Getting Appliances to Fit

Careful planning from the start is the key to a functional, hassle-free kitchen

BY DAVID GETTS

few years ago, I got a call from a customer who wanted me to know that the electronics in her wall oven had burned out. I had installed the appliance only a year earlier, just long enough for the warranty to run out, and the news from the repairman who soon visited the house wasn't much better. He suggested they call me because the problem was my fault. According to the company, I had failed to drill vent holes in the oven cabinet to prevent overheating. As soon as the customers

started the self-cleaning cycle, the delicate circuitry was, well, toast.

1 knew I had saved the installation instructions, and when I went back to check them, I found nothing about adding ventilation to the cabinet. Not a word. Shown their own installation specs, the manufacturer agreed to cover the cost of repair as well as my time for modifying the oven cabinet. If the experience proved anything, it's that even following the manufacturer's instructions to the letter is no guarantee that an appliance in-

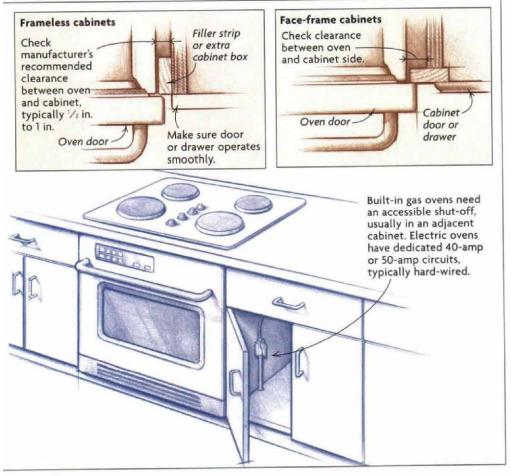
stallation will go smoothly. But it sure improves your odds.

These days, I insist clients choose their appliances before kitchen-design work starts. I make sure I have the most recent installation guides from the manufacturer (or I check www.dexpress.com for current dimensions). Rememberingthehard-learnedtrickspresented here doesn't hurt, either.

David Getts is a cabinetmaker in Bothell, WA. Drawings by Bob La Pointe.

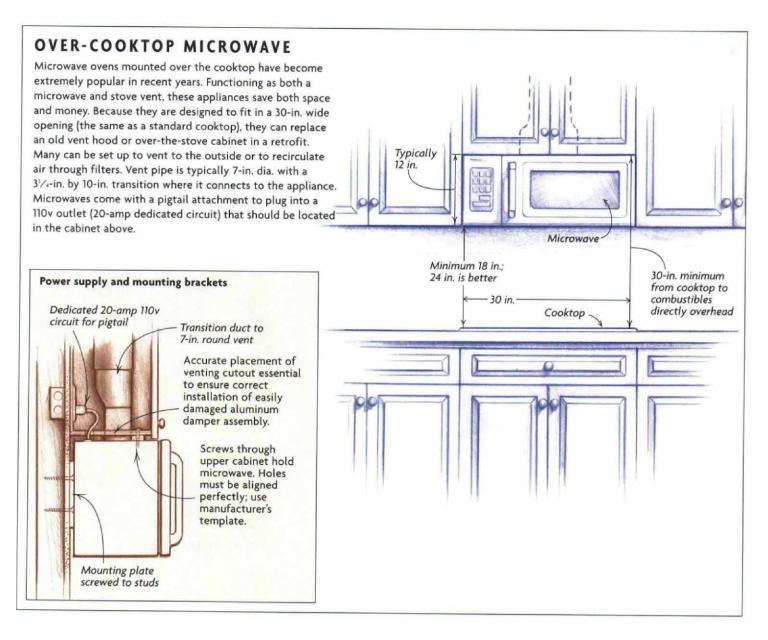
UNDER-COUNTER BUILT-IN OVEN

Ovens generate a lot of heat (as I learned), so great care should be taken to follow the manufacturer's instructions on minimum clearances. Overheating can damage the oven or, worse, cause a fire. The distance between the side of the oven and cabinet is critical. In a frameless cabinet, an extra cabinet side or a filler strip may be needed to keep the oven at least 1 in. away from Thermofoil doors, which can be damaged by high heat. Some cabinet manufacturers provide an extra cabinet box for the oven, which provides this extra clearance, or you can add your own to adjacent cabinet sides.

