/C line 5 =(i) 7. Other Loads: from line 7 =(k) Add 20 Amps at 240 volts line 8 =(j) [SFR Only Total: (g+h+i+J+k) =VA 10)Calculated Load for Service = Line (10)/240$	2. Fixed Appliances			
Sub Total: $(d+e+3+f) =$ First 10,000 VA @ 100%(g)RemainingVA @ 40%KemainingVA @ 40%VA @ 40%(h)5. Heating or A/Cline 5 =Ine 5 =(i)7. Other Loads:from line 7 =Add 20 Amps at 240 voltsline 8 =Ine 8 =(j)If the service of the servi	3. Dryer	from line 3 =		
First 10,000 VA @ 100%       (g)         Remaining       VA @ 40%       (h)         5. Heating or A/C       line 5 = (i)         7. Other Loads:       from line 7 = (k)         Add 20 Amps at 240 volts       line 8 = (j)         Image: Total:       (g+h+i+J+k) = VA 10)         Calculated Load for Service = Line (10)/240	4. Cooking Equipment	from line f =		
Remaining       VA @ 40%       (h)         5. Heating or A/C       line 5 =	_	Sub Total: (d+e+3+f) =		
Remaining       VA @ 40%       (h)         5. Heating or A/C       line 5 =       (i)         7. Other Loads:       from line 7 =       (k)         Add 20 Amps at 240 volts       line 8 =       (j)       [SFR Only         Total: (g+h+i+J+k) =         VA 10)         Calculated Load for Service = Line (10)/240	First 10,000 VA @ 1	00%	(g)	
5. Heating or A/C       line 5 =	Remaining	VA @ 40%		
Add 20 Amps at 240 voltsline 8 =(j)[SFR OnlyTotal: $(g+h+i+J+k) =VA 10)$ Calculated Load for Service = Line (10)/240	5. Heating or A/C		(i)	
Add 20 Amps at 240 volts       line 8 =(j)       [SFR Only         Total: (g+h+i+J+k) =VA 10)         Calculated Load for Service = Line (10)/240	7. Other Loads:	from line 7 =	(k)	
Calculated Load for Service = Line (10)/240	Add 20 Amps at 240 volts	line 8 =	(j)	[SFR Only]
		<b>Total:</b> (g+h+i+J+k) =	VA 10)	
= Amps	Calculate	ed Load for Service = <u>Line (10</u>	0)/240	
		=		Amps

This worksheet is provided for 2017 NEC educational purposes - contractor is responsible for final adjustments EFAGC 05.09