

Electric Cooking



The LED “flame” of a Samsung induction stove (at left) is an example of how intuitive it can be to transition to cleaner, faster and safer all-electric cooking. Gas stoves cause unhealthy levels of Nitrous Oxides that would be illegal if it were from a gas power plant—after just twenty minutes of cooking and a sunny window, a kitchen can have actual smog and trigger asthma and lung ailments. Gas

cooking appliances are 25-40% efficient, while electric cooking appliances are 70-95% efficient, meaning electric kitchens use 1/3rd as much energy and require only 1/3rd as much venting. Using electric appliances avoids the construction costs and costs to run extra gas venting equipment. In addition to being more efficient, electric cooking appliances are faster, provide more temperature control and cause less kitchen fires than gas stoves. Multifamily housing comes in all sizes and layouts, as do the commercial kitchens found in mixed-use apartment buildings. Below are products that facilitate both retrofits and new construction with high performance cooking equipment. Countertop products do not require any installation retrofits and plug into a standard wall outlet. Drop-in cooktops, on the other hand, are installed into a cut-out of the countertop and hard-wired to a 120V or 240V outlet. Electric cooking comes in a variety of technologies, standard electric, glass top radiant electric, and induction.

Glass Top Radiant Range (Less than \$550)

Make/Model	Amana AER6303MFS	Whirlpool WFE320M0ES	Frigidaire FFEF3052TS	GE Appliances JBS60DKBB
				
Wattage	1,800	3,000	100-3,000	3,100
Price	\$450	\$500	\$500	\$510
Oven space (cu. ft)	4.8	4.8	4.9	5.3

Glass Top Radiant Range (Greater than \$500) (9600W, 240V using a 40amp circuit)

Make/Model	Kenmore 92612	Frigidaire Gallery FGIF3036TF	Samsung NE58K9560WS	LG LSSE3026ST	Bosch 800 Series
					
Price	\$700	\$ 1,075	\$1,400	\$1700	\$2500

Slide-In Induction Range (9600W, 240V using a 40amp circuit)

Make/Model	Frigidaire Gallery FGIS3065PF	LG LSE4617ST	GE Profile PHS930SLSS	Café CHS985SELSS	Samsung NE58K9560WS
					
Price	\$2,760	\$3,000	\$2,440	\$3,420	\$2240

Single Burner Countertop Induction (1800W, 120V and using a 15amp circuit)

Make/ Model	Avantco ICBTM-20 Light Duty	Avantco IC1800 Heavy Duty	Eurodib C1823	NuWave PIC Platinum	Vollrath Mirage Cadet 59300
					
Price	\$50	\$120	\$160	\$200	\$270
Temp. Range	140°F - 460°F	140°F - 460°F	150°F - 450°F	100°F-575°F	100°F - 400°F

Single Burner Drop-In Induction (1800W, 120V and using a 15amp circuit)

Make/Model	True Induction TI-1B	Avantco DC1800	Adcraft IND-DR120V	Spring SM-651R	Bon Chef 12083
					
Price	\$140	\$170	\$190	\$440	\$500
Temp. Range	150°F-450°F	140°F-464°F	Up to 464°F	145°F-185F°	150°F-450°F

Double Burner Countertop Induction (1800W, 120V and using a 15amp circuit)

Make/Model	Eurodib S2F1	Cuisinart ICT-60	Inducto	Avantco IC18DB	NuWave PIC Double
					
Price	\$200	\$200	\$150	\$150	\$200
Temp. Range	150-450 F	140F-460F	176° F-460° F	140-460 F	100 – 575 F

Multi Burner Induction Stovetops (9600W, 240V using a 40amp circuit)

Make/Model	Empava IDC-36 36"	KitchenAid KCES556 HSS 36"	Bosch NETP068SUC 30"	Samsung NZ36K7880UG 36"	Frigidaire FPIC3677RF 36"
					
Price	\$900	\$1,300	\$1,300	\$2,300	\$2,500