



CONVAC S4 Main Screen.

The **CONVAC S⁴ Suction Side Stability System** combines the LNV bypass valve with a new and improved control system. **CONVAC S⁴** allows for unprecedented control of the dredge system variables which results in improved production, constant flow and reduced production costs. Features of the new control system include:

Color touchscreen operator interface with Vacuum, Velocity and Discharge displays. Multiple screens include the Main Screen with analog sweep indicators, System Setup, System Information, Configuration Management, Diagnostics, Trending and optional Digital Displays.

Cavitation Killer pump cavitation detection technology continuously monitors the discharge pressure and responds instantly to pump cavitation. The system uses a continuously calculated cavitation point (CCP) to automatically adjust to changes in the discharge side of the dredge system.

Dynamic vacuum setpoint technology adjusts the vacuum setpoint as required to maintain the desired system velocity. This feature allows the system to maintain precise control by continuously making small adjustments.

Individual sensitivity and speed controls provide the flexibility to configure the **CONVAC S⁴** response to match the flow characteristics of the dredge system. The system variables are easily recalled and managed using the Configuration Management screen.

Four operating modes, Automatic, Full Close, Full Open and Manual. In manual mode the bypass valve can be positioned at any point between closed and open.

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