



**Changing**  
*how food is served.*

## INSTALLATION MANUAL

**DROP-IN SPECIAL PURPOSE  
HOT/COLD SERIES**

**CHP SERIES**

**QUICKSWITCH WELLS**

**CHP-X**

**CUSTOM FABRICATORS OF FOODSERVICE EQUIPMENT**

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## Drop-In CHP Series General Installation

**These units are intended for indoor use only. A room temperature of no more than 86°F (36°C) is recommended.**

The counter cut-out sizes and power requirements are shown on the specification sheets. A gasket is provided with each unit to be installed around the flange of each unit. The weight of the unit on the gasket forms a seal preventing liquids from seeping into the cut-out opening. *(Silicone is an optional seal not provided.)*

### Openings

#### **IMPORTANT NOTE:**

Self-contained refrigerated units require a minimum of (330 cubic feet per minute) of fresh airflow across the condenser for proper operation of the compressor.

***ATTENTION:*** Failure to provide proper airflow can cause premature compressor failure and will VOID any factory warranty.

#### **Ventilation Openings**

A recommended minimum opening of 16" X 16" (256 square inches) is required in front of the condenser. The rear must have an opening to permit the exhaust of heated air. The recommended rear opening is 16" X 16" (256 square inches)

Refer to *Installation Procedures and CHP illustration/specifications* for recommended louvered front and rear openings.

#### **Service Access**

These units have multiple components on the right and left side of the condensing unit. They include the electrical power, master switch, and main control board on the right. As well as the drain manifold and TXV expansion valve access on the left. Due to this it is required to have the service access incorporated with the ventilation opening on the side that these components are on. **Refer to the illustration provided for recommended access to these components.**

***ATTENTION:*** Warranty on refrigeration systems will be VOID if installation instructions are not followed.

## Plumbing

Each food well comes with an individual 3/4" drain valve. These valves are manifolded to one common drain line for final connection in the field. Access to these valves is necessary to drain water out of the wells. **Refer to illustration provided for more details.**

### **NOTICE**

WARRANTY **DOES NOT** COVER COST OF REMOVING DROP-IN UNIT FROM COUNTER IF THERE ARE NO SERVICE ACCESSES PROVIDED TO MAKE REPAIRS.

WARRANTY ALSO **DOES NOT** COVER COST OF REPLACING UNIT BACK INTO COUNTER AFTER REPAIR HAS BEEN MADE.

### **IMPORTANT NOTE:**

On counters that cannot meet any of the installation instructions requirements provided you can contact LTI's Engineering department at 1-888-584-2722 for recommendations on the installation requirements of the CHP/Refrigeration drop-ins. Detailed counter drawings may be required to provide recommended installation instructions.

