









### **PERFORMANCE:**

Typical Ingot Diameter 8" (200 mm)
Throat Diameter 12" (305 mm)
Seed Lift Rate 0-20 in/hr (0-508 mm/hr)
Seed Jog Speed (Nominal) 20 in/min (508 mm/min)
Total Crucible Travel 18" (457 mm)
Crucible Lift Rate 0-10 in/hr (0-254 mm/hr)
Crucible Jog Speed (Nominal) 2.0 in/min (50.8 mm/min)

Seed Rotation (Reversible) 0-50 rpm Crucible Rotation (Reversible) 0-20 rpm

Vacuum Pumps-<br/>(Recommended)Main<br/>Aux300 cfm (8500 l/min)<br/>60 cfm (1700 l/min)

### SILICON CHARGE CAPACITY:

Standard Hot Zones for the KX120 are available to fit the following crucible sizes:

CRUCIBLE	CRUCIBLE	<b>CHARGE SIZE</b>
DIAMETER	HEIGHT	COLD PACK
18.0 in	14.0 in	60 kg
20.0 in	15.0 in	90 kg
22.0 in	15.0 in	120 kg

### **UTILITY REQUIREMENTS:**

**ELECTRICAL**:

FURNACE 190 kVA, 380 / 400 / 440 / 460

±10% VAC. 3 PHASE

50/60 Hz, FUSED FOR 375 / 350 / 325 / 300 amps

**COOLANT WATER:** 

Maximum Inlet Temperature 770 F (25°C)

Minimum Flow Rate 60 gpm (227.0 l/min) total Diff. Supply Pressure 38 psi (2.7 kg/cm²)

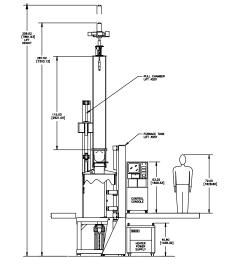
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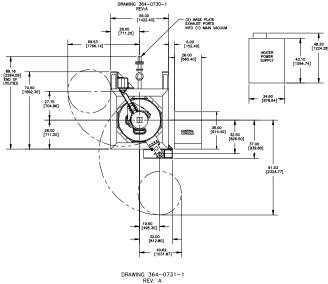
Mass Flow Control (Max.) 100 slpm Purge Flow 75 slpm Facility Total 175 slpm

Recommended Supply Pressure 75 psi (5.3 kg/cm²)

AIR:

Recommended Supply Pressure 90 psi (6.3 kg/cm²)





# PLAN VIEW CHAMBERS OPEN

## **DIMENSIONS (APPROXIMATES):**

	Furnace Overall	Control Console	Power Supply
HEIGHT	310 in (7.87 m)	63 in (1.60 m)	39 in (0.98 m)
WIDTH	110 in (2.79 m)	26 in (0.66 m)	31 in (0.77 m)
DEPTH	153 in (3.88 m)	36 in (0.91 m)	44 in (1.12 m)
WEIGHT (APPROX.)	12,000 lbs (5,455 kg)		



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