

# Quantum HD Unity Evaporator Control OS Release Notes

## (Latest to Earliest)

Version Q6 12.22

### **Ammonia to Refrigerant Change**

- Changed all items in the product that referenced ammonia to now say Refrigerant

### **Session Management**

- Fixed an issue where the webpage failed to refresh immediately after a user's session expired, causing users to mistakenly believe they were still logged in
- Changed session timeout behavior so that users are now logged out one hour after their last page navigation, rather than one hour after login
- Enhanced session handling to keep users logged in across multiple remote panels until they manually log out or let their session expire

### **About Screen – MAC Address**

- Added a field to the about screen to display the MAC address of the board

### **Security Updates**

- Applied several security updates

### **Advanced Network Settings**

- Fixed an issue that prevented users from setting the primary and secondary DNS to “8.8.8.8” and “8.8.4.4,” respectively, when changing the DNS for the first time

### **Touchscreen Calibration**

- Fixed an issue where touchscreen calibration would not save after power cycle
- Fixed an issue that would not properly allow the touchscreen calibration process to continue if the touchscreen cable was flipped

Version Q6 12.21

### **Security Updates**

- Applied several security updates

### **AcuAir Factory Card**

- Added AcuAir to the available products for the “Add Factory Card” process

### **Home Page System Operating Values**

- Increased the number of items able to be selected and displayed on Evaporator home page “System Operating Values” section

### **Upgrade File – Custom User Data**

- Fixed an issue that caused customer data such as users and settings to be reset after running an upgrade file

### **Report Notifications**

- Fixed an issue where the Factory 2 setting for sending Evaporator Reports through email was not working
- Added a notification if a scheduled Evaporator report is sent out without any data due to the report not having been generated yet.

## **Release Notes Q6 12.20**

### **Power Event Defrost Strategy**

- Implemented a new defrost strategy to revert to the bleed stage after a power event during any stage of defrost

### **Security Updates**

- Applied several security updates

## **Release Notes Q5 11.11 / Q6 12.11**

### **Software Upgrade – MD5 File Validation**

- Added a validation process to the software upgrade process to ensure a software upgrade package has not been corrupted or altered

### **Notifications – Mobile Phone**

- Implemented a toggle on the Security page to allow a user to optionally receive mobile notifications in addition to the standard email notifications for events and alarms

### **Notifications – Improved Failure Feedback**

- Added Event feedback notifying the user if and why a Notification Email failed to send

### **Security Improvements**

- Removed debug features

## **Common Release Notes Q6 12.10**

## **Evaporator**

### **Touchscreen Driver**

- Added a Q6 processor board (640D0198H02) touchscreen driver

## **Common Release Notes Q5 11.02 / Q6 12.02**

## **Evaporator**

### **Mode Scheduling**

- Fixed an issue on the Mode Scheduling page that was causing changes for Sunday to get copied to other Zones.

### **Digital Aux Output – Control Error**

- Fixed an issue that was causing the Digital Aux Outputs to not de-energize when the Control Input dropped below the Off Setpoint.

### **Ammonia Detection Alarms**

- Improved the descriptions of the default Ammonia Detection Alarms to be more informative.

### **Ammonia Sensor Selection Modal**

- Fixed an error that was causing the Ammonia Sensor Selection Modal to appear empty.

### **Ethernet IP**

- Fixed an issue that was causing the Ethernet IP process to not function correctly.

#### **System Data Download**

- Fixed an issue that could cause the panel to crash when downloading System Data.

#### **Unity Network**

- Added a Service level option to remove all remote Unity Network Panels from a product.
- Added a feature that preserves the local network settings when performing a Setpoint Restore.
- Changed the logic associated with resetting default setpoints via the dip switch/jumper to correctly restore the Port setpoint to the default.

#### **User Actions – Language Data**

- Added several missing phrases to the User Action logging and added support for translation.

#### **Freeze Screen Changes**

- Fixed several instances where custom names were not displayed correctly on the Freeze Screen generated by alarms and warnings.
- Improved the way Freeze Screen selection items are ordered so they are consistent with how they are displayed in the Freeze Screen output window.

#### **Keyboard Input Characters**

- Removed problematic symbols and characters from the software keyboard associated with naming and saving a Setpoint file.
- Added the “&” symbol to the list of illegal characters when naming a custom field.

