



Connected Solutions

Donaldson iCue™ Connected Filtration Service FAQ

for Environmental Health & Safety Managers

1. What is the iCue connected filtration service?

The iCue connected filtration service monitors dust collectors, using industrial IoT technology. The solution tracks dust collector status and alerts you when normal thresholds are breached; stores and exports historical data to help identify machine problems and optimize performance; and automates data capture for compliance reporting.

2. How does it work?

The iCue service is comprised of four key components that work together to deliver a comprehensive set of benefits:

- **Sensor-integrated gateway:** Captures sensor data from the collector and sends it to Donaldson's secure cloud, where our predictive analytics turn the data into actionable insights.
- **Online dashboard:** Shows equipment status in near real-time, as well as historical trend data for each connected collector in your facility or enterprise.
- **Alarms and notifications:** Alerts you when immediate maintenance actions may be required, based on deviations from pre-set parameters.
- **Weekly status report:** Provides condition summaries of all connected dust collectors across your operation for reporting purposes.

3. How can the iCue service help keep my facility within emissions limits?

The particulate trend monitor senses particulate levels on the clean side of the dust collector. You set a baseline level for emissions for your application and set alarm thresholds. If the particulate count exceeds these thresholds, designated users receive an alert. By setting the thresholds below emission limits, you can check the dust collector and resolve issues before a breach occurs.

4. Will the iCue service help me manage employee exposure levels?

Yes. One important aspect of managing exposure levels is understanding airflow, or dust capture velocity. Dust collection systems are designed to operate at a specific airflow. If the airflow drops below the designed levels, the capture velocity at the hoods may not be sufficient to capture particulate at intended levels. The iCue service tracks relative airflow in near real-time and sends alerts when airflow moves above or below pre-set thresholds.

5. If we already do emissions testing, what value does the iCue service add?

If you're required to do periodic stack testing, the particulate trend sensor in the iCue service can alert you to rising emissions between tests; allowing you to address issues before they escalate into a failed compliance check. Also, by using data to show that particulate trends are remaining stable, you may be able to perform fewer emissions tests, which can help save you both time and money.

6. Why is continuous monitoring important?

Dust collectors can develop small dust leaks, filter damage, or other issues before dust noticeably accumulates in the plant. Continuous monitoring can help provide early detection and enable early corrective actions on a preventative basis.

7. What data does the iCue service provide for permits and reports?

All functions monitored by the iCue service can also generate data for compliance reports. For example, differential pressure (DP) is commonly required by regulatory agencies. While most dust collectors have a standard differential pressure gauge, the data must be manually collected and recorded. The iCue service automatically captures the DP data multiple times per day, helping with compliance documentation.

8. Can I adjust alarm thresholds for my specific operation?

Absolutely. You establish baselines and alarm thresholds specific to your process. Deviations from those ranges will trigger an alert. For example, if your air permit requires you to change filters at 6 inches w/c (w/c stands for water column, a measurement of pressure) you can set an alarm at 5 inches w/c to inform you that a filter change is needed shortly. You can also set a higher priority alarm at 6 inches w/c to notify you when you are out of compliance.

9. Is the iCue service device difficult to install and use?

No. The components are designed for easy installation. The integrated-sensor gateway mounts to the collector with a magnet, and sensors are adhered to key points inside the unit. You just need to login to the system, configure the dashboard settings and alarm thresholds, and designate team members to receive reports and alerts.

For more detail on system requirements and compatibility, see the **Technical FAQ for the Donaldson iCue Connected Filtration Service**.

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