**Compressor Release Notes 10.51**

# Compressor

### Economizer Control/WEG

- Fixed an issue where the economizer output would not turn on when the Drive Type was set to SSW (Solid State WEG starter).

### WEG Starter Comms

- Fixed an issue where the motor amps would be displayed on the Quantum HD at 1/10th the actual amp draw. This only occurs under the following configuration/condition.
    - The Drive type is selected as "SSW" on the Package Configuration page.
    - The "Read Motor Amps From" parameter is selected as "SSW" on the SSW Starter page in Drive Configuration.
    - The starter size is 820 amp or higher.

    On all other starters, the communicated amp draw displayed on the Quantum HD is correct.

### Recip Compressor Control

- Added new features to the Recip package type. These include digital output control for Head Cooling, Oil Cooling and Separator Oil Return, VFD control for Recip compressors and updated oil safeties to match the requirements of Recip compressors.
- The Recip Starting logic was updated, allowing the Recip compressor to step load to 100% capacity immediately after starting. In previous versions there was a fixed delay after Starting before the Recip steps were allowed to load.

### Economizer Digital Output Override Message

- Added an "Override" message that is displayed when the differential pressure between discharge and suction is too low. This message indicates why the economizer digital output is not energized. The override message and logic are displayed in the Economizer parameter block on the Package Configuration page.

### Event Emails

- Fixed an issue where the message attached to a "Clear Recycle Delay" Event was blank.

### Email Notification

- Fixed issue where the "Send Notification" button was not working with User Defined settings on the Notifications Screen.

### Ethernet Port Blocking

- Added Ethernet ports "44818" (Allen Bradley Ethernet/IP) and "502" (Modbus TCP) to the list of blocked ports.

### RDB Compressor Setpoints

- Fixed an issue with the RDB package type where the RDB setpoints on the Configuration > Compressor page were being displayed off the page when all the options were enabled.

### Capacity / Volume Calibration Page

- Changed the heading on the upper left corner of the page to display "Capacity Slide".


**RELEASE NOTES FOR 10.50**

# Compressor

### Product Selection Banner

- Updated look and feel of product selection banner. Lowered product selection dropdown, updated dropdown text to "Product Selection" and made product name text display.

### Slide Valve Load Inhibit and Force Unload Messages Not Displayed

- The Load Inhibit and Force Unload Messages are now displayed on the Home page when the panel is in a Load Inhibit or Force Unload condition.

### Separator Heater Control

- When the Oil Pump type is set to "Full Time" and Oil Level Shutdown is Enabled, the Separator Heater output is now turned "Off" when the Oil Level Input is not energized. This aligns with the logic for No Pump and Demand Pump.

## Oil Level Safety

- The Oil Level Safety logic was updated to make sure that the Oil Level Safety is active if the package has an Oil Level Input. These Oil Level Safety changes now align with the Separator Heater changes.

## Alarm Output

- Added a selection to allow the Alarm Output to be setup for "Energized" or "De-Energized" with an Alarm.

## Portuguese (Brazilian) & Spanish Language

- Added Brazilian Portuguese & Spanish languages to the product.

## Email

- Fixed several problems with the Email features. They did not always work in prior versions.

## Watchdog Jumper Update

- When the watchdog jumper process is initiated to clear setpoints, all settings are returned to factory defaults.

## Compressor Overview - No Comms Message

- If there was a loss of comms between compressors, the wrong error message would display on Compressor Overview page.

## Product Scroll (System Networking)

- Allow page to scroll if there are more products than can be displayed on the screen.

## Security/Users Scroll

- Added ability to scroll through users when there are more users than can be displayed on the page.

## Software Upgrade Limitation

- Only allow upgrades to a newer version. Changing the program to a previous version is no longer allowed.

## Enhance Saved Setpoints

- When setpoints are saved, the product name and software version are included within the folder name.

### Language selection

- Fixed issue where language selection would not be sent to all connected products.

### Capacity Control Modes - Analog Aux inputs K-T

- For the Capacity Control Modes setup, the missing analog aux inputs K-T were added to the Control Input selection.

### Filter Differential on Home Screen

- The filter differential value was removed on the home screen if the filter differential check option is set to disabled.

### Separator Temp – Recip compressor

- The Separator Temp is removed from the Home screen if the Package Type is Recip and the Separator Temp input is Disabled (Analog Board selection is set to "None"). If the Package Type is not Recip, then the Separator Temp is always displayed on the Home page.

### Setpoint Restoration

- Addressed issue where several values would not transfer correctly from legacy setpoints.
  - Process Leaving and Entering Temperature board & channel assignments.
  - Filter Pressure Diff Check.
  - Soft E-Stop Operation (touchscreen) when user is not logged in

### Networking

- Fixed issue where networking would not be set correctly when restoring setpoints.

