



Dazzle™ Coolant Management Systems



Toll Free: 888.249.4855 | ZebraSkimmers.com

Zebra™ Skimmers delivers on the promise of automated sump fluid management with our Dazzle™ system solutions.

Because we view chemical concentrate as an essential component of a shop's tool crib, Zebra Skimmers is pioneering changes in how metalworking shops control the coolant in their sumps.

The Zebra® Dazzle™ Systems provide customers with effective solutions to managing coolant concentration on production floors. These systems are available in three configurations:

Dazzle™ 1 is a 2nd generation automated sump level management system. This system delivers a water-concentrate mix to maintain a sump's level within a preset range. Ideal for facilities using the same concentration mix across all their machines.

Dazzle™ 2.e offers a practical and lower cost solution for those not yet ready to embrace the full automation features found in Dazzle 2™. While it doesn't include an inline process refractometer, customers have the flexibility to submit their BRIX numbers using an app on their computers, tablets, or mobile phones.

Dazzle™ 2 is a fully automated coolant concentration management system that maintains both sump levels and coolant concentrations within preset limits. Dazzle™ 2 is flexible, Industry 4.0 compliant, and can be configured to manage the changing needs of a manufacturing environment. Featuring a built-in industrial process refractometer it allows for varying concentration mixes across the system.

COMPARISON OF BENEFITS

	Proportioning Pump and Hose Reel	DAZZLE™ 1 Automated Sump Level Management	DAZZLE™ 2.e Automated Coolant Concentration with App Management	DAZZLE™ 2 Fully Automated Coolant Concentration Management
MANAGES MACHINE CENTER SUMPS	■	■	■	■
REDUCED COOLANT USAGE	■	■	■	■
COOLANT CONCENTRATION MGMT	■	■	■	■
PRECISION COOLANT MIXING	■	■	■	■
SUMP LEVEL MANAGEMENT		■	■	■
MANUAL CONCENTRATION READING	■	■		
MANUAL REFRACTOMETER BRIX ENTRY			■	
AUTO PROCESS REFRACTOMETER				■
REMOTE MANAGEMENT			■	■
DATA CAPTURE & ANALYTICS			■	■
COMPATIBLE WITH LIGHTS OUT OPERATIONS				■
INDUSTRY 4.0 AND IoT READY			■	■
USES RECYLED COOLANT				■

Extending the life of
metalworking
and industrial fluids.



Dazzle™ 1 Automated Sump Level Management

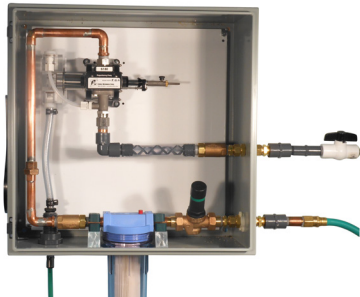
The entry-level Dazzle system comprises a Dazzle™ Pump Panel and sensors for both coolant concentrate containers and sumps. It is easily expandable to as many machines in your plant as a single pump can handle.

FEATURES:

- Reduces coolant usage and waste disposal
- Helps extend tool life and efficiency
- Increases productivity
- Optimizes environmental and OSHA safety margins
- Improves confidence in a lights-out operation
- Cost-effective

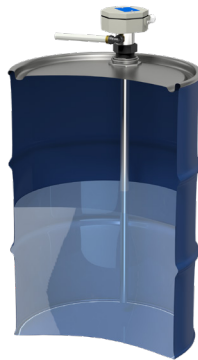
Dazzle™ 1 System Components

The Dazzle™ Pump Panel



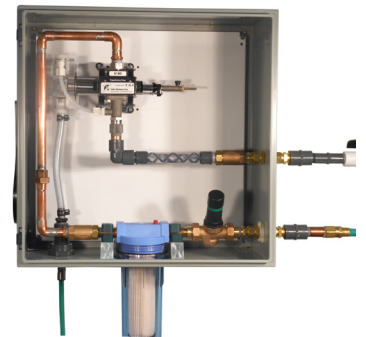
- 7 or 25 gpm Proportioning pump to dial-in optimal coolant/water concentration
- Lockable mounting cabinet
- Mixing/turbulence chamber
- 2 backflow check valves
- Mounting cabinet with observation window