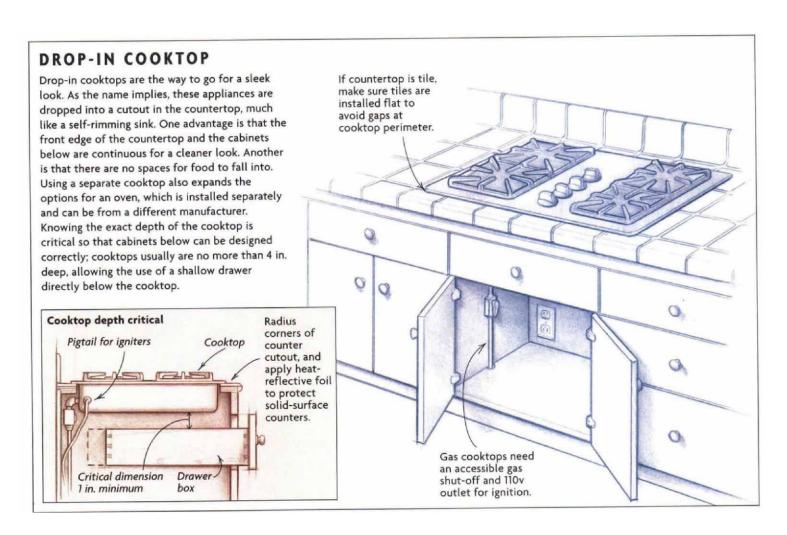


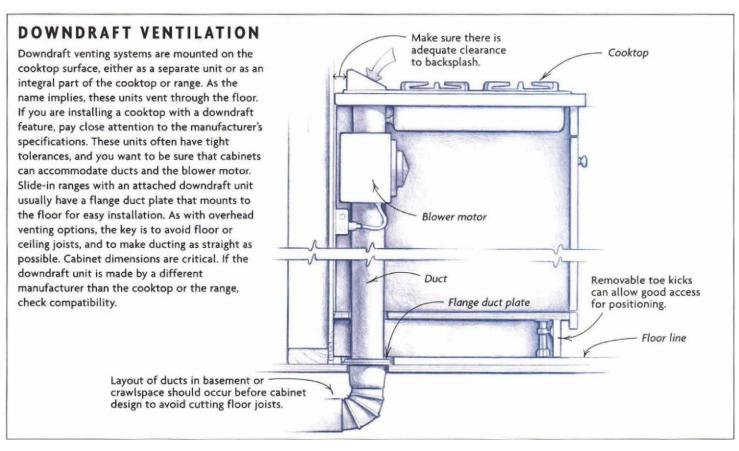
BUILT-IN MICROWAVE Although microwave ovens often are mounted over the Typically 12 in. cooktop where they double as a vent hood, they sometimes are installed in a cabinet. Because there is no ductwork, a built-in requires nothing more than a 110v outlet and a Cabinet properly sized cabinet. Remember to follow the manufacturer's cabinet-size requirements closely so that the 110v outlet trim kit, if there is one, fits accurately. The single most important consideration is installation height. In one installation I did, the owner insisted on a certain height above the countertop even though I thought it was too high. 2 in. They won the argument. Even with my 6-ft. frame, I couldn't see the inside bottom of the microwave standing on my toes. Both husband and wife were tall, but the location would make that microwave awkward for anyone else to use. Flange fits most effectively

when opening is prepared to manufacturer's specs.



