

## Infinity Supercritical 10L Extractor Installation

- Electrical Power
  - 220 Volt 30 Amp Single Phase
  - System ships with a NEMA L14-30 Male plug
  - A Female NEMA L14-30 receptacle will be required
- Exhaust Venting
  - Material to plumb exhaust manifold to safe outdoor location
  - System ships with a 10' flexible hydraulic hose with Female ½" AN fittings (also called -8 JIC Female)
    - One end will connect to the exhaust manifold, the other should connect to customer supplied plumbing to a safe location outside
- Chiller
  - If customer supplied, the chiller needs to have the following minimum capabilities
    - 10,000 Btu/hr process chiller
    - 3.5 Gallon per minute
    - Control temperatures between 30F and 70F
  - If supplied by Infinity Supercritical the chiller will require a 220 Volt 15 Amp Single Phase circuit
    - Chiller will ship with a NEMA 6-15 Male plug
    - A Female NEMA 6-15 receptacle will be required
  - Two 5' Garden hoses or similar will be needed to connect the chiller to the heat exchanger
  - Proper fittings to connect the chiller to the hoses
    - Infinity Supercritical supplied chillers will ship with ½" Male NPT (pipe thread) connections
      - Two ½" Female NPT to ¾" Male Garden Hose fittings will be required
- Carbon Dioxide
  - A minimum of 200 pounds of liquid CO2 should be on site for setup and initial startup
    - Supply bottles must be liquid and have a siphon tube
      - Siphon tube may also be referred to as: syphon, dip tube, down tube, or bottom fed
      - If given a choice, the Siphon / Syphon options are the most efficient
    - Infinity Supercritical recommends 100 lb bottles. 75 lb bottles and 50 lb bottles will work, but will require more frequent bottle swapping
    - Supply bottle pressure must be a minimum of 500 psi
      - Dewar's tanks and other low pressure (around 350 psi) supply vessels will not work
- Test Botanicals
  - All users should initially operate the equipment with no botanicals in the Extraction vessel. After a few successful practice runs users should move on to Hop oil extraction
  - Infinity Supercritical recommends Cascade Whole Leaf Hops for practice extractions
    - Recommended baseline extraction parameters
      - Extraction Pressure = 1,400 psi

- Extraction Temperature = 95 F
  - Collection Chamber 1 Temperature = 85 F
  - Collection Chamber 2 Temperature = 80 F
  - Time (starting when supercritical state \*1,071psi & 88F\* is reached) = 1-4 hours
- Only after performing multiple successful Hop oil extractions should users move on to the botanical of their choice



NEMA L14-30 Plug Installed on 10L System



NEMA L14-30 Receptacle Required



Hydraulic hose with 1/2" Female AN fitting (-8 JIC Female)



NEMA 6-15 Plug installed on Infinity Supplied Chiller



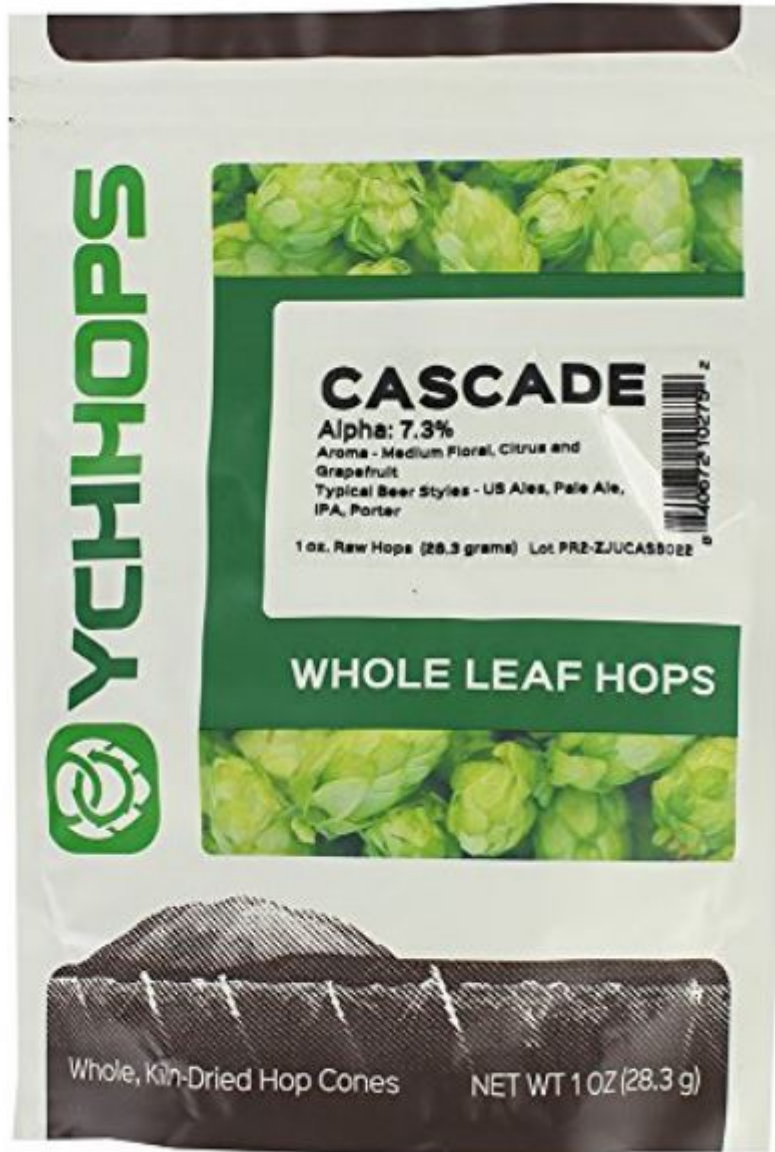
NEMA 6-15 Receptacle required for Infinity Supplied Chiller



Two 1/2" Female NPT x 3/4 Male Garden Hose fittings required for Infinity Supplied Chiller



Liquid CO2 supply cylinder with Siphon tube Required, 100 pound size recommended



Example of the Hops used by Infinity Supercritical for in-house testing





After initial CO2 only practice extractions, whole leaf hops should be used next. Do not use pelletized hops.