MONTANA INSTRUMENTS®

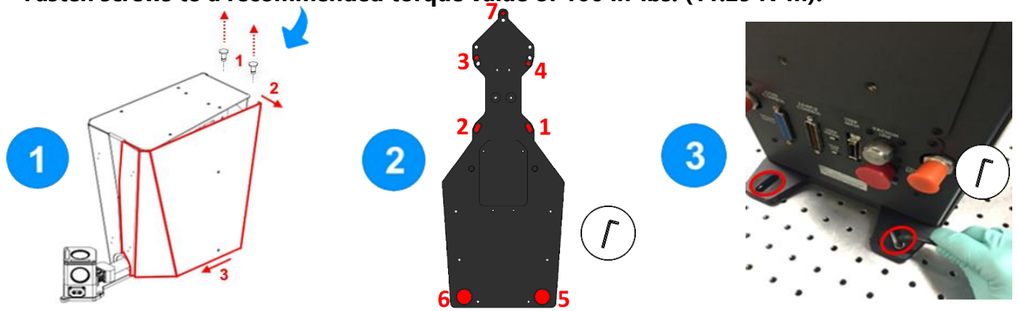
CryoAdvance®

QUICK START

MOUNT CRYOSTATION TO OPTICAL TABLE

1

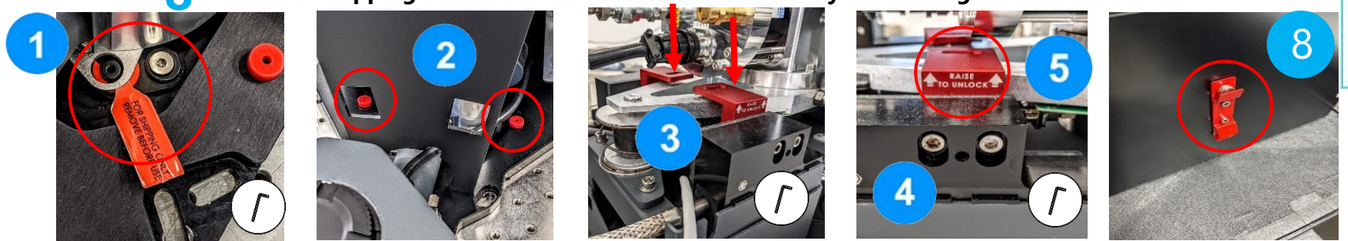
1. Remove thumbscrews and then remove side covers.
2. Mount Cryostation to the optical table using bolt pattern depicted.
3. Fasten screws to a recommended torque value of 100 in-lbs. (11.29 N-m).



REMOVE SHIPPING SUPPORTS

2

1. Locate the red C-spacers on either side of the connection point between the sample chamber and cryocooler (two total). Unscrew the M3 screws.
2. Remove the red caps then pull out the red tab and remove C-ring.
3. Locate the red shipping support brackets. Using a 5mm Allen key, remove the M6 x 14mm screws on the top of each bracket. Store these screws and washers in the accessory kit.
4. On the side of the shipping support, locate the two M5 screws holding the bracket in place. Using a 4mm Allen key, loosen these screws but do not remove them.
5. Slide the shipping bracket (red) up so it is no longer touching the silver tri-flange. Holding it in place, re-tighten the two M5 screws to secure it in this unlocked position.
6. Repeat steps 2.4 and 2.5 for the other shipping support.
7. Replace the exterior side covers (Refer to step 1.1).
8. Remove shipping brackets from Vacuum Control unit by unscrewing the four M5 screws.



CONNECT HOSES AND CABLES / POWER "ON" SYSTEMS AND COMPRESSOR

3

1. **WARNING! CONNECT ALL POWER, COMMUNICATION AND FLUID LINES PICTURED BELOW BEFORE POWERING ON SYSTEMS AND COMPRESSOR. If dry nitrogen is connected, verify that the pressure is set to 10-100 psi MAX. 50-100 psi MAX for turbo-equipped systems.**
2. **WARNING! THE GREEN ROCKER SWITCH ON THE FRONT OF THE COMPRESSOR SHOULD REMAIN OFF (I | O).**
3. **Toggle the 20A Breaker switch on the front panel of the compressor ON (I | O) (QD compressor only).**
4. **Initialize power to the vacuum control unit by toggling the power switch on the back of the unit ON (I | O).**
5. **Initialize power to the system control unit by toggling the power switch on the back of the unit ON (I | O).**
6. **Turn on the system control unit by pressing the power button on the front of the unit (Power button will glow when the unit is on).**

