

## Housing Options

The heater's case or housing can be manufactured using aluminized steel or stainless steel. Additionally, in some cases the heater can be supplied without a case.

Aluminized steel is the most commonly used case material. It can achieve very high temperatures — namely 1200°F (649°C) — without flaking, discoloring, or degrading; this assures that the heater's case will outlive the heater itself. The housing is typically riveted together. The rivets, along with slots in the heater case, permit controlled expansion and contraction during heat-up and cool-down processes. Some applications require the slots to be removed, which can be achieved for many engineering designs.

Stainless steel's advantages of enhanced cleanliness and a very polished appearance make it a good choice for food and semiconductor applications. Because the 304 grade of stainless steel will discolor at a lower temperature than aluminized steel, the 310 grade of stainless steel is often chosen for extremely high temperature applications. A stainless steel case is usually riveted together in the same manner as aluminized steel though there are some applications where the stainless case is welded and polished for superior cleanliness and cosmetic appeal. Additionally, those housings are usually supplied without expansion slots. This construction is typically implemented in our glass, koramic, and quartz face heaters.

The last option, called *board only*, is to have no case at all for the heater. This heater is usually an F-Series model without the housing, insulation, or pre-constructed panel design. Customers who have in-house sheet metal capability will sometimes choose to buy the heating element, fiber board, quartz fabric, and cement as a completed assembly. The remaining components of the panel fall under the customer's responsibility. This approach shifts much of the heater's construction and warranty issues toward the customer.

Standard Dimensions											
Width (mm)	Length (mm)					F Series	FBA Series	G Series	K Series	M Series	Q Series
	12"	18"	24"	30"	36"						
6" (152.4)	12" (304.8)	18" (457.2)	24" (609.6)	30" (762)	36" (914.4)	X	X	X	X	X	
6" (152.4)	42" (1066.8)	48" (1219.2)	54" (1371.6)	60" (1524)		X	X		X	X	
10" (254)	4" (101.6)	6" (152.4)	8" (203.2)	10" (254)							X
12" (304.8)	6" (152.4)	10" (254)	12" (304.8)								X
12" (304.8)	12" (304.8)	18" (457.2)	24" (609.6)	30" (762)	36" (914.4)	X	X	X	X	X	
12" (304.8)	42" (1066.8)	48" (1219.2)	54" (1371.6)	60" (1524)		X	X		X	42" or 48"	
12" (304.8)	72" (1828.8)	84" (2133.6)				X	72" only				
16" (406.4)	16" (406.4)	24" (609.6)				X	X	X	X	X	
18" (457.2)	18" (457.2)					X	X	X	X	X	
24" (609.6)	24" (609.6)					X	X				