

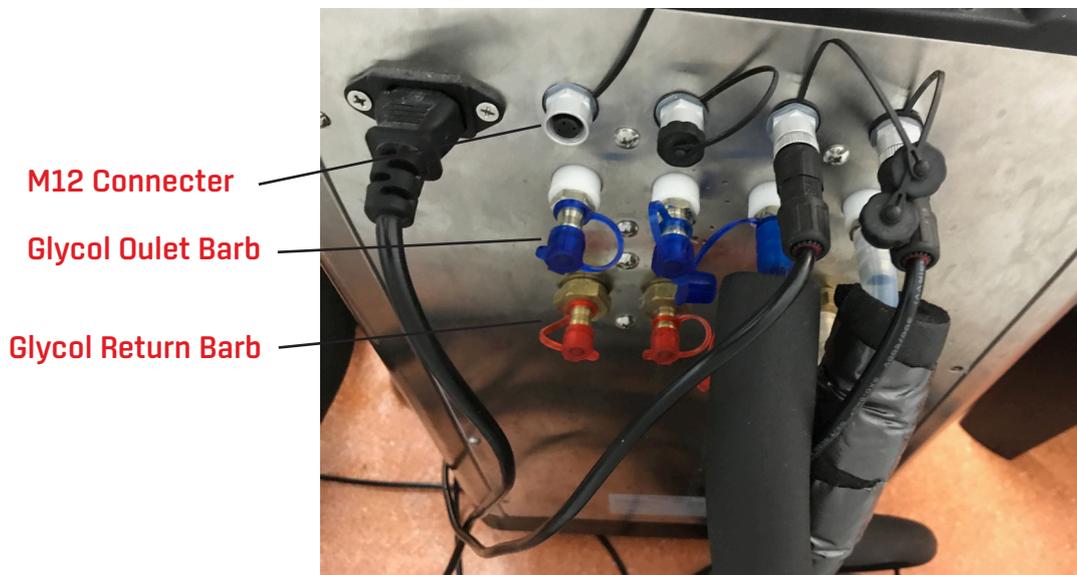


# GLYCOL CHILLER ADAPTER GUIDE

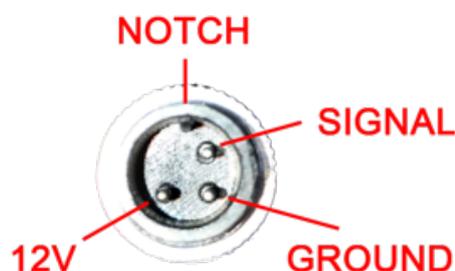
The Grainfather Glycol Chiller connections can be adapted to connect up to other branded conical fermenters if you already have one of these. We don't supply the equipment to do this, but we are happy to provide you advice on how this can be done.

NOTE: We recommend you ask a qualified electrician to complete this work for you. Please note that Grainfather won't be liable for any resulting damage to our product, malfunctions or inability to perform with a 3rd party product.

The Grainfather Glycol Chiller has four cooling channels (see image below), each of which consists of a solenoid valve attached to an outlet barb, return barb with non return valve, and a M12 connection with 3 pins. The M12 connection has two functions: to provide 12V power to a fermenter/controller, and to provide a way for a connected device to turn on the cooling on that outlet.



The M12 cable pin configuration is shown in image below. The 3 pins are 12V, GROUND, and SIGNAL. In order to activate cooling on a particular outlet, you need to provide 12V power to the signal pin. This will open the solenoid valve and turn on the glycol pump.



The best way to alter the chiller for use with 3rd party temperature controllers is to create a wiring adapter that will be compatible with the chiller's M12 connections. This can be done by using a relay to form a connection between the M12, 12V and ground pins. The relay can be controlled by the temperature controller cooling output signal. The specific requirements depend on the temperature controller in question.

Below follows a guide to create a wiring adapter for the SS Brew Tech Temperature Controller.

## Wire Adapter for SS Brew Tech Temperature Controller

### Materials Required:

- M12 3 pin cable [we have this available as a spare part - item#: 10337]
- 12 V mechanical relay [these can be purchased from Amazon, Ebay or similar]
- SS Brew Tech Temperature Controller

### Method:

1. Cut M12 cable in half (or different length depending on preference)
2. Cut back the insulation a few cm (1") and identify red (12 V) and white (signal) wires.
3. Connect red and white wires to the NO (normally open) load pins on the relay (refer to your relay data sheet on which pins these are). It doesn't matter which NO load pin you connect the red and white wire to. **It is critical that you don't use the black wire, this is not needed.**
4. Cut the end of the SS Brew Tech Controller cooling wire (the end not connected to the controller), cut back the insulation a few centimetres and connect the cooling signal wires (12 V and ground) to the relay coil pins (refer to your relay data sheet on which pins these are).
5. The Grainfather Glycol Chiller comes with a Cooling Connection Kit, this includes tubing and two part couplers. You won't need the couplers for this so you can put these aside. You just need to attach both hoses to your SS Brew Tech Fermenter and Grainfather Glycol Chiller outlet and return barb.
6. Then all you need to do is connect the M12 3 pin cable to the Glycol Chiller M12 connector, attached the thermometer probe back into the fermenter and plug the controller into the wall.
7. Press power button on the Glycol Chiller to turn it on and set your desired fermenting temperature on the controller.
8. Then press the number button on the Glycol Chiller that corresponds to the outlets that you have plugged your M12 cable and tubing to. When the conical fermenter needs cooling, the glycol will start flowing.