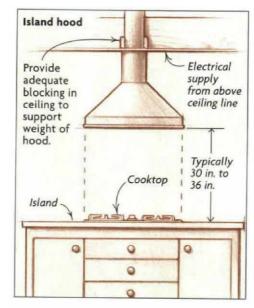
Microwave

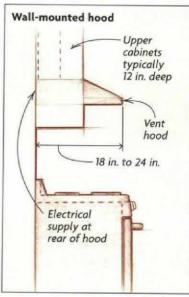


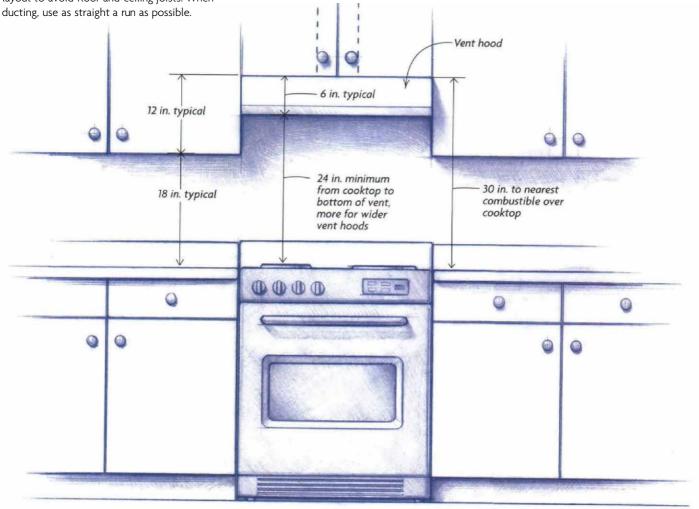


UPDRAFT VENTILATION

Updraft vents installed on a wall above the cooktop or stove—typically beneath an upper cabinet—are vented to the outside either through a sidewall or through the roof. They are relatively simple to install. These units are hard-wired from the back and vented through the top. Four screws attach the hood to the cabinet above. Upgraded versions enclose the hood in a wood, tile or stone shroud. Although an added shroud makes for a more difficult installation, the mechanics are the same. Wide hoods over the stove, those 24 in. deep, should be installed slightly higher than a standard hood—30 in. to 36 in. instead of 24 in. to 30 in. That's also the rule for commercial-style installations. The other type of updraft ventilation is a hood that hangs from the ceiling, usually over a kitchen island. My biggest concern here is to make sure the unit is securely fastened to the ceiling, so adequate blocking in the ceiling is essential. It also can be a challenge to locate the hood so that it will be centered over the island. Both types of vent systems require careful layout to avoid floor and ceiling joists. When

