

FESTOOL®

CT Dust Extraction





Why dust extraction?

Dust control shouldn't be an afterthought when it can save you time, increase your efficiency, improve your work, and even create happy and loyal customers. Whether you're working in the shop or on a jobsite, a good dust extraction system should start removing dust at the source, where it is being created. Clean air and fast cleanup are two things that you and your customers can appreciate.

"Efficient dust extraction is a must when you're working in someone's home."

Products engineered to work collectively as a system to remove airborne dust reduce user fatigue and maximize the quality of your work. Good dust extraction extends the life of your tools by reducing dust-induced tool fatigue. It improves your accuracy by giving you a clearer view of your cut lines, and improves your finishing results by helping to reduce swirl marks that occur during sanding operations.

On a jobsite, hammering and cutting are already making your presence felt. Why let lingering dust be a reminder of activities after you leave for the day? Charlie Peterson, a renowned wood flooring artisan, states the point clearly, "Efficient dust extraction is a must when you're working in someone's home. All of the tools that we use for flooring fit our portable extractor. You leave a clean job and you create a satisfied customer." Everyone appreciates a good clean finish. Why not get off to a good clean start and use a dust extraction system that delivers the results your clients expect of you?

Breathe easy again.

In fabrication, dust happens. It's very small, floats everywhere, lands on everything in sight, and gets inside your tools. Measured in microns, wood dust is particularly troublesome to remove from an environment once it is airborne. The fine dust that is ejected into the air can make you sneeze, cough, and experience other allergy-like symptoms. Experts agree that limiting your exposure is the best protection, and we recommend that you always wear appropriate safety gear anytime you are working.



Another great way to minimize the effects of dust created during fabrication is to use high quality tools that are designed with dust extraction in mind. When partnered with a good dust extractor, you will be able to eliminate the majority of the dust created at the source before it is ever released into your environment. Dust extractors with HEPA (High Efficiency Particulate Air) filters, paired in-line or on-board are the best solution. These filters are capable of

capturing 99.99% of all particulates down to .3 microns¹. Originally developed by the *Atomic Energy Commission* to remove radioactive dust from industrial exhaust, HEPA filters have become the preferred filtration system for most sensitive manufacturing and health care environments. There is no better filtration on the market today. Now take a deep breath and focus on what's really important – your results!

Things to consider.

Noise – Most manufacturers rate their systems in decibels (dB). But how can you estimate just how loud that dust extractor is going to be without taking it home, and plugging it in? Without going into a long physics discussion, as a general rule you can estimate that the perceived volume of a device will be twice as loud for every 10dB difference². So, a system rated at 80dB will sound twice as loud as one rated at 70dB. Also, systems with a lower pitch and the same dB will sound softer to the ear. Below, you'll find a simple chart to give you an idea of dB levels of common objects to make it easier to understand what we are talking about.

Noise	Decibels	
Normal conversation (3'-5' away)	60-70dB	Typical range for dust extractors
Telephone dial tone	80dB	
Train whistle (500' away)	90dB	Sustained exposure to 90dB or more may result in hearing loss
Motorcycle	100dB	
Power saw (3' away)	110dB	

¹ Occupational Health Surveillance and Evaluation Program

² Sound technically doubles at 3dB, but the ear registers a doubling of sound at about 10dB.

Variable air flow (CFM) – This feature allows you to adjust the amount of air flow, and it is typically measured in cubic feet per minute (CFM). The higher the CFM rating the more air is being moved and the more suction is being created. As a note, larger hoses generally produce higher CFM ratings, all things being equal.

So, why is variable air flow important? Different tools have different CFM requirements. For instance, if you are removing larger chips generated by a router or planer, you would want to use a higher CFM and larger hose to ensure that all of the material is being captured.

On the other hand, when sanding, you want a lower CFM, and smaller diameter hose to reduce the amount of pressure being created at the point of sanding. Fine dust does not require a great deal of pressure to pick up, and using too high of a setting will actually pull your sander down onto the work and increase the probability of creating swirl marks in your finish.



Automatic tool triggering – Automatic tool triggering is typically an onboard sensor that recognizes when a tool is turned on, and it initiates the dust extraction process without the need to manually turn the machine on/off. This is particularly useful when the distance between the vacuum and the tool is more than a few feet apart or when you are starting/stopping the

tool frequently. By eliminating the need to walk back and forth or to continually bend up and down to turn the extractor on/off, you can focus on the task at hand more efficiently, and reduce the noise associated with continuously running the vacuum system.



