

Residential Electric

KW INPUT AVAILABILITY

Residential electric water heaters are shipped with the standard voltage and kW inputs shown unless otherwise specified when ordering. This table below shows available inputs (in kW) for residential electric water heaters.

Models & elements	Voltage	Wiring	kW Input Available												
6-Gallon Models Single- Element	120V	-		1.5	1.65	2	2.5	*3							
	208V	-	1	1.5		2	2.5	*3							
	240V	-	*1	1.5		2	2.5	3							
	277V	-		*1.5		2	2.5	*3							
	480V	-				2	2.5	*3							
10-Gallon through 20-Gallon Models Single- Element	120V	-		1.5	1.65	2	2.5	3							
	208V	-	1	1.5		2	2.5	3	3.5	3.8	4	4.5	*5	5.5	
	240V	-	*1	1.5		2	2.5	3	3.5	3.8	*4	4.5	5	5.5	6
	277V	-		1.5		2	2.5	3			4	4.5	*5		*6
	480V	-				2	2.5	3			*4	4.5	*5	*5.5	*6
30-Gallon through 55-Gallon Models Double- Element	120V	Interlock		1.5	1.65	2	2.5	3							
		Simultaneous		3	3.3	4	5								
	208V	Interlock	1	1.5		2	2.5	3	3.5	3.8	4	4.5	**5	5.5	
		Simultaneous	2	3		4	5	6	7	7.6	8	9	**10		
	240V	Interlock	*1	1.5		2	2.5	3	3.5	3.8	**4	4.5	5	5.5	6
		Simultaneous	*2	3		4	5	6	7	7.6	**8	9	10	11	
	277V*	Interlock		1.5		2	2.5	3			4	4.5	**5		**6
		Simultaneous		3		4	5	6			8	9	**10		**12
	480V	Interlock				2	2.5	3			**4	4.5	**5	**5.5	**6
		Simultaneous				4	5	6			**8	9	**10	**11	**12

^{*} Ahead of wattage indicates, Not Available with Incoloy elements (copper elements only)

Circuit Types

C2 Circuit – 2 wire lead, single element models only

A6 Circuit – 2 wire lead, double element models, single phase interlocking

A9 Circuit – 3 wire lead double element models, 3-phase unbalanced or off peak (can be wired single phase) – not available 120v or 277v

P4 Circuit – 4 wire double element models simultaneous operation (can be wired 3-phase simultaneous or single phase simultaneous)

Caution should be taken when ordering P4 Circuit (simultaneous operation) to ensure breaker amperage is sufficient for increased amp pull.

Note: - Circuit types listed above DO NOT APPLY TO ELECTRONIC THERMOSTAT MODELS and these models are only available with 240v 4500w or 240v 5500.

- Heat Pump and Solar Booster models are excluded from this table.

^{**} Ahead of wattage indicates 30-gallon mobile home and 30 & 40 gallon tall models, Not Available with Incoloy elements

RESIDENTIAL ELEMENT (kW) RECOVERY TABLE

Residential Electric Recovery Table												
Element kW	GPH Temperature Rise °F											
Element KVV	50	60	80	90	100	120	140					
1	8.2	6.8	5.1	4.6	4.1	3.4	2.9					
1.5	12.3	10.3	7.7	6.8	6.2	5.1	4.4					
1.65	13.5	11.3	8.5	7.5	6.8	5.6	4.8					
2	16.4	13.7	10.3	9.1	8.2	6.8	5.9					
2.5	20.5	17.1	12.8	11.4	10.3	8.5	7.3					
3	24.6	20.5	15.4	13.7	12.3	10.3	8.8					
3.5	28.7	23.9	17.9	15.9	14.4	12.0	10.3					
3.8	31.2	26.0	19.5	17.3	15.6	13.0	11.1					
4	32.8	27.3	20.5	18.2	16.4	13.7	11.7					
4.5	36.9	30.8	23.1	20.5	18.5	15.4	13.2					
5	41.0	34.2	25.6	22.8	20.5	17.1	14.6					
5.5	45.1	37.6	28.2	25.1	22.6	18.8	16.1					
6	49.2	41.0	30.8	27.3	24.6	20.5	17.6					
Note: Simultaneous operation doubles recovery												

