

Installing the chiller hose retrofit kit

This document provides instructions on how to replace a Teyu CW6200 chiller with an SMC HRS-040 chiller unit while keeping the existing Teyu CW6200 hoses. Complete this replacement on existing CP4440-RGB, CP4445-RGB, CP4450-RGB, and CP4455-RGB projector installations.

Make sure both chiller units are disconnected from the projector and power.

Affected products

The following products are affected:

- CP4440-RGB
- CP4445-RGB
- CP4450-RGB
- CP4455-RGB

Required components and tools

The following components and tools are required:

Required components

- Hose retrofit kit CW6200 (P/N: 163-189109-XX) which includes the following:
 - $\frac{3}{4}$ " barb to $\frac{1}{2}$ " FNPT fittings—quantity 2
 - Gear clamp—quantity 2
 - Sealant tape
- Teyu CW6200 chiller hose (existing)
- Teyu CW6200 chiller unit (existing)
- SMC HRS-040 chiller unit (P/N: 163-186106-XX)
- SMC HRS-040 chiller assembly kit (P/N: 163-185105-XX)

Required tools

- Hose cutter
- Pair of adjustable wrenches (up to 38 mm)
- #2 Phillips screwdriver

- Protective gloves
- Safety glasses
- Large bucket to drain coolant
- Sealable container for waste coolant (up to 30 L)
- Liquid spill kit

Draining the chiller and hoses

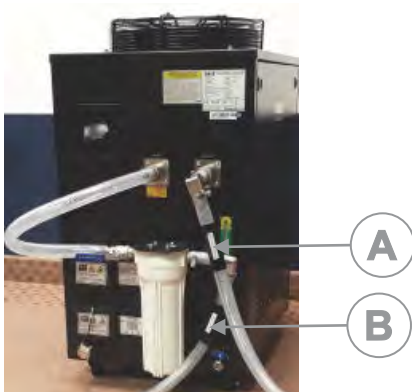
Follow this procedure to drain the Teyu CW6200 hoses.

1. Make sure the chiller and projector are powered off.
2. Screw the hose barb into the threaded section of the chiller drain port. Firmly press one end of the 3/8 inch hose over the barb.
3. Place the other end of the hose at the bottom of a large bucket.
4. Open the valve on the drain port and allow the coolant to drain. If flow is slow, remove the reservoir cap to allow air ingress.
5. Close the drain port.
6. Drain the 3/8 inch hose.
7. Drain the filter attached to the Teyu chiller.
8. Remove the hose barb from the chiller drain port.
9. Remove the coolant from the site in a properly labeled UN-rated container. Observe all environmental laws and regulations for proper disposal.

Cutting the hoses

Follow these procedures to cut the Teyu CW6200 hoses.

1. Cut the hose connected to the Outlet of the chiller (A in the image below).



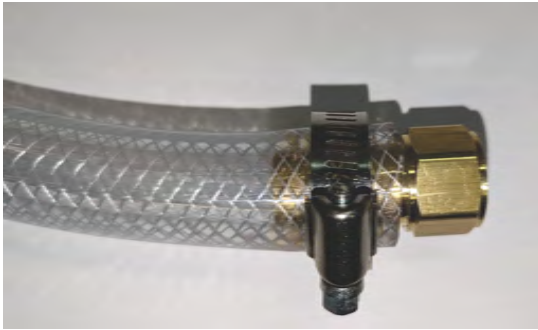
2. Cut the hose connected to the filter (B in the image above).
3. Label the Chiller Inlet hose connected to the inlet return line as `Inlet Return Line`.

4. Set the chiller aside.

Adding the connections

Follow these procedures to add the fixtures and plugs to the existing hoses connected to the projector head.

1. Insert one of the $\frac{3}{4}$ " barb to $\frac{1}{2}$ " FNPT fittings to the cut end of a hose.
2. Secure the fitting in place using the gear clamp.



3. Repeat steps 1 and 2 for each hose.
4. Apply three to four rounds of sealant tape to the quick disconnect plug and quick disconnect socket, rotating in the opposite direction of the threads.
Make sure to leave the first thread at the end of the component free of tape.
5. Connect the male quick disconnect plug to the hose previously labeled `Inlet Return Line`.



6. Connect the female quick disconnect socket to the unlabeled hose.

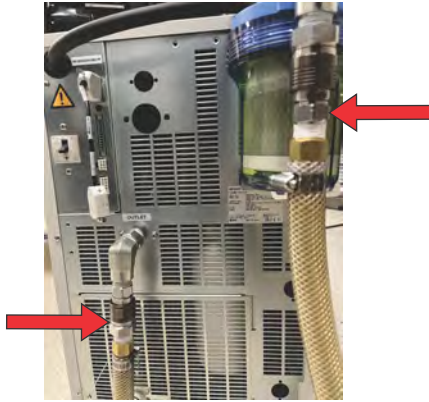


7. Secure all parts using an adjustable wrench.

Connecting the hose to the SMC HRS-040 chiller

Follow these steps to connect the assembled existing hoses to the SMC HRS-040 chiller.

1. To assemble the SMC HRS-040 chiller up to the hose installation, follow the instructions included in *Installing the SMC HRS-040 Chiller Instruction Sheet (P/N: 020-103867-XX)*.
2. Connect the assembled hose kit to the outlet and return port of the SMC HRS-040 chiller.
3. Connect the female quick disconnect (socket) to the male quick disconnect (plug) until a click sounds.



4. To fill the chiller with coolant at the tank inlet and turn on the chiller, follow the instructions included in the *Maintaining Chiller Coolant Levels Instruction Sheet (P/N: 020-103450-XX)*.

Technical support

Technical support for Christie Cinema products is available at:

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