#### **AcuAir Support**

- Added support for the AcuAir HD Unity product to function as part of the Unity Network system.

## Remote Software Update

- Fixed an issue with multi-product Unity System panels where updating a remote panel caused the screen to continue displaying a “Panel will reboot in 1 second” message instead of redirecting to the Overview screen.

## RELEASE NOTES FOR 11.01

### Auxiliary Analog Trending

- Fixed an issue several of the indexes for Auxiliary Analogs were not aligned with the trending selections which was causing inconsistencies with displaying trending data

### Daily Report Download

- Fixed an issue where the daily report was not saving on a USB drive if the drive was removed from the panel quickly after the operation appeared to complete

### Daily Report Email

- Improved the reliability of the daily report email that is sent out when reports are enabled

### Email Test Notifications

- Fixed an issue where the test notification would not be sent out correctly to the selected email addresses

### Auxiliary Analog Units

- Fixed an issue where the Auxiliary Analog Units field was not being added to the setpoint values when Other is selected as the units

### Keyboard

- Changed the keyboard used for text-entry to be more consistent across several products

## Load Shedding Overview

- Added the zone select modal to the Load Shedding Overview page when Load Shedding is enabled
- Removed information specific to the last selected zone from the Load Shedding Overview page

## User Actions

- Changed the User Actions to no longer record when a user switches between different zones

## Banner Values

- Fixed an issue where the zone setpoints in the banner were showing zero when on the User Defined page

## Clear Trending Button

- Fixed an issue where clicking the Clear Trending Data button appeared to have no effect. Logic was implemented to refresh the page after the operation is complete

## Email Notifications

- Enhanced the notifications email server to reliably send new events and alarms on a one-minute cycle as new events and alarms occur
- Combined the email notifications and group pages into one page to simplify managing notification configurations

## Analog Output – Added 0-10 Vdc option

- Added 0-10 Vdc as an additional sensor type for analog outputs

## System/Trending Data Download

- Changed the tabs on a downloaded System Data excel file so that the trending data tab appears first
- Provided the same System Data excel file to the user when Download Trending Data is selected on the Trending screen as when Download System Data is selected on the Service screen
- Included the data units in the column headings in a downloaded trending file

- Saved the trending data in a number format instead of a text format so that calculations can be performed on the data and the numbers can be easily graphed.

#### Pressure Resolution and Atmospheric Pressure

- Moved the Pressure Resolution and Atmospheric Pressure selections to be part of the System Overview pages allowing the value to be shared between products
- Fixed an issue where the Atmospheric Pressure setpoint was being truncated to a whole number

#### 500 Error Page

- Updated the 500 Error page to allow a user to return to the Menu in the rare case of an internal server error. Previously when this occurred, the user would have to reboot the panel.
- Fixed an issue where navigating to the Home page immediately after changing a setpoint value resulted in a 500 Error being displayed

#### Auxiliary Analog Input

- Fixed an issue where the panel would sometimes reboot if there is a space embedded in the unit fields of an Auxiliary Analog Input when the unit type is set to "Other"
- Adjusted the range of the High Limit and Low Limit setpoints of an Auxiliary Analog Input when the inputs' units are changed
- Fixed an issue where a user could type in custom units that were too long to display on the screen. The Units field is now limited to 8 characters.

#### Updated Product List

- Enhanced the Product List section under the Networking settings to separate the local panel from other connected panels

#### Trending

- Enhanced Trending to support up to 10 trending selections at one time
- Fixed an issue where the Reset Zoom button would appear in the middle of the trending graph

#### Freeze Screen Update

- Updated the Alarms page to now have a "Freeze Data" button that will display a modal with the data values captured when the alarm occurred
- Enhanced the Freeze Screen modal to show more data and corrected instances where the wrong text index was being displayed

#### Select Data Pages – Trending, User Defined and Control Input

- Updated the select data pages to be sorted and displayed consistently throughout the application

#### Panel Time

- Removed an automatic service that was causing the panel time to be reverted after rebooting while connected to a network with internet access
- Added a dropdown for the user to select a time zone
- Changing the date format from US to European format will now update the date fields on the screen to be shown in the correct order

#### Communication Log

- Fixed the communication log located in the “Status” section of the application to no longer ignore the most recent item in the log

#### Touchscreen Calibration

- Added a modal to be displayed after the user performs a touchscreen calibration indicating the result of the calibration. If calibration fails for any reason, the user will be prompted to retry

