

Installing and setting up the Teyu chiller

These instructions provide steps to install the Chiller Setup Kit Plumbing (P/N: 163-149105-XX) and Chiller Setup Kit Air Ducts (P/N: 163-150107-XX), which are integrated into the Teyu chiller for all CineLife+ RGB PLF projectors.



Before running the chiller, make sure the chiller reservoir is filled with the required coolant. Never operate the chiller before adding coolant.

Affected products

The following products are affected.

- CineLife+ RGB PLF projectors using the Teyu 6200 50 Hz chiller

Prerequisites

The following components are required.

- Chiller Setup Kit Plumbing (P/N: 163-149105-XX)
- Chiller Setup Kit Air Ducts (P/N: 163-150107-XX)
- Funnel Flex Neck kit (P/N: 163-188108-XX)

Required Tools

The following tools are required.

- #2 Phillips or flat head screwdriver
- 3 mm screwdriver
- Self-tapping sheet metal screws
- Liquid Spill kit

Unpacking the funnel, chiller plumbing, and air duct kits



Do not dispose of the chiller accessories box marked "Industrial Chiller Accessories". Keep the box and its contents (a fuse and a ball valve handle) for potential future use.

Open the Chiller Setup Kit Plumbing (P/N: 163-149105-XX) and make sure the following contents are present:

- Ten (10) worm gear clamps (P/N: 000-109325-XX)
- Two (2) 75-mm hoses (P/N: 000-109320-XX)
- One (1) 760-mm inlet hose (P/N: 012-103791-XX)
- One (1) 11000-mm outlet hose (P/N: 000-109323-XX)
- One (1) 11000-mm inlet hose (P/N: 000-109322-XX)

Open the Chiller Setup Kit Air Ducts (P/N: 163-150107-XX) and make sure the following contents are present:

- One (1) 303-mm chiller duct (P/N: 011-109128-XX)
- One (1) 198-mm chiller duct (P/N: 011-109164-XX)
- Kit hardware (P/N: 000-109284-XX)

Open the Funnel Flex Neck kit (P/N: 163-188108-XX) and make sure the following contents:

- One (1) funnel (P/N: 002-121822-XX)

Attaching the plumbing accessories kit

Follow these steps to attach the plumbing accessories kit.



1. Attach the 760-mm inlet hose (P/N: 012-103791-XX) to the chiller **Inlet** port.



- a) Thread a worm gear clamp over one end of the hose.
- b) Firmly push the hose onto the **Inlet** port.



- c) Tighten the worm gear clamp over both the hose and **Inlet** port as shown in the photograph until the hose bulges slightly on either side of the clamp.

This level of tightness prevents leakage.