Filter bags – Filter bags are an important part of containing dust. They make removing and transferring debris easy and clean. Systems without filter bags create unwanted dust clouds when you go to empty them. So, make the small investment in purchasing a system with filter bags, and enjoy a cleaner environment. Filter bags with caps or auto-

sealing capabilities will keep the bag sealed while transporting it. At a minimum, you should select an extractor that handles both wet and dry clean-up jobs. Invest in HEPA main filters if available, as these represent the ultimate in dust capturing capabilities. But be aware that HEPA filters are only as good as the vacuum's ability to capture dust. Make sure the motor housing is sealed to keep it away from the dust, which would otherwise shorten the useful life of the tool.



Wet capability – Having the ability to vacuum wet spills is important. Look for an extractor that has a water level detector and auto shut-off feature to minimize problems with overfilling your vacuum with too much liquid. Make sure the motor housing is sealed, and the lid has a gasket to keep water where it belongs.

Filter cleaner - This device/mechanism allows you to remove the accumulation of dust and debris from the internal filter, reducing the chances of overheating the motor and electrical components when there is poor air circulation. Systems should offer thermal protection for the motor as an added level of safety and security, so consider this when purchasing your next vacuum system.



Anti-static hoses – Ever touched a plastic hose and received a shock? This results when there is a build-up of static electricity on the ungrounded hose. While none of us like getting zapped, anti-static hoses offer real advantages beyond protecting you from the static discharge. Anti-static hoses prevent the build-up of dust (attracted by the electrical charge on the hose). Note that an anti-static hose by itself is not enough. The tool must be grounded to the hose, the hose to the extractor, and the extractor to the outlet. Putting an anti-static hose on a tool or vacuum that does not complete the grounding loop will have no effect. Anti-static capability keeps your clothing, shop, and customer's space cleaner by reducing the amount of dust transferred should the hose brush up against carpeting or clothing.

Venting and exhaust – Some extractors have an additional blower port that allows you to vent the exhaust through a hose. This feature is particularly important when you are working in environments where eliminating odors is important. You have the ability to direct the exhaust away from the location or through a window to the outside air.



Storage and accessories – A machine that is designed properly will have convenient storage solutions for keeping the hoses and accessories well organized and readily available. On-board cradles, handles, and the ability to use the flat top as a temporary shelf to support tools are nice features that you should consider.

Mobility/stability – A well designed dust extractor should be stable, balanced, and have large wheels to prevent accidental spills when moving it around the jobsite. Wheels should be large enough to roll over obstacles like cords and small material without hanging up or tipping the machine over. Locking brakes are a nice feature, and prevent the extractor from rolling around your vehicle or down hill on uneven surfaces.



Ergonomics/weight – A well designed machine should be easy to lift with a handle positioned on top and approximately 7"-9" away from the body when held to your side. This is the most natural position for lifting. Look for brands that offer different sized models, so you can select the one that fits your specific application. If you find yourself climbing in and out of attics, a small, light vacuum would be useful. If you spend most of your time in an open shop, capacity might be more important. Select a machine that is the right size for 90% of your needs. If you find yourself split between multiple environments, it might be wise to invest in two separate extractors to ensure optimal efficiency.

Faster. Easier. Smarter.

Consider the value of knowledge handed down through generations of professionals. For over three generations, Festool has created solutions for these individuals. The passion that drives these professionals to deliver the best finished product is the same passion that drives our engineers and designers to produce tools that stand out in their ability to exceed your expectations. In your trade, attention to detail is critical; so why work with something that hasn't been designed with the same amount of care?

From the system, to the tool, to the accessories and consumables; Festool products work hard, so that you can deliver your highest quality work. With an obsessive approach to delivering products that work together as a seamless system, Festool offers a broad range of products that work together as an extension of the tradesperson from the first-cut to clean-up.



CleanTec™ CT Key Features



Variable power that's easy on the ears

With a simple turn of the dial, CFM is regulated at the CT. This allows you to increase or decrease suction to match the operation being performed. Use the high setting to capture large chips when routing or planing; use the low setting to capture fine dust when sanding. When using the low setting, you can reduce noise, vibration, and power consumption, making this one of the CT's most touted features.



