

Fully operational Camco Furnace brand coldwall, vertical bell, combination high-vacuum, inert or reducing atmosphere annealing/brazing furnace system. Manufactured 08_2011

For Sale at <https://www.publicsurplus.com/sms/auction/view?auc=3345281>

One molybdenum heating element is Mo sleeve spliced and the furnace continues to heat uniformly. For “as new” furnace operation, molybdenum heat shields and elements should be replaced. The molybdenum in the hot-zone is degraded due to previous bonding material reactions.

See Manufacturer’s website <http://camcofurnace.com/j.html> & <http://camcofurnace.com/pdf/J/Camco%20J-VAC-2%20High%20Vacuum%20Furnace.pdf>

J-12-1824 COMBO High-Vacuum Furnace Specification Sheet

Type	Coldwall, Vertical Bell, Turbo Pumped
Maximum Temperature	1250°C
Hot Zone	18" (45 cm) Dia. x 24" (60 cm) H.
Frame Dimensions	74" (137 cm) W. x 34" (86 cm) D. x 120" (305 cm)
Power Requirements	480V 3 Ph. 60A 60Hz – 240V 3 Ph. 120A 60Hz
Gas Requirements	Vent 25 – 50 psig, regulated, clean dry Nitrogen Process 30 – 50 psig Argon or Helium, (Hydrogen)
Turbo	ISO 250, 1000LIPS, (38,000 rpm) Ceramic Bearings
Thermocouple	Type K Chromel- Alumel Control & Monitor Thermocouples
Compressed Air	80 PSI regulated Clean/Dry

Process vacuum at temperature, 10⁻⁶ torr. Vacuum at ambient, 10⁻⁷ torr. Turbo pump was recently cleaned and checked – easily achieves factory spec vacuum levels.

Water Cooling Requirements: 5 Ton (60,000 BTU). 35 psig, at 6 gallons per minute. Note: Maximum backpressure is 15 psig.

Heat up ramp rate 75°C per minute - empty chamber.

All molybdenum Hot Zone & elements. All insulators are made of High Alumina. Element style 1/8" solid molybdenum wire.

Included Features

- 1000 LIPS Turbo Pump
- High Vacuum isolation gate valve
- Equipment on casters to roll into place
- Honeywell Controls - Ramp & Soak
- DCP302 Program Controller
- UDC2300 Over-temperature Controller
- 19 Programs - 20 segments per program
- Sight glass for calibration melts
- Fully automatic – Single-button starts the run and it automatically pumps down and crosses over to high vacuum, ramps to temperature and then soaks – cools-down and post purges with nitrogen.
- Survey Thermocouple - Type K





Tool Labels



Controls



Manuals and Software



18" X 24" Chamber in closed and open position – self-contained bell chamber lift system