

SCARROTT METALLURGICAL CO. (SMC) EQUIPMENT CAPABILITY

ID	Atmosphere	Working Zone W x H x D	Volume Cubic Feet	Temperature Range	Temperature Uniformity	AMS 2750		BAC 5621		Torr Range	Equipment Description
						Type	Class	Type	Class		
1	Furnace High Vacuum	30" x 34" x 55" Max Flat Diag. 62"	32 Cu. Ft.	900°F - 1500°F 1500°F - 2150°F	±10° ±25°	B	2 5	B	II IV	5 x 10-6	Steel cold wall, Mo radiant shield, Mo elements. Front loading. Max 2800°F.
2	Furnace High Vacuum	34" x 26" x 50" Max Flat Diag. 65"	30 Cu. Ft.	950°F - 1550°F 1550°F - 2150°F	±10° ±15°	B	2 3	B	II III	5 x 10-5	Steel cold wall, Mo radiant shield, Graphite elements. Front loading. Max 2600°F.
3	Furnace Air	18" x 21" x 36"	11 Cu. Ft.	200°F - 500°F	±10°	B	2	N/A	N/A	N/A	Temperature air furnace, electric, fan circulating. Front Loading.
4	Furnace High Vacuum	9" x 9" x 9"	1 Cu. Ft.	600°F - 2150°F	±10°	B	2	N/A	N/A	5 x 10-6	Steel cold wall, Mo radiant shields, Ta elements. Top loading. Max 3000°F
6	Furnace Air LN2 Freezer	30" x 26" x 55"	25 Cu. Ft.	-100°F - 0°F	±10°	N/A	N/A	N/A	N/A	N/A	Front loading.
7	Furnace High Vacuum	54" x 18" x 56" Max Flat Diag. 77"	31 Cu. Ft.	850°F - 1550°F 1550°F - 2150°F	±10° ±25°	B	2 5	B	II IV	5 x 10-6	Cold wall, Mo radiant shield, Mo elements. Front loading. Max 2600°F.

Equipment	Description
Helium Detector	Pfeiffer HLT260 - 10 ⁻⁸ atm*acc/sec
Hardness Tester	2x United - HRC, HRA, HR15N, HRF.
Microhardness	Buchler Micromet 11 - HV & HK.