

MicroDairy Designs

Utility Requirements

Pasteurizer Electrical:

The 4 gallon 120 volt tabletop pasteurizer requires a dedicated 120 volt - 20 amp receptacle.
The 120 volt tabletop add on kit requires an additional dedicated 120 volt - 20 amp receptacle.

The 4 gallon 240 volt tabletop pasteurizer requires a 240 volt – 20 amp L1420R receptacle with 4 wires (2 Hot, 1 Neutral, 1 Ground).

The 240 volt tabletop add on kit requires a second 240 volt – 20 amp L1420R receptacle with 4 wires (2 Hot, 1 Neutral, 1 Ground).

See pictures of the L1420P Plug



The 15 gallon pasteurizer requires a 240 volt - 30 amp electrical connection.

The 30 and 45 gallon pasteurizers require a 240 volt - 60 amp electrical connection.

The 60 and 100 gallon pasteurizers requires a 240 volt – 100 amp electrical connection

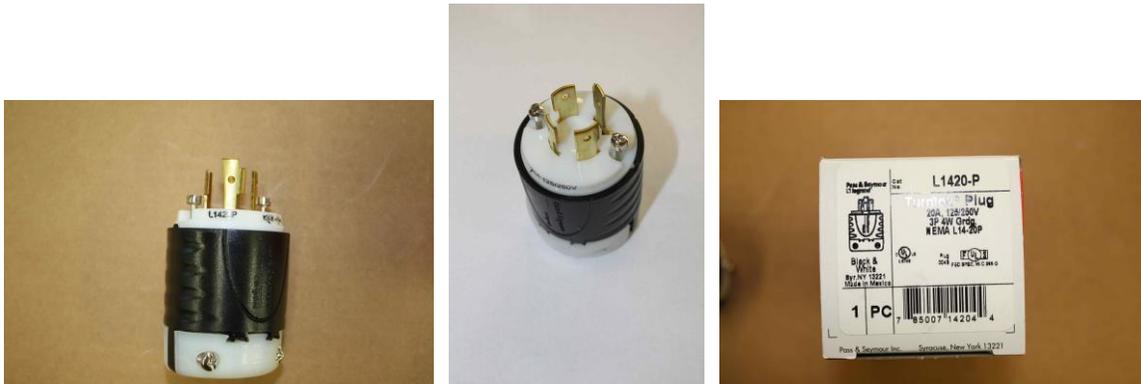
We recommend that a weather proof fused disconnect with the appropriate rating be mounted on a wall close to where the pasteurizer will be located. Following are pictures of typical disconnects. The pasteurizer electronics use both 240V and 120V components so 4 wires are required (2 Hot, 1 Neutral, 1 Ground).



Chiller Electrical:

The 100 gallon deep-freeze style chiller requires a dedicated 120 volt - 15 amp circuit.

The 160 gallon chiller and the dual tank bulk tank require a 240 volt - 20 amp circuit with 4 wires (2 Hot, 1 Neutral, 1 Ground). It comes with an 8 foot cord with a turnlok plug so it will require a matching receptacle. Following are some pictures of the (L1420P) plug.



The 300 gallon 3HP chiller requires a 240 volt - 40 amp electrical connection. The 300 gallon 5HP chiller requires a 240 volt – 50 amp electrical connection. We recommend that a weather proof fused disconnect with the appropriate rating be mounted on a wall close to where the compressor unit will be located. Following are pictures of typical disconnects. Only 3 wires are required (2Hot, 1 Ground)



The 300 gallon chiller pump cabinet requires a 120 volt - 15 amp dedicated receptacle mounted on the wall close to where the pump cabinet will be positioned.

Other Electrical:

Other accessories such as the peristaltic pump and the foil seal heater require 120 volt circuits. The circuits for these items do not need to be dedicated. If you have additional questions or considerations please do not hesitate to contact us.

Water:

The pasteurizer water jacket and the chillers are typically filled by connecting to a garden hose attached to either a hot or cold water supply. It is helpful to have a garden hose bib within 5 feet of the pasteurizer. If you have both hot and cold water connections you can fill the water jacket with hot water and speed up processing, but hot water is not required since the pasteurizer has a built in electric water heating elements. If your water source is farther away that is not a major problem...you will just have longer hoses in the area.

Drain:

The water jacket is typically drained by connecting a garden hose or tubing between the pasteurizer and the floor drain. Having the drain close to the pasteurizer allows you to use shorter hoses or have less wet floor area