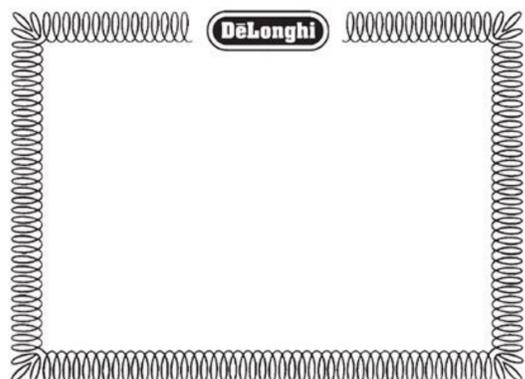


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when it was fully horizontal, which is hardly safe. Although it did leave the whole bathroom feeling warmer, we also measured about a 10-degree difference on average between our sensor at 3 feet in front of the heater and the one we placed 6 feet away on a diagonal. We think this is a fair trade-off if you're looking to warm a space instead of a single person, but it might not be ideal in every situation. A few space heater reviews have complained that the timer makes an audible ticking noise, but we did not encounter this issue in our testing. We're reassured by the fact that the FH500 is covered by Lasko's three-year warranty, and we're optimistic that the dust and dirt factor won't be as much of a problem for a heater, because you're more likely to be using it indoors with the windows closed. Some heaters that heat well are infuriatingly difficult to clean, have nonsensical interfaces, or sound like wasps. I've never had that happen with a space heater before!The OSCTH1 is also about 4 decibels louder than the VH200, although it still rates below "conversation level." We think the white noise it emits should be easy enough for most people to ignore (we found it rather pleasant ourselves). The VH200's plastic casing also remained relatively cool, measuring around 95 degrees Fahrenheit, with the grille over the heating element topping out at around 140 degrees, making it one of the coolest models we tested. We're looking into when it will be available again, and will update this guide with more info soon.January 28, 2022To offset the chill in a drafty room or to give your home's heating system a little boost, you may need a space heater. We've been hesitant to even try them, as the costs are rarely good enough to justify their efficiency. The fact that it was able to heat part of the room enough to create a 10-degree difference was still pretty remarkable, however. Photo: Michael HessionThe VHEAT's solid heating performance is secondary to its delightful design, which makes it a great choice if you're more concerned with aesthetics.\*At the time of publishing, the price was \$150.The Vornado VHEAT Vintage Heater is an all-around decent heater, but what really sets it apart is its delightful aesthetic, inspired by the original Vornado design from 1945. Since 2017, we've focused more on real-world testing, running the heaters under controlled conditions in cramped apartments in Boston and New York.The current version of this guide was written by Thom Dunn, who has written Wirecutter guides on portable and window air conditioners, as well as on emergency weather radios, Bluetooth car kits, hose-end sprinklers, and more. It's still a decent option overall, if our other Vornado picks are unavailable.We previously recommended the Honeywell UberHeat Ceramic Heater HCE200W as an also-great pick. He also learned the hard way that plugging a space heater and a half-stack Marshall guitar amp into the same power strip can cause some pyrotechnics (and not the cool, rock 'n' roll kind). This feature worked successfully in our testing, keeping the temperature steady within about one degree from 3 feet away for more than 6 hours. So we took careful notes on what it was like to rely on and work alongside these heaters. We specifically searched for models rated under 60 decibels, or about the same volume as a normal conversation.A (relatively) cool exterior: Any space heater that is too hot to the touch is a safety risk, and that risk increases with the temperature. Fortunately, Vornado tends to respond to these critical reviews more reliably than other manufacturers do.The Vornado AVH10 is a lot like the VH200, with a few added features, such as a digital display, a convenient cord-wrapping post for easy storage, and a countdown clock when you turn it off, for added safety. Prices for space heaters can shift dramatically from season to season, but at Amazon, Walmart, or Home Depot, the 754200 rarely exceeds \$30—about half the price of the VH200. Photo: Michael HessionWe've updated this guide every year since 2011, building on our knowledge of and experience with the features that set a great space heater apart from the rest. The VH200 was also quieter than every other fan-based heater we tested, emitting a soft whir that was barely noticeable—even on high—and generating a comfortably focused blast of heat that evenly dissipated into a room-filling, ambient warmth. And in our tests, it didn't change the room temperature, even though the grille reached a whopping 170 degrees.I tell you this from a personal and particularly fiery experience involving a Marshall amplifier, an old power strip, and a space heater. At nearly 9 pounds, the VHEAT's metal body is noticeably heavier than the plastic Vornado models we tested, and its sea-foam green finish (also available in white) makes it feel like a deliberate choice of home decor, rather than, well, a small plastic space heater that you bought out of necessity.In our heating tests, the VHEAT performed near the top of the pack, even if it wasn't quite as good as the VH200 or the AVH10 space heaters, or any of our other non-Vornado picks. In case you need them, here are the PDF instruction manuals for the Vornado VH200 (PDF), the