2. Attach the other end of the 760-mm hose (P/N: 012-103791-XX) to the filter canister outlet port as shown.



3. Attach the 75-mm outlet hose (P/N: 000-109320-XX) to the chiller **Outlet** port.



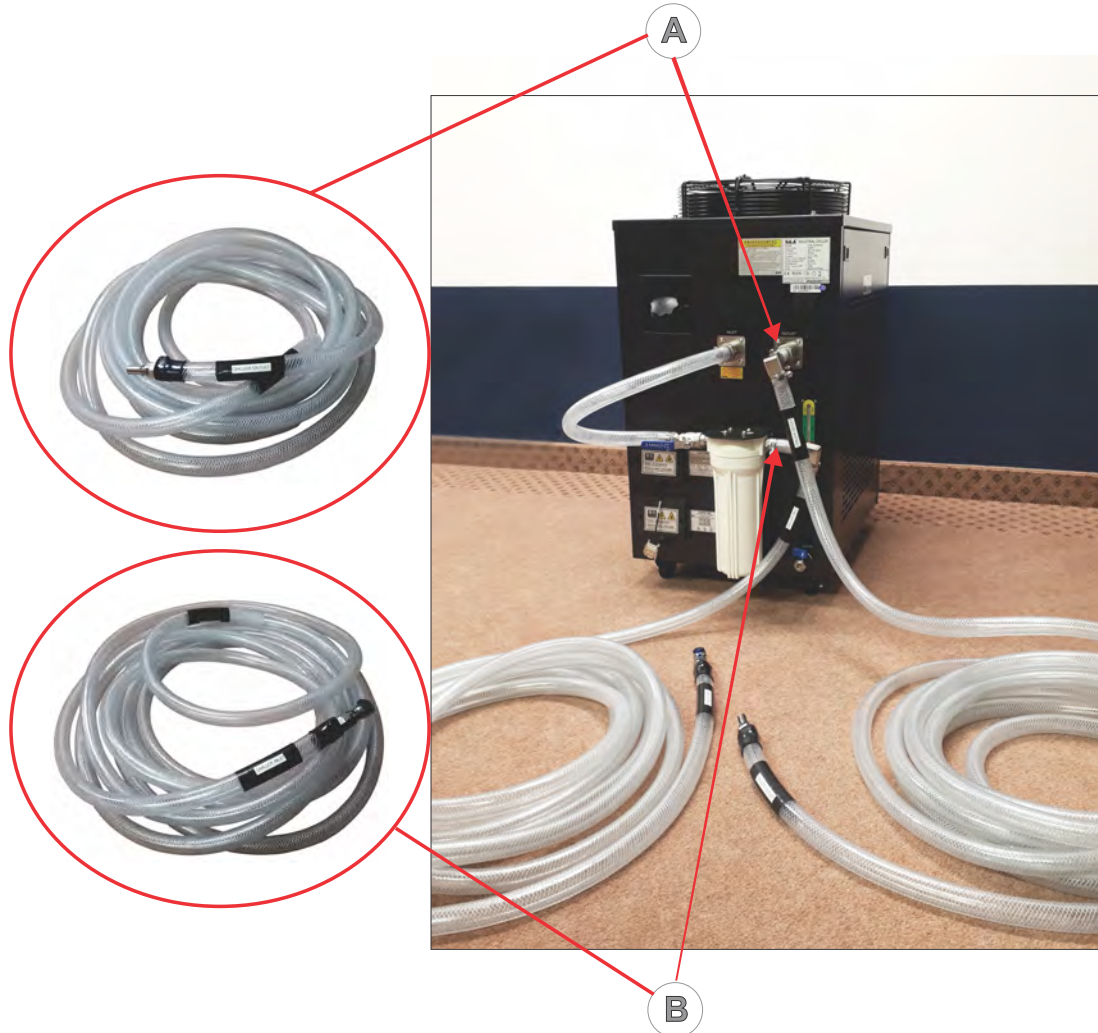
- a) First, thread a worm gear clamp onto the chiller end of the 75-mm hose.
- b) Then, firmly push the hose end onto the chiller **Outlet** port.
- c) Tighten the worm gear clamp over both the hose and **Outlet** port until the hose bulges slightly on either side of the clamp.

4. Attach the 75-mm inlet hose (P/N: 000-109320-XX) to the filter canister inlet port using the same method as described in Step 3.



Attaching the hoses

The next operation in the chiller setup procedure is attaching the hosing.



1. Attach the Chiller Outlet hose (P/N: 000-109323-XX) to the chiller **Outlet** port.



- Before attaching the 11-meter hoses, note they are labeled Chiller Inlet and Chiller Outlet.
- When tightening worm gear clamps onto fittings, tighten sufficiently to cause the hose to bulge slightly on either side of the clamp. This level of tightness prevents future leaks.

- a) Thread a worm gear clamp onto the hose at the attachment end of the hose (the end without the fitting).
- b) Firmly push the hose onto the elbow adapter.
- c) Tighten the worm gear clamp over the hose onto the elbow adapter.

2. Attach the Chiller Inlet hose (P/N: 000-109322-XX) to the filtration unit inlet port.



Take care when moving and locating the Chiller Inlet hose. The quick disconnect fixture on the projector-connection side, while manufactured from durable plastic, is breakable under rough handling.

- a) Thread a worm gear clamp onto the hose at the attachment end of the hose (the end without the fitting).
- b) Firmly push the hose onto the elbow adapter.
- c) Tighten the worm gear clamp over the hose onto the elbow adapter.

