



# KOMOS

## DRAFTMASTER

### INSTRUCTION MANUAL

Thank you for purchasing the DraftMaster Glycol Chiller. The DraftMaster can be used for the following applications:

- Use the built-in pump to cool a trunk line in a commercial draft installation.
- Use the built-in pump to cool a single glycol-ready draft tower in a home or commercial installation.
- Using CO<sub>2</sub>, push beer through the 4 stainless coils submerged in the glycol bath. This allows you to store kegs warm yet serve cold beer.

#### ATTENTION

*We recommend you use a 20% glycol/80% water solution in your bath to eliminate freezing.*

## ASSEMBLY INSTRUCTIONS

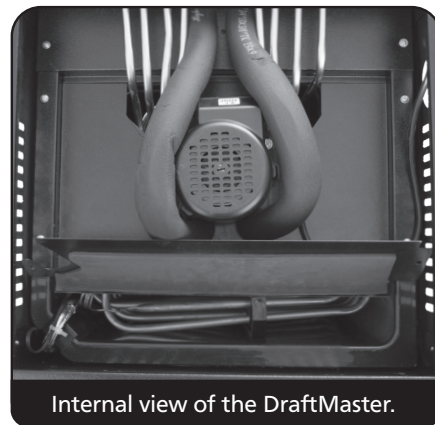
- 1 Unpack your unit, then unscrew and remove the top cover.
- 2 Unpack the accessories box located under the top cover. Install the drain plug on the red rubber tube sticking out the back of the unit. If you will be using the optional rolling casters, install them now.
- 3 Unscrew and remove the 3-piece reservoir cover.

**TIP** - Take note of which side the slot is located on.

- 4 Fill the reservoir with a 20% propylene glycol solution – 4 parts RO/distilled/deionized water to 1 part 99.9% propylene glycol.

If you choose to use water only – it is best to use tap water as RO/distilled/deionized water on its own may damage the heat exchanger.

**TIP** - While you work on the next steps plug in the DraftMaster unit to verify that it cools. Leave the pump unplugged until it is hooked up to your coolant lines.



Internal view of the DraftMaster.

## USING THE BUILT-IN SUBMERSIBLE PUMP

**TIP** - The pump power cord plugs directly into the DraftMaster unit just above the temperature controller. The pump will automatically run every time the compressor cycles on. With a separate power cord, the pump can be plugged into an external power source for constant recirculation.

- 1 Take a look at the inlet and outlet bulkheads at the front of the unit, noting the numbered product lines and coolant line located below.
- 2 Attach & clamp tubing from the coolant out bulkhead to the inlet of your draft tower or trunk line chilling loop.
- 3 Attach & clamp tubing from the outlet of your chilling loop to the coolant inlet bulkhead.
- 4 Check for leaks:
  - Plug in the pump and wait for the compressor to cycle on (or lower the temp setting to force the cycle).
  - Look for leaks where the tubing is connected to the cooling system.
  - If necessary, tighten and reattach clamps.

## DRAFT LINE SET-UP

- 1 Attach tubing from the beverage out of your keg to the #1 bulkhead on the left-hand side.
- 2 Attach tubing from the #1 bulkhead on the right-hand side to your draft faucet.
- 3 Pour a pint to test serving temperature. Lower reservoir temp if needed.

**TIP** - The beverage cooling capacity depends greatly on the temperature of the ambient environment, the chilling solution, and the beer before it enters the unit. We highly recommend using propylene glycol to lower the reservoir temp as much as possible. If you're using the DraftMaster in environments above 80°F, you may need to pass the beer through the unit twice by daisy chaining the cooling coils.

# TEMPERATURE CONTROLLER SETTINGS

The temperature controller (found just above the red power switch near the bottom of the unit) has several functions to help maintain ideal conditions to control the temperature of your chilling solution reservoir.



THE CONTROLLER UNIT ITSELF IS FAIRLY STRAIGHTFORWARD, BUT IT'S STILL A GOOD IDEA TO GET FAMILIAR WITH THE BUTTONS/FUNCTIONS.

## CONTROLLER BASICS

- To turn on/off - hold the **POWER** button down for few seconds.
- The readout on the controller will show the temperature (Celsius) of the liquid inside the DraftMaster.
- To check the temperature setting - press & hold the **UP** arrow.
- To check the differential (+/- range from the set temp) - press & hold the **DOWN** arrow.

## FUNCTION CHANGES

TO MAKE CHANGES TO ANY OF THE FUNCTIONS

- 1 Hold down the **S** button until **F1** shows on the controller, release the button.
- 2 Select the desired function by clicking the **UP** or **DOWN** arrows until the controller shows the correct function number.
- 3 Press & hold the **S** button while using the **UP/DOWN** arrows to adjust to your desired setting.
- 4 Release the **S** button
- 5 And finally, press the **POWER** button to lock in the setting.

## FUNCTION SETTINGS

- F1 THE DESIRED TEMPERATURE SETTING**
- F2 THE +/- TEMPERATURE RANGE**  
DraftMaster will cycle on/off to keep its temperature within the set range of the set temperature - example: if you set the temperature at 5°C with +/- 0.5 the unit will cycle on/off over a 1°C range at 4.5°C and 5.5°C. The lowest setting is 0.3°C.
- F3 COMPRESSOR DELAY TIME IN MINUTES**  
This feature protects the unit from turning on/off too quickly, and potentially damaging the compressor. The range is from 1-10 minutes with the default set at 3.
- F4 CALIBRATES THE DRAFTMASTER AGAINST AN ACCURATE THERMOMETER**  
Generally, the unit does not need any additional calibration. However, to find the correct adjustment - place an accurate thermometer in the unit and compare against the controller readout. If needed, set the calibration on the controller +/- by the number of degrees it is off. This will ensure the unit is adjusting to your desired temperature properly.

## MAINTENANCE/ CLEANING

To ensure the unit continues to properly function it is good practice to dust/clean the heat exchangers every 6 months.

## TROUBLESHOOTING

|                                          |                                                                                                                                                                                         |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DraftMaster does not turn on             | Check circuit breaker or fuse ; Check plugs.                                                                                                                                            |
| DraftMaster does not seem cold enough    | Check temperature setting by placing a thermometer inside reservoir. Check after 30 minutes & compare against set unit temperature. Calibrate with F4 function on controller as needed. |
| DraftMaster shuts off/on too often       | Check set temperature range. Adjust F2 function on controller to a higher range.                                                                                                        |
| DraftMaster is always on                 | Ambient room temperature is too high, so unit is working harder to cool to set temperature.                                                                                             |
| DraftMaster seems to make too much noise | Humming is normal and gurgling sounds are caused by cooling liquid used by the unit. The unit may not be not level.                                                                     |