

Consumer Appliances - Floor Care

Application Note



Overview

More customers are moving to lighter, quieter, and more convenient cordless and robotic vacuum cleaners. But they still demand the same level of power, performance, and longevity associated with corded products.

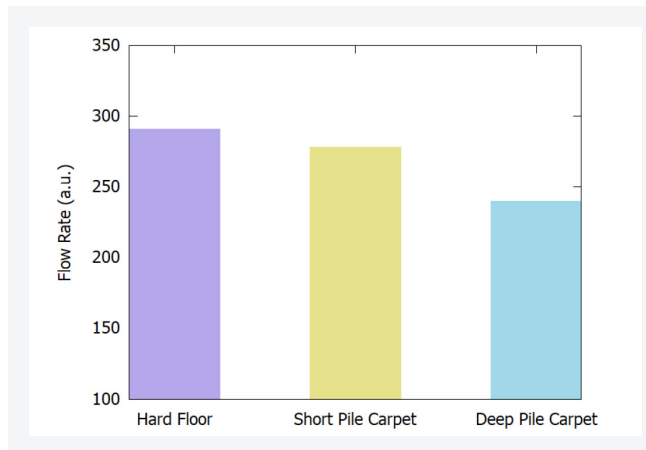
Power management

Until now, there has been a painful trade-off between cleaning efficacy and battery life. But when you monitor your mass flow with the FLS110, your machine can adjust suction in real time based on surface need. It can improve cleaning performance and extend battery life at the same time!

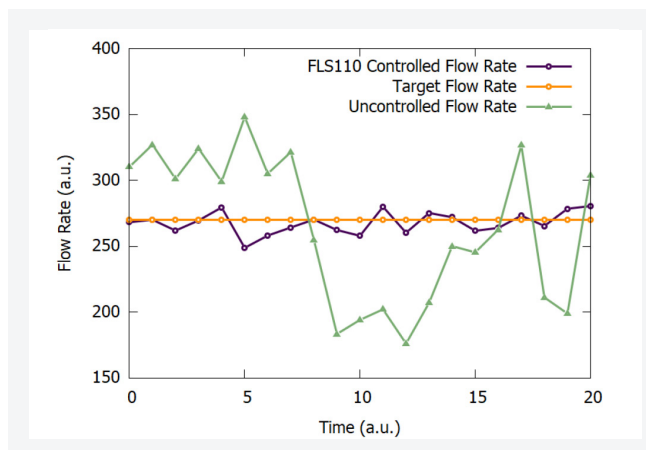
Surface	Restriction	Control
Hardwood/vinyl	Lowest	Reduce power and extend battery life
Short pile carpet	Medium	Control flow rate to maintain efficacy
Deep pile carpet	Highest	Increase power to maximise efficacy

Filtration

When you monitor flow with the FLS110 you can detect when a clogged filter is degrading performance. And predict when it needs to be cleaned too. This avoids clogged filters from interrupting someone's cleaning routine and ensures filters are changed when necessary to optimise battery life and cleaning performance.



With constant power draw, there can be up to a 20% drop in mass flow rate on thicker carpets.



Control to a target flow rate to save energy on smoother surfaces and improve cleaning performance on challenging surfaces.



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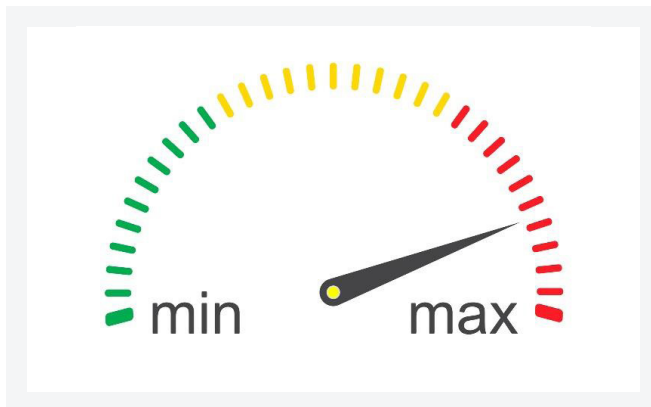
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Easier operation

Most cordless vacuum cleaners provide a boost mode for difficult surfaces. Underuse of this function leads to poor cleaning performance. Whereas overuse shortens battery life without any user benefit.

When you measure mass flow with the FLS110, the motor's power is automatically controlled to the optimum level without the need for a boost mode. This simplifies use of the product for householders.



Boost mode is a double-edged sword. Use it too little and performance is degraded; use it too much and battery life is shortened without benefit.

FLS110 evaluation kit

This kit contains everything you'll need.

It's supplied with a fluidic fixture (to fit your flow range), push-fit connectors and a USB adapter to connect the FLS110 PCB directly to your PC.

And once you have everything connected together, you can easily recalibrate the sensor to take account of your complete system.



Scan QR Code for more information or to order a flow sensor evaluation kit



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