Lasko 754200 (PDF), and the De'Longhi TRD40615T (PDF). Maybe your office is too cold and you want a small, personal heater to keep at your desk. At 3½ feet tall, it's also the largest one we tested, although it's nice enough in function and appearance that we wouldn't mind having it stand out in our home. Photo: Michael HessionThe Vornado VH200 heated a room faster and more evenly than other models we tested, offering the best combination of power, comfort, and quietness.Out of all the space heaters we've tested, the Vornado VH200 offers the best overall combination of heating speed and distribution, safety features, easy operation, and affordability. It's comparable to the VH200 in a lot of ways, and we think it's a good alternative overall for smooth, gradual whole-room heating. Don't use a power strip, either—we've seen negative reviews complaining of a heater breaking and ruining a power strip in the process, but the thing is, most manufacturers state that you can't use heaters in a power strip at all (as we learned the hard way).There are a lot of other warnings most manuals tend to include:Don't use extension cords or power strips. The space heater offers three power settings—one more than the usual low and high—and a thermostat dial with seven settings. And despite its height, the FH500 actually has only about a 13-by-13-inch footprint, which makes it a great space-saver.In our tests, we set the FH500's bright, easy-to-read digital display to 90 degrees Fahrenheit, the highest possible setting (you can also set the thermostat to display in Celsius). Sadly, it has been discontinued by the manufacturer.We also tested the AmazonBasics Portable Ceramic Tower Space Heater, shortly before the news broke that various AmazonBasics electronics products had been exploding with concerning frequency; by the time we were finished testing, it had already been discontinued. It definitely stands out in a room, but at least it looks good.The Lasko FH500 All Season Comfort Control Tower Fan & Heater in One is the best tower heater we tested, directing a vertical column of warm air evenly throughout the room. The De'Longhi TRD40615T has simple controls, a handy 24-hour timer, and an exterior that in our tests stayed cooler to the touch than those of other radiator-style heaters we tried. And although it doesn't have a cooling feature like the Lasko FH500, the OSCTH1 does have a fan-only mode, which is great for air circulation.That circulation comes with a catch, however: Because the OSCTH1 moves the air around the room so well, it doesn't raise the overall temperature quite as quickly as the VH200 does. But even if it doesn't, the Lasko has the normal high and low heating settings as well.Whichever space heater you choose, there are some common safety concerns that many people overlook: You can't use any space heater with an extension cord, and you shouldn't leave a heater unattended. This button is literally the only thing you need to hit, which is good, and you can't miss it. Some Amazon reviewers have reportedly encountered a similar problem, and even though the manufacturer has typically been responsive and helpful, we think you're better off going with a more reliable Vornado pick.We tested the Vornado VH10, which is a glossier, newer generation of the VH200, but nothing set it apart from our less expensive top pick. Photo: Michael HessionThe Lasko FH500 towers above its competition both in features and in stature, providing an even, vertical distribution of air. If, like me, you ever find yourself needing a space heater in a music recording studio, this is the one to go with—although you shouldn't plug it into the same outlet as your Marshall half-stack, unless you really want to see that outlet explode. Perhaps there's an area of your home that has noticeably poorer heat distribution. FYI!Our oil-filled radiator pick, the De'Longhi TRD40615T, is currently out of stock most places. The TRD40615T is the best of its type because it's sturdier than competitors, with an exterior that stays cooler to the touch.Most space heaters can deliver quick heat to a single person, but oil-filled radiators are better for heating a whole room for a longer duration, and the De'Longhi TRD40615T is the best of its kind. After running on high for 15 minutes, the VH200 raised the temperature by 6 degrees Fahrenheit at 3 feet away, and by 3 degrees at a 6-foot diagonal; after an hour, the VH200 had increased the temperature by 17 degrees at 3 feet away, and by 11 degrees at a 6-foot diagonal. It also comes with a convenient cord-wrapping post for tidier storage. It's not much to look at, unless you're really into fencing masks, but it is powerful and affordable, and that's really all you need.As is the case with all ceramic heaters, the 754200 creates a concentrated jet of warm air that you can feel almost immediately, especially if you're sitting right in front of it. (You don't.)Like any radiator, the De'Longhi TRD40615T is larger than our other picks. The Lasko CD08200 will definitely warm you up regardless of your bathroom layout. Don't worry; no one was hurt, and nothing was damaged (except the power strip). But its narrow stream of hot air doesn't feel as comfortable as the heat from models that warm a whole room, and it lacks some safety features.We've recommended the Lasko 