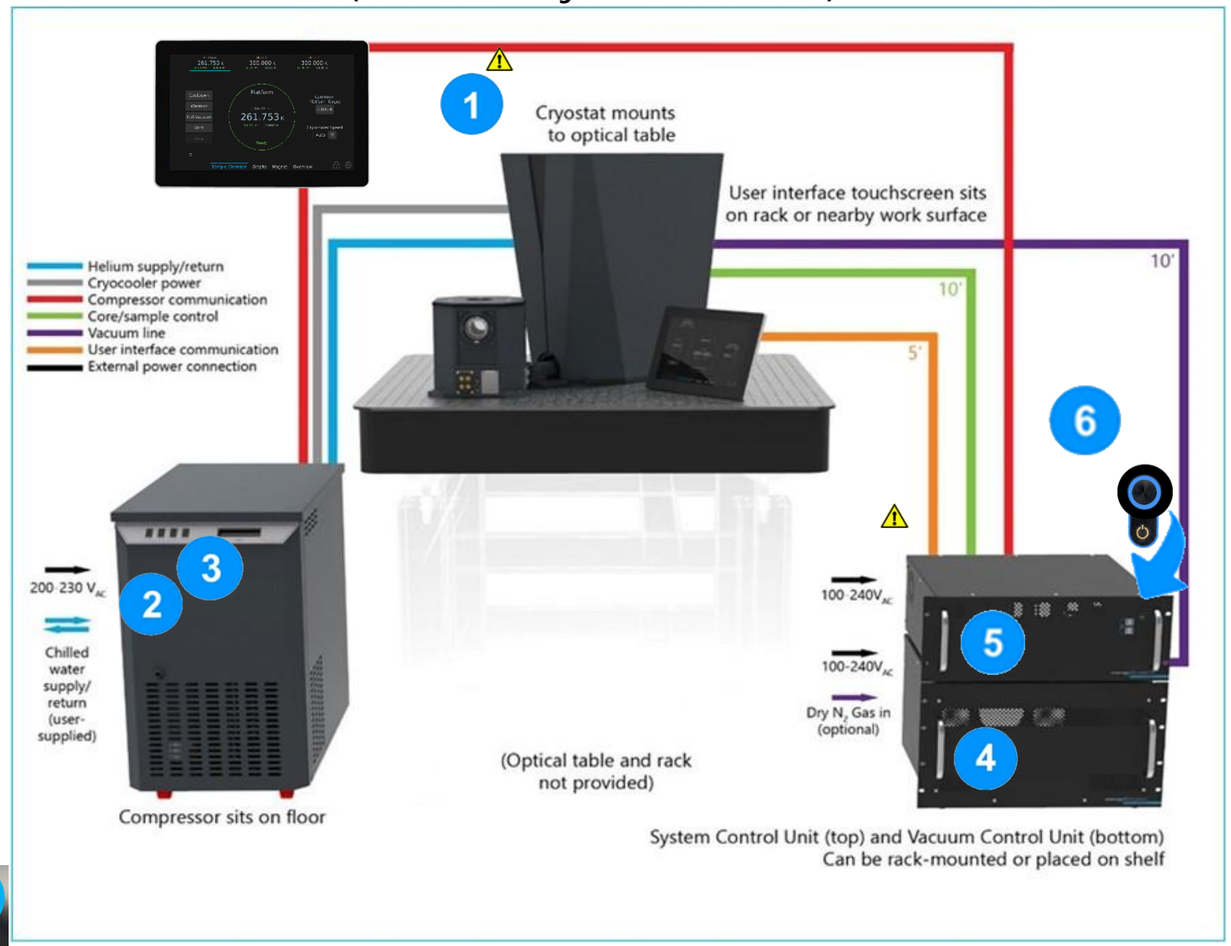


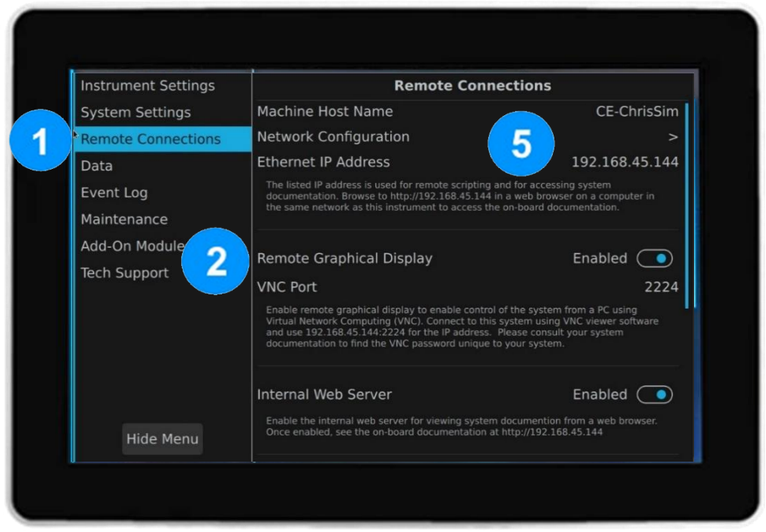
Figure 1: *Cryostation relative system layout, QD Compressor*
Note your exact system may differ cosmetically.
Note that chilled water applies to Water Cooled Compressors only.

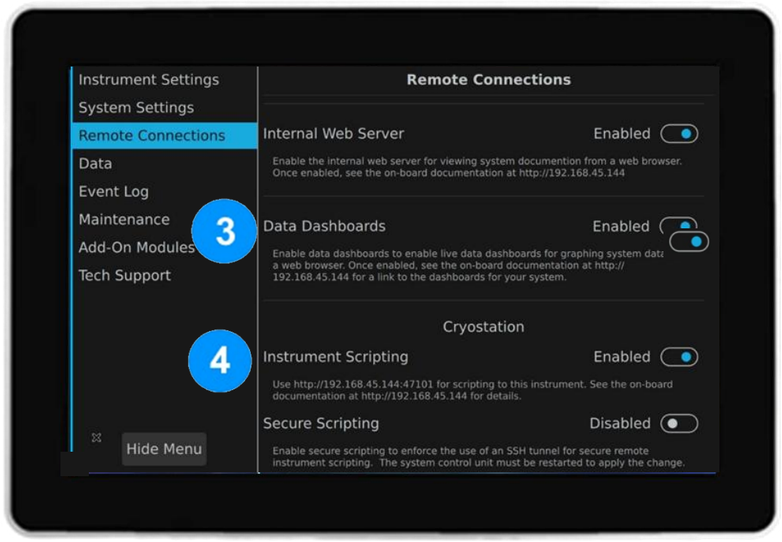
For more equipment user documentation: https://www.montanainstruments.com/support/product-documentation

ENABLE REMOTE CONNECTION

4

1. **To enable Remote Graphical Display and various connection capabilities navigate to: Menu > Remote Connections.**
2. **Toggle the Remote Graphical Display switch to Enabled.**
3. **Toggle the Data Dashboards switch to Enabled.**
4. **Toggle the Instrument Scripting switch to Enabled.**
5. **Scroll to find the system's unique IP and MAC addresses.**
6. **Type your system's IP address into a web browser to access scripting examples and other useful system documentation.**