### Trending Select Data

- Made the Select Data lists for both Historical and Real Time Trending screens match.

### Recycle Delay for VFD or Vyper Drive

- If the Drive Type is set to VFD or Vyper Drive and the Recycle Delay option is Enabled, the Recycle Delay Timer is now displayed on the Home screen.

### Vilter Single Screw with Full Time Pump

- Updated the Vilter Single Screw logic to operate properly with a Full Time Pump, usually for a Booster Compressor. This includes changes to the pump logic and the oil safeties. With a Full Time Pump, the Demand Pump Stop CR and Demand Pump Restart CR setpoints are hidden on the Vilter Setpoints screen.

### Separator Velocity Reference Setpoint

- Increased the Separator Velocity Reference Setpoint High Limit from 100 to 150.

### Touchscreen Calibration

- Added Screen Calibration button to "System Configuration" menu.

### Digital I/O – Page 5

- Added missing Digital I/O – Page 5.


**RELEASE NOTES FOR 10.40**

# Compressor

Real Time Trending

- Fixed issue that caused a constant loading screen to appear in certain cases.

Home Page – Setpoint Button

- The Setpoint button now takes the user to the appropriate screen based on the current mode.

Bump Motor Unresponsive

- Fixed issue where the button Bump Motor was unresponsive.

Mapfile Enhancement

- The MapFile is now included when Setpoints are saved.

Stopping Enhancement
- To make an "Instant Stop" more obvious when stopping a machine manually, the "Instant Stop" selection was changed to state "E-Stop" and was made larger and colored RED size to make it an easier selection.

<u>Historical Trending</u>
- Changed wording from "Trending" to "Historical Trending".

<u>Sequencing</u>
- Enhanced this page to make external keyboard navigation more user friendly.

<u>Software Upgrade</u>
- Added message when no USB-Drive is detected.

<u>Motor Amps/VFD</u>
- Fixed issue where the CT value was not showing up correctly in certain circumstances.

<u>Alarms</u>
- Addressed various issues with Freeze Screen including adding new Analog Values to select from.

# Cross Product Communication

<u>Pressure Calibration – Pressure Resolution and Atmospheric Pressure</u>

- Added Atmospheric Pressure setting to all products
- The Pressure Display Resolution was added to handle special compressor applications. This was removed from other applications.

<u>Sub-Navigation (Tabs)</u>

- Sub-Navigation options are now a tab rather than just text.

<u>Alarms – Clear Safety History</u>

- Added confirmation of "Are you sure you want to clear the Safety History?" when clicking the Clear Safety History button.

<u>Networking</u>

- Added a "Add Factory Card" feature that allows you to commission a card on the Unity System where the Unity System's Gateway has been altered from the original settings.
- You can now successfully restore Setpoints on a panel where the Unity System's Gateway has been altered from the original settings.
- You can now successfully perform a system upgrade on a panel where the Unity System's Gateway has been altered from the original settings.

**RELEASE NOTES FOR 10.31**

**Compressor**

- Added the "Vyper Info" tab & screen that was missing in ver. 10.30 when a Vyper (RAM) is selected as the drive type
- Rearranged the layout of the Drive > Vyper > Cooling screen to capture all displayed values on the screen
- Corrected an issue where the IP address of the panel is corrupted when the IP address is reset to a default  by connecting pins 7-8 jumper of the JP1 jumper on the comms interface board (the default is 192.168.0.170)
- Added spaces to the beginning of a wrapped line in a comms log files
- To properly capture analog data in the "System Data Download", the process for doing this was reverted back to the previous process where all analog input values (configured or not) are included in the created spreadsheet when a "System Data Download" is executed


**RELEASE NOTES FOR 10.30**

**Compressor**

- Transitioned Quantum HD compressor program to the "Unity" framework
- implemented the ability to communicate with the WEG SSW-06 and SSW-07 Soft-Starter devices
- Corrected an issue dealing with the conversion of Hg (negative) pressures when the Atmospheric Pressure was set to something other than 14.7 PSI
- Corrected an issue where the units were not being displayed correctly for the
- Setpoint and Actual data on the title bar when an Analog Aux input is selected as the capacity control input
- Changed code to set the output for the superheat control outputs to 0% when one is disabled
- Corrected an issue where upon power up  the IP address would reset  to 192.168.0.170 and the processor would reboot if a jumper is detected on JP1 pins 7 & 8 of the Communications Interface board.
- Corrected an issue where the IO integrity Check logic did no catch certain conflicts in I/O configuration