#### User Actions – Clearing Alarms

- Changed the description of the user action that is generated when a user clears an alarm to be more informative about the action that took place

#### Restoring Setpoints Files

- Changed the restore setpoint process to no longer consider zipped setpoint folders in the list of recognized files

#### IO Conflicts

- Fixed an issue where generating an IO conflict would cause the new channel information to revert to the previous value

#### Temperature Units - Spelling

- Corrected the spelling of the word “Celsius” in the Temperature Units selection on the Panel page

#### Deleted Saved Setpoints

- Enhanced the “Delete Setpoints” operation to no longer require the server to be restarted

#### Software Upgrade - Reboot

- Changed the software update process to require a reboot due to significant system level changes

#### Remote Trending - Time

- Changed the date and time displayed on the trending graph when viewed remotely to now align with the system time on the panel

#### Analog Output Modal

- Fixed an issue where the modal for Analog Outputs was not consistent with other modals throughout the application

#### User Email Validation

- Added standard email validation when a user enters an email address which will detect invalid entries

#### Contacts Page

- Changed the Contacts Page to be distributed between all connected products

#### Panel Disconnect Indication

- Added a message to be displayed to the user after losing connection with a panel that is being viewed remotely. This process will alert the user if the connection is lost to a remote panel, but in this version, it is not able to detect if the remote panel is powered down.

## Remote Users Page

- Fixed an issue on the Remote Users page where expired sessions were not being removed from the Sessions List

## RELEASE NOTES FOR 11.00

### Evaporator Zone Names

- Changed the name of the zones in notification emails to reflect the User Defined name.
- Updated the modal on the “Report” page to use the User Defined name for zones.

### Global Digital IO

- Fixed an issue that prevented the Main Hot Gas IO from being re-assigned under the “Global Digital IO” page

### Email - SMTP Factory Settings #2

- Fixed an authorization mismatch that caused emails and notifications using the Factory Settings #2 option to fail to send

### Add Factory Card Page

- Fixed an issue preventing a user from opening the System Overview menu modal while accessing the Add Factory Card page

### Panel Temperature Selection

- Fixed an issue where changing the temperature units from F to C or C to F was not distributed to all products within the Quantum HD Unity Network

### Panel Pressure Units

- Added kpaG as an option to the pressure units dropdown on the panel page

### Setpoint Maintenance

- Established the length of a Saved Setpoints filename, preventing the Submit button on the Restore Setpoint page from being pushed off the page
- Added a check to prevent the entering of invalid characters while saving a setpoints file that caused the save function to fail

### Clean Screen Timeout

- Changed the default timer for the Clean Screen feature from 1 minute to 30 seconds • Changed the units for the Clean Screen timer to be seconds rather than minutes

### URL Field

- The URL field has been removed from the Edit page in the product list

### About Screen

- Added additional fields to the “About” page that shows the board type, distinguishing between Q5 and Q6 processors
- Added range checking to the Sales Order Number and Item Number fields on the “About” page to ensure the numbers entered are valid
- Changed the card field to now display the storage architecture being used in the system

### Network Restore

- Fixed an issue where the network settings were not changed to default values after performing a network restore via the DIP switch

### Security - Restore Default Users

- Added a feature that automatically Logs Out a User if they choose to restore default users while not logged in as one of those groups

### Security Users

- Fixed an issue where a default user level (Basic, Operator or Service) could be deleted if it was first moved to another user level
- Added code that requires a new Security User to have a PIN code before they can be added to the list of users
- Added code preventing the loss of the PIN code when editing a Security User

### Remote Users Page

- Added a “Session List” to the Security page that allows a user (local or remote) to see other users who are or have been remotely logged in to the panel

### Number Entry

- Added code to make the displayed keypad consistent when clicking on a setpoint field in an unexpected way

### On Screen Keyboard

- Corrected the Shift and Caps Lock functions on the on-screen keyboard

#### Network Configuration

- Added a check that prevents the entering of invalid network configurations which cause the controller to malfunction.