The Dazzle™ Coolant Dipstick



- Microprocessor controller with LED indicator lights and audible alarm
- Low profile level sensor
- 12 Vdc solenoid valve
- Electrical and control cables
- Bung fitting for drum or tote
- Coolant suction line

The Dazzle™ Sump



- Microprocessor controller with LED indicator lights and audible alarm
- Low profile level sensor
- 24Vdc solenoid valve
- Electrical and control cables

Learn how the **Dazzle™ Systems** can save you money.
Call: 440.528.0695

Automating your coolant fluids and concentration mixes is a breeze with the **Dazzle™ Systems**.

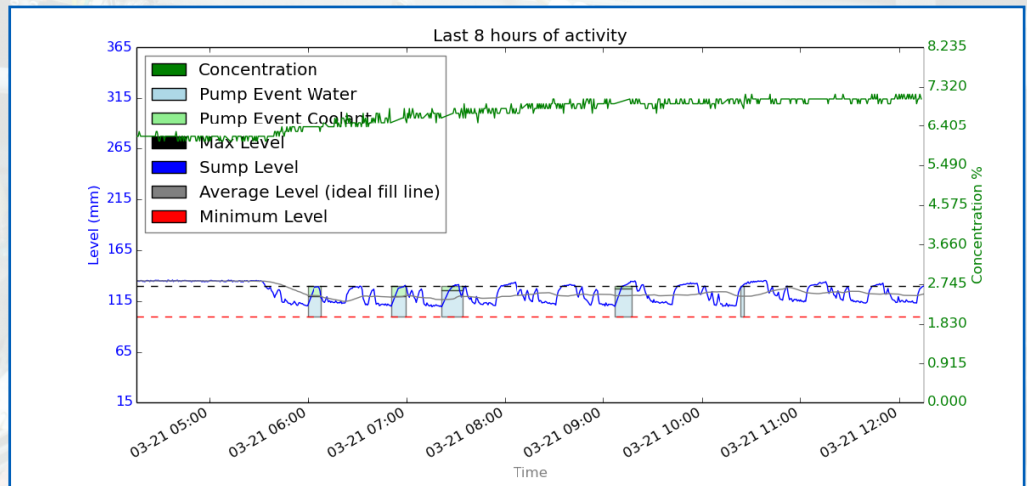


Dazzle™ 2 Automated Sump Concentration and Level Management

Dazzle™ 2 is our proven, industry 4.0 automated sump concentration and level management system that maintains both sump levels and coolant concentrations within preset limits. **Dazzle™ 2** is flexible and configurable to manage the changing needs in a lights-out manufacturing environment.

FEATURES:

- **INDUSTRY 4.0 UNLEASHED:** View and manage sump concentrations and levels from anywhere, on any screen, using the intuitive web interface.
- **MANAGE MULTIPLE SUMPS:** The system allows for managing of coolant concentrations and fluid levels of up to 20 sumps per cell. Multiple cells on a factory floor can be automated.
- **MEASURING COOLANT CONCENTRATION:** Uses a process refractometer to continuously monitor the coolant concentration in sumps under management, while optimally mixing water and coolant to bring individual sumps to target concentrations.
- **LEVEL SENSING:** Dazzle's level sensing capabilities are based on robust capacitive technology which is not affected by a sump's surface foam or particles in the fluid, unlike floats or other mechanical devices.
- **DATA COLLECTION AND ANALYTICS:** Monitor the system using our web interface. Collect data and analyze the system performance across a number of key metrics.



Zebra Skimmers Corporation

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