Manufactured in ISO 9001 Certified Environment, J-Trol™ controls feature Allen Bradley and other leading components for guaranteed performance under the most difficult conditions.
**Automatic Pump Control System (APCS)** automatically controls the filling cycle, gradually increasing the feed pressure of the slurry feed pump to ensure a uniform formation of filter cake in the filter plate chambers. The uniform cake formation enhances the dewatering of the incoming slurry. The APCS includes a hydraulic pressure safety device that shuts down the feeding cycle if a loss in hydraulic pressure occurs. The APCS-EH model includes controls to open and close the filter press, in addition to controlling the filling cycle.

**J-TROL™ CONTROLS: THE RIGHT CONTROLS FOR THE JOB**

For larger, more sophisticated filter presses, the Master Operating Control System (MOCS) provides fully programmable controls, with a 10" HMI touch screen. MOCS is the most advanced press operation system in the industry, assuring optimal and automatic feed pressure adjustment, cycle frequency, cake discharge, cloth wash and air blowdown.

**CLOSED-FACE CLOSURE SYSTEMS**
- Electric Hydraulic Closure - Press open/close
- Continuous Chain Shifter (Electric) EH Only
- Electric Hydraulic Closure Motor - 1.5, 10 HP EH Only

**PLATE SHIFTERS**
- Reciprocating Chain Shifter (Electric)
- Plate Topper
- Continuous Chain Shifter (Electric) Hi-Speed

**CLOTH WASHER**
- High Pressure Cloth Washer (Automatic)

**DIRT TRAYS**
- Automatic Parts - Single Set

**AUTOMATED MANIFOLDS**
- Air Flow (inlet valve)
- Core Blow (inlet and outlet air valves)
- Cake Wash (inlet valve)
- Precip (inlet valve)
- Extractor (inlet and outlet air valves)
- Cloth Wash (inlet & discharge valve)
- Double End Rinse (inlet valve)
- Slurry Rinse (inlet and outlet valves)

**MANIFOLD VALVE ACTUATORS**
- Automatic Valve Actuators (Air) DA
- Automatic Valve Actuators (Air) Spring Return
- Limit Switches on Auto Valve Actuators

**FEED PUMP CONTROLS**
- Customer-controlled feed cycle
- APCS - AOD Pump
- VFD Controlled Centrifugal
- VFD Controlled Positive Displacement

**INSTRUMENTATION**
- Feed Flow Meter (not for AOD Pumps)
- Residual (measure transducer test for AOD Pumps)

**INTERLOCKS**
- Hydraulic Clamp Pressure/Feed Pump Interlock
- Hydraulic Control Stations/Inlet Pressure/Process Interlock
- Instrument Air Pressure Interlock
- Process Water Pressure Interlock (Cloth Wash)
- Hydraulic Clamp Pressure/Squeegee System Interlock

**SAFETY**
- Panel Mounted E-Stop
- Safety Light Curtains (Idaho)
- Safety Light Curtains (Idaho)
- Wired Safety Pendant
- Wired Safety Pendant

**ANCILLARY EQUIPMENT**
- Oath (Air) Wash Skid/Pump On/Off
- High Pressure Oath Wash/Pump On/Off
- Cake Wash Rinse Skid/Pump On/Off
- Precip Skid/Pump On/Off
- Polyurethane Systems - Rinse On/Off
- Separate Skid for Kleenflex Frame - Pump On/Off

**OTHER CONTROL OPTIONS**
- Dry Cells
- DCS (described in 6-1 scope)
- Perimeter Actuation
- Control Voltage 24DC
- External 120 VAC receptacle for program ring
- External Ethernet connection on panel

**SYSTEM POWER DROP REQUIREMENTS**
- 600 VAC, 60 Hz
- 300 VAC, 60 Hz
- 480 VAC/60 Hz 3 ph

**ENCLOSURE MATERIAL OPTIONS**
- Main Control Panel
- NEMA 3 Painted Steel
- NEMA 4X Stainless Steel
- NEMA 4X Type 316 Stainless Steel
- High Voltage Enclosure
- NEMA 3 Painted Steel
- NEMA 4X Stainless Steel
- NEMA 4X Type 316 Stainless Steel
- Nemafield Junction Box
- NEMA 3 Painted Steel
- NEMA 4X Stainless Steel
- NEMA 4X Type 316 Stainless Steel