

710 OMNI CHILLER

INSTALLATION AND OPERATING INSTRUCTIONS



PRACTICAL
SYSTEMS
INC.

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710 Omni Chiller Installation and Operating Instructions

CAUTION: READ INSTRUCTIONS CAREFULLY BEFORE PROCEEDING

- 1) Unpack the 710 Chiller and inspect it for any obvious damage that may have occurred during shipping. (Note: It is a good idea to save the carton and skid in case future service at the factory is necessary.)
- 2) Position the chiller unit in a clean, dry area. Since the 710 Chiller has an air cooled condenser, it is important to insure free air flow to the unit. Allow a minimum of 6" of clearance between the chiller and any obstruction.
- 3) It is important to note that this chiller cools by pumping a refrigerated mixture of water and antifreeze through a cooling coil, block tray, etc. Only a mixture of water and antifreeze should ever be run through the chiller.
- 4) Connect a piece of vinyl tubing from the "water out" port on top of the chiller to your cooling coil. Connect a piece of vinyl tubing from the cooling coil to the barb fitting on the fill chamber. The tubing should form a continuous loop. **NOTE:** if you are chilling multiple slurry bowls, they may be connected "in series". If you are connecting multiple pieces of equipment to the chiller, they must be connected "in parallel" by using "T's" on the chiller input and output lines. **PLEASE CONTACT THE FACTORY FOR RECOMMENDATIONS AND GUIDANCE ON CONNECTING TO MULTIPLE PIECES OF EQUIPMENT TO INSURE OPTIMUM PERFORMANCE AND TO AVOID OVERLOADING THE 710 CHILLER.**
- 5) Remove the PVC end cap from the top of the vertical white chamber. Fill the system with a mixture of at least 20% antifreeze and 80% water. Fill, with the pump running, until all the lines are full and free of air bubbles. Replace the PVC end cap.

WARNING: THE 710 OMNI CHILLER SHOULD BE CONNECTED TO A 110V OUTLET WITH GFI (GROUND FAULT INTERRUPT) TO PREVENT POSSIBLE ELECTRIC SHOCK.

Your 710 Chiller has been tested, calibrated and set to automatically cycle off at 45°F. To alter this setting, adjust the thermostat on the right side of the unit. The cooling compressor will not run unless the pump switch is turned on.

WARNING: NEVER RUN THE PUMP WITHOUT FLUID IN THE LINE. THE PUMP CAN BE DAMAGED IF IT IS RUN DRY.

Remember, if you have any questions about the proper installation or operation of your 710 Omni Chiller, please do not hesitate to contact us toll free at 800-237-8154. We will be happy to assist you in any way possible.

Model 710 Omni Chiller Specifications

Power Requirements	15 amps
Current Start	8.0 amps
Current Run	7.7 amps
Fuse	20 amps
Voltage	110 volts
Cycle	60 HZ
Phase	1
Refrigerant	R134
Cooling Capacity	1/4 HP (3,000 BTU)

Replacements Parts

710CHAMBER	Fill Chamber
2467	Little Giant Pump
3538	Castor
2607	Switch
2608	Boot
2430	Fuse
2431	Fuse Holder

710 CHILLER WIRING DIAGRAM

