

FCU5000

for Coolant Management

Product Overview





Did you know? Just a 2% drop in coolant concentration severely impacts equipment life!

Many manufacturing applications rely on steady, correctly formulated doses of liquid coolant.



Maintaining coolant concentration is labor and time-intensive. Coolant levels require constant monitoring, daily laboratory analysis, and extensive manual documentation—and this draws attention and personnel away from other critical areas of manufacturing. **But, without careful coolant monitoring, equipment condition and productivity will suffer.**

Now, an unprecedented, automated solution is changing the game for coolant applications:



Introducing the FCU5000

An automated coolant management solution.

- ◆ **Continuous Monitoring:** Provides constant monitoring of essential fluid parameters.
- ◆ **Accurate Dosing:** Prevents shortages or overdoses of liquid coolant, protecting critical equipment.
- ◆ **Easy to Use:** Connects directly to an emulsion mixer and automatically dispenses coolant when the fluid level drops below the target level.
- ◆ **Stay Informed:** Configuration available for automated alerts and recommendations via email to a defined distribution list and data collection and distribution directly to customer systems.
- ◆ **Lighten Your Load:** Reduces or eliminates the need for daily laboratory analysis and manual documentation, freeing resources or other important business operations.



FCU5000 Monitors Essential Coolant Values:

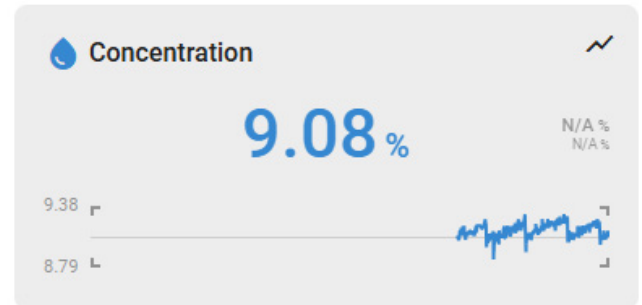
Concentration ◆ pH Value ◆ Conductivity ◆ Temperature ◆ Flow



Intuitive Interface

Touchscreen Monitor

Review critical fluid parameters at a glance on the streamlined FCU5000 interface, and view trends in characteristics over time.



Better Together

Combine with a Fluid Controller (FC5000)

- ◆ **Expand Your Reach:** Combining the FCU5000 with an FC5000 allows monitoring and management of up to 10 individual machines.
- ◆ **Reallocate Resources:** Automated coolant monitoring solutions free up manual maintenance time and personnel for other operationally-critical tasks.



Risks of Unstable Coolant Concentration

The FCU500 Protects Your Operation From:

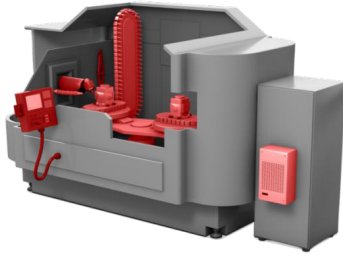


- ◆ **Reduced Tooling Life:** Overheating caused by insufficient coolant concentration drastically shortens the operating lifespan of machine tools.
- ◆ **Shortened Emulsion Service Life:** Cooling emulsions inherently have a limited lifespan, which can be shortened further by incorrect mixing.
- ◆ **Foaming:** Often triggered by incorrect coolant concentration or contamination, foaming lowers coolant effectiveness and can damage pumps.
- ◆ **Worker Health Risks:** Bacterial development, incorrect PH, concentration imbalance, and other coolant instability can cause skin and respiratory irritation.

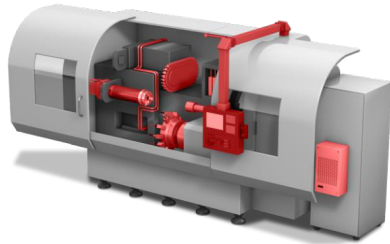
Effective Coolant Management for Parts Manufacturing Applications

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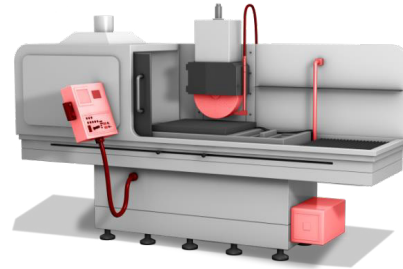
Protect Critical Machine Tools Such As:



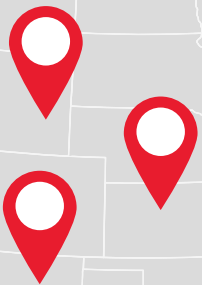
Machining Centers
(CNC)



Turning Machines
(Lathes)



Grinding
Machines



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