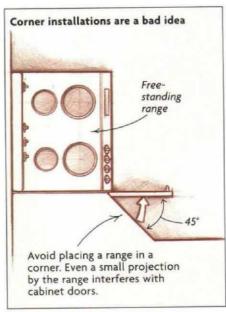


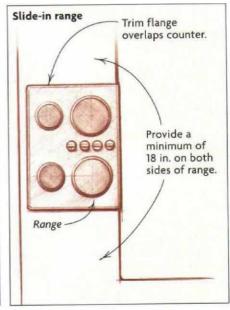


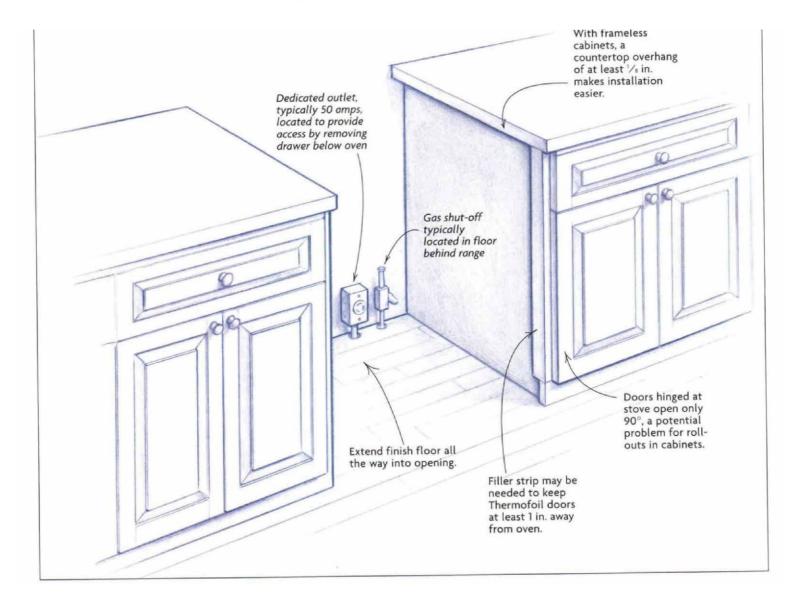


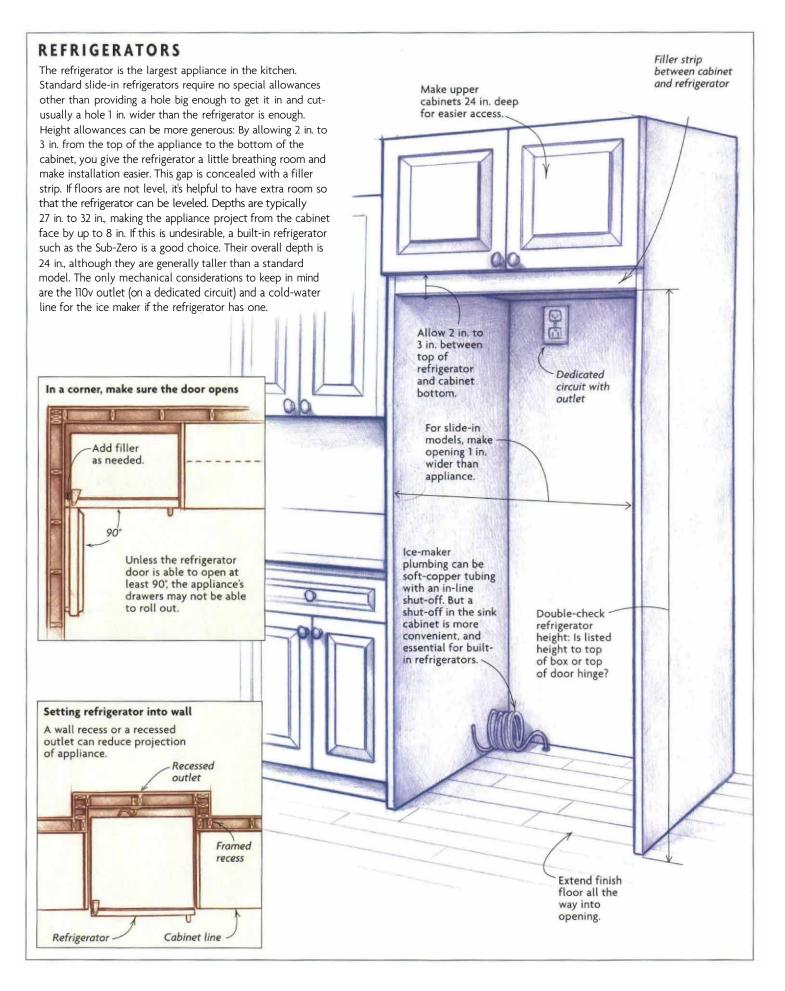
FREE-STANDING AND SLIDE-IN RANGES

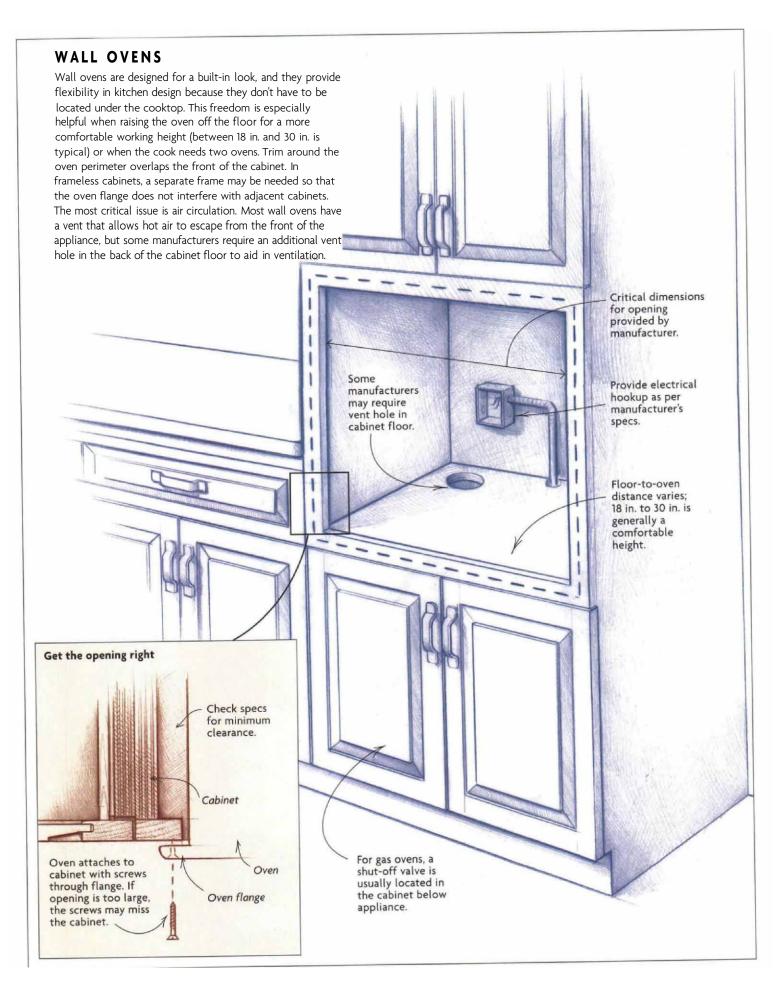
Free-standing and slide-in ranges are most common. Although installation is essentially the same, there are some differences worth noting. Free-standing appliances have two finished ends and are independent of the cabinets and countertop. A free-standing range stands slightly taller than the countertop, and there is a small gap between the appliance and the edge of the countertop. Slide-in ranges are similar in appearance except that the top has a trim flange that overlaps the countertop cutout. They appear built-in. Installation requires leveling the appliance until the trim flange comes in contact with the countertop surface. They both combine a cooktop with an oven in a single metal cabinet Most measure 30 in. wide (some are 27 in.) and require an opening of 30 in.











DISHWASHERS

For years, dishwasher openings were always 24 in. wide. Now that many dishwashers are imported from Europe, that's no longer the case. European models typically require a 235/8-in. opening. Another key consideration is the dishwasher's proximity to the kitchen sink. Most dishwashers are installed next to the sink cabinet (it should not be more than 5 ft. away) to allow for easy access to the plumbing. Hot water should have its own shut-off valve with 3/8-in. soft-copper or braided-steel line running to the appliance. Waste water is carried by a 5/8-in. flexible rubber or plastic hose to the sink waste line. A dedicated 110v circuit is required. Most jurisdictions in my area allow dishwashers to be hard-wired, but I know of one city nearby that requires an outlet and a pigtail. It's a good idea to check that point with the local building inspector. By the way, you can eliminate the sinkmounted air gap with a wall-mounted version called a Johnson T (Johnson Industries; 800-548-6895).