## INSTALLATION PROCEDURES

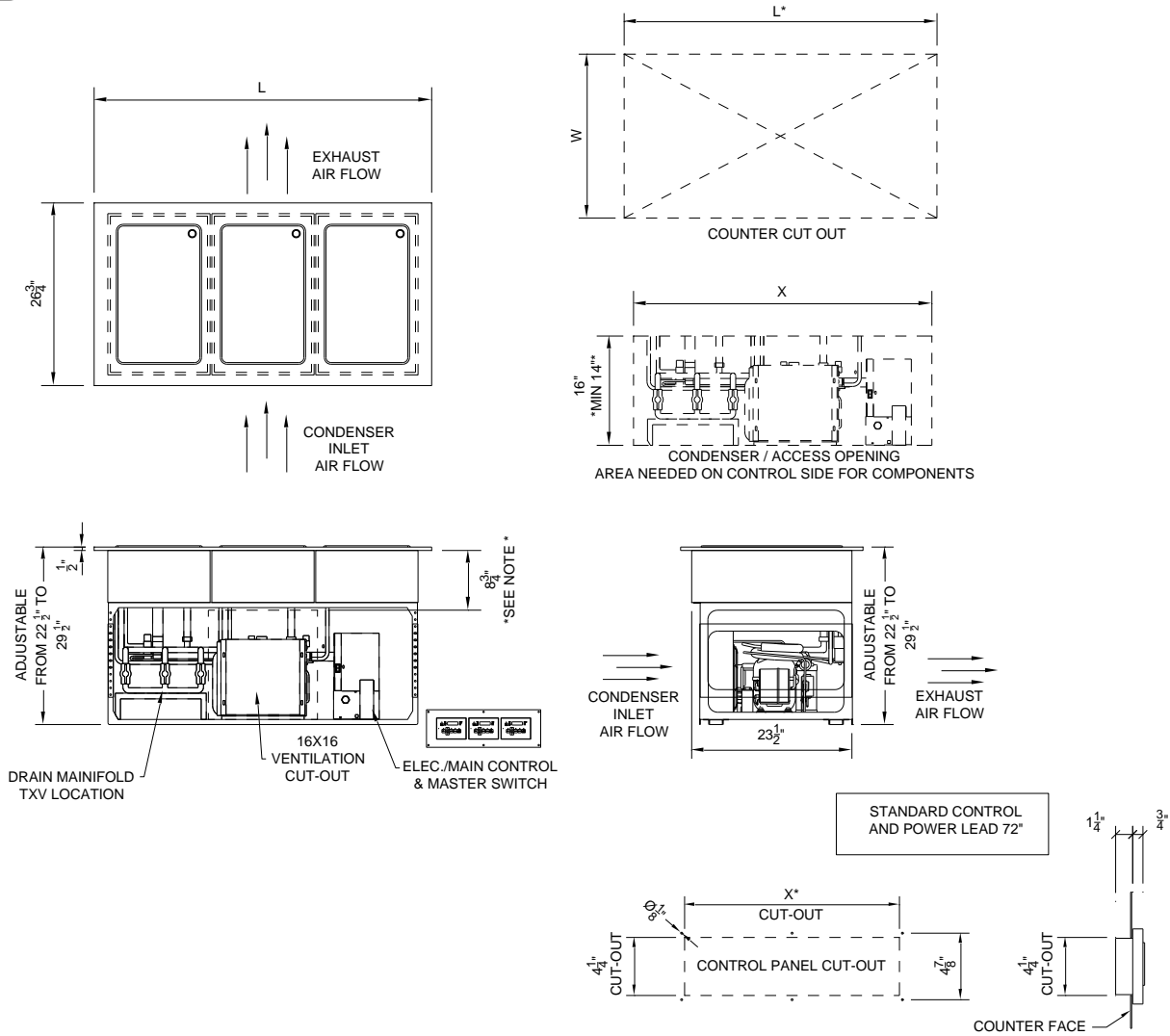
1. Cut the appropriate opening in the countertop for unit being installed. Refer to *Technical Specifications Table* for counter top cutout dimensions.
2. Make structural modifications or add bracing underneath the counter top to ensure the countertop will support the unit being installed.
3. Cut the necessary openings in counter to provide proper ventilation to the condensing unit as well as recommended service access openings for any service needed to repair unit. Louvered or grill-style panels should be installed where ventilation openings are located to protect the condensing unit.
  - a. Self-contained refrigerated units require a minimum of (330 cubic feet per minute) fresh airflow across the condenser. Cut-Out openings should be a minimum of 16" X 16" (256 square inches).
  - b. One opening should be in front of the condenser with the other opening on the opposite side.

Refer to the *Illustration and Technical Specifications Tables* for ventilation/access and cut-out locations.

**NOTE: ALWAYS** measure the location of the condenser unit to insure proper location of ventilation openings.

**ATTENTION:** Failure to provide proper airflow can cause premature compressor failure and will VOID any factory warranty.

# CHP



**NOTE:**

**CUT-OUT OPENINGS FOR VENTILATION AND ACCESS ARE CENTER OF THE DROP-IN UNIT FROM LEFT TO RIGHT.**

\* 8 3/4" IS THE MINIMUM DISTANCE FROM THE TOP OF THE COUNTER TO THE START OF THE VENTILATION / ACCESS OPENING REQUIRED. PLEASE NOTE THIS MAY CHANGE BY 1" INCREMENTS DUE TO THE HOUSING ADJUSTABILITY FROM 22 1/2" TO 29 1/2". IF ANY ADJUSTMENTS ARE MADE ALWAYS CHECK TO MAKE SURE THE VENTILATION AND ACCESS OPENINGS ARE IN THE CORRECT LOCATION.

MODEL#	COMP. R-507	120V/1		120/208V/1		120/240V/1	
		AMPS	PLUG	AMPS	PLUG	AMPS	PLUG
CHP-1	1/3 H.P.	7.2	5-15P	7.2	14-20P	7.2	14-20P
CHP-2		12.7	5-20P	9.6		10	
CHP-3		18.2	5-30P	12		12.7	
CHP-4		23.7	5-30P	14.4		15.5	

MODEL#	TOP		COUNTER CUT-OUT		ACCESS OPENING		CONTROL CUT-OUT	
	LENGTH (L)	WIDTH	LENGTH (L*)	WIDTH (W)	LENGTH (X)	WIDTH	LENGTH (X*)	WIDTH
CHP-1	17 1/4"	26 3/4"	15 3/8"	24"	14"	14" MIN - 16"	6 1/4"	4 1/4"
CHP-2	34 1/4"		30 5/8"		29"		11"	
CHP-3	49 1/2"		45 7/8"		44"		15 3/4"	
CHP-4	64 3/4"		61 1/8"		60"		20 1/2"	