Tool-triggered operation

With the flip of a switch, the trigger of your power tool, when plugged into the dust extractor, gives you fast and easy dust removal at the source. No need to load up wall outlets with cords or run back to your vacuum to turn it on and off. One cord plugs into the wall, and your tool plugs into the extractor. No more bending down or running back and forth to turn the vacuum on and off.



Storage and accessories

The Sys-Dock feature turns the CT into a mobile cart for your Festool products. Festool Systainers latch to the top allowing you to move tools together, reducing steps when setting up your jobsite. The top of Festool CT units are flat and store CT accessories in Systainers, or serve as a convenient place to rest your tool or materials while you work. Anti-static hoses store neatly in the built-in hose garage on the MIDI/MINI, and in the optional hose garage on the CT 22/CT 33. The CT 22/CT 33 also include a venting port for diverting unpleasant odors to an outside location.



Balanced mobility

The Festool system-based approach to jobsite fabrication solutions can offer new levels of versatility and efficiency to your application. A major element of this approach is exceptional mobility that doesn't compromise your high standards for tool performance. And with Festool portable dust extractors, everything is mobile. Capture dust where it is being made anywhere, anytime.

CT MINI

- 2.6 gal. / 10 liter capacity
- Equipped with 1 micron filter
- 137 CFM max. suction
- Tool-triggered or manual start
- Integrated hose garage
- Sys-Dock feature
- Locking brake
- 17.5" x 13.5" x 16.5"

Is space and portability important to you?

Then consider the CT MINI as your best alternative. Slim in size and packed with features, our CT MINI boasts 2.6 gallons of capacity making it an ideal partner for your smaller sanding operations and on-the-go applications.

Afraid of compromising on power for size?

Don't let the CT MINI's size fool you, it packs 137 CFM of suction force and 80" of static water lift offering more than enough power for your on-site sanding needs. Just like the rest of the Festool CT line, the MINI features variable suction power and works with all Festool products that have integrated dust extraction.



Don't want to lose wet capacity?

No problem. The CT MINI is both a wet and dry unit. It features level-stop technology that automatically cycles the unit off when full of liquid, preventing motor overheating or potential flooding.

Built-in protection.

The motor features thermal protection. If it gets too hot, the extractor will shut itself off, thereby protecting your investment.

Final thoughts.

So, if you are looking for Festool performance and features in a compact package, the CT MINI is the vacuum of choice. Long a favorite of installers and those who value space and portability.

CT MIDI

- 3.95 gal. / 15 liter capacity
- Equipped with 1 micron filter
- 137 CFM max. suction
- Tool-triggered or manual start
- Integrated hose garage
- Sys-Dock feature
- Locking brake
- 17.5" x 13.5" x 18.5"

Why do you need a mobile dust extractor?

A mobile dust extractor provides dust pick up at the tool. The CT MIDI accomplishes this exceptionally and goes beyond with features like a built-in hose garage, center handle, and casters. A midsize solution with a 3.95 gallon capacity, the MIDI is appropriate for the jobsite or for lighter duty in the workshop.

Being compact is important, but I need more capacity...

If you prize space and size but need more collection capacity, then the CT MIDI will fit your needs. With 50% more capacity than the CT MINI, the CT MIDI shares the same footprint and feature set, all while weighing less than ½ lb. more.



How easy is it to take with me?

With an ergonomic center handle and exceptional balance, the CT MIDI is ideally suited for transport to and from the jobsite. Also, with an on-board hose garage, hose and cord storage is a snap, getting you on your way faster.

Built-in protection.

The motor features thermal protection. If it gets too hot, the extractor will shut itself off, thereby protecting your investment.

Final thoughts.

Built with the installer in mind, the CT MIDI is ideal for anyone who requires full suction capacity in a light-weight and compact design.

CT 22 E

- 5.8 gal. / 22 liter capacity
- Equipped with HEPA filters
- 134 CFM max. suction
- Tool-triggered or manual start
- Integrated hose garage
- Sys-Dock feature
- Locking brake
- 24" x 15" x 17"

Looking for the ideal shop extractor?

