



## Tool Make & Model

## Tool Configuration / Specifications

### **C300 CARBON GROWTH SYSTEM:**

#### **SYSTEM REQUIREMENTS:**

RECOMMENDED AMBIENT TEMPERATURE: 72 deg F MAX, RELATIVE HUMIDITY: 55% MAX

#### **ELECTRICAL:**

1.1- 208 VAC, 200 AMP, 3 PHASE, 60 Hz, 5-WIRE: L1, L2, L3, NEUTRAL, GROUND (\*a, \*c)

#### **GAS:**

- 2.1- ARGON: 98 SLPM @ 45 PSIG, 1/2" MVCR (\*a, \*b, \*c)
- 2.2 - NITROGEN: 70 SLPM @ 45 PSIG, 1/2" MVCR (\*a, \*b, \*c)
- 2.3- HYDROGEN: 15 SLPM @ 25 PSIG, 1/4" FVCR (\*a, \*b, \*c)
- 2.4 - ETHYLENE: 18 SLPM @ 10 PSIG, 1/4" FVCR (\*a, \*b, \*c)
- 2.5- ACETYLENE: 2 SLPM @ 10 PSIG, 1/4" FVCR (\*a, \*b, \*c)
- 2.6 - OXYGEN: 100 SCCM @ 10 PSIG, 1/4" FVCR (\*a, \*b, \*c)
- 2.7- CARBON MONOXIDE: 2 SLPM @ 25 PSIG, 1/4" FVCR (\*a, \*b, \*c)
- 2.8- PNEUMATIC SUPPLY: CLEAN DRY AIR / N2, 1 SCFM @ 80 PSIG, 3/8" PUSH-IN (\*c)
- 2.9- N2 FACILITY: 50 SLPM @ 80 PSIG, 1/4" PUSH-IN (\*f)

#### **BURNBOX EXHAUST:**

- 3.1- BURNBOX EXHAUST; 50 SCFM @ 1" WC, 3" DIA. DUCT (\*c)

#### **CABINET EXHAUST:**

- 4.1- GAS COMPARTMENT: 80 SCFM @ 0.5" WC, 4" DIA. DUCT (\*c)
- 4.2- REACTOR COMPARTMENT: 500 SCFM @ 1" WC, 8" DIA. DUCT (\*c)
- 4.3- FURNACE UNLOAD COMPARTMENT: 250 SCFM @ 1" WC, 6" DIA. DUCT (\*c)
- 4.4- ELECTRICAL COMPARTMENT: 60 CFM EACH @ 1" WC, TO ROOM  
FACILITY EXHAUST CONNECTION NOT REQUIRED

\*a- CONNECTIONS MADE INSIDE OF CABINET

\*b- CUSTOMER TO SUPPLY OPPOSITE GENDER FITTINGS

\*c- CUSTOMER SUPPLIED CONNECTIONS AND PIPING

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