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It seems that every week brings exciting news from the world of robotics. From tackling Rubik's cubes to sea swarms and filling potholes, modern robots can do some pretty incredible things. But if you're looking for robotic help around the house, there are quite a few designed to keep the floors clean to choose from. We've spent the last few weeks allowing the Botvac D80 to do most of all the vacuuming work for us, just from programming a simple schedule. The design and connectionThe Botvac D80 is one of the latest robot vacuum from Neato Robotics. Measuring 12.7 x 13.2 in (32.1 x 33.5 cm) across and 3.9 inches (10 cm) in height, the D80 is significant but not too cumbersome. At 9 pounds (4.1 kg), it weighs about the same as your typical vacuum canister does. The top of the Botvac D80 has a small LCD screen with touch control, buttons, and a bagless dirt compartment/bin. Under the body are two large rubberized wheels along with four small rollers to keep the Botvac D80 moving on uneven surfaces. For cleaning, the Botvac D80 has a pre-installed spiral brush featuring both bristles and silicone blades. The box includes a silicone straight blade brush, which is ideal for hard floors. These brushes work almost the entire length of the front of the robot, making for a more efficient vacuum cleaner. Other notable aspects of the Botvac D80 are infrared navigation, front bumper/sensor and rear charging. The setup is easy to set up, requiring simply removing all peeling stickers, flipping the switch (under the bin cover), plugging in the base station, and installing the Botvac D80 against it to charge. That's all there is to it. From then on, it will be recharged as needed. The Botvac D80 automatically parks its charging connectors against the base station as needed The Menu has enough options to run the device, and nothing more. If you can program the coffee maker on schedule, you won't have a problem heading to the Botvac D80 to handle things yourself. Or you can just push the Home button on the vacuum and have it clean on command. The LCD screen is bright enough to read indoors, and the only notifications that pop up when the cleaning has been completed, or if the battery should charge a few more. And if someone happens to pick up a robot, he chirps on the criminal to put it back down. The Botvac D80 comes with a combined brush (installed), a silicone brush, a standard filter (installed), a filter cleaning tool and a flexible magnetic stripe. Brushes are easy to change, needing only fingers and no tools. The strip is used as a border marker to keep the vacuum from where you don't want it. There is no glue support on it, although it is recommended to apply some so that the band won't slip out of place. The Botvac D80 pays close attention to the border, it will still be over the line by about an inch or so. Navigateput Botvac D80 in any room (with its base station), click The home button, and the robot will take off to do its job. Every time you set it loose, it takes a weighted approach, circling the room to figure out the space before trudge back and forth between them and take care of the edges/corners. As long as nothing in the room (s) has changed the position, you should see the Botvac D80 maintain a walking pace in a similar, methodical model every time. The noise level is no different from a large portable or vacuum canister - it's not necessarily loud, but there's no secret that a vacuum cleaner is going on. One thing Botvac D80 pretty well covers open spaces in neat, parallel rows. From time to time it can leave one thin gap, up to half an inch wide by a foot or two in length. But such missed areas are usually taken care of during the next round of vacuuming. The Botvac D80 easily moves from any carpet thickness to flat (e.g. hardwood, tiles, linoleum) floors and back. And because of its flat growth, it can go places that are uncomfortable to manually reach with a canister or vertical vacuum, such as under beds, dressers, or tables. When it comes to detecting and navigating around objects, the Botvac D80 does well. Most of the time it feels the edges of the furniture and the corners of them smoothly, making sure that the lateral spinner brush hits the edges as best as possible. When stuck on the corner for more than a couple of seconds, the Botvac D80 will back up time and make a slightly wider turn to hug that curve. It's not perfect, but you can see how it really tries to do it right. While the Botvac D80 may not get everything on the first pass, it doesn't leave much for the next job of vacuuming and it can't always tell the difference between immobile matter and, say, dark, low-hanging tablecloths that can be pushed through. Skinny things such as a table and chair legs tend to get run in, but once the Botvac D80 knows something along the way, it's fast enough to figure it out and keeps that information in mind as it goes on. Such details are remembered only for the remainder of the ongoing cleaning work. So it's a clean navigation sheet every time. Botvac D80 usually avoids cramped, enclosed spaces. But if he can feel sufficient resolution on each side, he will move forward and continue regardless of the consequences. Sometimes a vacuum can be held in areas with little room to maneuver, such as a dining table with chairs around it. He's usually sticking it out on his own, wasting no time performing a lot of point turns and parenting on wheels for clearance. If the Botvac D80 manages to convince itself to fit through thin gaps with just one possible entry/exit point - it can spend upwards of 10 minutes perplexed about how to get out. It's a bit fun to watch, actually, kind of witnessing someone trying to parallel the park the tool is just a little too big for the allotted space. You also want to pay attention to furniture and wall surfaces like the Botvac D80 can and will leave traces of against things, usually when backing up, trying to free