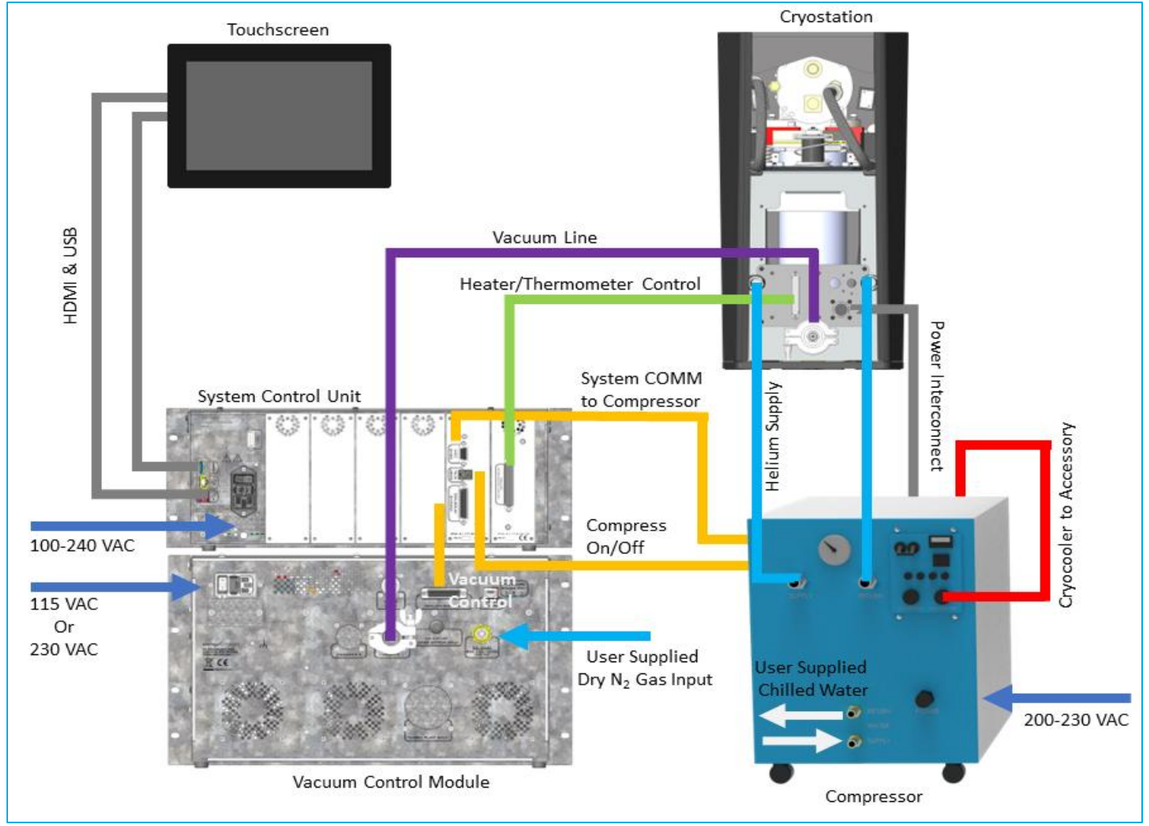


Figure 2: *Cryostation relative system layout, SHI Compressor*
Note your exact system may differ cosmetically.
Note that chilled water applies to Water Cooled Compressors only.

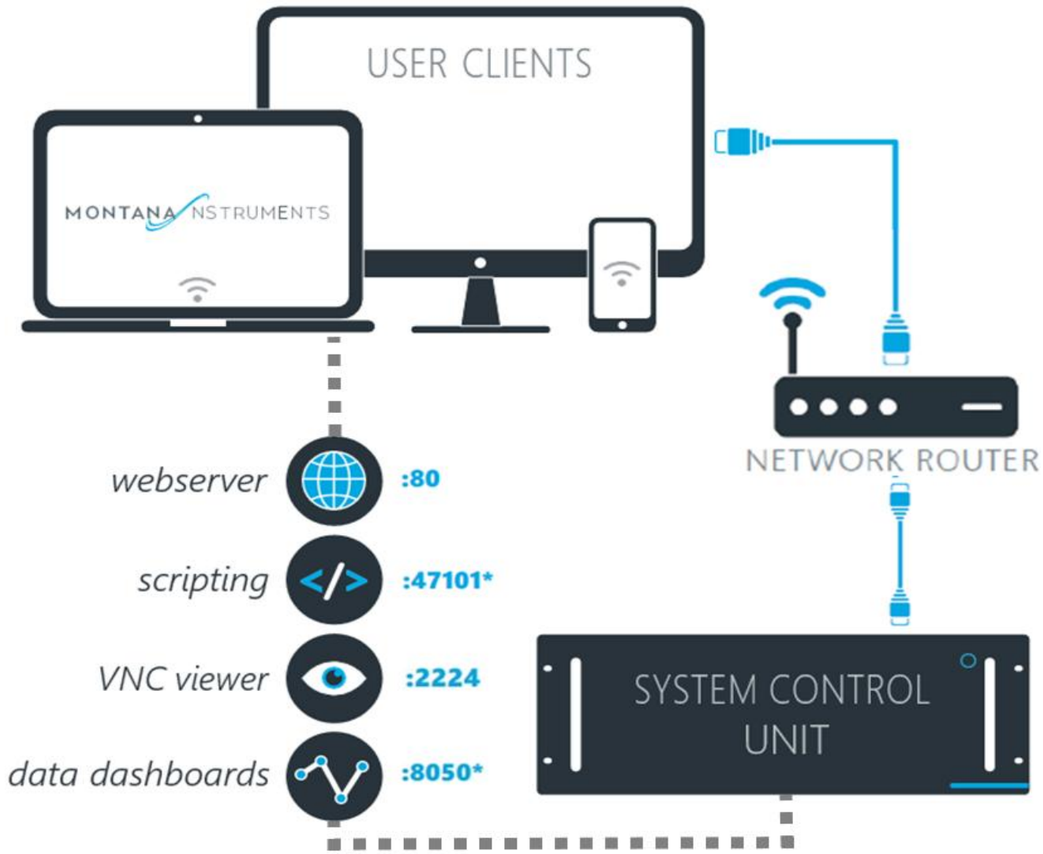
5

Connection to a network is optional for Cryostation operation, but will be required for remote access, control, and viewing. To utilize any of the provided network services, the system control unit must be connected to a local network using the Ethernet port on the rear face of the enclosure. Each service uses a different network port number for communication which may need special firewall access.

