

CuSuite 3.0™ Master Delivery Unit

HIGH PURITY DELIVERY OF COPPER SULFATE TO THE ELECTROPLATING TOOL



APPLICATIONS

Copper ECD

ADVANTAGES

Constant delivery pressure

Constant delivery flow

Small footprint

Ethernet connectivity

Automatic configuration and setup
to all CuSuite systems

Semi S2-0200, S8, and Optional CE

Allows scalability for the CuSuite 3.0

OEM approved systems

The semiconductor industry's standardization to copper interconnect technology continues to represent large investments in plating technology. FORESIGHT supplies process critical chemical handling solutions for leading chemical suppliers and tool manufacturers. As part of this strategy, FORESIGHT offers the CuSuite 3.0 series, the industry's leading copper solution delivery system.

The CuSuite 3.0 is a safe, reliable and proven copper solution delivery system. The system has been designed to allow maximum process tool uptime by eliminating plating solution delivery variability. The CuSuite 3.0 is designed as a complete multi-process tool delivery system controlled via built-in central monitoring that automatically responds to the needs of up to 4 the process tools. The industry leading availability, over 99%, allowing engineers to concentrate on plating wafers, not on delivery of solutions.

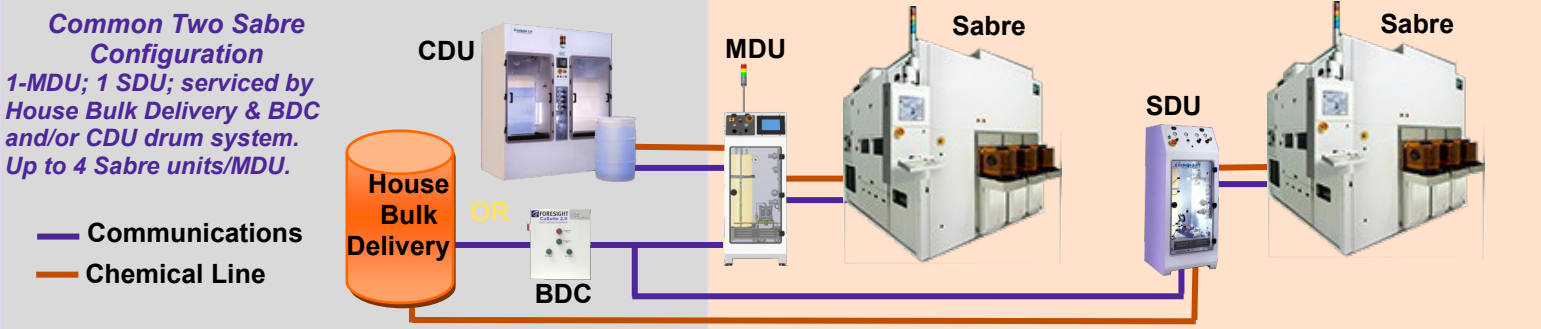
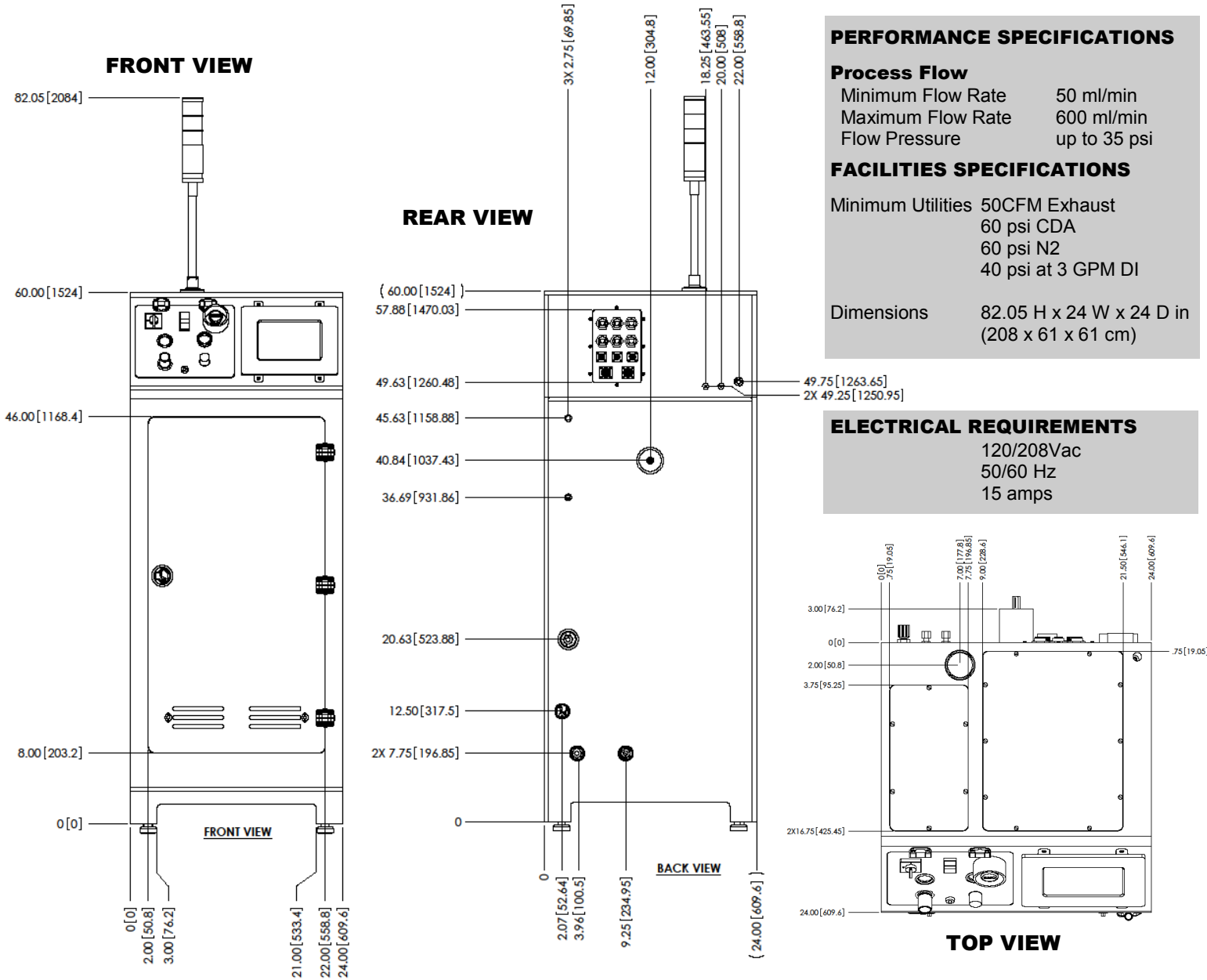
Central to the CuSuite 3.0 system is the Master Delivery Unit, or MDU. The MDU allows the entire CuSuite 3.0 system to be integrated into a single, centrally monitored control point along with being the delivery point for a copper process tool. The MDU controls the functions of up to three Satellite Delivery Units (SDU) and the functions of the two 200L drum Chemical Delivery Unit (CDU). The MDU uses a color touch screen to graphically display the operations and status of the entire system. Typically, the MDU is installed near the plating tools for convenient operator access and auto-configures to all CuSuite systems.

As a chemical delivery tool, the MDU provides a constant flow of copper plating solution at a constant pressure through its on-board pressure vessel. When the MDU is networked to the Chemical Delivery Unit, the pressure vessel is automatically filled from the Chemical Delivery Unit, then the MDU provides a smooth even flow of plating solution to the process tool when required. The 4.5 gallon pressure vessel also allows for additional capacity to the CDU, in the unlikely event that plating solution was not available. The small size of the MDU allows for installation in close proximity to the plating tool while occupying as little floor space as possible.

The MDU has extensive safety features including automatic sensing for warning and shutdown. It is Semi S2-0200 and S8 compliant. The MDU has been designed to meet National Electric Code, National Fire Protection Association and CE compliance.



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