

# 1000XXX 24V DC Controls, Console Version

## Platinum 2.0 24V DC Console

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The existing Platinum 2.0 controls are based on a 24V AC platform and are a carryover from earlier control systems. Typical standard industrial controls are 24V DC, which makes components more economical and readily available. There are numerous hardware changes with the 24 V DC control system, however, the control interface is compatible with existing Platinum 2.0 machines and Hatchcom.

### Major Changes

1. 24 VAC components removed
  - Transformers
  - AC coil Contactor
  - AC coil solenoid valves
2. Display Panel in complete sealed assembly
3. Disconnect switch now located outside of the console on the front
4. New Universal Power Supply – 200-500V AC / 24V DC
5. Upgraded to 12" from 10.4" LCD Panel
6. New Sensors/new mounting bracket
  - Temperature
  - Humidity
  - CO<sub>2</sub>
7. Special quick connectors for all sensors, solenoids and damper drives
8. New control board
9. Ethernet only access to Hatchcom, no Fibre Optic
10. Only one air valve for single depth or double depth incubators
11. Only 2 VFD models to choose from (220-1phase/3phase , 360/480-3 phase)
12. Wiring harness complete with markings and connectors
13. Two latches for lower console door
14. Revised control cabinet housing with increased water resistance

### Benefits

- Reduction of components used; fewer spare parts for customers to stock
- 24V DC Industry standard; parts are economical and readily available
- Display Panel Screen is integrated with panel assembly; less prone to water damage
- Easier to maintain and troubleshoot

## Console's External Parts

### Indicator Led Lights (Alarm & Bypass)

### 12" Display TFT LCD Panel

- Higher Resolution
- Integrated with Panel
- Sealed Display Panel

### Disconnect switch

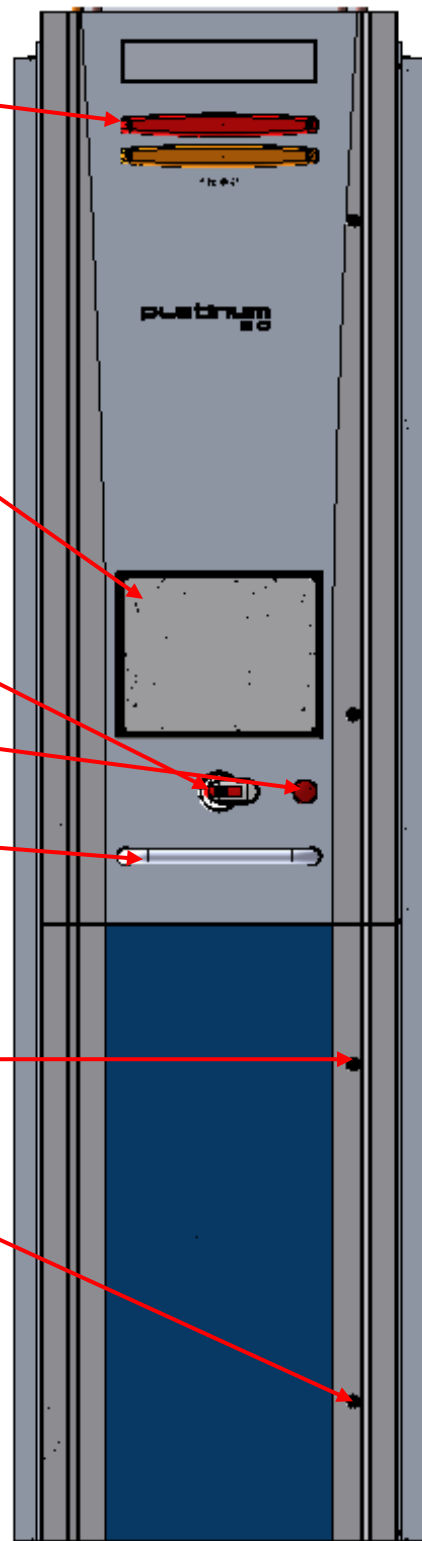
- Now mounted outside
- Mechanically interlocked

### Emergency Switch

### Revised Door Bumper

- Stainless steel barrier
- Document hanger

### Two Latches on each Lower Console Door



## Console's Internal Parts

### Turning Air Valve (New):

- Air Valve with 24VDC coil
- push in/pull out hose connectors

### Pressure Switch

### Microprocessor Board (New)

### Relay Board

- Used for E-stop, Alarms, Battery backup option

### Fan Contactor (New)

### In-Line Filter (New)

### Fan Circuit Breaker (New)

### Power Supply Unit (New)

- 24VDC, 120 Watts
- Autovolt 200-500VAC input

### VFD-230V, 3Phase (New)

Note: Specific to input voltage

### Disconnect Switch (New)

### Damper Drive (New) Not Shown

### Hot /Cold Water Solenoid Valve (New) Not Shown