The CT 22 has more than enough capacity to handle most shop applications, while still maintaining a portable format. A longtime favorite and one of our most popular units.

What do I gain in a CT 22 dust extractor?

More power and more capacity. 134 CFM and 90" of static water lift. Couple this with 5.8 gallons of container capacity and you have a powerful package.

Can the CT 22 do everything a MINI/MIDI can do?

All that and more. Auto-start, Sys-Dock, wet/dry functionality, variable suction force, anti-static hose and all the features of the MINI/MIDI, plus



larger casters, blower port, handle bar and boom arm capability, with greater suction force and capacity. The CT 22 can also be used with the Festool air tool system.

Being more powerful, is it any louder?

Although larger and more powerful, the CT 22 is no louder than the rest of the CT line. At a mere 62dB(A) on the low setting, CT dust extractors are tuned to a low frequency and are generally not heard over any power tool being used at the time.

Final thoughts.

If a primary consideration is shop usage with occasional portability then the CT 22 will exceed your expectations.

CT 33 E

- 8.7 gal. / 33 liter capacity
- Equipped with HEPA filters
- 134 CFM max. suction
- Tool-triggered or manual start
- Integrated hose garage
- Sys-Dock feature
- Locking brake
- 24" x 15" x 22"

Power, Capacity, and Portability.

When it comes to capacity, the CT 33 is the largest of the lot. Packing 8.7 gallons of capacity and 134 CFM, the CT 33 can tackle any task with ease. From detail sanding to planing to routing to sawing, the CT 33, with our largest capacity, will give you the longest run-time without changing your filter bag.

Why would I want a CT 33 versus another Festool CT?

The CT 33 is great for the shop, especially when used in conjunction with the CT boom arm to create a workstation that keeps cords and hoses out of the way of your work. While not as compact as our CT MINI or MIDI, the CT 33 maintains a high degree of mobility, while delivering the highest capacity in the Festool line-up.



How big is the CT 33?

At 24" x 15" x 22" the CT 33 is small enough to be stored under a bench. At only 32 lbs. it's still light enough to be taken on the road, or carried up the stairs.

Shop grade performance and convenience.

The CT 33 is equipped with our standard tool-triggered dust extraction, anti-static design, adjustable power/suction settings, locking casters and Systerainer storage. Customize your CT 33 with accessories like a handle, industrial cleaning sets, a hose garage and larger hoses for the ultimate shop solution. The CT 33 also works with the Festool air tool system.

Final thoughts.

With capacity to handle your workshop needs, and excellent mobility, the CT 33 will help you work faster, easier, and smarter regardless of your environment.

CleanTec™ CT Key Accessories



Filter bags

The cleanest and fastest way to contain dust and dispose of it completely. The filter bags act as the primary filter and trap particles down to 5 microns in size. With a double layer of filtration made of tear-resistant material, and a cap to seal it for disposal, filter bags are a must for optimum performance and convenience while extending the life of both the filters and dust extractor. Available in packs of 5 and 20.



Boom arm

Designed for the shop, the boom arm excels at cord and hose management. Coupled with the CT 22 or CT 33 units, the boom arm mounts to the handle bar for maximum stability. Boom arm kit includes tubular steel bars, outrigger supports, cross members, extension hose, and extension cord. Keep cords and hose from catching on material while sanding, sawing, or routing. Protects the edge of your work, prolongs hose and cord life, and reduces hose management hassles. With a pivoting joint, the boom arm articulates to follow you through the work.



Handle bar

Increases mobility and turns the CT 22 and 33 units into a hand truck for Systainer movement. Robust steel frame is strong yet lightweight. Bottom bracket provides storage for wands and other clean up tools. The handle bar also doubles as a strong anchor point for mounting the boom arm. Move more with less effort with the CT handle bar.



Cleaning sets

Get the most out of your CT dust extractor investment and supplement it with a cleaning set. Use your cleaning set on the jobsite or for shop clean up, wet or dry. Plus most cleaning sets come in a Systainer that can be stored and latched on top of our CT units. With several sets to choose from, Festool has the right cleaning set for you.

CleanTec™ CT Key Accessories



Hose garage

A convenient way to keep your hose at hand and offer protection for your hose and cord during transport and storage. The hose garage mounts without tools and extends the Systainer docking station all without increasing the footprint of your CT 22 or CT 33.