YOUR IT DEPARTMENT MAY NEED TO CONFIGURE YOUR NETWORK TO PROVIDE NETWORK ACCESS TO THE DEVICE.

To find your system's IP or MAC address:

- Refer to section **4.5** (Enable Remote Connection).
- On the touchscreen UI, navigate to Menu > Remote Connections > Network Configuration.



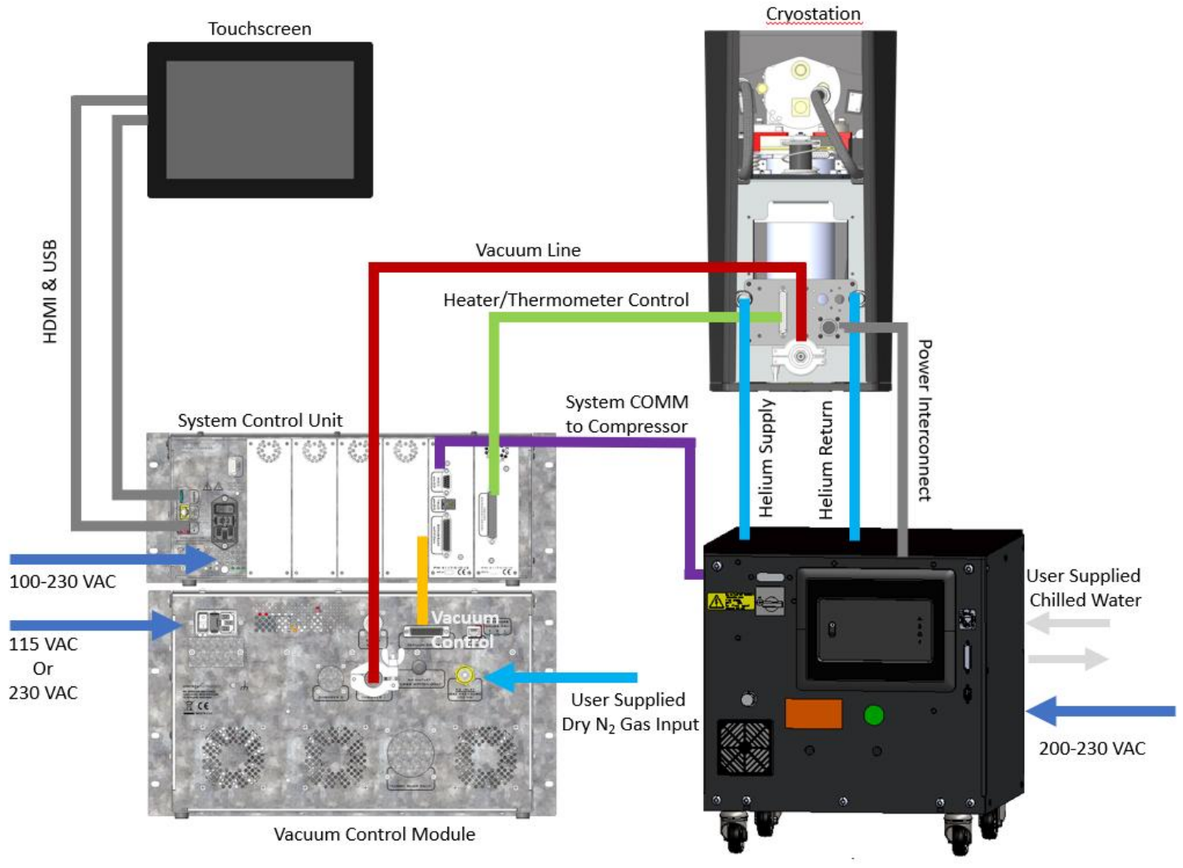


Figure 3: *Cryostation relative system layout, Leybold Compressor*
Note your exact system may differ cosmetically.
Note that chilled water applies to Water Cooled Compressors only.