#### IP Address Range

- Added a check that prevents the entering an invalid IP address and port number which causes the controller to lose connectivity with other Quantum HD Unity products

#### Compressor Overview

- Fixed an issue on the System Overview page where a Unity product in “Shutdown” was incorrectly shown as being in a “Warning” state

#### Remote Auto Login

- Fixed an issue where Auto Login failed when the Quantum HD Unity network contained more than one compressor controller

#### Networked Product O.S. Version Message

- Changed the Network List page updating the message requiring all Unity products to be O.S. version 10.40 or later

### **RELEASE NOTES FOR 10.51**

#### Missing Report Data

- Fixed an issue where reports were not generated with the correct values when the trending interval was changed from its default value of one minute.

#### System Operating Values

- Fixed an issue that occurred when attempting to add a System Operating Value to the home page where the screen would turn white and the server would become unresponsive.

#### Liquid Run Timer

- Fixed an issue where the Liquid Run Timer was not updating properly when the Evaporator temperature was between the Liquid On and Liquid Off setpoints.

### Refrigerant Sensor Naming

- Fixed an issue where the user could enter non-unique sensor names on the Global Refrigerant Detection screen.

### Alarm/Event Notifications

- Fixed an issue where alarms and event emails would stop sending.

### Mode Scheduling

- Fixed an issue where changing the mode dropdown value on the Mode Scheduling page was not updating correctly and displaying incorrect values.

### Ping Command

- Changed the Ping Command function on the Diagnostics Page to now display the entered IP address and to execute the ping when the corresponding button is pressed.

## **RELEASE NOTES FOR 10.50**

### Watchdog Jumper Update

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

### No Comms Message

- Fixed issue where if a loss of comms occurs, 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.

### 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, folder now includes product and software version name in name.

### Security/Users Scroll

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

### 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.

### Portuguese (Brazilian) & Spanish Language

- Added Portuguese & Spanish languages to the product.

### Language change on all products

- Fixed issue where language would not update on all connected products.

### Range limit for Ammonia Sensor Inputs

- Increased the High Range on the Analog I/O config for Ammonia inputs to 20,000 PPM to align with the Engine Room control range.

## **RELEASE NOTES FOR 10.40**

### Zone Operation State

- Fixed issue where If the user is logged out, the Operation value (Off, Cooling, Defrost, Satisfied, etc.) now updates when navigating between zones.

### Start Defrost button

- The Start Defrost button is now disabled if the user is not logged in or if the Zone Active / Off status is set to Off.

### Heating - Current Stage

- When on the Home page and the zone goes into Heating mode, the Current Stage now updates from Off to Pump Out.

### Home Page – Mode Control Error

- Fixed issue with mode control logic.
- Fixed confirmation modal to give the option to select Yes or No.

## Cross Product Communication

### Pressure Calibration – Pressure Resolution and Atmospheric Pressure

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

### Sub-Navigation (Tabs)

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

### Alarms – Clear Safety History

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

### Cont’d

### Networking

- 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 10.32

- Implemented the zone data (temp) reporting feature (via E-mail)
- Fixed issue where trending data and column headings did not match up properly in the spreadsheet created for download
- Fixed issue where the column heading names were incorrect for auxiliary analog inputs
- Added logic to clear all trending data on command (Service level)
- Changed logic to generate a High or Low Temp warning for a zone only if the zone is active (running)

- Fixed issue where Low Temperature Alarms would occur even when the Evap Temp was within the proper temperature. This happened when the "Zone Active/Off" setting was set to Off. If the Zone set to Active, the Low Temp alarm functions correctly
- Fixed Soft Hot Gas option where setpoints should be hidden if Soft Hot Gas is disabled.
- Fixed setpoint issue on Zone Heating Page for zones 2-30 if enabled where the incorrect values were displayed
- Added code to ensure that zones stay in order on System Overview

#### RELEASE NOTES FOR 10.31

- Implemented a Defrost Termination signal, initiated by either a push button or digital input
- Corrected issue where sales order number was being incorrectly formatted for the HMI if the 4th digit happened to be 0
- Added more spaces to the beginning of a wrapped line in a comms log file

#### RELEASE NOTES FOR 10.30

- Corrected an issue where upon power up, the IP address would reset to 192.168.0.172 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 not catch certain conflicts in I/O configuration
- Corrected an issue dealing with the conversion of Hg (negative) pressures when the Atmospheric Pressure was set to something other than 14.7 PSI
- Changed timer data to be displayed in the format of [mm:ss]
- Corrected an issue whereas the Evaporator controller would boot directly to the Home screen rather than the System Overview screen when not connected to any other controller (Ethernet)
- Enabled text entry with physical keyboard