Filling the chiller and projector and testing for leaks

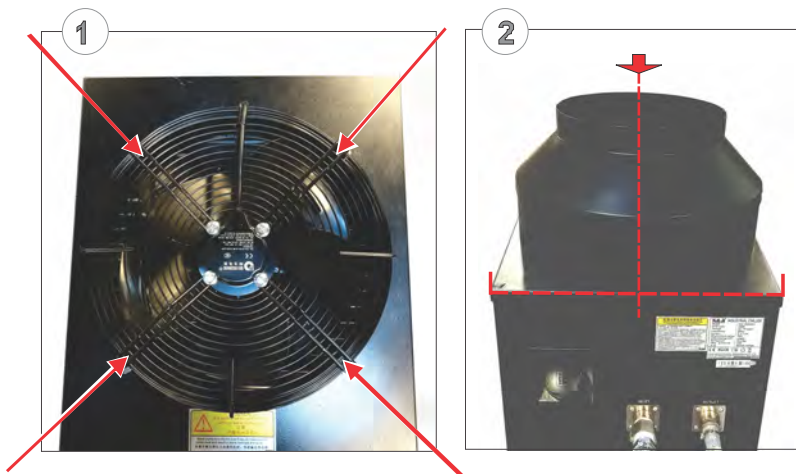
It is expected that the projector is filled by the chiller.

1. To fill the chiller, hoses, and the projector, follow the instructions in the *Maintaining Chiller Coolant Levels instruction sheet (P/N: 020-103450-XX)*.
2. After the chiller, hoses, and the projector are full, allow the cooling loop to run for 15 minutes, carefully inspect the connections for leaks.
3. If a minor leak occurs at a fitting, try tightening the fitting to stop the leak.
4. If the leak can not be fixed through basic tightening, contact Christie Technical Support.
5. Make sure the hoses are routed in a manner to avoid trip hazards.
If a hose is in a path, use a high visibility protective tray to route the hoses.

Installing the chiller air ducts

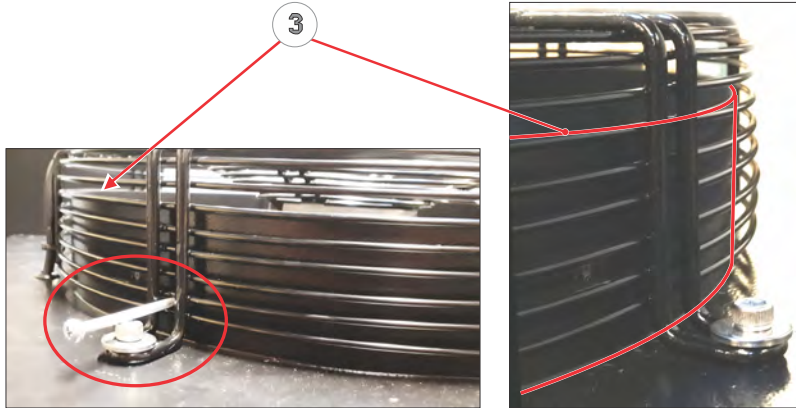
The final operation is to install the chiller air duct or ducts, dependent upon the size of the on-site exhaust duct hoses.

1. Place the 12-inch (303 mm) air duct (P/N: 011-109128-XX) on top of the chiller and center it over the fan as shown in the image below.



2. Adjust the position of the duct until one of the screw holes in the duct aligns with one of the fan guard brackets (shown in the image in step 1).

This adjustment allows the screw to slot into the fan guard bracket as shown in the image below, which prevents shifting of the duct during chiller operation.



3. Evenly tighten the screws against the flange ring of the fan guard. The flange ring is shown in the image in step 2.



Do not over-tighten the screws. Over-tightening warps the duct.

4. If required by the size of the on-site exhaust vent hoses, place the 8-inch (198 mm) air duct (P/N: 011-109164-XX) on top of the 12-inch duct.



5. Use the pre-drilled holes in the 8-inch duct and self-tapping screws (not included in the kit) to secure the smaller duct to the larger duct.
6. Connect the site exhaust vent hose to the duct.

Technical support

Technical support for Christie Cinema products is available at:

- Support.cinema@christiedigital.com
- +1-877-334-4267
- Christie Professional Services: +1-800-550-3061 or NOC@christiedigital.com