themselves. Most of these marks wipe immediately with your finger, but some of them need a little more effort to remove. The D80 seems to pay zero attention what it is when backing up, except to get permission to continue. The front beats are OK, since the sensor/bumper is there, and it's less than what you could do yourself with a vertical vacuum. However, the Botvac D80 is still strong enough to shove doors closed or light objects, such as light chairs, around. Cleaning is simple, since the Botvac D80 makes brushes easily available for better performance, you want the floors cleaned and clutter free, which can be difficult for households with kids. If an object is too small to be seen or too easy to offer resistance when the Botvac D80 collides with it, it does not exist as far as the robot is concerned. Thus, all these things may end up being pushed around a vacuum, eventually forced by the outer edges of the rooms. Only the smallest objects, such as Legos, get brushed in the bin. You know it's too big when you hear a constant rattle. In addition, the Botvac D80 does not appreciate dark floors or carpets, especially when there is not much light. It can get tangled up with footpaths, sometimes circling like he's drunk, and eventually takes longer to complete. However, it recovers on its own - after all. But the most important things to watch out for are power bands, USB cables, or anything resembling a string, especially if attached to something. Botvac D80 cares little about power bands and extensions. So if it pushes enough, anything connected to this lane will be pulled together for a ride as the robot has some muscle behind the wheels. Lamps can be removed from the end tables, and wireless routers are dragged over floors - so don't immediately blame the dog. Free cables or low-hanging curtain cords can also end up wrapped around the brush and require attention like any typical vacuum. When the Botvac D80 has finished cleaning, it turns off the fan before making its way back to the base station for recharging. You get about an hour's worth of an automated vacuum cleaner from three hours of charging time. There is no indicator for dirt bin, so it is usually best to check how full it is often. It's a bag-free design, so you pull out the filter and reset the contents. The filter itself tends to collect hair, dust and fluff, but included a comb as the cleaning tool does a quick job of cleaning all the attached debris. The top end of the tool has a thin, protected blade that helps to cut through the hair and strings wrapped around the spinner brush. While effective overall, you still have to use your fingertips to get the material on top. Net floors Botvac D80 brushed and sucked, picking up a respectable amount of hair, dust, crumbs, etc. - at least for a vacuum of this type and size. As powerful as it can be, the Botvac D80 is unable to handle super-thin particles on the on Floors are a species that requires dry stripping or wiping with a cloth. So even if a flat profile allows it to reach under the beds to scoop up all the dustings, you need to pull out the dust wand if you want the floors to be completely clean. However, it's still super handy to send the robot underneath to do all the hard work. The dirt bin is small but without bag design makes it easy to empty in general, the Botvac D80 performs better with light to moderate cleaning jobs, such as with unsettled dust, hair, cereals, Almonds, paper chips from making snowflakes, etc. dry things. It's not really meant to go after anything wet or sticky. For best results, you'll want the Botvac D80 to stick to bare floors and thin carpets/carpets. Anything that's thicker than a low carpet pile will require a more powerful vertical vacuum to get everything, even if you're patient and allow the Botvac D80 to have multiple passages through the same areas. You may or may not see it, but rest assured that your bare feet will feel these leftovers immediately. The reality is that this robot is better at spinning brushes than sucking everything up. Mud that is too thick and heavy can end up being pushed around, often over areas that were previously vacuumed. The suction power also struggles where the transition is in height, such as moving from carpet to hardwood floors, even if it is not much. You can often find traces or lines of dirt right on the edge of the carpet or tiles or linpoliae lips. Again, the judge will be bare-footed. The Botvac D80 won't be able to get everything, but it does a wonderful job on regular service. Even if you have to manually vacuum for more thorough cleaning, you will spend less time in general keeping the floors neat and tidy. VerdictIf your home creates dirty floors faster than you have time to vacuum it all, Neato Robotics Botvac D80 is more than happy to help. Unpacking a robot takes longer than programming a cleaning schedule. Although neither loud nor quiet for a vacuum of its size, it doesn't really matter if the Botvac D80 is set to run autonomously while all out of the house. This vacuum is quite capable of moving around the rooms, going from carpets to floors and back, and returning to the base station for charging. You just have to remember to try to keep the area clear in the first place for better results. While the Botvac D80 is new, it doesn't really offer anything completely new. The body shape is similar to previous units from Neato Robotics. The D80 does not have in-depth options/settings or connectivity to a mobile device (this is Botvac Connected). But if you're more worried about clean floors, especially in a house with fluffy pets, the Botvac D80 proves its value - an empty bin every couple of days during the work week and you'll be able to see exactly how much. Your feet, appreciate it. Neato Robotics Botvac D80 is available now, retailing for US\$499.Product page: Neato Neato Ботвак D80 D80 neato botvac d80 robot vacuum for pets and allergies review

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