Dirt trap

For the really messy jobs like cleaning up small spills or lots of water, the dirt trap is a real time saver. Simply insert the dirt trap in place of a filter bag in the CT unit. The dirt trap excels at wet pick up. Once full of liquid the CT will automatically shut off. Simply remove the dirt trap and dump it. No need to move the entire CT unit to empty it. Also there is no drain valve to clog or leak.



Longlife filter bag

When using the CT dust extractors with routers and planers, or any activities that produce large shavings or wood chips in volume, the filter bags are going to fill up faster than when you are producing finer dust, like when sanding. If you need to change filter bags often under these circumstances then it might be time for a longlife filter bag. Designed for the CT 22 and 33 units and made of cloth, the longlife filter bag can be used over and over again. Saves money on filter bag replacement while offering a convenient and easy way to capture and dispose of large wood chips. Not recommended for use with fine dust such as sanding or sawing.



Hose accessories

Festool offers a range of hose accessories, including wands, holders, and adapters, among others. If you need to run a couple of sanders on one CT unit, this can be accomplished with a 'Y' adapter and an extra hose. For CT transport, a blanking plug is recommended. Simply insert the plug into the hose port to seal the unit. No more dust or debris can work out of the intake while being moved. See the full line Festool catalog for additional attachments that extend the usefulness of the CT line.

Festool CleanTec™ Features

Feature	CT MINI	CT MIDI	CT 22 E	CT 33 E	Benefit
Capacity	10 liters	15 liters	22 liters	33 liters	Match the capacity to your needs. Machines that create a lot of chips (routers/planers), require a larger extractor.
Weight	21 lbs.	21.4 lbs.	26.5 lbs.	32 lbs.	Lighter machines are more mobile.
Noise level low/high	62dB / 72dB	62dB / 72dB	62dB / 72dB	62dB / 72dB	Noise level on low and high settings.
Automatic tool trigger	●	●	●	●	Automatically turns the extractor on/off when a tool is turned on/off.
Adjustable suction (CFM)	137 max	137 max	134 max	134 max	Low setting is for light and medium work, and is ideal for sanding and sawing operations. High setting is recommended for medium and heavy work, and is ideal for routing, sawing, sanding, and planing.
1 micron main filter	●	●			Excellent filtration for most wood dusts and common clean-up tasks.
HEPA main filter			●	●	Breathe easier with HEPA filters, the highest filtration level for the most demanding applications with the cleanest exhaust.
Filter cleaner			●	●	Keeps main filter free of dust, which helps to cool the motor.
Wet/dry capable	●	●	●	●	Extract dust, remove debris, and clean up wet surfaces and spills. Wet filters are offered as an accessory.
Integrated hose garage	●	●	*	*	Convenient built-in storage provides protection for both hose and cord and easy transport. *Hose garage accessory available for CT 22 & CT 33.
27 mm Antistatic hose	●	●	●	●	Reduce dust buildup on both the outside and inside of the hose for better flow and minimize shocks caused by static discharge.
36 mm Antistatic hose	●	●	●	●	Allows greater dust extraction.
50 mm Antistatic hose			●	●	Used for the largest debris.
Systainer docking	●	●	●	●	Easily transport, store and organize your tools and increase mobility.
Locking brake mechanism	●	●			Prevent unwanted movement.
Large wheels / locking brakes			●	●	Easy to maneuver, yet stays in place when the locking brakes are engaged.

That is a lot of information about dust extractors. How can I break it down?

Festool and dust extraction:

Faster. With proper dust extraction and filtration, you work faster with less clean-up, saving you time and money.

Easier. The CT is the heart of the Festool system and can be attached to any of our tools with integrated dust extraction to stop dust where it starts for maximum performance and extended tool-life.

Smarter. A Festool CT Dust Extraction system can be sized and accessorized to fit your needs whether you're in the shop or on-site.

Now go and see it:

Visit your local Festool dealer and ask for a demo of the Festool dust extractors. See how the CT quickly and quietly removes almost all of the chip and dust created by our saws, sanders, and routers, making your work Faster, Easier, and Smarter.

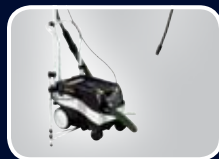


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