754200 Ceramic Heater since 2013, and it's still one of the cheapest and most reliable space heaters you can find. You should also try to keep it away from any furnaces, fireplaces, stoves, or fuel. Photo: Michael HessionDuring that time, we only measured an average of less than 1 degree difference in room temperature from our two temperature monitors at 3 feet in front of the heater and 6 feet diagonal from it—some of the most uniform heat distribution we've seen. But its narrow stream of hot air doesn't feel as comfortable as the heat from models that warm a whole room, and it lacks some safety features.The Lasko 754200 Ceramic Heater is a small, budget option if you're looking to warm just your body—not the room as a whole—while you're sitting on the couch, say, or in the office. We pored over space heater reviews on Amazon, Walmart, and Home Depot, hunting for any patterns of defects or longevity issues.With all this in mind, we prioritized the following features and performance criteria:Adequate safety features: Space heaters can be dangerous—according to the National Fire Protection Association, space heaters accounted for 44% of home-heating fires from 2012 to 2016, and home-heating equipment (which also includes things like water heaters and fireplaces) accounted for 15% of all total house fires in that period. We found similar, if not better, levels of satisfaction at the Walmart, Home Depot, and Best Buy sites. The first way to prevent a fire is to never leave a space heater running in a room unattended. The indicator light would turn on, and the fan would run, but the MVH simply wouldn't put out any heat. We ran each heater for an hour; the Lascar logger measured the temperature and humidity every five minutes. This particular De'Longhi model looks nice and heated the room well enough, but we don't think it'd be a good substitute for a Vornado or a Rinnai-style installation. Although we recommend that you don't leave any space heaters unattended in a room at any time, especially with pets or small children, we stress that even more when living with the Lasko. This actually came as a surprise when we looked at the data, as our initial gut-check left us feeling like the heat had not been evenly distributed. Sometimes his curiosity gets the best of him, such as when he plugged a space heater and a Marshall guitar amp into the same power strip. Some less expensive heaters, including our budget pick, the Lasko 754200 don't have a tip-over switch at all. It also has a nice digital touch screen, with simple controls and an easy-to-read temperature display. In contrast, we found the squat, pyramidal Vornado heaters much harder to knock over. In the time since we gathered this data, we've also tested a new model, the Vornado OSCTH1.In spite of the hotter temperature readings, the heat billowing from the VH200 also felt significantly more comfortable to sit beside than that of the other heaters we tested. Photo: Michael HessionOil-filled radiators are silent but slow. Since 2019, we've tested 20 different models in a Boston apartment. Few of them are truly beautiful, but many are outright hideous. And it has a tower design, which on tower fans can be so difficult to clean that they can become inoperable after a season or two. But if you can aim it directly at yourself (or where you'll be emerging from the shower), we'd recommend it. That should give you enough time to shower and build up the courage to leave the comfort of the warm rushing water. That being said, we have noticed that the OSCTH1 occasionally makes a loud grinding sound while oscillating—something that a few other Amazon reviews have noted, as well. Your Crash Course in Heaters 101, NivalaEnergy Saver: Portable Heaters, US Department of Energy, September 4, 2018Portable Space Heater Safety Tips, Sylvane, September 4, 2018Portable and Safe Heaters: What you need to know, Lasko, October 18, 2019Marina Oster, Space Heaters vs. In this case, we think that's okay. Fortunately, we didn't experience any pyrotechnics ourselves. And most heaters can't be used in a bathroom, unless they're specifically designed for it. And although the VH200 is not particularly attractive, it's definitely not ugly—a big win in a crowded field of unappealing design. Central Heating: Essential Question, Stanford Magazine, March 1, 2010Rosalind Jackson, How Infrared Heaters Work, HowStuffWorks, March 10, 2009Thom Dunn is an associate staff writer at Wirecutter reporting on HVAC and other home improvement topics. These are a different style of heater than the ones we've previously tested, with floor- or wall-mounted capabilities that make them similar to the built-in electric radiators you might find in some homes; if you've ever seen or used a Rinnai, that's probably a good comparison point. But the 754200 is smaller than the VH200 and therefore easier to store or tuck away. In previous years, we found it was slower to warm the room in our tests, and that the case was hotter to the touch after an hour. Though the tip-over switch on the VH200 might seem overly aggressive to some people, it's ultimately for the best—that mild inconvenience will help remind you that there's only one safe place for your space heater, and that's with all 4 corners touching the floor.

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