

Tankless Water Heater Calculation Worksheet

Permit Number				Date				
Project Address								
			Secti	on A				
Equipment Information								
Manufacturer Na	ame							
Model Nun	<u>.</u>						_	
	ype Electri	c Voltage)		Gas D	latural [] LPG	
Output Flow (per u	nit)	Gallons p	er minut	e @ 40° te	emperature rise(b)(c)			
				lled) = Total System G.P.M. ^(a)				
(a) Must equal or exceed total WSFU @ peak demand calculated in Section C Notes Section A (b) Calculate using 70° Supply temperature (c) 100° minimum/140° maximum Outlet temperature (d) Effective Codes/Chapters FBC-Plumbing chapter #6 and FBC Residential 2, 3, 29								
	Section B				Section C			
Total Number of Fixtures Connected to Hot Water				WSFU Demand Calculations				
Note – This information is collected to detail the total size of the hot water system to be served by the tankless unit(s). This list does not affect the peak demand calculation in Section C.				Hot water demand sizing in the FBC is by Water Supply Fixture Units (WSFU). Rating for output on tankless water heaters is by Gallons Per Minute (GPM). The tankless unit installed must supply the peak demand identified in this section. Enter only those fixtures determined to be peak demand.				
	Fixture Type	1	otal	Number ^(a)	Туре	Hot Load ^(b)	WSFU Total	
	Е	Bathtub			Full Bathroom Group	1.5		
Bidet					Half Bath Group ^(c)	0.5		
Clothes Washer					Kitchen Group ^(c)	1.9		
Dishwasher					Laundry Group ^(c)	1.8		
Kitchen Sink					Bathtub	1.0		
Laundry Sink					Bidet	1.5		
Lavatory(bath sink)					Clothes Washer	1.0		
Shower (multiple body spray/Heads)					Dishwasher	1.4		
Shower (single shower head)					Kitchen Sink	1.0		
Other List Below					Laundry Sink	1.0		
					Lavatory (bath sink)	0.5		
					Shower (Multiple/ Per head/spray)	1.0		
					Shower (single shower head)	1.0		
					Other List below ^(d)			
	Section D							
Total GPM Required based on WSFU @ Peak Demand Locate Total WSFU @ peak demand from Section C on this chart and the GPM shown must equal or exceed Total System GPM in Section A.								
1 WSFU = 3 GPM	6 WSFU = 10.7 GPM	11 WSFU = 15.	4 GPM		Total WSFU @ Peak	Demand		
2 WSFU = 5 GPM	7 WSFU = 11.8 GPM	TU = 11.8 GPM		(a) Enter only those fixtures that will use hot water at peak				
3 WSFU = 6.5 GPM	8 WSFU = 12.8 GPM	FU = 12.8 GPM			Notes Section C (b) Per FBC-Plumbing E103.3(2) and/or FBC-Residential P2903.6 (c) Residential calculations Only (d) Use proper table for additional fixtures.			
4 WSFU = 8 GPM	9 WSFU = 13.7 GPM	FU = 13.7 GPM 14 WSFU = 17 GPM						
5 WSFU = 9.4 GPM	10 WSFU = 14.6 GPM	FU = 14.6 GPM						
Worksheet Prepared by: Design Professional Contractor Homeowner Print Name Signature								